

IUFRO

Interconnecting Forests,
Science and People

125th Anniversary
Congress 2017



125TH ANNIVERSARY CONGRESS

MAIN PROGRAM

Freiburg 18 – 22 September 2017





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WELCOME MESSAGES



Michael Wingfield

Dear friends and colleagues

It gives me great pleasure to welcome you to IUFRO's 125th Anniversary Congress in the beautiful city of Freiburg. In attending this meeting, you are participating in one of the largest gatherings of the forest science and associated community to be held in recent years. But you also join us in celebrating a major milestone in the history of forest research: the 125 year-long contribution that IUFRO has made to promoting international cooperation in research embracing the full range of topics related to forests and trees.

As you may know, IUFRO was established on 17 August 1892 in the small town of Eberswalde near Berlin, Germany, by only three organizations that became the founding members: the Association of German Forest Experiment Stations and the experiment stations of Austria and Switzerland. From that time onwards, IUFRO has grown to become a worldwide organization and now represents more than 15,000 forest scientists in over 600 Member Organizations and in 126 different countries.

IUFRO originally emerged from the recognition that research was important to the future of forests and people. This remains as true today as it was 125 years ago! We live in a complex and

rapidly changing world; one where natural resources including forests are under severe pressure. This has impacts on virtually every element of our lives; the security of water resources, the air we breathe, food security, and general human well-being. It is my sincere hope that by marking the 125th anniversary of IUFRO, we will all be inspired to take steps towards more closely interconnecting forests, science and people. This will allow us to jointly pursue our ultimate goal to find pathways towards more sustainable global development. The future of our forests will depend deeply on research to provide solutions to the many challenges that face them. IUFRO will surely play an increasingly important role in achieving this objective.

Together with our local hosts and regional partners, we have anticipated our 125 Anniversary Congress for a long time. It provides a unique opportunity to gain new knowledge from outstanding research. Importantly, it also offers a platform to engage not only with many of the world's leading forest scientists and research managers but also with global leaders in industry, government and civil society.

Arranging a Congress of this magnitude requires a huge effort on the part of many people. I take this opportunity to thank the NFZ forestnet as our local hosts, the members of the Congress Organizing Committee, the Congress Scientific Committee, the IUFRO Headquarters team in Vienna and the many other people that have worked tirelessly to prepare a globally relevant, scientifically challenging and socially enjoyable event for us.

It is a particular privilege for me to serve IUFRO as its President during our 125th Anniversary year. Thank you for attending this meeting and for sharing your knowledge and experience. In doing so, you are contributing to the future, not only of IUFRO but to the long term well-being of humankind. I wish you a week full of inspiring scientific presentations, important stakeholder discussions, amazing anniversary celebrations, and wonderful networking opportunities!

Michael J. Wingfield
Ph.D., D.Sc. h.c (UBC, NCSU), FRSSA, ASSAF
President: International Union of Forestry Research Organisations (IUFRO)
Mondi Professor of Forest Pathology
Director: FABI, the Tree Protection Co-operative Programme (RSA) & DST/NRF Centre of Excellence in Tree Health Biotechnology



Christian Schmidt

Dear Reader

I extend my sincere congratulations on the 125th anniversary of the International Union of Forestry Research Organizations (IUFRO). IUFRO has long been established as the international organization that advances scientific investigation into current forestry issues and encourages discussion on these issues at the global level. On behalf of the host country, I am delighted to welcome you to the Anniversary Congress in Freiburg. You could not have chosen a better location.

Germany is a land of forests. Forests play a key role in German literature, art, architecture and other arts. The term "sustainability" was first coined 300 years ago in German forest management. Forests have also always been a subject of scientific interest in research. The city of Freiburg boasts the Albert Ludwig University and the renowned Forest Experimental and Research Institute (FVA), making it one of the main centres of German forestry research. Surrounded by the scenery of the Black Forest, the setting for many German tales and legends, the Anniversary Congress in Freiburg will doubtless be an unforgettable experience for all delegates.

But there is another reason why Freiburg is such an outstanding congress location: its close proximity to many European partner countries. I am therefore delighted that this IUFRO Congress also underlines the long-standing and excellent cooperation in international forestry research. Research partners from Switzerland, Austria and the French region of Lorraine, along with other parts of Germany such as Bavaria, have worked together with the Forest Experimental and Research Institute in Freiburg to organise this important event and the many excursions and activities taking place before the congress.

In Germany, we live and work with forests. Our forests are consequently recreational areas and place of economic activity as well as natural habitats. Our forest policy picks up on the multi-functional nature of our forests and the different goals that are pursued, analyses potential conflicts of interests and supports the development of possible solutions. In light of this, the research community is an extremely important partner for our forest policy. My ministry therefore supports forest-related research projects at both domestic and European level, as there is a great need for research in many areas, given the multitude of pressing global and local concerns relating to forests. The IUFRO congress will unquestionably play a role in finding answers to these urgent questions, from adapting forests to climate change and identifying the interrelations and effects of sustainable forest management and nature conservation to promoting the efficient use of resources. I look forward to the results of the Anniversary Congress!

Best wishes,

Christian Schmidt
Member of the German Bundestag
Federal Minister of Food and Agriculture



Peter Hauk

Dear Guests,

I am pleased that you will come from all over the world to attend the congress celebrating the 125th Anniversary of the International Union of Forest Research Organizations (IUFRO) in Freiburg – at the foot of the Black Forest.

The Black Forest is better known than any other forest in Germany. Regional products like the Black Forest cake, Black Forest Kirschwasser and cuckoo clocks are famous and popular around the world. The Black Forest offers myths and modernity, nature and culture, and recreation and enjoyment alike. The people who live here have formed the Black Forest and, in turn, the Black Forest with its many isolated valleys has formed the people. Even today the Black Forest provides many jobs in forestry and tourism. Simultaneously, the Black Forest affords an important natural habitat for rare plant and animal species through two large conservation areas; the Black Forest National Park and the Black Forest Biosphere Reserve.

With the Faculty of Environment and Natural Resources at the University of Freiburg and the Forest Research Institute Baden-Württemberg – a founding member of IUFRO – the region represents an important center of forest research with an influence extending well beyond the Black Forest. The uniqueness of the center lies in the close link between scientific research and the practical application of the results. Current research focusses on climate change, sustainability and species protection as well as the interconnection between forestry, tourism and society. In the Tri-Nation Region of Germany, France and Switzerland, the forest research institutes in Freiburg, Nancy and Zurich form a Central European network of forest research – these proven partners are also organizing the IUFRO Congress in close cooperation.

I wish you a successful scientific congress in Freiburg and memorable discoveries the Black Forest.

Peter Hauk
Minister for Rural Affairs and Consumer Protection
Baden-Württemberg, Stuttgart (Germany)



Max Reger

Dear Reader,

As head of the public forestry administration of Baden-Württemberg ForstBW, I am very happy to welcome you in Freiburg for the IUFRO 125th Anniversary Congress 2017!

Forests and forestry are of major importance for Baden-Württemberg in economic, social and ecological dimensions. Almost 40 percent of this federal state is covered by forests, with the Black Forest being one of the world-wide best known landmarks of Germany.

ForstBW is committed to a multifunctional and sustainable management of the public forests. The demands of the society are the keystone of our work: public forests provide timber, serve as habitat for game as well as rare animal and plant species, invite for human recreation and are necessary for clean air, a well-balanced climate and fresh water. In order to treat all forest functions coequal, we are obliged to connect between forest owners, society and politics and develop appropriate solutions. Our guiding principle is to preserve the forest functions for current and future generations.

To sustain these core competences, ForstBW relies on continuous professional development and substantiated scientific insights and feedback.

The Forest Research Institute of Baden-Württemberg (FVA) is a fundamental consultant for us as well as for many private forest owners in Baden-Württemberg and far beyond. The original forest research institutes of Baden and Württemberg were founded during the 1870's and thus we can draw back on the knowledge of many generations of forest scientists. Through this mixture of long-term knowledge and the ongoing dedicated work of its researchers today the FVA is one essential pillar of our decision making.

However, in our highly globalized world, local and global actions and conditions are mired more closely than ever before. The uncertainties arising from global change pose new challenges to a sustainable forest management on the spot. Thus, we also highly value the productive national and international cooperation with other research organizations in Germany, the NFZ partners in the tri-nation region and of course the IUFRO network.

During this 125th Anniversary Congress many pressing topics for forests and forest management will be addressed. We are looking forward to gain new insights from an international perspective and take these impulses as a basis for our local actions. Therefore, ForstBW is proud to be a key partner for the organization of this congress!

I wish you all a pleasant and inspiring time during the congress and warmly invite you to enjoy Freiburg and the Black Forest!

Max Reger
State Forest President and
Managing Director of ForstBW

WELCOME MESSAGES



Left to right: Konstantin von Teuffel, Andreas Rigling, Erwin Dreyer

Welcome to the IUFRO 125th Anniversary Congress 2017 in Freiburg, Germany Interconnecting Forests, Science and People!

The resonance within the scientific community has been overwhelming. We are delighted to welcome about 2.100 participants from all over the world here in Freiburg. Your presence and your contributions will make this event an excellent platform to establish and strengthen international ties, to exchange the latest insights and achievements in forest science, as well as to communicate the relevance and timeliness of our joint research out to politics, stakeholders and the public.

As representatives of the NFZ.forestnet, the local host consortium of the congress, we proudly introduce our tri-national forest science network. It comprises seven forest related research institutions in Nancy/France (INRA, AgroParistech, Univ. Lorraine), Freiburg/Germany (FVA, Univ. of Freiburg) and Zurich/Switzerland (WSL, ETH). You are invited to read more about the network and its members on the following pages.

The challenges to organize such an international event are manifold but also inspiring and a valuable investment. We are grateful to our Key Partners for their financial and organizational support. We would like to thank all our Sponsors and Donors and every individual involved in the organization for their indispensable, much appreciated contributions and for your individual commitment to make this congress happen.

Nowadays, providing and conveying scientific evidence is more important than ever to responsibly shape our forests and our future. Exactly on this behalf, the international and vibrant network of the International Union of Forest Research Organizations can unfold and display its strength – and truly be the means for Interconnecting Forests, Science and People.

In the upcoming five days, you are part of a diverse scientific program with a broad range of research fields. Please enjoy the varied choice of seminars, an artful forest history exhibition, scientific and cultural excursions near and around Freiburg, as well as back to back workshops and summer schools offered by our institutional partners in Germany, France, and Switzerland.

Last not least you are happily invited to celebrate 125th Anniversary of scientific networking in the IUFRO with us in various festive moments and during our special Anniversary Gala Evening!

In the name of the NFZ.forestnet, sincerely yours

Prof. Konstantin von Teuffel
Director of FVA
Freiburg, Germany

Prof. Dr. Andreas Rigling
Board of Directors of WSL
Birmensdorf, Switzerland

Dr. Erwin Dreyer
President of INRA GrandEst-Nancy Centre
Nancy, France



Dieter Salomon

Welcome from the Lord Mayor of Freiburg

to the Anniversary Congress of the International Union of Forest Research Organizations with the motto Interconnecting Forests, Science and People.

On behalf of the City of Freiburg and its citizens, I extend a very warm welcome to all visiting Freiburg to attend this International Union of Forest Research Organizations (IUFRO) Anniversary Congress at which the most important forest research network in the world celebrates 125 years since its foundation. On this special occasion we, in Freiburg, are delighted to host this prestigious meeting of more than 2 000 scientists from around the world.

You are visiting a city which is strongly characterized by the forests surrounding it. With its forested foothills, the Black Forest reaches virtually into the center of the city. Consequently, it influences the outlook on life of people living in Freiburg: indeed, one cannot imagine life in the city without the forests.

Today, the City of Freiburg owns more than 5000 ha of forest, making it one of the largest forest owners in Germany. A large proportion of these forests has been under its ownership since the foundation of Freiburg in the high middle ages.

This year, the city's Forest Department will turn 180 years old. For the municipality, the income from the forest has not been the focus of forest management. Rather management in keeping with the natural forest environment predominates, in which the economic, social and ecological factors are taken into account. This is because the forests, with their near-natural ecosystems and their importance in the face of climate change, play a major role in the sustainable city development we strive for.

The Congress is sure to address exactly the critical questions of our time, which we associate with the concept of sustainability – a concept originating from the forest sciences. In this respect, responsible policies on environment and climate change are simultaneously policies based on the principles of sustainability, whether they apply to the treatment of natural resources, the use of regenerative, and hence sustainable energy sources, or to social welfare policies.

In this respect, Freiburg offers much innovation. Here, the Faculty of Environment and Natural Resources at the University and the Forest Research Institute Baden-Württemberg (FVA) provide important impulses. They have also contributed much to Freiburg's profile as a sustainable city. I thank them together with the Nancy-Freiburg-Zurich Forest Research Network, NFZ.forestnet, for organizing this IUFRO 125th Anniversary Congress. I wish all participants a rewarding congress with inspiring discussions and constructive outcomes, and, finally, an enjoyable stay in the city and the surrounding forests.

Dr. Dieter Salomon
Lord Mayor

Dr. Dieter Salomon
Lord Mayor
Freiburg im Breisgau



International Union
of Forest Research Organizations
www.iufro.org

Forests and trees play a vital role in sustaining life on earth.

Their conservation and sustainable management are closely linked with global challenges such as climate change, food security and environmental protection. Quality research on forests and forest products delivers the scientific knowledge that is needed to address these and other challenges and provide a sound basis for political decisions that concern forests and trees.



IUFRO is the world's network of forest science.

Since its establishment in 1892, IUFRO has been committed to ensuring quality research through global cooperation and to disseminating scientific knowledge to stakeholders and decision makers. Currently, IUFRO unites over 15,000 scientists in more than 120 countries who are working together assiduously towards solving forest-related problems at all levels from local to global. Research centers, universities, NGOs, and decision making authorities are counted among IUFRO's roughly 650 member organizations.



VISION

The leading global network for forest-related research that serves the needs of all forest scientists, research organizations and decision makers.

MISSION

IUFRO advances research excellence and knowledge sharing, and fosters development of science-based solutions to forest-related challenges for the benefit of forests and people worldwide.

CORE VALUES

The following core values and associated behaviors will guide the work of IUFRO's Officeholders:
Service – Independence – Integrity
– Networking – Excellence

The IUFRO network offers many entry points.

As a scientist, you can join any of the 9 scientific Divisions, over 50 Research Groups, more than 180 Working Parties, and 10 interdisciplinary Task Forces. Around 700 voluntary officeholders currently coordinate these units. Furthermore, IUFRO offers Special Programmes, Projects and IUFRO-led Initiatives to support more informed decision-making and foster research capacity. 70 meetings are held on average every year and IUFRO World Congresses take place every 5 years.



Interconnecting Forests, Science and People

With the Strategy 2015-2019, IUFRO addresses five research themes that aim to guide the science collaboration within IUFRO's global network. These themes are:

- **Forests for People**
- **Forests and Climate Change**
- **Forests and Forest-based Products for a Greener Future**
- **Biodiversity, Ecosystem Services and Biological Invasions**
- **Forest, Soil and Water Interactions**

In addition, IUFRO's institutional goals reflect the organization's commitment to research excellence and interdisciplinary cooperation, to better visibility of IUFRO's knowledge products and network cooperation, and to science-based solutions and options for impact on policy processes.



IUFRO 125th Anniversary Congress – Interconnecting Forests, Science and People

Forests and trees play a vital role in sustaining life on earth. For 125 years the International Union of Forest Research Organizations (IUFRO) has been committed to promoting international cooperation in research embracing the full range of topics related to forests and trees.

In this remarkable time span, IUFRO has grown into a network with much potential to make a significant contribution towards attaining the social, economic and environmental goals outlined in the 2030 United Nations Agenda for Sustainable Development as well as other international agreements. The current IUFRO Strategy addresses issues such as food, drinking water, affordable energy, but also incomes and jobs, and provides pathways towards achieving sustainable growth and greater resilience to climate change and natural hazards.

This essential capacity makes IUFRO member institutions and individual researchers proud to be part of an organisation which develops and shares the knowledge needed to provide science-based solutions to current and future global challenges for the benefit of forests and people.

Consequently, the 125th Anniversary Congress is a unique opportunity to **CELEBRATE** past achievements, **HIGHLIGHT** IUFRO’s vital role in providing a sound basis for political decisions at all levels, **STRENGTHEN** collaboration with our stakeholders, and **BUILD BRIDGES** to other sectors such as water, agriculture and energy.

This Congress aims to provide a platform for the exchange of scientific knowledge across the full range of forest and forest-related topics and scientific disciplines. A wide selection of **scientific sessions** will highlight innovative research and interdisciplinary research approaches of relevance to forests, and focus on the transfer of scientific knowledge on critical global forest-related challenges to national and international political agendas.

In addition, a series of **Science in Dialogue sessions** is planned for this Congress with the aim of bringing scientists from forest-related and other relevant disciplines from all parts of the world together with national and international policy and decision makers and important stakeholders.

International Union of Forest Research Organizations
XXV WORLD CONGRESS | **SEP 29 - OCT 5**
2019
 Curitiba, PR



iufro2019
 Curitiba • Brazil

Plan ahead
 29 September
 to 5 October 2019

We look forward to
 welcoming you in Curitiba

Contact:
info@iufro2019.com
www.iufro2019.com

International Host:



Key Partners:



Brazilian Hosts:



MINISTRY OF TOURISM | MINISTRY OF AGRICULTURE, LIVESTOCK AND FOOD SUPPLY | MINISTRY OF THE ENVIRONMENT



NFZ.forestnet welcomes you at the IUFRO 125th Anniversary Congress

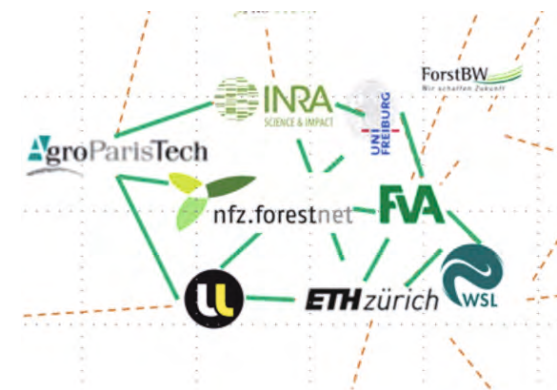


We, the local hosts of the congress, welcome you to the Tri-Nation Region - a hot spot for forest science and research in Europe and the World. We hope to enchant you with our regional high diversity of forest types and forest stands - from flood plains to mountains and Mediterranean to Scandinavian climate zones - as well as with the cultural diversity of three Nations right in the heart of Europe. The high density of forest scientists and academic practitioners in the region provides a broad spectrum of expertise and hopefully inspires new forms of co-operation.

Our forest science network was founded in the Tri-Nation Region in 2006. It comprises seven forest related research institutions in Nancy (France), Freiburg (Germany) and Zurich (Switzerland). Since then, more than 700 scientists have been collaborating within and beyond NFZ.forestnet in international forest, forest ecosystem and forest-related products research projects as well as various summer schools and educational exchanges.

The main aim of the NFZ.forestnet is to strengthen and broaden on-going cooperation and intercultural exchanges of IUFRO Members – especially but not only in the Tri-Nation Region - for mutual benefit. We strive to actively spark and enhance multi- and interdisciplinary research within forestry research and with neighboring disciplines and sectors. Hosting the IUFRO 125 Anniversary Congress in 2017 is the ultimate challenge as much as pleasure to this ambition.

We are looking forward to hosting you in Freiburg and the Tri-nation region. We hope you will enjoy the charming lifestyle and hospitality of our host city Freiburg, the capital of the world famous Black Forest as well as experience the regional diversity through our colorful array of excursions. Let's use this opportunity to expand our network!



- FVA** Forest Research Institute Baden-Württemberg (FVA), Freiburg, Germany
- UNI FREIBURG** Faculty of Environment and Natural Resources, University of Freiburg, Freiburg, Germany
- WSL** Swiss Federal Institute for Forest, Snow and Landscape Research (WSL), Zurich, Switzerland
- ETH** Swiss Federal Institute of Technology (ETH), Zurich, Switzerland
- INRA** Institut national de la recherche agronomique (Inra), France
- AgroParisTech** Paris Institute of Technology for Life, Food and Environmental Sciences
- UNIVERSITÉ DE LORRAINE** Université de Lorraine, France

LOCAL HOST



Your local host at the congress is the NFZ.forestnet, a forest science network founded in this region – the Tri-Nation Region – in 2006. Seven research institutions below in Nancy (France), Freiburg (Germany) and Zurich (Switzerland). Since then about 700 scientists have been collaborating in NFZ.forestnet in forest, forest ecosystem, and forest-related products research, and in education projects.



Forest Research Institute Baden-Württemberg (FVA), Freiburg, Germany



Forest Research Institute Baden-Württemberg

FVA is one of the founding members of IUFRO in 1892 and partner within the NFZ.forestnet. It is engaged in international research projects as well as educational programs and strives to extend its international partnerships.

Currently around 270 persons are employed by the FVA. Furthermore, the FVA is a family-friendly institution with its own childcare centre, and a member of the national network "Erfolgsfaktor Familie" ("Success factor family").



Faculty of Environment and Natural Resources, University of Freiburg, Freiburg, Germany



Swiss Federal Institute for Forest, Snow and Landscape Research (WSL), Zurich, Switzerland



Eidgenössische Technische Hochschule Zürich
Swiss Federal Institute of Technology Zurich

Swiss Federal Institute of Technology (ETH), Zurich, Switzerland



Institut national de la recherche agronomique (Inra), France



Paris Institute of Technology for Life, Food and Environmental Sciences (AgroParisTech), France



Université de Lorraine, France





Albert-Ludwigs-Universität Freiburg (ALU)

With more than 25,000 students matriculated in 196 study programs at 11 faculties, the Albert-Ludwigs-University of Freiburg (ALU) is a full University that covers the whole range of scientific fields from the humanities, natural and engineering to social sciences.



The University of Freiburg possesses a comprehensive network of partnerships at the local, regional, and international level. Within the context of three international networks, the university and its faculties maintain partnerships with universities in over 30 countries – from Trinidad and Tobago to the USA. Thanks to the European Union's Erasmus Programme, the University of Freiburg also enjoys close relations with all European countries. Almost twenty percent of the students in Freiburg hail from abroad.

The Faculty of Environment and Natural Resources includes more than 30 chairs reaching from forestry over hydrology, geography and geology to meteorology. It is engaged in teaching and research in both, natural and social sciences.

The Faculty focuses on the interactions between environment and society, in particular under the aspect of Global Change. Interdisciplinary approaches including natural, social and technical sciences are employed to research and teach the sustainable use and conservation of natural resources. Particular emphasis is placed on the transfer of research results into the different areas of society.

Central research fields covered by the Faculty are sustainable use of natural resources, protection of livelihoods (water, soil, air, biodiversity), adaptation to Global Change and natural hazards and risks.



WSL: Research for People and the Environment

The Swiss Federal Institute for Forest, Snow and Landscape Research WSL is concerned with the use, development and protection of natural and urban spaces.

Our research focuses on solving problems to do with the responsible use of landscapes and forests and a prudent approach to natural hazards. WSL is an active player in these areas, with a strong research-extension interface and the aim to provide groundwork for sustainable environmental policies in Switzerland.

WSL maintains more than 6000 experimental and research plots, including large experimental platforms and monitoring networks for studying the impact of environmental changes on forests, landscape, biodiversity, natural hazards, snow and ice.

Altogether 700 staff members and supervised students work at WSL headquarters in Birmensdorf, near Zurich, as well as in Davos, Cadenazzo, Lausanne and Sion.

www.wsl.ch



ETH Zurich was founded in 1855 to generate the knowledge needed to develop the national technical infrastructure in the era of industrialization. The four founding departments were architecture, civil engineering, mechanical engineering, and forest engineering.

To this day, ETH is the only federally operated university in Switzerland besides its sister Ecole Polytechnique Fédérale in Lausanne, and the only university in the country that offers a university-level degree in Forest and Landscape Science.

With the implementation of the BSc/MSc system in 2005, the curriculum in Forest Engineering was merged with the curriculum in Environmental Sciences. Since then, students can choose a specialization on “Forests and Landscapes” in the BSc, and a Major “Forest and Landscape Management” in the MSc program. Both programs deal with processes from the cell to the landscape, convey a profound scientific basis and the skills that are required for both a scientific and a practical career.

Forest-related professorships and research groups at ETH

 Ecosystem Management Prof. Dr. J. Ghazoul www.ecology.ethz.ch	 Forest Ecology Prof. Dr. H. Bugmann www.fe.ethz.ch
 Forest Engineering Prof. Dr. H. R. Heinemann www.lue.ethz.ch	 Ecology and Evolution in Forest Ecosystems Prof. em. Dr. O. Holdenrieder www.forestpathology.ethz.ch
 Sylviculture and Forest Management Dr. P. Rotach www.wm.ethz.ch	 Landscape Ecology Prof. Dr. L. Pellissier
 Forest Management and Development Dr. C. Garcia www.fordev.ethz.ch	 Natural Resource Policy Dr. E. Lieberherr www.narp.ethz.ch
 Wood Material Science Prof. Dr. I. Burgert www.ifb.ethz.ch	



L'INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE

INRA is one of the largest agricultural research organisations in the world. It is active in a wide variety of fields to address issues related to nutrition, agriculture and the environment, which are now framed in the wider context of the bioeconomy and food systems.

INRA GRAND EST - NANCY

brings together excellence-driven teams focused on forest and woods sciences and on agricultural issues. Our main topics in forest and wood sciences include the dynamics of forest management, the assessment of available resources and services provided by forest ecosystems and the valorisation of wood as a biological material of prime importance. Inra cooperate stightly with Université de Lorraine and AgroParisTech.

FOCUS

ARBRE

is a laboratory of excellence awarded support (2012-2019) French initiative « investments for the future ». It aims to explore and analyse the mechanisms behind the evolution of forest ecosystem in the context of global change.

ANAEE

is an Environmental research infrastructure that aims to overcome the current fragmentation of ecosystem research in Europe by setting up a coordinated ensemble of experimental fora (ExpeER, AnaEE-S).

ICOS-RI

is a pan-European research infrastructure which provides harmonized and high precision scientific data on carbon cycle and greenhouse gas budget and perturbations.

-  <http://www.nancy.inra.fr/>
-  <https://www.facebook.com/Inra.Nancy/>
-  https://twitter.com/inra_nancy
-  <http://mycor.nancy.inra.fr/ARBRE/>



Paris Institute of technology for life, food and environmental sciences
 AgroParisTech is the European Technology University which trains engineers and managers in the field of life, food and environmental sciences
 AgroParisTech is present on 8 campuses in France and has:

- 5 research and teaching departments,
- 24 mixed research units,
- 1 experimental farm,
- 2000 students, including 200 PhDs.
- 230 professors-researchers, 450 affiliated researchers,

AgroParisTech is a founding members of the Université Paris-Saclay and member of Agreenium.

AgroParisTech campus at Nancy : Degrees :

Being the heir of «Ecole Forestière» (1825) and ENGREF, AgroParisTech in its Nancy downtown campus develops forest research activities with Inra, and offers comprehensive training at Master and PhD levels in forest management, forest ecology, economics and global adaptation, forest resources and forest-wood chain, nature management, urban forestry, tree biology. Some degrees are co- awarded with Université de Lorraine.

«Diplôme d'ingénieur» AgroParisTech : 2 years training in forestry, national highly selective recruitment, apprenticeship training is possible, several Erasmus and international agreements for exchange of students.

Master FAGE (Forest Agronomy and Ecosystem Management, together with Université de Lorraine) with one major taught in English «Forests and their Environment»

Doctorate AgroParisTech in LABEX ARBRE labs
 Mastère spécialisé® Forêt Nature Société (dual skills in forest and environmental policies and economics).

The livinglab «Forêt campus» bases on the wide network of our Alumni and our student task-force. It aims at developing innovation processes from research co-created with end users (forest managers, local community projects, consultancy firms). «Forêt campus» organizes project teams of teachers, researchers, professionnals, stake holders, and students and support learning by doing and initiative of students

SILVAE is a web portal which gives access to French geographic data about forest vegetation and trees, and environmental factors that explain their ecology.

<http://silvae.agroparistech.fr/home/>

<http://www.agroparistech.fr/Presentation-of-AgroParisTech.html>

FOREST AND WOOD SCIENCES AT UNIVERSITÉ DE LORRAINE

Université de Lorraine (Nancy, Metz, and different cities in Lorraine), a large University devoted to global engineering:

- 60 000 students
- 43 training and learning components in 11 cities of Lorraine.
- 1 790 PhD students
- 8 doctoral schools

Université de Lorraine provides training in Wood Science and Technology (ENSTIB, Epinal), in Agronomy and Food Sciences (ENSAIA, Nancy), in Forest and Ecosystem Sciences (Master FAGE) and in Forest and Wood Sciences at the Doctoral Schools (SIRENa, SJPEG).

Université de Lorraine develops strong research groups in Forest and Wood Sciences, mainly on cooperation with Inra, in its Department for Agronomy, Agrofood and Forests like the mixed research groups DynAMIC, EEF, IAM, LERMaB... devoted to Biology, Ecology and Material sciences for forest ecosystems and wood material.

Université de Lorraine is an important player in the field of forest and wood sciences in France.

Université de Lorraine, Inra, AgroParisTech and other partners were awarded the I-SITE "Lorraine Université d'Excellence" during 2016. LUE is among others devoted to contribute to the sustainable management of natural resources including forests and agricultural systems. They run together the Laboratoire d'Excellence "ARBRE" (Advanced Research in Tree Biology and Forest Ecosystems) since 2012.



ARBRE :
mycor.nancy.inra.fr/ARBRE/

LUE :
lue.univ-lorraine.fr

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Baden-Württemberg (MLR), Stuttgart, Germany

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Prof. Lidija Zadnik-Stirn (IUFRO D4 Deputy Coordinator)

University of Ljubljana, Slovenia



Andrew Liebhold

Dear Participants,

As Chair of the Congress Scientific Committee, I would like to express my gratitude for your participation in this 125th Anniversary Congress. This will be a unique event and I am excited and honored to be part of it. How fitting to mark this historical anniversary by bringing together a scientific program that focuses on an array of fascinating scientific problems facing forest researchers around the world.

I am particularly grateful for the organizers of the scientific sessions. These volunteers did excellent work in focusing the subject matter of the Congress and this resulted in over 95% of presentations being part of 160 organized scientific sessions that address a wide variety of topics, representing the far reaches of the IUFRO subject matter. These subjects include not only traditional topics related to classic forest research, but also cutting edge topics addressing the applications of new technologies, biodiversity management challenges, climate change mitigation, bioeconomy, invasive species and tropical ecology. The program is particularly rich in areas that focus on social aspects of forests, clearly reflecting the growing importance of humans in the consideration of forests and their management.

Finally, I would like to thank the members of the Congress Scientific Committee, my colleagues at the Forest Research Institute Baden-Württemberg (FVA) and the workers at Intercongress Freiburg for their exceptional work in pulling together what I think is an amazing Congress program.

Sincerely,

Dr. Andrew M. Liebhold
Chair, Congress Scientific Committee
US Forest Service Northern Research Station, USA

Categories and Topics

- | | |
|--|--|
| <ul style="list-style-type: none"> Theme 1: Forests for People Theme 2: Forests and Climate Change Theme 3: Forests and Forest-Based Products for a Greener Future Theme 4: Biodiversity, Ecosystem Services and Biological Invasions Theme 5: Forests, Soil and Water Interactions | <ul style="list-style-type: none"> All Division 3 (Forest Operations Engineering and Management) All Division 4 (Forest Assessment, Modelling and Management) All Division 6 (Social Aspects of Forests and Forestry) All Division 7 (Forest Health) Meeting All Division 9 (Forest Policy and Economics) |
| <ul style="list-style-type: none"> Keynote Plenary Sessions Science in Dialogue Sessions Sub-plenary Sessions | <ul style="list-style-type: none"> Poster Exhibition Side Events Special Sessions |

LIVE-STREAM (further information on page 268)

Science in Dialogue Sessions

“Challenges of sustainable development: implications for forests and forest science”

Forests are critical for achieving the universal Sustainable Development Goals (SDGs) adopted by the United Nations (UN) in 2015. Efforts to attain the 17 SDGs can lead to synergies among the goals, but can also lead to trade-offs between them. By connecting thousands of scientists in 126 countries, IUFRO aims to provide the scientific basis required for effectively harnessing the potential of forests to contribute to the SDGs.

In a series of “Science in Dialogue” sessions, Congress participants will have the opportunity to discuss with leading representatives from all different groups of society the following guiding questions:

- **What are the biggest concerns and most pressing challenges related to the SDGs and forests?**
- **Are there synergies and trade-offs in implementing the SDGs from a forestry perspective?**
- **What are the most important knowledge gaps and information requirements by policy makers, business and industry, and civil society groups?**
- **Is there a mismatch between the knowledge delivered by education and the expertise and skills needed?**
- **How can IUFRO support policy makers, business and industry, and civil society groups more effectively in addressing the forest-related SDGs? And which forms of collaborative action could be taken?**

The Dialogue will consist of the following sessions:

- Science Meets Policy, Tuesday, 19 September**
- Science Meets Business, Tuesday, 19 September**
- Science Meets Stakeholders, Tuesday, 19 September**
- Science Meets Science, Wednesday, 20 September**

Please find details in the daily highlight overview.

KONZERTHAUS				
	Rolf Böhme Saal	K1	K2-4	K5-7
8:00	05 D7 - Opening Session	16a T4 - Joint management of large herbivores and forests for resilient ecosystems	61a D4 - Decision Support Approaches in Adaptive Forest Management	130 D4 - Contributions of Forest Mensuration and Modeling over 125 years
8:30				
9:00				
9:30				
10:00	Coffee Break (Konzerthaus & University KG I)			
10:30	179 D9 - Forest policy and governance: research at multiple scales	16b T4 - Joint management of large herbivores and forests for resilient ecosystems	61b D4 - Decision Support Approaches in Adaptive Forest Management	102 T1 - Bringing carbon to small-scale forest owners - role of buy-in mechanisms for bridging scales and facilitating access to carbon markets
11:00				
11:30				
12:00	Lunch break (Mensa) and visit of the Poster Exhibition (University, KG II, HS2121)			
13:30	198 D7 - Forest biodiversity and resistance to natural disturbances	119 D4 - Quantifying disturbance effects and post-disturbance dynamics with repeatedly measured plots	56 D7 - Modern approaches in evaluating ozone impacts on forests	79 D4 - Decision support models (DSM) for optimal forest management (FM) with a glance to the past and a view to the future
14:00				
14:30				
15:00				
15:30	Coffee Break (Konzerthaus & University KG I)			
16:00	Coffee Break (Konzerthaus & University KG I)			
16:30	59 D7 - Responses to the increasing threat of insect pests to sustainable plantation forestry	67 D4 - Managerial Economics and Accounting: Where We have Been & Where We Can Go	169 D3 - New comminution technologies and logistics to improve the quality of forest energy feedstock	46 D4 - European Climate Smart Forestry
17:00				
17:30				
18:00				
18:30				
19:00				
19:30				
20:00				
20:30				
21:00				
21:30				

KONZERTHAUS		NOVOTEL							
K8	K9	Room "Basel + Mülhausen"	Room "Baden-Baden"	Room "Colmar"					
14 D4 - Strategies and challenges for risk resilient forest management	112a D4 - Climate change adaptation in forest management: from applied science to implementation	18a T5 - Forest floor matters - The pivotal role of a forest compartment in danger of extinction	11a T4 - Progress in tropical forest management: Assuring sustainability, avoiding degradation and assisting restoration						
					Coffee Break (Konzerthaus & University KG I)				
					21 T2 - Dendrochemistry - a tool to assess changes in ecosystem nutrition and forest growth.	112b D4 - Climate change adaptation in forest management: from applied science to implementation	18b T5 - Forest floor matters - The pivotal role of a forest compartment in danger of extinction	11b T4 - Progress in tropical forest management: Assuring sustainability, avoiding degradation and assisting restoration	
129 D4 - Advances in multi-scale monitoring of forest biodiversity	65 D9 - Multifunctional tropical forest landscapes: finding solutions in science and practice	176 T1 - Agroforestry - the future of land use management?	101 D4 - 125 Years of Forest Inventories - Past, Present and Future						
					Coffee Break (Konzerthaus & University KG I)				
					1 D4 - Advances in the use of lidar data for forest carbon accounting	154 D3 - Sustainable and Constructive Strategy of Ergonomic Research in Forestry	42 T3 - Open Session	109 T4 - Promoting forest biodiversity through structural complexity? New advances in the assessment and restoration of habitat structures in forests	

**08:00 – 10:00 Rolf Böhme Saal (Konzerthaus)
All Division 7 (Forest Health) Meeting**

- 05 D7 - Opening Session**
Predicting forest insect response to changing climate: Complexities and considerations
- Organizer Brockerhoff E. (New Zealand)
- 4200 Opening Remarks
Brockerhoff E. (New Zealand)
- 4201 Predicting forest insect response to changing climate: Complexities and considerations
Bentz B. (United States of America)
- 4202 Pathogens on the move: a 100-year global experiment with planted eucalypts
Burgess T. (Australia)
- 4203 Closing Remarks
Brockerhoff E. (New Zealand)

**08:00 – 10:00 K 1 (Konzerthaus)
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions**

- 16a T4 - Joint management of large herbivores and forests for resilient ecosystems**
- Organizer Endress B. (United States of America)
- Chairs Akashi N. (Japan)
- 1534 Interactions between ungulate herbivores and forest management and the search for resilient forests in western North America
Endress B. (United States of America)
- 1891 Reindeer hinder restoration benefits in boreal forests
Tarvainen O. (Finland)
- 564 Impact of ungulates on regeneration in Switzerland depends on forest type
Kupferschmid A. (Switzerland)
- 2220 Interactions between ungulates, forests and supplementary feeding: does one bite of beet result in one bite less in the forest?
Felton A. (Sweden)
- 358 Evaluation of the impact of sika deer on natural forests using a simple check list
Akashi N. (Japan)

**08:00 – 10:00 K 2-4 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

- 61a D4 - Decision Support Approaches in Adaptive Forest Management**
- Organizer Kašpar J. (Czech Republic)
- Chairs Vacik H. (Austria), Marusak R. (Czech Republic)
- 1018 Cluster creating for harvest scheduling ARM for small-scale spatial limited forest management
Kašpar J. (Czech Republic)
- 2863 Creating dynamic treatment units by spatial optimization
Öhman K. (Sweden)

- 1042 Dynamic forest planning model for private forest owners using publicly available data sources in Finland
Mäkinen A. (Finland)
- 2376 Decision on rotation period of Norway spruce in the context of climate change adaptation: Implications for Management planning in the Czech Republic
Marusak R. (Czech Republic)
- 3803 Decision support and knowledge transfer for improved understanding about management of protected areas across borders in Europe
Vacik H. (Austria)
- 2165 Decision support in conflicting forest utilization: Market impact analysis of forest management and wood supply scenarios on forest product markets
Schier F. (Germany)

**08:00 – 10:00 K 5-7 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

- 130 D4 - Contributions of Forest Mensuration and Modeling over 125 years**
- Organizer Hailেমariam T. (United States of America)
- 2292 Reflections on the contributions of Bertil Matern
Gregoire T. (United States of America)
- 1461 Long-term expansion in the growing stock of the French forests : analysis and modelling
Denardou-Tisserand A. (France)
- 637 Forest sampling viewed in the context of stereology and Monte Carlo integration
Lynch T. (United States of America)
- 2928 Models and their role in assessing the carbon dynamics of forests
Hasenauer H. (Austria)
- 3491 Implementing different thinning types and intensities in individual tree models
Tomé M. (Portugal)
- 2401 Keep it simple: - the history of stereological measurements in forest inventory
Ståhl G. (Sweden)
- 3270 The changing scope of national forest inventories - challenges for research and education
Kleinn C. (Germany)

**08:00 – 10:00 K9 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

- 112a D4 - Climate change adaptation in forest management: from applied science to implementation**
- Organizer Brang P. (Switzerland)
- Chairs Lexer M. (Austria), Peyron J. (France)
- 1095 Integration of climate and ecological modeling tools for adaptive management in Asia-Pacific forests
Wang G. (Canada)
- 3988 Climate change, adaptation and management of risks to boreal forests
Peltola H. (Finland)
- 4149 Economic adaptation of silviculture and forests to climate
Peyron J. (France)

- 1963 Knowledge transfer in applied climate change adaptation research: lessons learned from regional case studies across Europe
Lexer M. (Austria)
- 3527 Mind the gap: How to bridge between scientific possibility and practical necessity in adaptive mountain forest management
Bugmann H. (Switzerland)
- 1928 Utilizing forest tree genetic diversity for adapting forest to climate change: a transnational approach
Schüler S. (Austria)
- 1748 Can the Norway spruce timber supply be reduced by silvicultural treatments?
Podrázský V. (Czech Republic)

- 1659 Phosphorus mineralization in forest floors differing in litter composition
Talkner U. (Germany)
- 2525 Leaf litter decomposition in translocation experiments across altitudinal gradients in Costa Rica and longitudinal gradients in South Korea
Park B. (South Korea (ROK))
- 1359 Interaction between forest floor and mineral soil: an approach to quantify bioturbation under different tree species
Kayser G. (Germany)
- 4025 Impact of Sessile Oak and Scots Pine on forest floor ecology of acid sandy soils in northern Saxony, Germany
Tischer A. (Germany)

**08:00 – 10:00 Room "Baden-Baden" (Novotel Freiburg)
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions**

**08:00 – 10:00 KG I - 1009 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting**

- 11a T4 - Progress in tropical forest management: Assuring sustainability, avoiding degradation and assisting restoration**
- Organizer Pietsch S. (Austria)
- Chairs Sist P. (France), Nasi R. (Indonesia)
- 2829 Timber production, logging residues, and forest recovery of Brazilian Amazon rainforest: nine case studies of different managed forests.
Numazawa C. (Brazil)
 - 1187 Methodological approaches and preliminary results of forest biomass measurements for the implementation of the REDD+ mechanisms in the COMIFAC area
Medjibe V. (Cameroon)
 - 3310 Simulation of tropical forest management in a spatially explicit global forest model
Gusti M. (Austria)
 - 3790 Implications of changes in tropical shifting cultivation intensification on future GHG emissions in the Congo Basin
Mosnier A. (Austria)
 - 2333 Sustainable woodland management and livelihood options in a charcoal producing region: an agent-based modelling approach
Kiruki H. (Netherlands)
 - 3905 The Tropical managed Forests Observatory: a research network addressing the resilience of tropical logged forests
Sist P. (France)

- 43a D9 - In the woods of transdisciplinarity: Forest science between 'research for the sector' and a new wave of 'transdisciplinarity'**
- Organizer Rhodius R. (Germany)
- Chairs Pregernig M. (Germany), Böcher M. (Germany), Winkel G. (Germany)
- 1149 Where are the Missing Co-Authors: Principles and Practices of Co-authorship in Participatory Transdisciplinary Research Journal Articles
Fortmann L. (United States of America)
 - 1263 Different ways of being transdisciplinary: forest research in the real-world laboratory "Knowledge Dialogue Northern Black Forest", Germany
Pregernig M. (Germany)
 - 2282 Transdisciplinarity in International Forestry Research: An Assessment of Four CIFOR Projects
Belcher B. (Indonesia)
 - 3856 Solving problems in forest landscapes as social-ecological systems: barriers of transdisciplinary research
Elbakidze M. (Sweden)
 - 4029 Generating better knowledge through cooperation with policy actors? Reflecting on experiences made in a "transdisciplinary" policy implementation research project
Maier C. (Germany)
 - 3800 Advanced approaches for a better understanding of scientific knowledge transfer for interconnecting forest-related policies, science and people - an introduction
Böcher M. (Germany)

**08:00 – 10:00 Room "Basel + Mühlhausen" (Novotel Freiburg)
Theme 5: Forests, Soil and Water Interactions**

**08:00 – 10:00 KG I - 1010 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting**

- 18a T5 - Forest floor matters - The pivotal role of a forest compartment in danger of extinction**
- Organizer Lang F. (Germany)
- Chairs Krüger J. (Germany)
- 2978 Forest floor dynamics in the light of the new German humus-form classification
Schack-Kirchner H. (Germany)

- 145a D9 - The Role of Forest History & Cultural Heritage in Re-constructing Nature - a landscape-level exploration of the need for, of approaches to, and case studies of, the recovery, remediation and re-c**
- Organizer Rotherham I. (United Kingdom)
- 878 An Overview of the Role of Forest History & Cultural Heritage in Re-constructing Nature at a Landscape Level
Rotherham I. (United Kingdom)

- 381 Concepts of Landscape Restoration in the History of the Alpine Region of Austria
Johann E. (Austria)
- 2293 Historical tree species composition and forest habitat continuity are important determinants for carbon stock in topsoils and subsoils in a large forest patch of north-eastern Germany
Wulf M. (Germany)
- 1493 Cultural and scientific heritage of forest history and its recent and future significance - interconnecting forest history, science and people
Ludemann T. (Germany)
- 1593 Using historic maps and citizen science to investigate the survival of old survey 'blaze' trees
Spooner P. (Australia)
- 2738 Survival of the fittest: Differentiation in livelihood resilience - Bolivian indigenous forest communities in the wake of an extreme weather event
Bauer T. (Netherlands)
- 1521 Landscape history, values of nature and their importance for forest conservation and management in the context of a discussion about The Bialowieza Forest, Poland
Bozetka B. (Poland)

**08:00 – 10:00 KG I - Aula (University Freiburg)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

- 171 D4 - Managing Risk in the Face of Uncertain Change**
Organizer Yousefpour R. (Germany)
- 3201 Optimal sequence of forest rotations under a declining discount rate: including thinning in a cross-european comparison
Price C. (United Kingdom)
- 975 The self-insurance clauses puzzle, risk vs. ambiguity: an application to forest adaptation to climate change
Brunette M. (France)
- 1292 Interactive effects of climate warming and invasive pests on European forest carbon storage
Dullinger S. (Austria)
- 1934 Robust detection of novel invasive forest pests: New approaches to deal with uncertainty and tight budgets
Yemshanov D. (Canada)
- 982 An animated introduction to tail hunting and robust decision making
Keller K. (United States of America)
- 1142 Making robust thinning decisions under deeply uncertain climate change: Applying the MORDM approach.
Radke N. (Germany)
- 3888 Assessment of the robustness and uncertainty of climate projections applied for impact analysis and adaptation support in forestry
Gálos B. (Hungary)

**08:00 – 10:00 KG I - 1199 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting**

- 34 D9 - Institutional drivers and barriers for the management of climate related hazards in the forest**
Organizer Kruse S. (Germany)
- Chairs von Detten R. (Germany)
- 1502 After the epidemic: Analyzing the policy and governance non-response to landscape-level mountain pine beetle outbreaks in the U.S. West
Abrams J. (United States of America)
- 3671 Framings of drought risks and policy options in the forest sector: a case study from Southern Germany.
Müller W. (Germany)
- 1991 Bridging Gaps in Fire Management and Dry Forest Restoration
Thompson M. (United States of America)
- 1058 The end of happy days: how Irish forest stakeholders are moving from risk denial to climatic adaptive strategies
Deuffic P. (France)
- 3313 Climate Change Adaptation Planning: Barrier to Buffering Climate Change Impacts in Nepal
Khadka C. (Czech Republic)
- 2208 Adaptation to climate change? Why business-as-usual remains the logical choice in Swedish forestry
Andersson E. (Sweden)

**08:00 – 10:00 KG I - 1015 (University Freiburg)
All Division 6 (Social Aspects of Forests and Forestry) Meeting**

- 39a D6 - Beyond Carbon: REDD+ implementation in the local level**
Organizer Damayanti E. K. (Indonesia)
- Chairs Mahmud A. (Indonesia), Berry N. (United Kingdom), Aritonang S. A. (Indonesia)
- 2101 REDD+ activities at the local level - Lessons from community managed forests in the Heart of Borneo
Damayanti E. (Indonesia)
- 1352 Beyond carbon: a look on community-based forest conservation approach at a sub-national REDD+ demonstration site in the Philippines
Veridiano R. (Germany)
- 2048 Expectation and Disappointment: the social life of expectations in REDD+ pilot projects in Tanzania
Massarella K. (United Kingdom)
- 1962 Tailormade solutions for tenure security in REDD+ and community conservation projects
van der Zon M. (Netherlands)
- 873 How to achieve effective participation of communities in the monitoring of REDD+ projects in the Democratic Republic of Congo (DRC)
Schmitt C. (Germany)
- 729 Assessing community capacity for MRV activities at pilot project level: comparison analysis from case study of Rwanda, Cameroon and DRC.
sufo kankeu R. (Cameroon)

**08:00 – 10:00 KG I - 1224 (University Freiburg)
All Division 6 (Social Aspects of Forests and Forestry) Meeting**

6 D6 - Open Session

- Organizer Sievänen T. (Finland)
- Chairs Stein T. (United States of America), Sievänen T. (Finland)
- 1568 Spatio-temporal analysis of accessibility of urban forest: An analysis on Tohoku region, Japan
Uchiyama Y. (Japan)
- 745 Managing ecosystem commons - Attitude toward environmental consideration among Swedish forest owners based on a forest owner typology.
Widmark C. (Sweden)
- 2920 The influence of agricultural concessions on local community life in peat land areas in Riau, Indonesia
Mori M. (Japan)
- 522 Vulnerability of rural communities to climate change in the Gambia: influence of methodological approaches on assessment outcomes
Fandohan A. (Benin)
- 302 Landscape Image Sketching Technique for Forest studies
Ueda H. (Japan)
- 1848 The socioeconomic impacts of large-scale tree plantations on local communities. Examining the empirical evidence.
Malkamäki A. (Finland)

**08:00 – 10:00 KG I - 1228 (University Freiburg)
All Division 3 (Forest Operations Engineering and Management) Meeting**

107 D3 - Collaborative logistics and planning in the forest sector

- Organizer Rönqvist M. (Canada)
- 4001 Routing of logging trucks in Norway
Rönqvist M. (Canada)
- 512 Balance Technical Efficiency and Harvesting Volume/Area at the Regional Forestry Timber Production
Nitami T. (Japan)
- 4166 Potentials for developing geographical barter in Norwegian wood supply
Fjeld D. (Norway)
- 1009 Collaboration through standardization
Rönqvist M. (Canada)

**08:00 – 10:00 KG II - Auditorium Maximum (University Freiburg)
Theme 2: Forests and Climate Change**

153a T2 - Genetics and Genomics for Conservation, Climate Adaptation and Sustainable Management of Forests

- Organizer Rajora O. (Canada)
- Chairs Rajora O. (Canada)
- 4219 Introduction and overview
Rajora O. (Canada)
- 1158 Dynamics of epigenetic and genetic variation within and between populations and generations in two conifers and two angiosperms
Aravanopoulos F. (Greece)
- 569 Morphometric and molecular variability among *Julans regia* populations
Geburek T. (Austria)
- 3119 Morpho-genetic differentiation of close timber *Guibourtia* species newly listed on Appendix II of CITES
Tosso F. (Belgium)
- 2833 Toward gene conservation triage: A United States national prioritization of tree species threatened by climate change
Potter K. (United States of America)
- 2389 Gene conservation of *Sorbus torminalis* L.: deep insights into genetic patterns of a rare tree species in Southern Germany
Fussi B. (Germany)
- 1137 Scots pine seed tree regeneration method may lead to formation of clusters of relatives
Kavaliauskas D. (Germany)
- 2148 The reactions of Scots pine trees from different genetic groups comprising the population to the effect of meteorology and air pollutants at different stages of their development
Augustaitis A. (Lithuania)

**10:30 – 12:00 Rolf Böhme Saal (Konzerthaus)
All Division 9 (Forest Policy and Economics) Meeting**

179 D9 - Forest policy and governance: research at multiple scales

- Organizer Giessen L. (Germany)
- 1894 Overall assessment of FLEGT and EUTR state of the art from the stakeholders' perspective
Masiero M. (Italy)
- 2394 Money for Signatures or Signatures for Money? Using Public Choice to Study Forest Policy
Zhang D. (United States of America)
- 2910 Adaptive governance, weaving Maori aspirations and livelihoods into policy and implementation, a systems approach to forest-based regeneration.
Barnard T. (New Zealand)
- 1097 Transformational change through REDD readiness in Nepal: realities amidst expectations
Bhandari N. (Nepal)
- 3300 Governance capacity of public actors in forestry: An analytical framework for facilitating social innovation
Rogelja T. (Italy)

**10:30 – 12:00 K 1 (Konzerthaus)
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions**

- 16b T4 - Joint management of large herbivores and forests for resilient ecosystems**
 Organizer Endress B. (United States of America)
 Chairs Akashi N. (Japan)
 776 Reconciling forest production and hunting in adaptive management - French case studies
Marell A. (France)
 1248 Gap creation in post-coppice woodlands may increase both resilience and resistance of plant species against ungulate herbivory: an analysis based on life-history strategy theories
Suzuki M. (Japan)
 234 Wild ungulate management for natural regeneration in Los Alcornocales Natural Park
Rodriguez Benavente J. (Spain)
 133 Native ungulates and ecosystem functioning: an integrated approach
Baltzinger C. (France)
 2065 From deer versus forests to deer and forests: an adaptive management case study from the U.S.A.
Rooney T. (United States of America)

**10:30 – 12:00 K 2-4 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

- 61b D4 - Decision Support Approaches in Adaptive Forest Management**
 Organizer Kašpar J. (Czech Republic)
 Chairs Vacik H. (Austria), Marusak R. (Czech Republic)
 3948 Simulating silvicultural alternatives with a web based forest model: SIMANFOR
Bravo F. (Spain)
 3594 Evaluating different strategies for lodgepole pine in Sweden - economy, distribution and potential spread
Lundström J. (Sweden)
 311 Deadwood management with robust optimisation
Härtl F. (Germany)
 2468 Forest restoration with a native species Paricá in Amazon: a generalizable model to support forest management
Nobre S. (Spain)
 33 Current Thought on the Use of Heuristics for Adaptive Forest Management Planning
Bettinger P. (United States of America)

**10:30 – 12:00 K 5-7 (Konzerthaus)
Theme 1: Forests for People**

- 102 T1 - Bringing carbon to small-scale forest owners - role of buy-in mechanisms for bridging scales and facilitating access to carbon markets**
 Organizer Bowditch E. (United Kingdom)
 2611 Carbonscapes - The effect of carbon sequestration driven woodland creation on management culture in Scotland
Bowditch E. (United Kingdom)
 3548 Investment in forest carbon offset: the perspective of private forest landowners in Korea
Seung-Uk S. (South Korea (ROK))
 741 REDD+ finance perspective as solution to community forestry in Congo Basin
Sufo Kankeu R. (Cameroon)
 578 Measuring non-carbon benefits of bio-carbon projects and their delivery in existing projects in Southern Africa
Chirwa P. (South Africa)
 Panel Discussion

**10:30 – 12:00 K 8 (Konzerthaus)
Theme 2: Forests and Climate Change**

- 21 T2 - Dendrochemistry - a tool to assess changes in ecosystem nutrition and forest growth.**
 Organizer Niederberger J. (Germany)
 1074 Analysis of oak tree rings using LA-ICP MS to record urban pollution from different sources in Terni (Central Italy)
Cocozza C. (Italy)
 3620 Do tree rings record changes in soil fertility? Results from a Quercus petraea fertilization trial.
Ponton S. (France)
 1735 Can the interannual variation of phosphorus (P) in tree rings be used as an indicator of P nutrition or P availability?
Niederberger J. (Germany)

**10:30 – 12:00 K9 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

- 112b D4 - Climate change adaptation in forest management: from applied science to implementation**
 Organizer Brang P. (Switzerland)
 Chairs Peyron J. (France), Lexer M. (Austria)
 1448 Regionalization of climate change adaptation - dynamic tree species selection in the German federal state of Brandenburg
Spathelf P. (Germany)
 3395 Developing site-specific species recommendations in Switzerland: A pragmatic ecogram-based approach
Brang P. (Switzerland)
 2363 Climate change adaptation in the Bavarian State Forest Enterprise: Transferring scientific knowledge into management practice
Rothe A. (Germany)
 Panel Discussion

**10:30 – 12:00 Room "Baden-Baden" (Novotel Freiburg)
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions**

- 11b T4 - Progress in tropical forest management: Assuring sustainability, avoiding degradation and assisting restoration**
- Organizer Pietsch S. (Austria)
- Chairs Sist P. (France), Nasi R. (Indonesia)
- 1228 Forest resilience to silvicultural interventions in a tropical rain forest of the Brazilian Amazon
de Avila A. (Germany)
- 4145 Evaluating Agro-successional reforestation as a strategy to improve soil fertility in Panama's cattle dominated Azuero peninsula
Bertsch A. (United States of America)
- 3341 Changes in rainforest dynamics under different management regimes
Pietsch S. (Austria)
- 2316 Diameter-Limit-Tables as a basic silvicultural tool for the sustainable management of Fijian rain forests
Mussong M. (Germany)

**10:30 – 12:00 Room "Basel + Mühlhausen" (Novotel Freiburg)
Theme 5: Forests, Soil and Water Interactions**

- 18b T5 - Forest floor matters - The pivotal role of a forest compartment in danger of extinction**
- Organizer Lang F. (Germany)
- Chairs Krüger J. (Germany)
- 3505 Increase of C/N-Ratios in Forest Soils in Germany: Analysis and discussion of possible explanations
Fleck S. (Germany)
- 973 More than we ever thought - distribution and function of lithic histosols in the Calcareous Alps
Olleck M. (Germany)
- 448 Forest floor in Southwest Germany - properties and changes within the last decades
Hartmann P. (Germany)
- 4132 Has long-term elevated N-deposition changed organic layer accumulation, microbial community, reactivity and temperature sensitivity?
Gundersen P. (Denmark)
- 740 Forest management can counteract recent forest floor degradation induced by climate warming in mountain forests of the German Alps
Prietzl J. (Germany)

**10:30 – 12:00 KG I - 1009 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting**

- 43b D9 - In the woods of transdisciplinarity: Forest science between 'research for the sector' and a new wave of 'transdisciplinarity'**
- Organizer Rhodius R. (Germany)
- Chairs Pregernig M. (Germany), Böcher M. (Germany), Winkel G. (Germany)
- 160 Applying the RIU-model of knowledge transfer in practice: Experiences from the EU-project ALTERFOR
Jürges N. (Germany)

- 2252 How do we conduct forest-related research in ways that enhance its impact on policy and practice?
Edwards D. (United Kingdom)
- 2678 An Empirical Evaluation of Knowledge Translation in Policy-Relevant Forestry Research
Davies B. (Indonesia)
- Panel Discussion

**10:30 – 12:00 KG I - 1010 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting**

- 145b D9 - The Role of Forest History & Cultural Heritage in Re-constructing Nature - a landscape-level exploration of the need for, of approaches to, and case studies of, the recovery, remediation and re-c**
- Organizer Rotherham I. (United Kingdom)
- 589 Economic valuation of the forest of life and death by direct and indirect beneficiaries for the recovery of the biocultural landscape
Camacho Mojica H. (Bolivia)
- 714 Transforming nomadic traditions to biodiversity-friendly livelihoods from the perspective of traditional forest-related knowledge: the successful story of H Village of Yunnan Province in China
Liu J. (China)
- 4116 Reconstruction of forest fire scenarios in the inner regions of the Iberian Peninsula through the geo-historical sources, 18th-20th centuries
Montiel Molina C. (Spain)
- 403 A Study on the Retention of Forest-related Traditional Knowledge - A Case of Dengcen village in Guizhou Province, Southwest China
Huang Y. (South Korea (ROK))
- 2194 Selective and cumulative rewilding
Krcmárová J. (Czech Republic)

**10:30 – 12:00 KG I - 1015 (University Freiburg)
All Division 6 (Social Aspects of Forests and Forestry) Meeting**

- 39b D6 - Beyond Carbon: REDD+ implementation in the local level**
- Organizer Plugge D. (Germany)
- Chairs Berry N. (United Kingdom), Damayanti, E.K. (Indonesia)
- 4152 Village Forest Management Agreements (ViFoMA) as a performance-based payment scheme under REDD+ in Lao PDR
Koch S. (Lao People's Democratic Republic)
- 2534 Spatial analysis of forest environmental tax as a scheme of Payment for Ecosystem Service: Suggestions to the REDD+
Kohsaka R. (Japan)
- 2535 Schemes of Benefit Sharing in alternative livelihood strategies: potential of Geographical Indications of Non Timber Forest Products
Kohsaka R. (Japan)

- 915 Shifting Cultivation and REDD+ in Laos: Can the Village Development Grants deliver on stabilisation of shifting cultivation and CO2 emission reductions?
Ramcilovic-Suominen S. (Finland)
- 3678 Are there differences between men and women's preferences for benefit sharing arrangements in REDD+ schemes?
Mwangi E. (Kenya)

**10:30 – 12:00 KG I - 1228 (University Freiburg)
All Division 3 (Forest Operations Engineering and Management) Meeting**

78 D3 - Forest Operation and Ergonomics: Challenge and Solutions.

- Organizer Gandaseca S. (Malaysia)
- Chairs Lewark S. (Germany)
- 811 Hand Planter Ergonomics: Characterizing Physically Demanding Work in the Southeastern United States
Smidt M. (United States of America)
- 3446 Studying work in tropical forests: the need for integrative research approaches
Lewark S. (Germany)
- 3114 The Effect of Slash Reinforcement of Strip Roads on Rutting, Forwarder's Fuel Consumption, Driving Speed and Whole Body Vibrations
Mohashami S. (Sweden)
- 909 A Biomechanical Analysis of Tropical Matang Mangrove Forest Operation Workers in Perak, Malaysia
Gandaseca S. (Malaysia)
- 1235 Assessment of heavy metal contamination in sediment along Sungai Sepetang, Perak
Gandaseca S. (Malaysia)

**10:30 – 12:00 KG II - Auditorium Maximum (University Freiburg)
Theme 2: Forests and Climate Change**

153b T2 - Genetics and Genomics for Conservation, Climate Adaptation and Sustainable Management of Forests

- Organizer Rajora O. (Canada)
- Chairs Aravanopoulos F. (Greece)
- 710 Understanding the Genetic Basis of Local Adaptation to Climate and Genetic Responses to Climate Change in Northern Forest Trees
Rajora O. (Canada)
- 2276 Local adaptation of Swiss stone pine (*Pinus cembra*) to the changing climate at the timberline
Rehstab C. (Switzerland)
- 4012 Detecting adaptive traits in natural alpine populations of Norway spruce (*Picea abies* [L.] Karst) along altitudinal gradient at regional scale
La Porta N. (Italy)
- 1682 Exome-wide population genetic variation underlying the climate adaption of loblolly pine, *Pinus taeda* L.
Krutovsky K. (Germany)
- 862 Genetic diversity at putatively neutral and adaptive loci in populations of silver fir from marginal and core areas of the species range
Csillery K. (Switzerland)

**10:30 – 12:00 KG I - Aula (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting**

17 D9 - Integrating grassroots participation, crowd mobilization and big data analysis in forest restoration policy assessment in the tropics

- Organizer Kraxner F. (Austria)
- Chairs Soterroni A. (Austria)
- 3755 Towards an integrated assessment for landscape approach: combining remote sensing, crowdsourcing big data and multi-objective modelling
Yowargana P. (Austria)
- 2008 Harnessing the power of volunteers to collect and validate spatial information using Geo-Wiki: Relevance to forestry
Schepaschenko D. (Austria)
- 3352 Toward a successful forest and landscape restoration in Sumatra, Indonesia: the application of Restoration Opportunities Assessment Methodology
Wicaksono S. (Indonesia)
- 1511 Effect of Harvesting Practice on Forest Stand Condition: A case from Terai Community Forest of Nepal
Baral S. (Austria)
- 3645 Forest Restoration Strategies in Brazil within the Scope of the New Forest Code
Soterroni A. (Austria)

**10:30 – 12:00 KG I - 1224 (University Freiburg)
Theme 3: Forests and Forest-Based Products for a Greener Future**

95 T3 - Forestry classic' for the future

- Organizer Skovsgaard J. (Sweden)
- Chairs Chung W. (United States of America), Saranpää P. (Finland), Barbour J. (United States of America)
- 2300 Resource efficient and cascade use of wood - a challenge for raw material research
Saranpää P. (Finland)
- 1868 Permanent research plots - new conclusions from old thinning experiments
Zachara T. (Poland)
- 242 The earliest research of tending felling established according to Junfo system in North-West Russia
Danilov D. (Russian Federation)

**12:45 – 13:45 KG I - 1139 (University Freiburg)
Side Events**

BM 8 International Society of Tropical Foresters Business Meeting

Organizer Ward S. (Puerto Rico)

**13:30 – 16:00 K 8 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

129 D4 - Advances in multi-scale monitoring of forest biodiversity

Organizer Chirici G. (Italy)

Chairs McRoberts R. (United States of America)

- 629 Assessing leaf-on and leaf-off airborne laser scanning data to derive information surrounding structural diversity in UK forests
Davison S. (United States of America)
- 647 Design-based kriging maps of forest tree species and size diversity
Corona P. (Italy)
- 1808 Lorenz curves of Tree Size and Growth Inequality: Tree Competitive Dominance and Forest Structure assessed through LiDAR and Spectral Dominance
Valbuena R. (Finland)
- 1088 European Mixed forests in Europe: towards an estimation
Barbati A. (Italy)
- 2983 Pan-European forest biodiversity monitoring through the ICP-level I network. First results from the BIOSOIL-BIODIVERSITY project
Chirici G. (Italy)
- 1084 Using the k-Nearest Neighbors technique for multivariate forest structural diversity estimation
McRoberts R. (United States of America)
- 998 Logical consistency and accuracy using single-step versus multi-step processes to monitor forest biodiversity
LeMay V. (Canada)
- 962 Estimation of stand biomass and other structural variables with LiDAR and error assessment at different sample sizes.
Valbuena R. (Finland)

**13:30 – 16:00 Rolf Böhme Saal (Konzerthaus)
All Division 7 (Forest Health) Meeting**

198 D7 - Forest biodiversity and resistance to natural disturbances

Organizer Jactel H. (France)

- 1798 Experimental effects of forest diversity on bird insectivory at the global scale
Castagneyrol B. (France)
- 442 Using seedlings with select traits to lower risk of herbivore browsing
Griess V. (Canada)

- 3013 Tree diversity: Indirect effects on insect performance
Bellone D. (Sweden)
- 4015 Role of multiple stressors on crown dieback & growth sensitivity of European beech (*Fagus sylvatica* L.) trees under recurrent droughts
Chakraborty T. (Germany)
- 3368 Does biodiversity confer resistance to biological invasions?
Jactel H. (France)
- 486 Does forest diversity reduce wind damage risk?
Gardiner B. (France)
- 371 Bottom-up and top-down effects of tree diversity on insect herbivory on pedunculate oak
Castagneyrol B. (France)
- 456 Contrasting vulnerability and resilience to drought-induced defoliation in mixed versus pure stands.
Sousa-Silva R. (Belgium)

**13:30 – 16:00 K 1 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

119 D4 - Quantifying disturbance effects and post-disturbance dynamics with repeatedly measured plots

Organizer Eskelson B. (Canada)

Chairs Fonseca T. (Portugal)

- 319 The National Forest Monitoring and Assessments (NAFORMA) process in Tanzania
Malimbwi R. (Tanzania)
- 822 Forest Monitoring and Human Impact Assessment on Forest Resources in Democratic Republic of East Timor
Fonseca T. (Portugal)
- 2061 How do long-term increases in background mortality rates and disturbance each affect forest biomass?
Vanderwel M. (Canada)
- 2062 Structure and dynamics of woody debris as indicators of forest disturbance
Merganicová K. (Slovakia)
- 1063 Evaluation of carbon loss derived from wind disturbance in planted forests in Japan using repeated measurement data of permanent plots
Mitsuda Y. (Japan)
- 4170 Vegetation Pattern 8 Years After the Eruption of Chaiten Volcano, Chile
Promis A. (Chile)
- 657 Post-disturbance regeneration dynamics in the mountain spruce forests in Central Europe - lessons from 20 years of natural development
Svoboda M. (Czech Republic)
- 1526 Post-fire fine fuel dynamics in California's forests
Eskelson B. (Canada)

**13:30 – 16:00 K 2-4 (Konzerthaus)
All Division 7 (Forest Health) Meeting**

- 56 D7 - Modern approaches in evaluating ozone impacts on forests**
Organizer Hoshika Y. (Italy)
- 615 Metabolomics and transcriptomics elucidate the mechanisms behind the detoxification and defence processes against ozone stress - insights from the birch and aspen studies
Oksanen E. (Finland)
- 1686 The new generation Free Air Controlled Exposure (FACE) system for exposing communities of deciduous tree species to O3 in Japan
Agathokleous E. (Japan)
- 1237 Ontogenetic changes in grazing characteristics of leaf beetles on canopy of seedlings and young trees of Japanese white birch grown in free-air ozone enrichment systems.
Koike T. (Japan)
- 587 A mechanistic modelling approach to link ozone susceptibility to constitutive and induced defenses
Grote R. (Germany)
- 1927 Epidemiological analysis: a new approach for forest protection against ozone
Sicard P. (France)
- 3511 Assessing the potential impact of ozone on native vegetation: findings from the long-term pan-European monitoring program of ICP Forests
Gottardini E. (Italy)
- 3928 Environmental predictors of the effects of ozone concentration and stomatal ozone flux on net ecosystem production of Norway spruce: A case study from Czech Republic
Cudlin P. (Czech Republic)

**13:30 – 16:00 K 5-7 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

- 79 D4 - Decision support models (DSM) for optimal forest management (FM) with a glance to the past and a view to the future**
Organizer Zadnik-Stirn L. (Slovenia)
- Chairs Hodges D. (United States of America)
- 31 Measuring and ranking FM scenarios using particular multivariate and multi-criteria methods
Hodges D. (United States of America)
- 1514 Decision support model for sustainable and multifunctional forest management (FM) based on fuzzy and adaptive dynamic programming
Zadnik-Stirn L. (Slovenia)
- 1728 Modeling optimal forest management and associated risks
Krasovskii A. (Austria)
- 310 Application of group analytic hierarchy process in strategic forest management
Groselj P. (Slovenia)
- 777 Integration of strategic and tactical levels in the management of industrial forest plantations using multi-criteria optimization models
Belavenutti P. (Germany)

**13:30 – 16:00 K9 (Konzerthaus)
All Division 9 (Forest Policy and Economics) Meeting**

- 65 D9 - Multifunctional tropical forest landscapes: finding solutions in science and practice**
Organizer Günter S. (Germany)
- Chairs Sunderland T. (Indonesia)
- 895 Landscape Forestry in the Tropics
Guenther S. (Germany)
- 4062 How opportunity costs are linked to deforestation patterns in tropical Ecuadorian landscapes
Ojeda Luna T. (Germany)
- 4072 How different forest uses influences on ecosystems services on the tropical wet forest
Eguiguren Velepucha P. (Germany)
- 3344 Livelihood strategies among migrant settlers and indigenous population in the Ecuadorian Amazon: an element to landscape approach
Torres B. (Ecuador)
- 3375 Carbon Storage of Various Land Uses in Eastern Visayas, Philippines
Sales-Come R. (Philippines)
- 4110 Integrated Natural Resources and Environment Management: Synthesis of State of Knowledge and Practice from the Philippines
Pulhin J. (Philippines)
- 4039 Revisiting change in the miombo: uses and problems
Gumbo D. (Zambia)
- 2601 Applying ecosystem service approach in navigating forest contributions to rural livelihoods
Ahammad R. (Australia)
- 3248 Forests, food and nutrition: A policy perspective
Sunderland T. (Indonesia)

13:30 – 16:00 Room “Basel + Mühlhausen” (Novotel Freiburg)
Theme 1: Forests for People

176 T1 - Agroforestry - the future of land use management?

- Organizer Morhart C. (Germany)
- Chairs Spiecker H. (Germany), Dupraz C. (France)
- 1383 Truffle cultivation as an alternative for agroforestry in Poland
Rosa-Gruszecka A. (Poland)
- 1474 Nutrient response and nutrient retention efficiency in temperate agroforestry systems
Göbel L. (Germany)
- 4125 Agroforestry a tool to mitigate climate change
Mosquera Losada M. (Spain)
- 808 Bundles of ecosystem services provided by agroforestry in European landscapes
Kay S. (Switzerland)
- 2808 Conservation benefits of tropical multifunctional land-use in and around a forest protected area of Bangladesh
Mukul S. (Bangladesh)
- 704 Homestead agroforestry for forest conservation and ecosystem services – A case in the deforested area of Bangladesh
Rahman A. (Bangladesh)
- 1443 On-farm tree products: How reliant are smallholder farmers on this resource for subsistence needs?
Lamond G. (United Kingdom)
- 2706 Assessing the adaptation to climate change of agroforestry systems by field experiments and numerical simulations.
Dupraz C. (France)

13:30 – 16:00 Room “Baden-Baden” (Novotel Freiburg)
All Division 4 (Forest Assessment, Modelling and Management) Meeting

101 D4 - 125 Years of Forest Inventories - Past, Present and Future

- Organizer Mussong M. (Germany)
- Chairs Marchetti M. (Italy)
- 361 Forest data acquisition in Nordic countries - roadmap for the future
Kangas A. (Finland)
- 4162 Current Forest Inventory Initiatives to Promote Sustainable Forest Management in Brazil
Veloso de Freitas J. (Brazil)
- 1887 New improvements in the French national forest inventory : towards the integration of forest resources assessment and ecosystem monitoring
Mormeau F. (France)
- 454 Friend or Foe? Assessing the diversity-productivity relationship using forest inventory data.
Sousa-Silva R. (Belgium)
- 635 Trees recognition based on branch extraction from UAV images
Pereira J. (Germany)

- 1052 Automatic mapping of forest stands based on three-dimensional point clouds derived from terrestrial laser-scanning
Schwarz M. (Austria)
- 1386 A workflow for remote sensing assisted forest planning in south-west Germany
Schumacher J. (Germany)
- 1422 Remote sensing based timber volume modelling on plot level: influence of ground sampling methods
Kirchhöfer M. (Germany)

13:30 – 16:00 KG I - 1228 (Uni Freiburg)
All Division 7 (Forest Health) Meeting

300 D7 - Pine pitch canker - strategies for management of Gibberella circinata in greenhouses and forests (Pinestrength)

- Organizer Diez Casero J. (Spain)
- Chairs Woodward S. (United Kingdom)
- 3035 COST Action FP1406: Pine pitch canker - strategies for management of Gibberella circinata in greenhouses and forests (PINESTRENGTH)
Diez Casero J. (Spain)
- 2503 Evaluation of soil and alternative hosts as potential inoculum sources of Fusarium circinatum in plantations of Pinus radiata
Hernández Escribano L. (Spain)
- 2494 Impact of climatic factors in the establishment of pine pitch canker in new disease scenarios
Elvira-Recuenco M. (Spain)
- 2329 Effect on planta virulence and extracellular lignocellulolytic enzyme production of Fusarium circinatum isolates infected by FcMV1 and FcMV2-2.
Diez Casero J. (Spain)
- 1900 Susceptibility of Scottish Scots pine to the Pine Pitch Canker Pathogen, Fusarium circinatum
Woodward S. (United Kingdom)
- 2575 Susceptibility of Turkish Conifer Species to Fusarium circinatum
Dogmus- Lehtijärvi H. (Turkey)
- 3367 Management of Fusarium circinatum in Pinus radiata plant production at the Arauco nurseries in Chile
Ahumada R. (Chile)

13:30 – 16:00 KG I - 1009 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting

178 D9 - Forest policies in the Baltic and Central and Eastern European (CEE) regions

- Organizer Brukas V. (Sweden)
- Chairs Salka J. (Slovakia)
- 1268 Formation and Political Power of Forest Owners Associations in the Czech Republic and Slovakia
Sálka J. (Slovakia)
- 1289 Actors and effects of their power on forest management in Slovakia
Smrecek R. (Slovakia)

- 3946 Implementation of forest-related policies by state forest institutions from former Yugoslavian countries: state of the art and future perspectives
Stevanov M. (Slovakia)
- 2617 Strategic options for state forest institutions in Poland. Evaluation by the 3L Model and ways ahead
Chudy R. (Norway)
- 1171 The restitution process in the Czech Republic and Slovakia. Directed the same beginning to the same results?
Jarsky V. (Czech Republic)
- 1103 The state and focus of forest ownership and policy research in Estonia
Põllumäe P. (Estonia)
- 3298 Forestry in transition: A review of forest policy research in the post-socialist realm
Nazare A. (Sweden)
- 2027 Reimagining forest policy, institutions and instruments according to societal expectations the focus on Ukraine and beyond
Soloviy I. (Ukraine)
- 1705 The command-and-control model of forest governance in Lithuania and Slovakia: past, present and possible future.
Makrickiene E. (Lithuania)

- 1955 Harmonising, improving and using social and recreational data in National Forest Inventories across Europe
Edwards D. (United Kingdom)
- 3412 How can NFIs meet the growing demand for forest information at European scale? - Lessons learned from the last decade
Schadauer K. (Austria)

**13:30 – 16:00 KG I - 1015 (University Freiburg)
All Division 6 (Social Aspects of Forests and Forestry) Meeting**

- 118 D6 - Nature-based tourism and recreation's role in sustaining forests and improving people's quality of life**
- Organizer Stein T. (United States of America)
- Chairs Fredman P. (Norway)
- 3818 Exploring small cities' influence on nature-based tourism and community development
Rodriguez S. (Mexico)
- 2092 Giving locals a say in promoting tourism by enhancing recreation in the wildland urban interface in Florida, USA
Stein T. (United States of America)
- 941 Recreational hunting - a source of income for forest owners and a contested pastime: A survey of attitudes of the general public in Denmark
Jensen F. (Denmark)
- 1861 From place-based natural resources to value-added experiences: Future nature-based tourism in the bio-economy
Fredman P. (Norway)
- 3009 Touristic and recreational uses of forests in peri-urban areas: a case study in Veneto (Northern Italy)
Secco L. (Italy)
- 2627 Rural tourism: Its feasibility frontier as seen from empirical evidence
Paredes M. (Mexico)
- 2677 Low density nature based tourism, a study case from Mexico
Paredes M. (Mexico)
- 1653 A Survey on Awareness and Demand of Urbanites about Introduction of Mountain Eco-tourism
Kim J. (South Korea (ROK))
- 1098 Changes in the livelihoods of people in protected areas in China
Wang W. (Canada)

**13:30 – 16:00 KG I - 1098 (University Freiburg)
All Division 3 (Forest Operations Engineering and Management) Meeting**

- 31 D3 - Quality Assessments along the wood supply chain for optimal use of the forest resource**
- Organizer Brüchert F. (Germany)
- Chairs Achim A. (Canada)
- 916 Challenges in addressing merchantability of forest stands throughout the supply chain in the US Pacific Northwest
Washington C. (United States of America)

**13:30 – 16:00 KG I - 1010 (University Freiburg)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

- 128a D4 - Building relevant, harmonised, comprehensive, reliable and up-to-date forest information for bioeconomy outlooks at European level - a joint ENFIN-DIABOLO session**
- Organizer Packalen T. (Finland)
- Chairs Lier M. (Finland), Schadauer K. (Austria)
- 1061 Potential of remote sensing based forest attribute modelling for harmonising NFIs across Europe
Kirchhöfer M. (Germany)
- 3090 Matching plot-level tree maps with 3D remote sensing data towards the development of small area estimations
Fadili M. (France)
- 2474 A sensitivity analysis of forest tree mock-up reconstruction methods from phase-shift based tLiDAR data
Casella E. (United Kingdom)
- 2776 Improved ways for assessing and monitoring the connectivity of forest habitats: how much we gain from high-resolution spatial data?
Mateo-Sánchez M. (Spain)
- 4063 Future 3D remote sensing data support for National Forest Inventories
Nilsson M. (Sweden)
- 3321 Harmonisation of Stem Volume Estimates in Europe
Gschwantner T. (Austria)
- 3182 Pan-European harmonised biomass models for the most frequent forest species
Bouriaud O. (Romania)

- 1625 New methods to estimate, analyze and map forest characteristics, wood quality and resources over large landscapes at high resolution
Anderson N. (United States of America)
- 1390 Defining the value of the stand using integrated LiDAR and multisource GIS data.
Sanz Pareja B. (Finland)
- 728 Estimating external quality of stems for pre-harvest assessment of timber assortments
Malinen J. (Finland)
- 428 Using acoustic tools to select for improved mechanical properties in a tree breeding programme for Sitka spruce (*Picea sitchensis*)
Macdonald E. (United Kingdom)
- 4003 Modelling wood quality of Douglas fir in France
Longuetaud F. (France)
- 1994 Accuracy of knot end point detection in CT images of Douglas-fir logs
Longo B. (Germany)
- 4017 Impact of partial cutting on sawmill profitability in the eastern boreal forest of Canada
Achim A. (Canada)

**13:30 – 16:00 KG I - 1199 (University Freiburg)
Theme 2: Forests and Climate Change**

- 113 T2 - What is the potential for CO2 mitigation of forest soils?**
- Organizer Saint-Andre L. (France)
- Chairs Derrien D. (France)
- 3425 Impact of forest management on organic carbon storage in soils
Augusto L. (France)
- 4178 Impact of afforstations on soil organic carbon stocks - what do we really know?
Don A. (Germany)
- 2053 Changes in soil carbon stocks and turnover rates after land-use conversions in Thailand's tropical forest ecosystems
Sakai M. (Japan)
- 1850 Land use, land cover changes and their effects on soil organic carbon stocks in a semi arid forest in Zimbabwe
Mujuru L. (Zimbabwe)
- 2851 Microbial decomposers and their role in forest C-sequestration
Keiblinger K. (Austria)
- 3265 Impact of tree species on soil organic carbon
Boca A. (United States of America)
- 408 Effects of tree species change on forest soil carbon in Western Norway (BalanC) - preliminary results.
Kjønaas O. (Norway)
- 3222 Contribution of deep soil organic matter to forest-atmosphere carbon exchanges: a worldwide isotopic approach
Balesdent J. (France)
- 3618 What is the capacity and potential for carbon sequestration in forest soils in the UK?
Vanguelova E. (United Kingdom)

**13:30 – 16:00 KG I - 1224 (University Freiburg)
Theme 1: Forests for People**

- 149 T1 - Synergies and Conflicts in the Provision of Ecosystem Services by Small-scale Forest Owners**
- Organizer Hartebrodt C. (Germany)
- 781 Forest ecosystem services in Germany: how to benefit the private forest owners?
Dieter M. (Germany)
- 1617 Awakening of the ecosystem service values of the forest in Japan and Taiwan
Ota I. (Japan)
- 3502 A novel approach to forest owner typologies - discourses and power
Tikkanen J. (Finland)
- 414 Nature protection payments for forest owners - problem and solution approach from the perspective of the Agency Theory
Franz K. (Germany)

**13:30 – 16:00 KG I - Aula (University Freiburg)
Theme 5: Forests, Soil and Water Interactions**

- 48 T5 - Ecohydrology-based forest management for water provision, carbon sequestration and enhanced climate resilience**
- Organizer del Campo A. (Spain)
- Chairs Liu S. (China)
- 2572 Forestry and water budget in Germany - consequences for choice of tree species and for forest management
Müller J. (Germany)
- 2630 Impacts of Wildland Fires on Streamflow in the United States: Empirical Evidence and Modeling Results
Sun G. (China)
- 3372 Potential biomass-water synergies in dryland farming systems
Sochacki S. (Australia)
- 1304 Eco-hydrological effects of forest management of Aleppo pine post-fire regeneration forest at catchment scale
González-Sanchis M. (Spain)
- 2116 Assessment of the water retention potential of forest soil for clean water supply
Choi H. (South Korea (ROK))
- 3122 Forest soil water budgets under a changing climate - modelling framework and example application to the forests of Baden-Württemberg, Germany
Puhlmann H. (Germany)
- 706 Thinning management increases tree growth by delaying the drought onset in a Mediterranean evergreen oak coppice
Limousin J. (France)
- 2767 Water status and water use of temperate European forest tree species during naturally occurring drought
Dietrich L. (Switzerland)

- 337 Economic Opportunities for Forest Landowners (US) for Ecosystem Services Provided on Privately-owned Lands and Waters
Jones D. (United States of America)
- 2893 Estimating the Supply of Ecosystem Services from Small-Scale Forests: Challenges and Opportunities
Japelj A. (Slovenia)
- 875 Paraguay's Atlantic Forest Cover Dynamics and Ecosystem Services Perception; a household survey case study
Da Ponte E. (Germany)
- 1610 What Accounting System and Accountancy Network Can Tell Us about Financial Consequences of the Provision of Ecosystem Services
Hartebrodt C. (Germany)

**16:30 – 19:00 K 1 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

- 67 D4 - Managerial Economics and Accounting: Where We have Been & Where We Can Go**
- Organizer Hodges D. (United States of America)
- Chairs Zadnik-Stirn L. (Slovenia)
- 1220 What a Long Strange Trip It's Been: A Look Back at 125 Years of Managerial Economics and Accounting
Hodges D. (United States of America)
- 1736 Forest Management and Public policy in Fast Growing Plantations: Past, Present and Future
Morales Olmos V. (Uruguay)
- 2774 Economics of wood-based bioenergy: review of the past and an exploration of future research directions and policy deliberations
Grebner D. (United States of America)
- 2201 Advancing the Valuation and Measurement of Forest Ecosystem Services: Future Research/Management Directions
Japelj A. (Slovenia)
- 1597 Rules of thumb for invasive species rapid response based on bioeconomic rates of return
Sims C. (United States of America)
- 1288 The Future of Forest Management: Developing a Theory of Planning
Kovac M. (Slovenia)
- 1462 Experimental Analysis of the Climate Change Impact on Forest Economics in a Selected Territory of the Czech Republic
Sisak L. (Czech Republic)
- 1284 Return on wood production by tree species
Leppänen J. (Finland)

**16:30 – 19:00 K 2-4 (Konzerthaus)
All Division 3 (Forest Operations Engineering and Management) Meeting**

- 169 D3 - New comminution technologies and logistics to improve the quality of forest energy feedstock**
- Organizer Han H. (United States of America)
- Chairs Spinelli R. (Italy), Eliasson L. (Sweden)
- 426 ISO standards for solid biofuels and their application in practise
Kofman P. (Ireland)
- 92 Managing knife wear and chipper settings to increase productivity, fuel efficiency and product quality
Spinelli R. (Italy)
- 756 Finite element analysis to predict in-forest stored harvest residue moisture content
Belart F. (United States of America)
- 1817 Chipping productivity, cost and product quality of logging residue by extraction methods
Oh J. (South Korea (ROK))
- 1025 Evaluating the performance of star and deck screen machines separating biomass feedstocks
Han H. (United States of America)

**13:30 – 16:00 KG II - Auditorium Maximum (University Freiburg)
Theme 2: Forests and Climate Change**

- 153c T2 - Genetics and Genomics for Conservation, Climate Adaptation and Sustainable Management of Forests**
- Organizer Rajora O. (Canada)
- Chairs Rajora O. (Canada)
- 990 Genomics and Forest Quantitative Genetics
El-Kassaby Y. (Canada)
- 1451 First analysis of QTL mapping in *Cupressus sempervirens* for traits of adaptive significance
Avramidou E. (Greece)
- 1862 Enhanced classification of forest tree seedlots with SNPs vs. microsatellites
Heinze B. (Austria)
- 1426 Transposon activation tagging in trees for gene function discovery
Fladung M. (Germany)
- 3912 Stress related overview of two poplar homologues of GRAS/SCL TF: from characterization, cloning to differential expression
Galovic V. (Serbia)
- 3772 Identification and characterization of DNA methyltransferases and DNA demethylases in *Salix purpurea*, a model plant for bioenergy and phytopharmaceutical products
Gomes C. (Poland)
- 2889 Sustaining *Pinus strobiformis* into the Future: Reciprocal Transplant Gardens and Disease Resistance Trials
Waring K. (United States of America)
- 3047 Triploid Aspen in the US: Occurrence and Implications
Mock K. (United States of America)
- Panel Discussion

- 655 The effect of screening and drying of forest residue chips on fuel quality and combustion behavior in small boilers (< 50 kW)
Kuptz D. (Germany)
- 1022 Windrowing and fuel chip quality of some residual forest biomasses in North Sweden
Fernandez Lacruz R. (Sweden)
- 711 Forest biomass harvesting productivity and cost analysis in Australia
Reza Ghaffariyan M. (Australia)
- 2864 Improvements of the chip supply system to reduce supply costs
Eliasson L. (Sweden)

- 2397 Lidar-assisted national forest inventories: - for which variables and domains does it work well?
Ståhl G. (Sweden)
- 1877 Statistical issues with modeling individual tree aboveground biomass
Gregoire T. (United States of America)
- 2794 A multi temporal ALS assessment to monitor the growth of above ground forest carbon in restored corridors connecting natural reserves in Brazil
Rodriguez L. (Brazil)
- 4127 Estimation of Trees Outside Forest Using LiDAR
Zara P. (Philippines)
- 1614 Using advanced airborne remote sensing as a sampling tool to support the forest inventory of interior Alaska
Andersen H. (United States of America)
- 1104 Hierarchical model-based inference with GLMM for forest inventories
Saarela S. (Sweden)
- 1082 Sequential adaptive sampling for remote regions
McRoberts R. (United States of America)

**16:30 – 19:00 K 5-7 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

46 D4 - European Climate Smart Forestry

- Organizer Nabuurs G. (Netherlands)
- 4105 Alternative climate change mitigation strategies and their relevance in European climate smart forestry
Lindner M. (Germany)
- 3925 Active forest management and its role for climate change mitigation
Lundmark T. (Sweden)
- 2672 How much wood can we expect from European forests?
Schelhaas M. (Netherlands)
- 4151 Toward projections of an overall and comprehensive carbon balance of the forest sector
Peyron J. (France)
- 3707 Impact of governance instruments on wood supply in a climate change environment
Barreiro S. (Portugal)
- 1551 European climate smart forestry
Nabuurs G. (Netherlands)
- 1914 Regional forest productivity and economy designate European Climate Smart Forestry
Yousefpour R. (Germany)
- 964 Inclusion of aerosols is essential for analysing the climate impacts of boreal forest use
Vanhatalo A. (Finland)

**16:30 – 19:00 K 8 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

1 D4 - Advances in the use of lidar data for forest carbon accounting

- Organizer McRoberts R. (United States of America)
- Chairs Naesset E. (Norway)
- 810 Comparison of different types of auxiliary remote sensing data to improve estimates of biomass in dry African woodlands
Naesset E. (Norway)
- 2999 Integrating airborne and terrestrial laser scanning in designing new approaches to forest inventory sampling
Chirici G. (Italy)

**16:30 – 19:00 Rolf Böhme Saal (Konzerthaus)
All Division 7 (Forest Health) Meeting**

59 D7 - Responses to the increasing threat of insect pests to sustainable plantation forestry

- Organizer Hurley B. (South Africa)
- Chairs Branco M. (Portugal), Slippers B. (South Africa)
- 1572 Pathways approaches inform early-detection strategies to slow pests invasion to planted forests
Bulman L. (New Zealand)
- 1290 Early detection of alien wood-boring beetles in southern Europe: from the arrival to the forests
Faccoli M. (Italy)
- 128 The Use of Semiochemicals for Monitoring and Management
Allison J. (Canada)
- 1453 Biological control of insect pests in non-native forest plantations: opportunities and constrains
Branco M. (Portugal)
- 1028 Eucalyptus insect pests and their management in China
Wu Y. (China)
- 3076 A multi-omics approach to understand molecular mechanisms of host resistance in Eucalyptus grandis against the gall wasp, Leptocybe invasa
Naidoo S. (South Africa)
- 961 BiCEP: Building collaboration to advance biological control
Lawson S. (Australia)
- 3320 Predicting the impact of processionary moth defoliation on pine plantation production over a full timber rotation
Jactel H. (France)
- 2069 Gall-forming wasps threaten non-native plantation-grown Eucalyptus
Dittrich-Schröder G. (South Africa)

**16:30 – 19:00 Room "Basel + Mühlhausen" (Novotel Freiburg)
Theme 3: Forests and Forest-Based Products for a Greener Future**

42 T3 - Open Session

- Organizer Wong A. (Malaysia)
- 2942 Effects of tree diversity on productivity and stability in Short Rotation Coppice (ECOLINK-Salix)
Arranz C. (Germany)
- 3567 Future foresight for the forest sector
Vanclay J. (Australia)
- 2973 Life-cycle Assessment of Wood Products from Natural Tropical Forests in Costa Rica
Alice F. (Costa Rica)
- 2277 Reproductive phenology of pure and mixed *Nothofagus* forests of southern Patagonia
Toro Manriquez M. (Argentina)
- 932 Continuous cover forestry as a cost-efficient tool to increase multifunctionality of boreal production forests
Peura M. (Finland)
- 2093 Silvicultural management options in Alaska forests to increase forest biodiversity and enhance ecosystem services
Deal R. (United States of America)
- 3863 Studies on the durability of several tropical wood species
Dumarçay S. (France)
- 1006 Presence of anti-fungal sapwood and heartwood extractives of selected decay resistant and decay susceptible Malaysian hardwoods and Scots pine (*Pinus sylvestris*)
Wong A. (Malaysia)
- 703 Fungal glutathione transferases and wood extractives
Gelhaye E. (France)

**16:30 – 19:00 Room "Baden-Baden" (Novotel Freiburg)
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions**

109 T4 - Promoting forest biodiversity through structural complexity? New advances in the assessment and restoration of habitat structures in forests

- Organizer Braunisch V. (Germany)
- Chairs Bollmann K. (Switzerland), Müller J. (Germany)
- 3674 Assessing the relative importance of vegetation structure for forest biodiversity: new insights from LiDAR remote sensing for conservation
Bollmann K. (Switzerland)
- 1455 Faunistic Indicators for structural diversity in temperate forests: a systematic niche-based approach
Magg N. (Germany)
- 2434 Does managing for habitat conservation enhance biodiversity and ecosystem services in Apennine beech forests?
Barbati A. (Italy)
- 3264 The conservation of forest structural complexity through retention forestry: a bird's perspective.
Basile M. (Germany)

- 3776 Deadwood accumulation in beech forest triggers community homogenization in formerly different management intensities
Müller J. (Germany)
- 3703 Forest management cessation and biodiversity: a synthesis of a nationwide French project
Gosselin F. (France)
- 3227 Please do not disturb – A chance is needed in the way forests are treated after natural disturbances
Thorn S. (Germany)
- 1775 Forest biodiversity in numbers – The German National Forest Inventory as a basis for forest biodiversity monitoring
Winter S. (Germany)
- 3994 Multi-scale biodiversity monitoring in the Black Forest National Park
Gärtner S. (Germany)

**16:30 – 19:00 K9 (Konzerthaus)
All Division 3 (Forest Operations Engineering and Management) Meeting**

154 D3 - Sustainable and Constructive Strategy of Ergonomic Research in Forestry

- Organizer Yamada Y. (Japan)
- Chairs Grzywinski W. (Poland), Yovi E. (Indonesia)
- 1681 Study courses on forest ergonomics aiming at basic competences – examples from the University of Freiburg
Lewark S. (Germany)
- 4167 Perspectives on forest ergonomics
Heinimann H. (Singapore)
- 421 Analyzing OSH Problems in Indonesian Forest Operation: A STAMP-System Dynamics Approach
Yovi E. (Indonesia)
- 1690 Development of ergonomics in Polish forestry
Sowa J. (Poland)
- 2136 Mechanization in forestry and benefits at the local level. Polish study
Nowacka W. (Poland)
- 2326 Sustainable and Constructive Strategy of Ergonomic Research in Forestry
Yamada Y. (Japan)
- 2798 Physiological workload at forester and deputy forester workstations in Poland
Grzywinski W. (Poland)
- 1400 The course of physiological functions in connection with listening to selected sounds
Filo P. (Czech Republic)
- 2028 Eye-tracking studies – new opportunities in analyzing work processes in forestry
Szewczyk G. (Poland)

**16:30 – 19:00 KG I - 1009 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting**

- 116 D9 - Forest and Natural Resources Policy and Governance in Latin America and the Caribbean**
- Organizer Burns S. (Germany)
- 676 Sustainable Forest Management translations in a global-local nexus: an institutional analysis in Caatinga biome, Brazil.
Mattei Faggin J. (Netherlands)
 - 1988 Renewable energies policy in Uruguay: the case of the Northeast region
Stuhldreher A. (Uruguay)
 - 272 Past, present and future of forest policy in Chile
Grosse H. (Chile)
 - 3150 Critical analysis of the forest policy development in Argentine and some incidences on the Delta del Paraná transformations
Fernandez E. (Argentina)
 - 2755 Actors' perception on future wood production in a cross-border amazonian region: challenges for a sustainable production
Castro Euler A. (Brazil)
 - 1151 The role of International and Transnational organizations in Latin American forest policy. The case of Argentina
Burns S. (Germany)
 - 2410 Twenty five years of forest policy and governance in Costa Rica, tradeoff between discourse of conservation and sustainable forest management
M. Aymerich J. (Costa Rica)
 - 1481 Major bottlenecks in the regulation of the Environmental Reserve Quotas in Brazil
Saretta C. (Brazil)
 - 2391 Argentina forest law 10 years later: has it really made it better for forests?
Flores M. (Argentina)

**16:30 – 19:00 KG I - 1010 (University Freiburg)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

- 128b D4 - Building relevant, harmonised, comprehensive, reliable and up-to-date forest information for bioeconomy outlooks at European level - a joint ENFIN-DIABOLO session**
- Organizer Packalen T. (Finland)
- Chairs Lier M. (Finland), Schadauer K. (Austria)
- 3879 The politics of forest information in EU: mapping use, provision, gaps and challenges related to forest information exchange
Baycheva-Merger T. (Germany)
 - 3782 Monitoring forest disturbances based on NFI field inventory and Sentinel2 time series imagery
Gallaun H. (Austria)

- 2332 Current advances on mapping burned areas in Mediterranean with Sentinel-2 and Sentinel-1 data
Koutsias N. (Switzerland)
- 2799 The use of National Forest Inventory data for the conservation status assessment of Natura 2000 forest habitats in Europe
Alberdi I. (Spain)
- 2265 Fire probability estimated by National Forest Inventories in Iberian Peninsula
Castro Rego F. (Portugal)
- 1847 Development of national LULUCF GHG projection system: the implications for forest and land use policy in Lithuania
Kulbokas G. (Lithuania)
- 2215 Timber production outlook: European Forestry Dynamics Model vs. German WEHAM
Klatt S. (Germany)
- 3843 A review of methodologies for analysing long-term sustainable biomass supply
Packalen T. (Finland)

**16:30 – 19:00 KG I - 1015 (University Freiburg)
All Division 6 (Social Aspects of Forests and Forestry) Meeting**

- 8 D6 - The Role of Social Science in Forestry and Forest Management: Fostering a Culture of Disciplinary Inclusion**
- Organizer Fish T. (United States of America)
- Chairs Stein T. (United States of America)
- 2691 Visitor Preferences for South Korea's National Park Management Alternatives: A Case Study on Seoraksan National Park
Youn Y. (South Korea (ROK))
 - 4144 Brazil Park and Protected Area Management: Tapajós National Forest Case Study
Burns R. (United States of America)
 - 3887 Developing Nature-Based Tourism in Finland - Implications to Research
Tyrväinen L. (Finland)
 - 4172 Spatial analysis linking recreation supply and demand data with health and environmental justice in Alabama
Morse W. (United States of America)
 - 3419 Local ecological knowledge (LEK) of forest practitioners and its relevance for biodiversity conservation - a literature review
Joa B. (Germany)
 - 649 Influences of Culture on Management of Forests in Africa
Gaveta E. (Malawi)
 - 1647 Ensuring an integrated approach to the design of new eradication technologies - linking technical, social and cultural perspectives
Allen W. (New Zealand)
 - 3977 Integrating forest conservation management practices with recreationists' perception of quality
Stein T. (United States of America)

**16:30 – 19:00 KG I - 1098 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting**

91 D9 - Interdisciplinary Perspectives on Illegal and Informal Logging and Related Trade: Drivers, Impacts, and Governance Options

- Organizer Leipold S. (Germany)
 Chairs Kleinschmit D. (Germany)
 2106 Defining illegal forest activities and illegal logging
Tacconi L. (Australia)
 960 Timber, numbers and definitions: a proposal for a novel quantification and qualification of illegal logging
Omar Cerutti P. (Kenya)
 718 Multiple and Intertwined Impacts of Illegal Forest Activities
Pacheco P. (Indonesia)
 472 Drivers of Illegal and Destructive Forest Use
Pokorny B. (Germany)
 2448 Actors and Hidden Incentives in Nepal's Community Forest Timber Value Chain
Basnyat B. (Nepal)
 3699 Global governance approaches to addressing illegal logging: uptake and lessons learned
Cashore B. (United States of America)
 2393 The Impacts of the EU Timber Regulation: Market Diversion and Product Substitution
Zhang D. (United States of America)
 1917 The Importance of Strengthening Governance for FLEGT and REDD+ Implementation: Why illegal logging remains a central challenge
Barber C. (United States of America)
 1128 Spatial and temporal trends of forest cover as a response of policy interventions in the district Chitral, Pakistan;
Zeb A. (Canada)

**16:30 – 19:00 KG I - Aula (University Freiburg)
Theme 5: Forests, Soil and Water Interactions**

88 T5 - Natural hazards and disturbance interactions in mountain forests

- Organizer Bebi P. (Switzerland)
 Chairs Stokes A. (France)
 2178 Post-fire regeneration monitoring: integrating field-based and remote sensing at different spatial scales
Morresi D. (Italy)
 3673 30 years of research and transfer on protection forest against rockfall risks in France and Europe
Berger F. (France)
 501 Post-fire trends in the protective capacity against rockfall of European beech forests (*Fagus sylvatica* L.) in the southwestern Alps
Maringer J. (Switzerland)

- 1108 Tradeoffs between efficiency of the protection against rockfalls and vulnerability to fires in the French Alpine forests
Dupire S. (France)
 2301 How far can one throw a rock through a forest until it hits a tree? – A Boolean model approach
Breschan J. (Switzerland)
 2383 Bark beetle disturbance alter forests' protective effects against snow avalanches
Teich M. (United States of America)
 3080 Estimation of Debris Flow Impact force from the flume experiments
Eu S. (South Korea (ROK))
 233 Plant-Best: a novel plant selection tool for slope protection
Gonzalez Ollauri A. (United Kingdom)
 2385 Managing Forest Disturbance in a Changing Global Ecosphere: metaphysical, socio-political and ecological opportunities and constraints
Jenkins M. (United States of America)

**16:30 – 19:00 KG I - 1139 (University Freiburg)
All Division 6 (Social Aspects of Forests and Forestry) Meeting**

22 D6 - Monitoring of society-forest relationship: from state of the art to future directions

- Organizer Hunziker M. (Switzerland)
 Chairs Bethmann S. (Germany)
 1059 Recreational Indicators in the Danish National Forest Inventory – 10 Years of Experiences and Results
Jensen F. (Denmark)
 1856 On-site data vs. population data vs. panel data – How to best monitor the society-forest relationship?
Fredman P. (Norway)
 1536 Forest in Switzerland from the point of view of the Swiss public: Results of a nationwide monitoring survey
Hunziker M. (Switzerland)
 549 Integrating social and physical aspects of forest recreation – a new approach to a comprehensive monitoring
Hegetschweiler T. (Switzerland)
 1701 An analysis of communicative interaction as a tool to understand the dynamics of society-forest relationship in Baden-Württemberg
Simminger E. (Germany)
 3413 Timber or Non-Timber Forest Products: How do stakeholders perceive the ecosystem services provided by tropical forests in Central Africa?
Lhoest S. (Belgium)
 2313 Quantification and regionalization of economic values of forest ecosystem services in Germany (ReWaLe)
Elsasser P. (Germany)
 1020 Knowing past and learning for future: assessing processes of monitoring nature-based recreation and tourism
Sievänen T. (Finland)
 1637 The Swiss landscape monitoring program – bridging the gap between bio-physical space and perceived place
Kienast F. (Switzerland)

**16:30 – 19:00 KG I - 1199 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting**

124 D9 - Forests and water Payments for Ecosystem Services

- Organizer Valatin G. (United Kingdom)
- Chairs Schueler G. (Germany)
- 2891 Incentives for woodland creation to improve water quality: an overview of the initial findings, activities and ambitions of the PESFOR-W COST Action
Valatin G. (United Kingdom)
- 4019 Engaging Utilities Companies in Water PES: first evidences from European case-studies
Gatto P. (Italy)
- 3204 Quantifying the effectiveness of woodland creation measures for reducing agricultural diffuse pollution
Nisbet T. (United Kingdom)
- 3524 Forest services to preserve drinking water: guidelines and partnerships
Fiquepron J. (France)
- 367 A quantitative analysis of factors affecting the implementation of water-related PES schemes
Bösch M. (Germany)
- 865 Comparing institutional characteristics of PES schemes for forests and watersheds: selected cases in Ecuador
Gordillo F. (Germany)
- 2563 Classifying Forest Peatlands and Holistic Evaluation of Ecosystem Services
Schueler G. (Germany)
- 1510 Forest management decisions when timber, carbon sequestration and water yields have an economic value. An application to Alpine forest
Ovando P. (Switzerland)

**16:30 – 19:00 KG I - 1228 (University Freiburg)
Theme 1: Forests for People**

80 T1 - Changing Forest Ownership: significance of trends and implications for management and policy

- Organizer Lidestav G. (Sweden)
- 3715 Forest ownership in the ECE region: What do we know? Results from the Joint COST Action FACESMAP/UNECE/FAO Enquiry on Forest Ownership in the ECE Region
Weiss G. (Austria)
- 2554 State Forest Management Organizations in Europe: performance, potential and challenges
Liubachyna A. (Italy)
- 2272 Forest advisory systems for changing forest owners in Europe
Lawrence A. (United Kingdom)
- 3312 Towards impact and inclusiveness with forest owner related policies
Hujala T. (Finland)

- 3192 Combining data on ownership characteristics, forest condition and management activities - A database for improved understanding of small-scale forest owner's behavior
Wilhelmsson E. (Sweden)
- 1655 Living and working at several places: the "new" forest owner in Sweden
Lidestav G. (Sweden)
- 1667 Spider web of ownership relations in the Czech forests
Jarsky V. (Czech Republic)
- 3126 Status and challenges of small-scale private forest management in actual ecological and social circumstances - Croatia case study
Zunic M. (Croatia)

**16:30 – 19:00 KG II - Auditorium Maximum (University Freiburg)
All Division 7 (Forest Health) Meeting**

71 D7 - Early detection and monitoring of invasive forest pests and pathogens with citizen science

- Organizer Hulbert J. (South Africa)
- Chairs Garbelotto M. (United States of America), Coppock R. (United Kingdom)
- 3406 Citizen science initiatives: opportunities to manage global invasive forest pest challenges
Hulbert J. (South Africa)
- 597 Oregon Forest Pest Detectors: Oregon's first defense against invasive forest pests
Saffell B. (United States of America)
- 620 When policy meets science and public engagement: designing and building a tree health citizen science survey in the UK
Geoghegan H. (United Kingdom)
- 3250 Citizen science helps predict spread of emerging infectious diseases
Garbelotto M. (United States of America)
- 1519 Co-development of a cross-sector nationwide passive surveillance tool for the primary industries and general public of New Zealand
Pawson S. (New Zealand)
- 2374 Empowering volunteers in early detection and management of forest invasive species using 3D printed models, online tracking systems and UAVs
Gupta A. (United States of America)
- 1434 Observatree: A pioneering and award winning Tree Health Early Warning System combining Citizen Science with plant health professionals
Pérez-Sierra A. (United Kingdom)
- 2402 Stream monitoring for Phytophthora in Washington State, USA: A citizen science project
Elliott M. (United States of America)

20:00 – 21:30 **KG I - 1015 (University Freiburg)**
Side Events

BM 9 Tropical Forest Datasets Networking Meeting
Organizer Ward S. (Puerto Rico)

20:00 – 21:30 **KG I - 1224 (Uni Freiburg)**
Side Events

BM 19 IUFRO UNIT 4.05.00 Business Meeting
Organizer Zadnik-Stirn L. (Slovenia)



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09:30 – 10:45 Rolf Böhme Saal (Konzerthaus Freiburg) LIVE STREAM Opening Ceremony

Welcome messages from representatives of host organizations, partner countries and stakeholders.

- Moderator Konstantin von Teuffel, Director of Forest Research Institute Baden-Württemberg, Freiburg (Germany)
1. Michael Wingfield, President of IUFRO, Pretoria (South Africa)
 2. Peter Hauk, Minister for Rural Affairs and Consumer Protection Baden-Württemberg, Stuttgart (Germany)
 3. Philippe Richert, President of Grand Est Region, Strasbourg (France) t.b.c
 4. Georg Schirmbeck, President of the German Forestry Council, Berlin (Germany)
 5. Marc Palahi, Director of European Forest Institute, Joensuu (Finland)
- Launch of the new IUFRO slogan
Alexander Buck, IUFRO Executive Director, Vienna (Austria)

10:45 - 11:30 Rolf Böhme Saal (Konzerthaus Freiburg) LIVE STREAM Science in Dialogue Sessions

SID1 Statements by Federal Ministers

- Hermann Onko Aeikens, State Secretary, Federal Ministry of Food and Agriculture, Berlin (Germany)
- Marc Chardonens, Director, Federal Office of the Environment, Bern (Switzerland)
- Gerhard Mannsberger, Head, Forestry Department, Federal Ministry of Agriculture, Forestry, Environment and Water Management, Vienna (Austria)
- Arnaud Brizay, Attaché for Agriculture, French Embassy, Berlin (France/Germany)

In the series of Science in Dialogue Sessions, high-level speakers from various sectors will join a panel to discuss the overarching theme Challenges of sustainable development: implications for forests and forest science from their perspectives. Introductory statements will be followed by a moderated discussion with panelists, and an open discussion with the audience. The sessions will be streamed live.

These Sessions will deliver input for the IUFRO Strategy 2019 – 2024.

11:45 – 13:30 Rolf Böhme Saal (Konzerthaus Freiburg) LIVE STREAM Science in Dialogue Sessions

SID2 Science Meets Policy

- Moderator Alexander Buck, IUFRO Executive Director, Vienna (Austria)
- Keynote presentations Göran Persson, Senior Advisor, Sveaskog and former Prime Minister of Sweden, Stockholm (Sweden)
José Sarney Filho, Minister of Environment, Brasilia (Brazil) t.b.c.
- Panel Hiroto Mitsugi, Assistant Director-General Forestry, Food and Agriculture Organization of the United Nations, Rome (Italy)
Manoel Sobral Filho, Director, UN Forum on Forests, Secretariat (USA)
Gustavo A.B. da Fonseca, Director of Programs, Global Environment Facility, New York (USA)
Tim Christophersen, Chief of Terrestrial Ecosystems Unit, UN Environment, Nairobi (Kenya)
Benoit Blarel, Practice Manager, Global Platforms, Environment & Natural Resources, The World Bank, Washington (USA)
Daniela Kleinschmit, Chair of Forest and Environmental Policy, University of Freiburg; IUFRO Coordinator of Division 9 Forest Policy and Economics, Freiburg (Germany)

15:00 – 16:30 Rolf Böhme Saal (Konzerthaus Freiburg) LIVE STREAM Science in Dialogue Sessions

SID3 Science Meets Business

- Jointly co-hosted with Mondi AG
- Moderator Gerald Steindlegger, ISS-Integrated Sustainability Solutions, Oberneukirchen (Austria)
- Introductory Keynote Bhaskar Vira, Director, University of Cambridge Conservation Research Institute, Cambridge (United Kingdom)
- Panel Christian Skilich (Operations and Technical Director, Mondi AG)
Ivo Mulder (Finance and Private Sector Coordinator, UN Environment)
Mike Wingfield (IUFRO President)

17:00 – 18:30 **Rolf Böhme Saal (Konzerthaus Freiburg)** **LIVE STREAM** **Science in Dialogue Sessions**

SID4 Science meets Stakeholders Panel Discussion

Moderator Evy von Pfeil, Deutsche Gesellschaft für International Zusammenarbeit (GIZ) GmbH, Eschborn (Germany)

Introduction Mike Wingfield, IUFRO President, Pretoria (South Africa)

Panel Paul Chatterton, Leader of Landscape Finance Lab, WWF International, Vienna (Austria)
 Victoria Tauli-Corpuz, UN Special Rapporteur on the rights of indigenous peoples, Baguio City (Philippines)
 Carsten Wilke, President of German Forest Society, Göttingen (Germany)
 Salina Abraham, President of International Forestry Students' Association, Utrecht (Netherlands)
 Lisa Sennerby-Forsse, President of the Royal Swedish Academy of Agriculture and Forestry, Stockholm (Sweden)

Press conference **LIVE STREAM**

Presentation

Ulrike Hinrichs, Die Kuppel

The panel

Peter Hauk MdL, Minister for Rural Areas, Consumer Protection and Agriculture in Baden-Württemberg

Dr. Hermann Onko Aeikens, Secretary of State in the Federal Ministry for Food and Agriculture

Alexander Buck, Executive Director of IUFRO

Prof. Konstantin von Teuffel, Director of the Forest Research Institute of Baden-Württemberg (FVA)

Presentation: Ulrike Hinrichs, Die Kuppel

Refreshments will be served after the press conference.

More Information regarding the press programme at www.iufro2017.com/press.

Live-Stream: www.live.iufro2017.com

Date	Tuesday, 19 September 2017	Location	K I Aula (University Freiburg)
Time	13:30 – 14:15	Registration	necessary at presse@die-kuppel.de

09:30 – 10:45 Rolf Böhme Saal (Konzerthaus)
Science in Dialogue Sessions **LIVE STREAM**

OC Opening Ceremony

10:45 – 11:30 Rolf Böhme Saal (Konzerthaus)
Science in Dialogue Sessions **LIVE STREAM**

SID1 Statement by Federal Ministers

11:45 – 13:30 Rolf Böhme Saal (Konzerthaus)
Science in Dialogue Sessions **LIVE STREAM**

SID2 Science meets Policy Panel Discussion

15:00 – 17:00 Rolf Böhme Saal (Konzerthaus)
Science in Dialogue Sessions **LIVE STREAM**

SID3 Science meets Business Panel Discussion

15:00 – 17:00 K 2-4 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting

15a D4 - Impacts of environmental changes on growth and productivity of managed and unmanaged forests

- Organizer Kahle H. (Germany)
Chairs Mäkinen H. (Finland)
Introduction
- 294 Environment-induced growth changes in the Finnish forests during 1971 - 2010 - an analysis based on National Forest Inventory
Mäkinen H. (Finland)
- 1849 NFI-based investigations of recent changes in forest growth in Western Europe: variations across tree species, geographical scales, and climatic contexts
Bontemps J. (France)
- 2382 Recent growth trends for main European tree species and their drivers
Muys B. (Belgium)
- 2197 Increased Production of Norway Spruce: An examination of the effects of climate change in managed and unmanaged forests in Norway
Allen M. (Norway)
- 3891 Growth and mortality analyses in central European forest ecosystems based on long-term monitoring and gradient studies
Rigling A. (Switzerland)
- 457 Norway spruce trees long-term growth with account for possible climate change in the Leningrad Region of Russian Federation.
Alekseev A. (Russian Federation)
- 1184 Forest Decline in the Black Forest - What happened in the last 40 years?
Spiecker H. (Germany)
- Discussion

15:00 – 17:00 K9 (Konzerthaus)
All Division 7 (Forest Health) Meeting

305a D7 - Pine wilt disease: progress in understanding the dynamics and developing control measures

- Organizer Robinet C. (France)
Chairs Bonifacio L. (Portugal), Nakamura K. (Japan)
- 1004 Xylem dysfunction in pine trees suffered from pine wilt disease
Ikeda T. (Japan)
- 3415 Transcriptome Analysis and Identification of Differential Gene Expression to Response of Pine Wilt Disease in Pinus densiflora
Shim D. (South Korea (ROK))
- 2585 Unraveling the pinewood nematode pathogenicity: Bursaphelenchus xylophilus and B. mucronatus secretome differences
Cardoso J. (Portugal)
- 1746 Volatiles from different Cerambycidae beetles that colonize pine wilt Pinus pinaster trees in Portugal
Bonifacio L. (Portugal)
- 1761 Advances in the Galician Pinus pinaster breeding program against the pinewood nematode (Bursaphelenchus xylophilus)
Diaz R. (Spain)

15:00 – 17:00 KG I - 1009 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting

7 D9 - Europe Inside / Outside - The export of European forest policies, objectives and architecture through public and private governance arrangements?

- Organizer Puelzl H. (Austria)
Chairs Edwards P. (New Zealand)
- 712 Centrifugation of European legality frontiers in global timber supply chains
de Jong W. (Japan)
- 3902 Smart Mix against Tropical Illegal Logging: Towards an Integrated Approach
Lan C. (Netherlands)
- 4069 EU FLEGT Action Plan's impacts to China's forestry trade policy
Chen X. (China)
- 3174 Changing patterns in wood trade: the emerging EU regional market
Masiero M. (Italy)
- 2016 Restoring Government Forest Policy Prerogative? The EU FLEGT Ambivalent Relationship with Private Rulemaking in the Congolese Case
Montouray Y. (Guadeloupe)
- 2727 Developing a National Forest Policy in New Zealand - European Influences
Edwards P. (New Zealand)
- 459 Transitioning to a forest-based Bioeconomy? Lessons from Germany and Scandinavia
Giurca A. (Germany)

15:00 – 17:00 **KG I - 1010 (University Freiburg)**
Theme 2: Forests and Climate Change

- 186a T2 - Changing forest disturbance regimes: Patterns, consequences, and responses**
- Organizer Seidl R. (Austria)
- 1167 Frontiers in forest disturbance research
Seidl R. (Austria)
- 660 Reconstructing past disturbance regimes across conifer and broadleaf forests of central, eastern and south-eastern Europe as a baseline to assess future regime shifts
Svoboda M. (Czech Republic)
- 2618 Spatial organization related with disturbance history in monospecific spruce old-growth Carpathians forest
Vitková L. (Czech Republic)
- 1557 Historic, present and potential future fire regimes in the Pacific Northwest
Spies T. (United States of America)
- 161 Interactions between disturbances: Describing and anticipating complete and complex regimes
Buma B. (United States of America)
- 2882 Coupled effects of wind-storms and drought on forest damage in managed coniferous forest in the Western Alps and the Jura mountains
Csillery K. (Switzerland)
- 375 Ecological resilience to natural disturbances: Lessons learned from Yellowstone National Park (USA)
Turner M. (United States of America)
- 643 Forest biodiversity in the era of changing disturbance regimes: Case studies from Japan
Mori A. (Japan)

15:00 – 17:00 **KG I - 1015 (University Freiburg)**
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions

- 45a T4 - Forest policy and biodiversity strategy: The relevance of forest genetic resources**
- Organizer Kraigher H. (Slovenia)
- Chairs Fady B. (France), Kraigher H. (Slovenia)
- 2224 Pan-European efforts in biodiversity conservation
Skoberne P. (Slovenia)
- 2395 The importance of genetic diversity for sustainable forestry
Fady B. (France)
- 3544 Selection of best management practices for conservation of spatial genetic structure diversity and dynamics in beech forests
Vettori C. (Italy)
- 1320 The days of the Serbian spruce in its natural habitat are numbered
Aleksic J. (Serbia)
- 3644 LocallyTREE - DNA-based analytics to characterise 'genetic' regions of Lower Austria aiming to support the selection and plantation of native shrub species
Sehr E. (Austria)
- 3378 Regional Cooperation for Genetic Diversity Conservation of Pinus pumila in East Asia
Kang H. (South Korea (ROK))
- 4046 Wild Plants Conservation through Seed Vault in the Republic of Korea
Bang M. (South Korea (ROK))

15:00 – 17:00 **KG I - 1098 (University Freiburg)**
All Division 6 (Social Aspects of Forests and Forestry) Meeting

- 140a D6 - Forest education - the consequences of interaction: innovation and curricula**
- Organizer Paschalis Jakubowicz P. (Poland)
- 1958 Higher education in ergonomics - added value of innovative education of forestry students
Sowa J. (Poland)
- 4159 Outcome-oriented curriculum design
Heinimann H. (Singapore)
- 1283 Non-formal environmental education in Poland - goals, methods and curricula
Piasecka A. (Poland)
- 3643 Introduction of the novel master programme "Urban Arboriculture and Forest Management"
Steinebach S. (Germany)
- 2546 Observer effects during habitat tree selection
Cosyns H. (Switzerland)
- 3522 The Innovation of Educational Activities at the Faculty of Forestry and Wood Sciences Prague
Remes J. (Czech Republic)

15:00 – 17:00 **KG II - Auditorium Maximum (University Freiburg)**
Theme 3: Forests and Forest-Based Products for a Greener Future

- 82a T3 - Traditional coppice: ecology, silviculture and socio-economic aspects**
- Organizer Johnson C. (United States of America)
- 1041 Traditional Coppice Management - Legacy and Potential: Findings and Conclusions of the European COST Network 'EuroCoppice'
Becker G. (Germany)
- 477 Terminology and multilingual glossary on Coppice terms
Kofman P. (Ireland)
- 93 Harvesting of traditional coppice stands: results from 40 years of European research
Spinelli R. (Italy)
- 1742 Factors affecting biomass and wood extraction from coppices in Europe: Productivity models and influence of technological changes.
Tolosana E. (Spain)
- 100 The impact of mechanized cutting on coppice mortality, re-sprouting vigor and physiology
Magagnotti N. (Italy)
- 1099 Coppice conversion, a difficult and long-lasting process in Europe
Nicolescu V. (Romania)
- 1845 Natural seed regeneration in chestnut coppices: a key factor in planning silvicultural management.
Marcolin E. (Italy)

15:00 – 17:00 **KG I - 1199 (University Freiburg)**
Theme 5: Forests, Soil and Water Interactions

50a T5 - Soil Processes and Sustainable Forest Management (IUSS)

- Organizer Becker G. (Germany)
Chairs Nicolescu V. (Romania)
- 2956 Consequences of mineral fertilization and biosolid application on nutrient leaching over an entire rotation in Brazilian eucalypt plantations
Laclau J. (France)
- 2075 Long-term fate of applied nitrogen in managed pine ecosystems of the southeastern United States using 15N
Raymond J. (United States of America)
- 1720 The impact of secondary forests conversion into larch plantations on C, N, P, K, Ca and Mg concentrations and stocks in forest floor and soils
Yang K. (China)
- 3115 N2O and NO fluxes from different land uses in the Mau Forest Complex, Kenya: An incubation experiment with intact soil cores.
Arias-Navarro C. (Germany)
- 3185 Soil nutrients and fractions. Forest management : climate change 1 - 0
Lanfranchi M. (United Kingdom)
- 2735 Effects of forests management on soil functions - results of the national forest soil inventories in Germany
Wellbrock N. (Germany)

17:30 – 19:00 **Rolf Böhme Saal (Konzerthaus)**
Science in Dialogue Sessions **LIVE STREAM**

SID4 Science meets Stakeholders Panel Discussion

17:30 – 19:30 **K 2-4 (Konzerthaus)**
All Division 4 (Forest Assessment, Modelling and Management) Meeting

15b D4 - Impacts of environmental changes on growth and productivity of managed and unmanaged forests

- Organizer Kahle H. (Germany)
Chairs Mäkinen H. (Finland)
- 677 Modelling climatic effects on site productivity of jack pine and black spruce plantations
Sharma M. (Canada)
- 2032 Nonlinear mixed models for tree growth: Combining climate, site, stand, management, and nutrient effects
Rohner B. (Switzerland)
- 3105 A dynamic environment-sensitive site index model for the prediction of site productivity potential under climate change
Yue C. (Germany)
- 2671 Developing individual-tree diameter growth functions for Europe
Schelhaas M. (Netherlands)
- 1344 Evaluating future carbon stocks in forests: the importance of stem form
Schneider R. (Canada)

- 3590 Productivity loss expected for Austrian forests in consequence of climate warming
Vospernik S. (Austria)
- 3178 Projecting forest productivity under climate change at the European scale: a metamodeling approach
Lafond V. (Switzerland)
Discussion

17:30 – 19:30 **K9 (Konzerthaus)**
All Division 7 (Forest Health) Meeting

305b D7 - Pine wilt disease: progress in understanding the dynamics and developing control measures

- Organizer Robinet C. (France)
Chairs Bonifacio L. (Portugal), Nakamura K. (Japan)
- 3207 Naphthoquinones: potential bionematicides for pinewood nematode eradication from wood
Fonseca L. (Portugal)
- 1846 Are there any breaks to the dispersal of the Pine Wood Nematode across Europe ? A phylogeographic study of its vector, *Monochamus galloprovincialis* (Coleoptera, Cerambycidae).
Roux G. (France)
- 691 The role of latent carrier tree : A small field experiment brought about informative results
Futai K. (Japan)
- 3155 Fifteen years monitoring in Norway without finding *Bursaphelenchus xylophilus*
Magnusson C. (Norway)
- 1065 Pine Wood Nematode (PWN) and Pine Wilt Disease (PWD) - new recommendations for control actions and forest management.
Isacsson G. (Sweden)

17:30 – 19:30 **KG I - 1009 (University Freiburg)**
All Division 9 (Forest Policy and Economics) Meeting

138 D9 - The potential contribution of forest related indicators to global issues

- Organizer Linser S. (Austria)
- 954 25 years of C&I for SFM - Did they make a difference?
Linser S. (Austria)
- 3416 Forest sustainability indicators in the new light of a bioeconomy
Wolfslehner B. (Austria)
- 1160 Requirements for appropriate sustainability indication
Somogyi Z. (Hungary)
- 2905 Forest related indicators to assess sustainability impacts of policy options on the Greek forests
Kazana V. (Greece)
- 188 The Austrian Forest Biodiversity Index - Concepts and Results
Geburek T. (Austria)
- 3942 Including forest certification indicators in promoting and monitoring implementation of the Sustainable Development Goals
Hontelez J. (Netherlands)

- 2940 Another brick in the Great Green Wall? Criteria and Indicators to monitor Forest and Landscape Restoration in Burkina Faso
Huber P. (Austria)
- 3450 "Indicators - a task for citizen's science?"
Pülzl H. (Austria)

**17:30 – 19:30 KG I - 1010 (University Freiburg)
Theme 2: Forests and Climate Change**

- 186b T2 - Changing forest disturbance regimes: Patterns, consequences, and responses**
Organizer Seidl R. (Austria)
- 1540 Intermediate severity windthrow effects on forest structure and carbon dynamics in the eastern United States: implications for adaptive management
Keeton W. (United States of America)
- 566 Providing multiple ecosystem services in the face of changing disturbance regimes
Albrich K. (Austria)
- 824 Tools for assessing the impacts of climate variability and change on wildfire regimes in forests
Herawati H. (Indonesia)
- 1713 Modeling wildfires in Indonesia with the FLAM model
Krasovskii A. (Austria)
- 2324 Understanding fire, weather and land cover interactions from long-term terrestrial observations and satellite data in a north to south transect in Europe and North Africa
Koutsias N. (Switzerland)
- 2257 Changing climate and forest pest insects in Finland, Observed patterns and future projections
Viiri H. (Finland)

**17:30 – 19:30 KG I - 1015 (University Freiburg)
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions**

- 45b T4 - Forest policy and biodiversity strategy: The relevance of forest genetic resources**
Organizer Kraigher H. (Slovenia)
Chairs Orlovic S. (Serbia), Westergren M. (Slovenia)
- 1749 Conservation and management of forest genetic resources: overview on forest policies in countries of South Eastern Europe (SEE)
Stojnic S. (Serbia)
- 661 Forest genetic monitoring: an overview of concepts and definitions
Fussi B. (Germany)
- 2465 Monitoring flowering synchronization discrepancies and their impact on seed crop genetic diversity - An early warning system in a changing climate
Alizoti P. (Greece)
- 1992 Communicating the value of forest related nature's services and genetic resources today for tomorrow
Baloh T. (Slovenia)
- 1711 The future of forest genetic monitoring (FGM): a contribution to FGM objectives and strategies from local to global
Aravanopoulos F. (Greece)

**17:30 – 19:30 KG I - 1098 (University Freiburg)
All Division 6 (Social Aspects of Forests and Forestry) Meeting**

- 140b D6 - Forest education - the consequences of interaction: innovation and curricula**
Organizer Paschalis Jakubowicz P. (Poland)
- 2288 The Forest Culture Centre in Goluchów as an important link between the forest education and Polish society
Antonowicz A. (Poland)
- 4174 Developing a Competency-Based Climate Education Program for U.S. County Extension Agents
Hubbard W. (United States of America)
- 2175 Mathematics and Statistics - Their Role in Modern Forest Curricula
Merkel H. (Germany)
- 3478 Developing a novel Master on Sustainable Forest Resource Economics: Chances and Challenges
Cremer T. (Germany)

**17:30 – 19:30 KG II - Auditorium Maximum (University Freiburg)
Theme 3: Forests and Forest-Based Products for a Greener Future**

- 82b T3 - Traditional coppice: ecology, silviculture and socio-economic aspects**
Organizer Johnson C. (United States of America)
- 1531 Coppicing restoration in two contrasting land use situations: effects on biodiversity of vascular plants and invertebrates
Hédrl R. (Czech Republic)
- 3117 Restoration of coppice-with-standards management : effects on ground vegetation and bryophytes.
Van der Aa B. (Belgium)
- 1394 Effect of tree age and stump height on initial Nothofagus antarctica stump sprouting in Chilean Patagonia
Promis A. (Chile)
- 2802 The drivers of tree productivity in newly restored coppices: effects of tree size, competition and diversity
Matula R. (Czech Republic)
- 2399 The potential barriers to persistence and development of small scale coppice forest management in Europe.
Bartlett D. (United Kingdom)
- 2858 Legislative framework for coppice silviculture in Italy
Mairota P. (Italy)

**17:30 – 19:30 KG I - 1199 (University Freiburg)
Theme 5: Forests, Soil and Water Interactions**

- 50b T5 - Soil Processes and Sustainable Forest Management (IUSS)**
Organizer Becker G. (Germany)
Chairs Nicolescu V. (Romania)
- 2578 Sustainable nutrient supply and maintenance of forest soil through improved liming practices
Jansone L. (Germany)
- 3819 Coarse Woody Debris Management for Forest Soil Functioning
Stutz K. (Germany)
- 1301 Spatial patterns of organic matter decomposition in a high mountain forest environment
Hellwig N. (Germany)

- 3007 The FACE Wood Decomposition Experiment: Abiotic and biotic controls on the fate of carbon from dead wood
Trettin C. (United States of America)
- 3031 Stump harvesting, surface disturbance and time - what happens to C and N pools
Kaarakka L. (Finland)

20:00 – 21:45 KG I - 1015 (University Freiburg) Side Events

BM 5 Division 9 Business Meeting
Organizer Kleinschmit D. (Germany)

20:00 – 21:00 KG I - 1134 (University Freiburg) Side Events

BM 6 Meliaceae Working Party (IUFRO Working Group 1.02.04)
Organizer Ward S. (Puerto Rico)

20:00 – 21:00 KG I - 1199 (University Freiburg) Side Events

BM 4 Division 7 Business Meeting
Organizer Brockhoff E. (New Zealand)

20:00 – 21:45 KG I - 1098 (University Freiburg) Side Events

BM 1 Division 3 Business Meeting
Organizer Chung W. (United States of America)

20:00 – 21:45 KG I - 1224 (University Freiburg) Side Events

BM 3 Division 6 Business Meeting
Organizer Sievänen T. (Finland)

20:00 – 21:45 KG I - 1228 (University Freiburg) Side Events

BM 2 Division 4 Business Meeting
Organizer Peyron J.-L. (France)

20:00 – 21:00 KG I - 1243 (University Freiburg) Side Events

BM 7 Mountain Forest Management (Working Unit 1.01.05) Business Meeting
Organizer Park P. S. (South Korea (ROK)), Lexer M. (Austria)



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FSC® General Assembly 2017
Vancouver, Canada, 8–13 October

UNIVERSITY					
	KG I - 1009	KG I - 1010	KG I - 1015	KG I - 1098	KG I - Aula
8:00	131 T5 - Exploring the contribution of the tree-soil metagenomes to forest resilience	9a T4 - IUFRO Task Force on Biological Invasions in Forests	73 D6 - But is it representative...? Exploring the epistemological grounds of qualitative methods in forestry research	168a D3 - Sustainable forest operations - A foundation of the green economy	
8:30					
9:00					
9:30					
10:00	Coffee Break (Konzerthaus & University KG I)				
10:30		9b T4 - IUFRO Task Force on Biological Invasions in Forests		168b D3 - Sustainable forest operations - A foundation of the green economy	93 T4 - Silviculture for non-wood ecosystem services
11:00					
11:30					
12:00	Lunch break (Mensa) and visit of the Poster Exhibition		12:45 – 13:30	Lunch break (Mensa) and visit of the Poster Exhibition	
13:30			BL 1 Book Launch: A History of IUFRO Congresses, Forest Research and Russia's Participation		
14:00					
14:30					
15:00	Coffee Break (Konzerthaus & University KG I)				
15:30	63 D9 - Forests for the Health of the People	92a T4 - Concepts and assessments of forest ecosystem services and benefits	19a D6 - The role of forests in sustainable rural development in developing countries: livelihoods and quality of life	205a T5 - Phloem function and dysfunction under drought	303 T3 - Research Advances for the Meliaceae
16:00					
16:30					
17:00					
17:30	Coffee Break (Konzerthaus & University KG I)				
18:00	174 D9 - Connecting People to Forest Science: Innovative Communication Approaches for Delivering Science	92b T4 - Concepts and assessments of forest ecosystem services and benefits	19b D6 - The role of forests in sustainable rural development in developing countries: livelihoods and ...	205b T5 - Phloem function and dysfunction under drought	IY IFSA Youth Incubator Session A series of TED Talks
18:30					
19:00					
19:30					
20:00					
20:30					
21:00					
21:30					

UNIVERSITY					
KG I - 1199	KG I - 1224	KG I - 1228	KG I - 1231	KG II - Auditorium Maximum	KG II - 2121
108 T2 - Resilience of planted forests under global change: learning from the past preparing next generation		26 D9 - Policy learning across governance levels for durable results		139a D9 - Towards a sustainable European forest based bioeconomy	Poster Exhibition for more Details see page 200
Coffee Break (Konzerthaus & University KG I)					
164 T1 - How forest investment science can support sustainable forest management?	200 D6 - Gender, climate policy and the future of the forests	115 T3 - Recent Strategies of Tree Genomic Researches for High Value Forest Products and Sustainability ...	125 D3 - Planning methods in ensuring a continued license to practice	139b D9 - Towards a sustainable European forest based bioeconomy	
Lunch break (Mensa) and visit of the Poster Exhibition (University, KG II, HS2121)					
				LIVE STREAM	
				SP2 Innovative forest assessment and sustainable management in a changing world	
Coffee Break (Konzerthaus & University KG I)					
				More details on page 95	
77a D9 - The Global Forest Environmental Frontier - What has changed, what has remained unchanged, how will the future look like?		35 D9 - "Après Paris": global integration of forest climate governance		177a D7 - Forest Health in a Changing Climate	
Coffee Break (Konzerthaus & University KG I)					
77b D9 - The Global Forest Environmental Frontier - What has changed, what has remained ...		160 D9 - Wood based fuels for transports - conditions for their market entry and impacts on the ...		177b D7 - Forest Health in a Changing Climate	

In the series of **Science in Dialogue Sessions**, high-level speakers from various sectors will join a panel to discuss the overarching theme Challenges of sustainable development: implications for forests and forest science from their perspectives. Introductory statements will be followed by a moderated discussion with panelists, and an open discussion with the audience. The sessions will be streamed live.

These Sessions will deliver input for the IUFRO Strategy 2019 – 2024.

10:30 – 12:00 Rolf Böhme Saal (Konzerthaus Freiburg) LIVE STREAM Science in Dialogue Sessions

SID5 SID5 Science meets Science Panel Discussion

- Organized by IUFRO Special Programme Directors' Forum
- Moderator Peter Mayer, Director of Austrian Research and Training Centre for Forests, Natural Hazards and Landscape; Deputy Coordinator, IUFRO Directors' Forum, Vienna (Austria)
- Keynote Peter Holmgren, Director General, Center for International Forestry Research, Bogor (Indonesia)
- Panel
 - Mari Walls, President, Natural Resources Institute of Finland, Helsinki (Finland)
 - Carlos Rodriguez Franco, Deputy Chief for Research and Development, US Forest Service, Washington (USA)
 - Erich Schaitza, Brazilian Agricultural Research Corporation (Embrapa), Curitiba (Brazil)
 - Lee Chang-jae, President, National Institute of Forest Science (NIFoS), Seoul (Republic of Korea)
 - Daniel Ofori, Director, CSIR-Forestry Research Institute of Ghana, Kumasi (Ghana)
 - Charles Erkelens, Operations Director, International Council for Science, Paris (France)

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Sub-plenary Sessions

13:30 – 15:00 Rolf Böhme Saal (Konzerthaus Freiburg) LIVE STREAM Sub-plenary Session 1

SP1 Communicating with Einstein – about forest facts, feelings and fake news

Organizers UNECE-FAO Forest Communicators Network and IUFRO

Moderator Robert Burt, IUFRO, CANADA

"It is harder to crack a prejudice than an atom" (A Einstein) –
Why we need to communicate effectively
Kai Lintunen, Finnish Forest Association, FINLAND and Ingwald Gschwandt, Federal Ministry of Agriculture, Forestry, Environment and Water Management, AUSTRIA

"In the middle of difficulty lies opportunity" (A Einstein) –
How science and scientists have an important part to play
Jennifer Hayes, U.S. Forest Service Rocky Mountain Research Station UNITED STATES, and Yasmeen Sands, U.S. Forest Service Pacific Northwest Research Station, UNITED STATES

"Everything should be as simple as possible, but not simpler" (A Einstein) –
How and why we often get it wrong
Kai Lintunen, Finnish Forest Association FINLAND

"If you can't explain it simply, you don't understand it well enough" (A Einstein) –
How to do well, effectively
Maria de Cristofaro, FAO Forestry Department, ITALY

Question and answers

13:30 – 15:00 KG II - Auditorium Maximum (University Freiburg) LIVE STREAM Sub-plenary Session 2

SP2 Innovative forest assessment and sustainable management in a changing world

Organizers IUFRO Division 4, Forest Assessment, Modelling and Management

Moderator Jean-Luc Peyron (IUFRO Division 4 Coordinator),
Public Interest Group (GIP) on Forest Ecosystems (ECOFOR), FRANCE

SUMFOREST: A transnational research programme on innovations in sustainable and multifunctional forest management
Martin Greimel, Coordinator of ERANET Sumforest, Federal Ministry of Agriculture, Forestry, Environment and Water Management, Austria

Panel Discussion On opportunities for innovations in observation, inventory, monitoring, modelling, evaluation methods, products, processes and markets to cope with challenges facing sustainable forest management due to both the multiple impacts of human activities and changes in social demands for goods and services.

Margarida Tomé, former Coordinator of Division 4, Deputy Coordinator of Task Force
"Sustainable planted forests for a greener future" (t.b.c.)

Jerry Vanclay, Deputy Coordinator of Division 4, Chair of IUFRO World Congress Science Committee (t.b.c.)

Lidija Zadnik Stirn, Deputy Coordinator of Division 4,
Coordinator of Unit 4.05.00 "Managerial economics and accounting"

Ronald E McRoberts, Deputy Coordinator of Division 4, Coordinator of unit 4.03.00 "informatics, modelling and statistics" (t.b.c.)

Hubert Hasenhauer, Deputy Coordinator of Unit 4.01.00 "Forest mensuration and modelling"

Gherardo Chirici, Coordinator of Unit 4.02.04 "Geographic and management information systems" (t.b.c.)

Robert Marusak, Coordinator of Unit 4.04.00 "Forest management planning" (t.b.c.)

Discussion with audience participation

08:00 – 10:00 Rolf Böhme Saal (Konzerthaus)
All Division 7 (Forest Health) Meeting

- 146 D7 - Climate change and air pollution impacts on forest health status and productivity**
Organizer Augustaitis A. (Lithuania)
Chairs Badea O. (Romania)
1404 Biogenic Organic Aerosol as an indicator of the forest abiotic stress
Ulevicius V. (Lithuania)
1036 Change in Sulphur pools in forest ecosystems following the reduction of atmospheric SO₂
Prescher A. (Germany)
2344 Forest ecosystem status in the Romanian LTER sites under the air pollution and climate change stress
Badea O. (Romania)
460 Long-term impacts of ozone and climate change on forest productivity and dynamics in Switzerland: a hybrid modeling approach
Cailleret M. (Switzerland)
556 Climate change-related dieback of evergreen conifers and adaptation options
Lim J. (South Korea (ROK))
2128 The response of intra-annual stem circumference of prevailing in Lithuania tree species to meteorology and air pollution under different site condition
Augustaitis A. (Lithuania)

08:00 – 10:00 K 1 (Konzerthaus)
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions

- 2 T4 - Co-existence of human and wildlife in changing landscapes and climate**
Organizer Djagoun C. (Benin)
1601 Roles of non-protected areas for habitat of endangered Proboscis Monkey (*Nasalis larvatus*) under current land-use policy in West Kalimantan Province, Indonesia
Tutthoyyibah W. (Indonesia)
3997 Religious and ethnological forces shaping perceptions and conservation of warthog in Benin
Nago G. (Benin)
1607 Predicted Distribution of The Sunda Pangolin (*Manis javanica*) on Southeast Asia
Damiska S. (Indonesia)
906 Effectiveness of protected area in conserving the highly hunting bush meat species in Southern Benin
Chabi D. (Benin)
3870 Planning the future forests: managing for wildlife in a climate constrained landscape
Kraxner F. (Austria)

08:00 – 10:00 K 2-4 (Konzerthaus)
All Division 7 (Forest Health) Meeting

- 188a D7 - Managing pests and diseases in commercial plantations**
Organizer Ganley B. (New Zealand)
3350 A new threat for Eucalyptus plantations in Uruguay: *Teratosphaeria pseudoeucalypti* the causal agent of *Teratosphaeria* Leaf Blight
Perez C. (Uruguay)
356 Management of red needle cast caused by *Phytophthora pluvialis*
Ganley B. (New Zealand)
2302 Enhancing biological control in short rotation coppices: possibilities and limitations
Georgi R. (Germany)
2304 Biological control of *Thaumastocoris peregrinus* Carpintero and Dellappé (Heteroptera: Thaumastocoridae): towards the development of a mycoinsecticide
Simeto S. (Uruguay)
4109 *Picea abies* stump size and efficacy from treatment with *Phlebiopsis gigantea* and urea against *Heterobasidion* in Sweden
Rönnerberg J. (Sweden)
877 Productivity losses caused by *Teratosphaeria nubilosa* on *Eucalyptus globulus* and *Eucalyptus maidenii* in Uruguay
Balmelli G. (Uruguay)

08:00 – 10:00 K 5-7 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting

- 90a D4 - Advanced Methods for Measuring, Monitoring and Assessing Forests to Meet Societal Challenges**
Organizer Amateis R. (United States of America)
Chairs Tewari V. (India), Marshall P. (Canada)
1579 A comparison of annual composites versus the full temporal sequence in satellite imagery time series for forest disturbance mapping
Hislop S. (Australia)
893 Fast normalized cross correlation for *Araucaria angustifolia* detection in canopy height models derived from Aerial Laser Scanning data
Pereira J. (Germany)
3432 Determining and modeling biomass of large irregular trees in the tropics
Kleinn C. (Germany)
3479 Regional scale simulation of the forest resources evolution in Southern Belgium
Perin J. (Belgium)
3545 Long-term trends and patterns of forest disturbance dynamics in Central Europe from Landsat time series
Pflugmacher D. (Germany)
2612 Plot dimension for continuing forest inventories in the state of Amapá, Eastern Amazon, Brazil
da Silva J. (Brazil)

08:00 – 10:00 K9 (Konzerthaus)
All Division 7 (Forest Health) Meeting

122a D7 - Invasive species surveillance: New methods and tools for survey and early detection

- Organizer Sweeney J. (Canada)
Chairs Sweeney J. (Canada)
- 2441 Sentinel plantings provide early warning against alien tree pests prior to their arrival
Eschen R. (Switzerland)
- 343 Identification and Use of Pheromones in Detection and Management of Cerambycid Beetles
Millar J. (United States of America)
- 127 Factors Affecting the Efficacy of Detecting Forest Coleoptera in Traps - A Meta-Analysis
Allison J. (Canada)
- 3931 Combining lures for more effective surveillance of invasive wood borers and bark beetles
Brockhoff E. (New Zealand)
- 1869 The effect of forest landscape, trap height, trap color and lure on longhorn beetle communities detected in survey traps
Rassati D. (Italy)
- 866 Recent improvements in trapping methods for surveillance of bark and wood boring beetles
Sweeney J. (Canada)
- 3120 High catches in North America and in China show that traps and lures developed and used in Europe are efficient for detecting exotic *Monochamus* spp. vectors of *Bursaphelenchus xylophilus*
Grégoire J. (Belgium)

08:00 – 10:00 Room "Basel + Mühlhausen" (Novotel Freiburg)
Theme 2: Forests and Climate Change

302a T2 - Tropical wetlands for climate change adaptation and mitigation

- Organizer Murdiyarso D. (Indonesia)
Chairs Lilleskov E. (United States of America)
- 1520 Total and heterotrophic soil respiration as impacted by peat swamp forest conversion to oil palm plantation in Central Kalimantan, Indonesia
Hergoualc'h K. (Peru)
- 1117 Greenhouse gases emissions in restored secondary tropical peat swamp forests
Murdiyarso D. (Indonesia)
- 2040 Ecosystem productivity in response to land use change in tropical coastal peatlands
Basuki I. (Indonesia)
- 1571 Variability of hydraulic conductivity in tropical peatlands
Kurnianto S. (Indonesia)
- 2890 Is Indonesian peatland loss a cautionary tale for Peru?
Lilleskov E. (United States of America)
- 3302 Impacts on forest degradation on the carbon stocks of freshwater peatlands in the Pastaza-Marañón river basin of Peruvian Amazonia
Bhomia R. (United States of America)

- 2200 The effect of peat swamp forest degradation on greenhouse gas fluxes in the Peruvian Amazon
Van Lent J. (Indonesia)
- 2010 Ecosystem carbon stocks and emissions arising from mangrove conversions in the Mahakam Delta, East Kalimantan, Indonesia
Arifanti V. (Indonesia)

08:00 – 10:00 Room "Baden-Baden" (Novotel Freiburg)
Theme 3: Forests and Forest-Based Products for a Greener Future

105a T3 - Sustainable co-production of wood and non-wood forest products

- Organizer Mutke S. (Spain)
Chairs Chamberlain J. (United States of America), Shen H. (China)
- 2209 Scientific, technical and social challenges in compatible use of multipurpose native tree species in Northeast China
Shen H. (China)
- 793 Multipurpose trees and non-wood forest products, a challenge and opportunity for European silviculture
Sheppard J. (Germany)
- 3520 Collection and consumption of non-wood forest products in Europe
Lovic M. (Finland)
- 3278 The prospection on non-timber forest product at Brazilian Forestry Service - Brazil
Lopes L. (Brazil)
- 3866 Optimizing the joint production of pine honey and timber in Mediterranean forests
de Miguel S. (Spain)
- 2782 Discussion on several problems about the cultivation of fruit forests for Korean pine
ZHANG P. (China)
- 3834 Critical Challenges of Sustainable Production of NTFPs from Tropical Forests: Innovative Approaches to Safeguard Livelihood and Resources
Bhattacharya P. (India)

08:00 – 10:00 Room "Colmar" (Novotel Freiburg)
Theme 1: Forests for People

183a T1 - Forest Education

- Organizer Rodriguez S. (Mexico)
Chairs Lackner M. (Austria), Burns J. (Austria)
- 3504 Connecting FAO and University Educators for Effective Forestry Education
Weston C. (Australia)
- 2001 Creating the best joint educational platform in forestry - Case study: 3+2 transfer programs between UBC and partner universities in China
Zhu X. (Canada)
- 2943 Practitioners' Experiences and Perspectives on Learning and Education for Future Forestry
Pohlschneider S. (United Kingdom)

- 3387 Behavioral Event Interviews (BEI) related to skills and capabilities needed in current forest sector – results from the Global Outlook on Forest Education
Rekola M. (Finland)
- 3407 A review of Forestry Curricula in South African tertiary institutions
Mgaga P. (South Africa)
- 2471 Analysis of competences of a Forestry engineering program: A case of Colombia
Villarraga Flórez L. (Colombia)
- 3836 Swedish forestry education for the 21st century. – A case study on graduates from Swedish forestry schools.
Lundsten J. (Sweden)

**08:00 – 10:00 KG I - 1015 (University Freiburg)
All Division 6 (Social Aspects of Forests and Forestry) Meeting**

- 73 D6 - But is it representative...? Exploring the epistemological grounds of qualitative methods in forestry research**
- Organizer Bethmann S. (Germany)
- 3217 Unity and Variation. The logic of qualitative inquiry in forestry research.
Bethmann S. (Germany)
- 1524 Qualitative interviewing: a self-reflection on two decades of personal experience
Brukas V. (Sweden)
- 4090 Qualitative Research between wish and reality: the challenge of managing "imperfect" data
Berzborn S. (Germany)
- 2853 Materially engaging with the forest - Doing research on body practices in forestry
Mikoleit R. (Germany)
- 2868 Reaching out to diverse and excluded groups
O'Brien L. (United Kingdom)
- 2364 Going deeper with documents: exploring new applications for extant texts in forestry research
Siegner M. (Canada)

**08:00 – 10:00 KG I - 1098 (University Freiburg)
All Division 3 (Forest Operations Engineering and Management) Meeting**

- 168a D3 - Sustainable forest operations - A foundation of the green economy**
- Organizer Chung W. (United States of America), Marchi E. (Italy)
- 829 The "Sustainable Forest Operations" Concept: Past, Present, and Future
Marchi E. (Italy)
- 258 Forest Operations and Sustainable Supply Chains
Abbas D. (United States of America)
- 422 Ergonomics as A Pillar of Sustainable Forest Operation
Yovi E. (Indonesia)
- 574 Environmental aspects of forest operation dedicated to industrial uses
Gonzalez-Garcia S. (Spain)
- 3608 Green logistics and multi-criteria optimization in biomass supply - methods and challenges: A review
Kanzian C. (Austria)
- 3318 Development of forest biomass harvesting guidelines based on assessing changes in soil nutrient status
de Vries W. (Netherlands)

**08:00 – 10:00 KG I - 1199 (University Freiburg)
Theme 2: Forests and Climate Change**

- 108 T2 - Resilience of planted forests under global change : learning from the past – preparing next generation**
- Organizer Orazio C. (France)
- 2884 Evaluating forest species response to different climate conditions using REINFFORCE arboreta network
Correia A. (Portugal)

**08:00 – 10:00 KG I - 1009 (University Freiburg)
Theme 5: Forests, Soil and Water Interactions**

- 131 T5 - Exploring the contribution of the tree-soil metagenomes to forest resilience**
- Organizer Seguin A. (Canada)
- 285 Soil microbiome biology for healthy forests: An introductory talk.
Seguin A. (Canada)
- 1788 A decade of irrigation transforms the soil microbiome of a water-limited pine forest
Hartmann M. (Switzerland)
- 2051 The phylogenetic and functional composition of forest soil ecosystems may be more susceptible to shifts in climate than land use
Wakelin S. (New Zealand)
- 2244 Bringing a microbial dimension to the management of current and future forests
Smaill S. (New Zealand)

**08:00 – 10:00 KG I - 1010 (University Freiburg)
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions**

- 9a T4 - IUFRO Task Force on Biological Invasions in Forests**
- Organizer Liebhold A. (United States of America)
- 135 Biological Invasions in Forests: A Global Threat
Liebhold A. (United States of America)
- 2607 Biotic resistance in forest ecosystems
Fei S. (United States of America)
- 2895 Everything you always wanted to know about classical biological control against forest pests (but were afraid to ask)
Kenis M. (Switzerland)
- 884 Are non-native forest insects recently established in Europe spreading faster than before?
Roques A. (France)
- 3296 Country regulations of non-native tree species in Europe
Pötzelberger E. (Austria)
- 1475 From climate change to new diseases
Santini A. (Italy)

- 3162 Site selection and silvicultural management systems for sustainable plantations in dry and drying climates
Harper R. (Australia)
- 749 Academia, NGOs, private and public forest sectors - what proposal for the new generation?
Neves Silva L. (Switzerland)
- 2223 Investments in planted forests in southern Europe: an ex-post estimation of returns over the last 15 years
Pra A. (Italy)
- 1672 Building climate resilient coastal forests applying assessment of vulnerability to climate change and livelihoods of local people
Al-Amin M. (Bangladesh)
Panel Discussion

- 511 Economic sustainability in European forest bioeconomy: prospects and challenges?
Toppinen A. (Finland)
- 1273 Outlook for forest-based bioeconomy in Europe
Hetemäki L. (Finland)

10:30 – 12:00 Rolf Böhme Saal (Konzerthaus) Science in Dialogue Sessions **LIVE STREAM**

SID5 Science meets Science Panel Discussion

10:30 – 12:00 K 1 (Konzerthaus) All Division 7 (Forest Health) Meeting

136 D7 - Hierarchical modelling framework to quantify and forecast climate change and air pollution impacts on forest ecosystems

- Organizer De Marco A. (Italy)
- Chairs Sicard P. (France)
- 1330 Ozone-induced stomatal sluggishness changes carbon and water balance of temperate deciduous forests
Hoshika Y. (Italy)
- 1236 Increased cumulative O3 uptake accelerates autumn senescence in an O3-sensitive beech forest with use of CO2 flux monitoring data
Koike T. (Japan)
- 3796 Reaction patterns of *Fagus sylvatica* L. and *Picea abies* Karst. in Switzerland to various environmental factors derived from growth data
Braun S. (Switzerland)
- 69 Modelling long-term impacts of changes in climate, nitrogen deposition and ozone exposure on carbon sequestration of European forest ecosystems
de Vries W. (Netherlands)

10:30 – 12:00 K 2-4 (Konzerthaus) All Division 7 (Forest Health) Meeting

188b D7 - Managing pests and diseases in commercial plantations

- Organizer Ganley B. (New Zealand)
- 3314 The eucalyptus weevil *Gonipterus* spp. - semiochemicals with monitoring and control potential
Paiva M. (Portugal)
- 785 Deep planting benefits Norway spruce seedlings
Viiri H. (Finland)
- 2505 Biological control of the Eucalyptus bronze bug *Thaumastocoris peregrinus* with *Cleruchoides noackae*: setting up the rearing system
Martínez G. (Uruguay)
- 3152 Heterobasidion And Armillaria Root And Stem Rot Diseases In Turkish Forests
Beram R. (Turkey)
- 3369 Current status of forest plantation health in Colombia
Rodas C. (Colombia)

08:00 – 10:00 KG I - 1228 (University Freiburg) All Division 9 (Forest Policy and Economics) Meeting

26 D9 - Policy learning across governance levels for durable results

- Organizer Nathan I. (Denmark)
- 2775 Towards durable solutions in sustainable forest management: A reflexive overview on the pilot application of a policy learning protocol to legality verification and community rights in Peru
Humphreys D. (United Kingdom)
- 673 Moving beyond forest governance in silos in the Democratic Republic of Congo
Wardell D. (France)
- 1392 Policy learning through access to information - a case study of non-state regulatory authority and transparency through REDD+ and FLEGT/VPA implementation in Cameroon
Carodenuo S. (Germany)
- 4098 Seducing the already seduced? The potential of soft-governance instruments and processes for making the forestry sector more competitive through gender equality
Appelstrand M. (Sweden)
- 1893 Do policy actors learn through forward-thinking? Conflict and cooperation relating to sustainable forest management in Germany
Sotirov M. (Germany)
- 2720 Venue shopping or policy learning? Chinese enterprises' responses to international legality requirements
Nathan I. (Denmark)
- 3382 Setting up a Durable Policy: Challenges and Opportunities for China's Forestry Trade Policy
Chen X. (China)

08:00 – 10:00 KG II - Auditorium Maximum (University Freiburg) All Division 9 (Forest Policy and Economics) Meeting

139a D9 - Towards a sustainable European forest based bioeconomy

- Organizer Winkel G. (Germany)
- 1799 Bioeconomy- the political framework
Puelzl H. (Austria)
- 3140 The environmental dimension of a European forest based bio-economy
Nabuurs G. (Netherlands)
- 3998 The social dimension of a sustainable European forest based bioeconomy
Winkel G. (Germany)

**10:30 – 12:00 K 5-7 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

- 90b D4 - Advanced Methods for Measuring, Monitoring and Assessing Forests to Meet Societal Challenges**
- Organizer Amateis R. (United States of America)
- Chairs Tewari V. (India), Marshall P. (Canada)
- 215 Forest Observational Studies - an Essential National Green Infrastructure for measuring & monitoring forest ecosystem dynamics and climate change impacts
Tewari V. (India)
- 856 Balancing timber mobilization and biodiversity conservation in mixed broadleaf-conifer forests: an inventory-based scenario analysis
Temperli C. (Switzerland)
- 3052 Multipurpose long term monitoring study on thinning intensity of major coniferous plantations in the Republic of Korea
Seo Y. (South Korea (ROK))
- 3284 Combined usage of Terrestrial Laser Scanner (TLS) and Drone as an effective tool for forest parameters extraction
Papalampros L. (Greece)
- 3666 Measuring canopy cover, upper layer tree crowns and determining canopy gaps' properties with UAV in "Izvoarele Nerei" Reserve, Romania
Banu T. (Romania)

**10:30 – 12:00 K 8 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

- 36 D4 - Interactions of Global Forest Resources and Climate**
- Organizer Yousefpour R. (Germany)
- Chairs Naudts K. (Germany)
- 3036 The Effect of Technological Change on Forest Carbon Fluxes: Massive Timber Construction and Genetically-enhanced Species
van Kooten G. (Canada)
- 3930 Impact of age-dependent harvest in land-surface models
Naudts K. (Germany)
- 2673 Impact of climate change mitigation on the global woody biomass use in 2010-2100
Lauri P. (Austria)
- 2734 Impact of forest management regimes on forest carbon cycling and other ecosystem processes in Europe
Metzger C. (Germany)
- 3079 Model meets data: Challenges and opportunities to implement land management in Earth system models
Naudts K. (Germany)
- 3624 Global Forest Resources Utilization by Adapting Sustained Yield Harvesting to Future Climate Change
Yousefpour R. (Germany)

**10:30 – 12:00 K9 (Konzerthaus)
All Division 7 (Forest Health) Meeting**

- 122b D7 - Invasive species surveillance: New methods and tools for survey and early detection**
- Organizer Sweeney J. (Canada)
- Chairs Rassati D. (Italy)
- 1853 Biosurveillance of Alien Forest Enemies (bioSAFE) - creating new genomic tools to meet the challenges posed by forest alien invasives
Roe A. (Canada)
- 1441 Portable LAMP (loop mediated isothermal amplification): a new molecular assay to detect Phytophthora ramorum
Aglietti C. (Italy)
- 3773 Spore trapping and high throughput molecular detection approaches for forest pathogens.
Stenlid J. (Sweden)
- 1438 Scent detection dogs for detection of trees infested by Asian longhorned beetle
Hoch G. (Austria)
- 3586 Use of the KORINA-App for engaging citizens and agencies in detection of invasive plant species in Saxony-Anhalt, Germany
Schneider K. (Germany)
- 1055 Finding a needle in a haystack - how to detect harmful new organisms on trees
Forster B. (Switzerland)

**10:30 – 12:00 Room "Basel + Mühlhausen" (Novotel Freiburg)
Theme 2: Forests and Climate Change**

- 302b T2 - Tropical wetlands for climate change adaptation and mitigation**
- Organizer Murdiyarto D. (Indonesia)
- Chairs Lilleskov E. (United States of America)
- 3008 Carbon Stocks of Mangroves on Two Large River Deltas in East Africa
Trettin C. (United States of America)
- 2327 Impacts of land use on mangrove carbon stocks and greenhouse gas fluxes
Mackenzie R. (United States of America)
- 2379 A global analysis of mangrove ecosystem carbon stocks along broad environmental gradients: results from the SWAMP mangrove plot network
Kauffman J. (United States of America)
- 2888 Mapping approaches for developing regional estimates of tropical wetland extent, carbon storage, and degradation
Hribljan J. (United States of America)

**10:30 – 12:00 Room "Baden-Baden" (Novotel Freiburg)
Theme 3: Forests and Forest-Based Products for a Greener Future**

- 105b T3 - Sustainable co-production of wood and non-wood forest products**
 Organizer Mutke S. (Spain)
 Chairs Chamberlain J. (United States of America), Shen H. (China)
 3984 The potential of Wild Forest Products - a Multi Criteria Analysis across six European case studies
Huber P. (Austria)
 639 Co-Managing Forests for Wood and Non-Wood: Integrating food and medicinal products with timber production for rural people in North America.
Chamberlain J. (United States of America)
 Panel Discussion

**10:30 – 12:00 Room "Colmar" (Novotel Freiburg)
Theme 1: Forests for People**

- 183b T1 - Forest Education**
 Organizer Rodriguez S. (Mexico)
 Chairs Lackner M. (Austria), Burns J. (Austria)
 3607 Planned educational infrastructure in Kutno Forest District (Poland)
Blasiak A. (Poland)
 1546 The De-Evolution of Forestry Education at Research Universities
O'Hara K. (United States of America)
 1525 Adapting forestry education in New Zealand to a changing environment
Manley B. (New Zealand)

**10:30 – 12:00 KG I - 1010 (University Freiburg)
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions**

- 9b T4 - IUFRO Task Force on Biological Invasions in Forests**
 Organizer Liebhold A. (United States of America)
 4033 Evaluating the invasion potential of non-native tree species in Europe
Wohlgemuth T. (Switzerland)
 2830 Insights into the invasiveness of eucalypts - the particular case of *Eucalyptus globulus*
Silva J. (Portugal)
 176 Assessment of invasiveness of introduced tree species in Europe
Bindewald A. (Germany)
 2021 Douglas-fir as a plantation tree in New Zealand - invasion potential meets forest management
Paul T. (New Zealand)
 1442 Invasion patterns and ecological impacts of an exotic herbivore - emerald ash borer in North American forests
J.K. Gandhi K. (United States of America)

**10:30 – 12:00 KG I - 1098 (University Freiburg)
All Division 3 (Forest Operations Engineering and Management) Meeting**

- 168b D3 - Sustainable forest operations - A foundation of the green economy**
 Organizer Chung W. (United States of America), Marchi E. (Italy)
 1257 Influence of soil compaction on *Quercus robur* seedlings establishment
Mariotti B. (Italy)
 1275 Benchmarking of Cost Rates in Forest Harvesting Operations in Different Global Regions
Di Fulvio F. (Austria)
 1732 Life Cycle Analysis of thermal use of woodchips from conifer thinnings considering delivered heat (MWh) as functional unit: A case-study from a logistic terminal close to Madrid (Spain).
Tolosana E. (Spain)
 3246 Photogrammetry estimation of wheel ruts dimension and soil compaction caused by a forwarder.
Marra E. (Italy)

**10:30 – 12:00 KG I - Aula (University Freiburg)
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions**

- 93 T4 - Silviculture for non-wood ecosystem services**
 Organizer Skovsgaard J. (Sweden)
 Chairs Peyron J. (France), Sievänen T. (Finland), Kleinschmit D. (Germany)
 333 Comparing supply and demand of forest ecosystem services for urban and rural forests
Meyer M. (Germany)
 2472 A pre-commercial thinning intervention designed to reduce impacts on wildlife habitat while reaching timber production objectives more cost-effectively
Soucy M. (Canada)
 3294 Mycosilviculture: managing forests for the provision of fungal ecosystem services
de Miguel S. (Spain)
 1148 Assessing the Non timber forest products in tropical forest: case of study Imataca forest reserve Venezuela
Gutiérrez N. (Venezuela)

**10:30 – 12:00 KG I - 1199 (University Freiburg)
Theme 1: Forests for People**

- 164 T1 - How forest investment science can support sustainable forest management?**
 Organizer Siry J. (United States of America)
 1513 Origins and Sustainability of Institutional Timberland Investing
Caulfield J. (United States of America)
 1727 Timberland investing and forest conservation and sustainability
Morales Olmos V. (Uruguay)
 2386 Achieving Forest Sustainability from an Operator's Perspective
Thomas M. (United States of America)
 2688 A Lender's Perspective on Forest Investments
Schlesinger R. (United States of America)
 1542 Educating timberland investment professionals
Izlar B. (United States of America)

**10:30 – 12:00 KG I - 1224 (University Freiburg)
All Division 6 (Social Aspects of Forests and Forestry) Meeting**

- 200 D6 - Gender, climate policy and the future of the forests**
 Organizer Arora-Jonsson S. (Sweden)
 Chairs Westholm L. (Sweden)
- 284 Gender norms and gendered impacts of oil palm conversion in Indonesia: Challenging private sector commitments to climate change mitigation
Sijapati Basnett B. (Indonesia)
- 2496 Gender Perspectives in Local Nature Protection Initiatives: Experiences from Sweden
Eckerberg K. (Sweden)
- 694 Gender, climate and forest governance in Canada
Reed M. (Canada)
- 754 New types of private forest owners: Understanding female forest owner behaviour towards Climate Change Adaptation
Pröbstl-Haider U. (Austria)
 Panel Discussion

**10:30 – 12:00 KG I - 1228 (University Freiburg)
Theme 3: Forests and Forest-Based Products for a Greener Future**

- 115 T3 - Recent Strategies of Tree Genomic Researches for High Value Forest Products and Sustainability of Forest Ecosystems under Climate Change**
 Organizer Park E. (South Korea (ROK))
 Chairs Fladung M. (Germany)
- 1168 Managing Agroforestry Interventions in Tanzania: A Descriptive Analysis
Milanzi M. (Tanzania)
- 3232 Application of NGS to develop molecular markers for monitoring and selection purposes in the context of climate change
Kersten B. (Germany)
- 277 An economic framework for forest genomics research and development in North America
Porth I. (Canada)
- 102 Functional Genomics of High-Value Bioproducts in Tropical Sandalwood
Bohlmann J. (Canada)
 Panel Discussion

**10:30 – 12:00 KG I - 1231 (University Freiburg)
All Division 3 (Forest Operations Engineering and Management) Meeting**

- 125 D3 - Planning methods in ensuring a continued license to practice**
 Organizer Talbot B. (Norway)
 Chairs Seeling U. (Germany)
- 2270 Wet area maps for efficient planning and risk mitigation for mechanized logging operations on French mineral soils
Vuillermoz M. (France)
- 2762 Harvester CAN-bus data for site trafficability mapping
Ala-Illomäki J. (Finland)
- 534 "Waterproof" harvesting with GIS in the Swedish forestry
Friberg G. (Sweden)
- 2705 Optimized Routing in Forestry with the Consideration of Multiple Economical and Ecological Objectives
Hosseini A. (Sweden)
- 3409 Soil strength in relation to moisture content in fine-grained mineral forest soils in southern Finland
Uusitalo J. (Finland)

**10:30 – 12:00 KG II - Auditorium Maximum (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting**

- 139b D9 - Towards a sustainable European forest based bioeconomy**
 Organizer Winkel G. (Germany)
- 1795 The impact of increased EU bioenergy demand on the use of woody biomass for material and energy
Korosuo A. (Austria)
- 465 Climate change mitigation challenge for wood utilization - the case of Finland
Valsta L. (Finland)
- 3096 Social sustainability and multiple-use of forests in Finnish bioeconomy
Tokola N. (Finland)
- 3934 Assumptions on forest owner behavior and their implications for ecosystem service provisioning
Eriksson L. (Sweden)
- 3180 Looking at bioeconomy from different perspectives: technological and social innovation approaches
Pettenella D. (Italy)
 Panel Discussion

**12:45– 13:30 KG I - 1015 (University Freiburg)
Side Events**

- BL 1 Book Launch: A History of IUFRO Congresses, Forest Research and Russia's Participation**
 Organizer Teplyakov V. (Russian Federation), Shalaev V. (Russian Federation)

13:30 – 15:00 Rolf Böhme Saal (Konzerthaus) Sub-plenary Sessions LIVE STREAM

- SP1 Communicating with Einstein – about forest facts, feelings and fake news**
 UNECE-FAO Forest Communicators' Network and IUFRO
- Organizer Moderator: Burt R. (Canada)
- 4204 Introduction and historic video recording of an interview with Albert Einstein
Burt R. (Canada)
- 4205 'It is harder to crack a prejudice than an atom' (A. Einstein) - Why we need to communicate effectively
Geschwandtl I. (Austria), Lintunen K. (Finland)
- 4206 'In the middle of difficulty lies opportunity' (A. Einstein) - How science and scientists have an important part to play
Hayes J., Sands Y. (United States of America)
- 4207 'Everything should be as simple as possible, but not simpler' (A. Einstein) - How and why we often get it wrong
Lintunen K. (Finland)
- 4208 'If you can't explain it simply, you don't understand it well enough' (A. Einstein) - How to do well, effectively
de Cristofaro M. (Italy)

13:30 – 15:00 KG II - Auditorium Maximum (University Freiburg) Sub-plenary Sessions LIVE STREAM

- SP2 Innovative forest assessment and sustainable management in a changing world**
 IUFRO Division 4, Forest Assessment, Modelling and Management
- Organizer Moderator: Peyron J. (France)

15:30 – 17:30 Rolf Böhme Saal (Konzerthaus) All Division 3 (Forest Operations Engineering and Management) Meeting

- 121a D3 - Reforestation challenges: planting material, ecophysiology, biodiversity, climate change mitigation and adaptation, and disaster risk reduction**
- Organizer Ivetic V. (Serbia)
- Chairs Haase D. (United States of America), Saksa T. (Finland)
- 2916 Impact of Light and Moisture on the Survival and Development of Planted Pacific Northwest Timber Species
Aghai M. (United States of America)
- 788 Cultivation of containerized forest planting material in Sweden - state-of-the-art and future technology
Mattsson A. (Sweden)
- 2855 Possibilities in using different light qualities in modifying growth and morphology of Scots pine seedlings under nursery conditions
Riikonen J. (Finland)
- 4169 The Effects of Varying Light and Rhizosphere Moisture on Early Growth and Development of Pacific Northwest Timber Species
Moskowitz O. (United States of America)
- 3881 The economic and social consequences of introduced tree species silviculture - in the case of Douglas fir, red oak and black locust in Central Europe
Gruchala A. (Poland)

- 1333 Direct Seeding in Reforestation - A Field Performance Review
Ivetic V. (Serbia)
- 3918 Importance of Developing and Supporting Quality Nursery Facilities and Staff to Meet Reforestation Needs
Haase D. (United States of America)

15:30 – 17:30 K 2-4 (Konzerthaus) All Division 4 (Forest Assessment, Modelling and Management) Meeting

- 197a D4 - Ecosystem services and the well-being of forest-dependent communities: enhancing social innovation and building resilience to global changes in remote rural areas**
- Organizer Nijnik M. (United Kingdom)
- Chairs Melnykovich M. (Ukraine)
- 3911 Assessing social innovation and its impacts in forest dependent communities: a preliminary methodological framework
Secco L. (Italy)
- 3309 Integrating of Forest Ecosystem Services into Climate Change Adaptation Plan: A Case Study of Nepal
Khadka C. (Czech Republic)
- 2020 Can Carbon Offset Trading Promote Economic Development in Rural Communities?
van Kooten G. (Canada)
- 610 Identifying Green Energy Options for the Ukrainian Carpathians
Björnsen Gurung A. (Switzerland)
- 1092 Building capacities for sustainability of local communities in marginalized rural areas: lessons learnt in the Ukraine's Carpathians and Scotland's uplands
Melnykovich M. (Ukraine)
- 2050 Social Innovation: key for forest recreation infrastructure provisioning?
Wilkes-Allemann J. (Switzerland)
- 1040 Assessing forest policy options through an improved understanding of the attitudes prevailing in forest-dependent communities and building resilience in the Ukraine's Carpathians
Kopiy S. (Ukraine)

15:30 – 17:45 K 5-7 (Konzerthaus) All Division 7 (Forest Health) Meeting

- 57 D7 - Invasive Alien Species and International Trade - Detection Prior to Introduction, Measures and Policy for Mitigation**
- Organizer Eschen R. (Switzerland)
- Chairs Woodward S. (United Kingdom), Vannini A. (Italy)
- 882 Identification of potentially invasive pests through sentinel plantings and surveys in botanical gardens: A manual for assessing insect and pathogen damage proposed by the COST Action "Global Warning"
Roques A. (France)
- 2909 Sentinel nurseries as tools for pathway risk assessment: insects found on Chinese woody plants commonly shipped to Europe
Kenis M. (Switzerland)
- 1824 Sentinel nurseries, plantations and arboreta, different approaches to tackle potential invasive plant pathogens before they move from their area of origin: the study case of China.
Vannini A. (Italy)

- 2721 An overview of national regulations for sentinel plantings
Grégoire J. (Belgium)
- 1518 Sentinel arboreta as 'bridge environment' to study novel host-pathogens interactions and detect potentially alien plant pathogens
Vannini A. (Italy)
- 1213 Improved sampling of pests in traded seeds and seeds from botanical gardens
Franic I. (Switzerland)
- 1981 Why a regional approach to management of forest pests and diseases in Eastern Africa?
Gichora M. (Kenya)
- 1471 Population diversity and dynamics of the Asian Longhorned beetle *Anoplophora glabripennis* within invasive outbreaks
Tsykun T. (Switzerland)
- 2907 Determinants of global variation in habitat susceptibility to insect invasions
Liebhold A. (United States of America)

**15:30 – 17:30 Room "Basel + Mühldhausen" (Novotel Freiburg)
Theme 3: Forests and Forest-Based Products for a Greener Future**

- 94a T3 - Ecologically-based silviculture**
- Organizer Skovsgaard J. (Sweden)
 - Chairs El-Kassaby Y. (Canada)
 - 3831 Changing stand structures in plantations: a very large challenge
Dupont-Leduc L. (Canada)
 - 4107 Evaluating structural, compositional and economic tradeoffs of ecologically-based silvicultural approaches in mixed-species forests of the Mississippi River floodplain
Frey B. (United States of America)
 - 3897 Understanding growth: scaling production ecology from trees to stands
Fernandez-Tschieder E. (United States of America)
 - 439 The temporal dynamics of net primary production of loblolly pine plantations in the southern United States
Zhao D. (United States of America)

**15:30 – 17:30 Room "Baden-Baden" (Novotel Freiburg)
Theme 2: Forests and Climate Change**

- 190 T2 - Climate change and forest health: insights from the IUFRO Task Force**
- Organizer Paoletti E. (Italy)
 - 1000 Are forest disturbances amplifying or cancelling out climate change-induced productivity changes in European forests?
Reyer C. (Germany)
 - 3022 Climatic influences on tree-killing bark beetles: A comparison of North American and European species
Bentz B. (United States of America)
 - 3351 A 30 year, acid deposition and climate change field experiment on high-elevation spruce-fir forest structure and function
McNulty S. (United States of America)
 - 1881 New development in modelling impacts of ozone and climate change on forests
De Marco A. (Italy)
 - 2439 Water starvation impacts faster and more severely phenology and growth than carbon starvation in ten years old beech trees.
Massonnet C. (France)
 - 4041 Tree growth patterns and water relations in beech, spruce, pine and oak trees across Switzerland
Etzold S. (Switzerland)
 - 1078 Multi-scale drivers of forest disturbances across European temperate forests
Senf C. (Germany)

**15:30 – 17:30 K9 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

- 29a D4 - Integrating climate change, disturbances and diversity effects into growth models: from understanding ecological processes to predicting forest growth and yield**
- Organizer Schneider R. (Canada)
 - Chairs Albrecht A. (Germany)
 - 2049 Tree allometric relationships for structurally and species diverse forests
Forrester D. (Switzerland)
 - 2126 Effects of Diversity and Competition on Individual Tree Growth and Productivity Evidence from two Species-rich Afrotropical Forests
Seifert T. (Germany)
 - 3860 Modelling the growth and yield of mixed-species stands with the Tree and Stand Simulator (TASS)
Belle Statland C. (Canada)
 - 105 A copula-based stochastic individual tree growth model for mixed species Acadian Forests
Kershaw J. (Canada)
 - 1215 Scenario analyses of the transition to close-to-nature mountain forest management from the perspective of climate change
Hilmers T. (Germany)
 - 1032 Stability of tree increment to episodic drought in uneven-aged, mixed stands
Danescu A. (Germany)
 - 1051 Predicting future harvesting potential in Switzerland: evaluation of a new climate-sensitive growth function in the scenario model Massimo
Stadelmann G. (Switzerland)

15:30 – 17:30 Room "Colmar" (Novotel Freiburg)
Theme 1: Forests for People

- 301a T1 - Enhancing Forest Education through Regional Cooperation**
- Organizer Zeng M. (Canada)
- Chairs Innes J. (Canada), Wang G. (Canada)
- 2000 Forestry Education in Asia-Pacific Region: Challenges and Opportunities
Innes J. (Canada)
- 2635 Student Mobility and Faculty Exchange Based on Joint Undergraduate Program of BFU and UBC
Lin Y. (China)
- 2911 Facing the Challenge of Internationalization: UPLB's Initiatives in Forestry Education and Research
Pulhin J. (Philippines)
- 3347 Forestry education collaboration across national borders - opportunities and challenges
Weston C. (Australia)
- 2849 International cooperation for tropical forestry education partnership towards 21st century
Pipatwattanakul D. (Thailand)

15:30 – 17:30 KG I - 1009 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting

- 63 D9 - Forests for the Health of the People**
- Organizer Kleinschmit D. (Germany)
- Chairs Selter A. (Germany)
- 3123 Forests, meadows or vineyards? Results of landscape effects on human health in the Wienerwald Biosphere Reserve
Arnberger A. (Austria)
- 2993 How can forests contribute to restoration and what kind of forest is best suited to foster restoration and wellbeing?
Bauer N. (Switzerland)
- 291 Management effectiveness of Secondary coniferous forests on Landscape appreciation and Psychological Restorativeness
Takayama N. (Japan)
- 3165 The meaning of wilderness: emotional mapping in the Black Forest National Park
Ensinger K. (Germany)
- 3753 Forest related art of leisure - concepts in history and presence
Selter A. (Germany)
- Panel Discussion

15:30 – 17:30 KG I - 1010 (University Freiburg)
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions

- 92a T4 - Concepts and assessments of forest ecosystem services and benefits**
- Organizer Meyer M. (Germany)
- Chairs Schulz C. (Germany)
- 1658 Trade-offs and synergies among multiple ecosystem services under future oil palm expansion scenarios in Indonesia
Pacheco P. (Indonesia)
- 807 Quantifying and understanding spatio-temporal ecosystem services interactions in transformed forest landscapes: insights from a Patagonian biodiversity hotspot
Locher-Krause K. (Germany)
- 455 Approaches and methods for ecosystem services assessment in the North of Portugal: from supply modeling to land management optimization
Azevedo J. (Portugal)
- 3339 Afforested Plantations Alter Ecosystem Services in Pampas Grasslands in Argentina
Phifer C. (United States of America)
- 1269 Backcasting future states to match supply and demand for ecosystem services in Slovakian regions of Podpolanie and Kysuce
Smrecek R. (Slovakia)
- 1664 Silviculture, Climate Change and Ecosystem Service Provision. Simulation Studies in Two Contrasting German Forest Landscapes
Poschenrieder W. (Germany)

15:30 – 17:30 KG I - 1015 (University Freiburg)
All Division 6 (Social Aspects of Forests and Forestry) Meeting

- 19a D6 - The role of forests in sustainable rural development in developing countries: livelihoods and quality of life**
- Organizer Diaz-Maroto I. (Spain)
- 2894 Changes in the ecosystem services obtainable in native forests: economic evaluation
Ignacio J. D. (Spain)
- 806 Examining the role of markets in non-timber forest products and the implications for climate change adaptation in Uganda
Tumuheirwe Kakooko Ndyomugenyi E. (Uganda)
- 3880 Land use planning tools for forest and rural development in Delta del Paraná
Fernandez E. (Argentina)
- 3723 Supporting sustainable development and responsible forest management by giving forest communities new tools to access benefits from ecosystem services and ecosystem service markets
Henschel C. (Germany)
- 1676 The impact of forest plantations on the household's access to natural forests and farmland in East Africa
Ingram V. (Netherlands)
- 1989 The role of natural forests in the sustainable development of rural communities
Ignacio J. D. (Spain)

15:30 – 17:30 **KG I - 1098 (University Freiburg)**
Theme 5: Forests, Soil and Water Interactions

- 205a T5 - Phloem function and dysfunction under drought**
- Organizer Epron D. (France)
- Chairs Dannoura M. (Japan), Hölttä T. (Finland)
- 1391 Long-term effects of repeated summer drought on phloem functionality in adult trees
Grams T. (Germany)
- 1733 Effect of phloem transport disruption during lethal drought on plant carbon-source and sink activity.
Salmon Y. (Finland)
- 1791 13 CO₂ pulse labelling experiment reveals phloem function impairment in young beech trees subjected to severe drought
Desalme D. (France)
- 1624 Differences in phloem anatomy alters its function under drought stress
Dannoura M. (Japan)
- 3067 Phloem function and physiological mechanisms of sapling survival and mortality during drought
Ishida A. (Japan)

15:30 – 17:30 **KG I - Aula (University Freiburg)**
Theme 3: Forests and Forest-Based Products for a Greener Future

- 303 T3 - Research Advances for the Meliaceae**
- Organizer Ward S. (Puerto Rico)
- 3263 Patterns of pollen- and seed-mediated gene flow in three rain forest timber species from the Entandrophagma genus (Meliaceae)
Park E. (South Korea (ROK))
- 1110 Selection of seed sources – a crucial factor for effective conservation of genetic resources of Melia Dubia
Warrier R. (India)
- 2604 Survival and growth of mahogany (*Swietenia macrophylla*) 20 years after planting in Mexico's community forests: effects of silvicultural treatments
Snook L. (Italy)
- 185 Genetic trials of mahogany and Spanish cedar in Quintana Roo, Mexico after almost 20 years
Ward S. (Puerto Rico)

15:30 – 17:30 **KG I - 1199 (University Freiburg)**
All Division 9 (Forest Policy and Economics) Meeting

- 77a D9 - The Global Forest Environmental Frontier - What has changed, what has remained unchanged, how will the future look like?**
- Organizer Winkel G. (Germany)
- Chairs Sotirov M. (Germany), Moseley C. (United States of America)
- 3858 The Climate Change Frontier: Power and Politics in Forest-based Adaptation and Mitigation, and a Green Economy
Brockhaus M. (Finland)
- 2881 The Bioeconomy Frontier
Puelzl H. (Austria)
- 2039 Forest-Community Relationships in the Age of Collaboration
Moseley C. (United States of America)
- 1238 The Forest Environmental Frontier in Australia and New Zealand
Edwards P. (New Zealand)
- 1001 Using international environmental governance interventions as a tool of territorialisation: the case of FLEGT and REDD+ in Laos
Ramcilovic-Suominen S. (Finland)

15:30 – 17:30 **KG I - 1228 (University Freiburg)**
All Division 9 (Forest Policy and Economics) Meeting

- 35 D9 - "Après Paris": global integration of forest climate governance**
- Organizer Reinecke S. (Germany)
- Chairs Partzsch L. (Germany)
- 1954 Concerting climate action on forests: the role of non-state actors
Reinecke S. (Germany)
- 413 Non-State Circulation in Forest and Climate Change Governance: the Case of the FLEGT-REDD+ Linkages
Montouroy Y. (Guadeloupe)
- 3680 Thinking beyond the Paris conference: the importance of understanding the North-South cooperation context on climate change in the Congo Basin
Nago Zeufack M. (Germany)
- 977 Sustainable biofuels: Opportunities and challenges of polycentrism in global governance
Partzsch L. (Germany)
- 3960 Greening supply chain of leather: Opportunities and challenges of involving smallholder farmers in zero deforestation economy
Mammadova A. (Italy)
- Panel Discussion

**15:30 – 17:30 KG II - Auditorium Maximum (University Freiburg)
All Division 7 (Forest Health) Meeting**

- 177a D7 - Forest Health in a Changing Climate**
- Organizer Fettig C. (United States of America)
- Chairs Delb H. (Germany)
- 3324 The Scientific Basis of Climate Change and the Observed Impacts and Risks on Forests and Watersheds across National Forest System Lands in the United States
Levinson D. (United States of America)
- 3908 Hotter Drought Effects on Forests – Emerging Global Patterns of Forest Stress, Disturbance, and Mortality
Allen C. (United States of America)
- 231 Changing disturbance regimes and their impact on the climate regulating function of forests
Thom D. (Austria)
- 1517 Tree mortality during drought: the biotic connection
Kolb T. (United States of America)
- 3288 Rapid phenological changes in foliar chemistry impact gypsy moth performance: Implications to altered synchrony induced by warming climate
Raffa K. (United States of America)
- 2887 Health and growth of *Betula pendula* trees under the changing climate in Lithuania
Araminiene V. (Lithuania)

**18:00 – 19:30 Rolf Böhme Saal (Konzerthaus)
All Division 3 (Forest Operations Engineering and Management) Meeting**

- 121b D3 - Reforestation challenges: planting material, ecophysiology, biodiversity, climate change mitigation and adaptation, and disaster risk reduction**
- Organizer Ivetic V. (Serbia)
- Chairs Haase D. (United States of America), Saksa T. (Finland)
- 2142 Scots pine (*Pinus sylvestris* L.) growth response to variable environmental conditions in Poland
Kowalczyk J. (Poland)
- 1043 Prospects for restoration of degraded landscapes within the Yavoriv sulphur quarry (Ukraine) through woodland development.
Kopiy S. (Ukraine)
- 1274 Control of forest reproductive material in the Single European Market
Konnert M. (Germany)
- 1045 Reforestation challenges on fine-textured soils in boreal forest
Saksa T. (Finland)

**18:00 – 19:30 K 1 (Konzerthaus)
All Division 7 (Forest Health) Meeting**

- 191 D7 - Nitrogen deposition: spatial-temporal change and ecological impacts**
- Organizer Du E. (China)
- 427 Inorganic nitrogen deposition to forest ecosystems in Europe – spatial patterns and temporal changes in the past 15 years
Schmitz A. (Germany)
- 2639 Response of temperate forest N status to long-term recovery from acidification and decreasing atmospheric N deposition
Verstraeten A. (Belgium)
- 404 Integrating species composition and leaf nitrogen content to indicate effects of nitrogen deposition
Du E. (China)

**18:00 – 19:30 K 2-4 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

- 197b D4 - Ecosystem services and the well-being of forest-dependent communities: enhancing social innovation and building resilience to global changes in remote rural areas**
- Organizer Nijnik M. (United Kingdom)
- Chairs Melnykovich M. (Ukraine)
- 1360 Social innovation in the Welsh Woodlands: the case of community efforts in woodland-based Third-Sector engagement
Ludvig A. (Germany)
- 4086 Social innovation, forest ecosystem services and sustainable agriculture: tensions and synergies around the valorisation of Guadeloupean forest (FWI)
Barlagne C. (United Kingdom)
- 1011 Benefits and Perceptions of Forests: The Case of Rural People in Bago Yoma, Myanmar
Soe K. (South Korea (ROK))
- 3267 Biodiversity and ecosystem services in a rural to urban forested watershed near Mexico City
Gonzalez-Martinez T. (Mexico)

**18:00 – 19:30 K 8 (Konzerthaus)
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions**

- 24 T4 - Growth and Dynamics of Pine in Mixed Forests**
- Organizer Ducey M. (United States of America)
- Chairs Bravo F. (Spain)
- 3940 Mediterranean mixed pine forests: the role of stand density on growth efficiency and pine decline
Bravo F. (Spain)
- 4085 Growth partitioning and growing space efficiency of eastern white pine (*Pinus strobus*) in mixed-species forests of the northeastern United States
Ducey M. (United States of America)

**18:00 – 19:30 K9 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

- 29b D4 - Integrating climate change, disturbances and diversity effects into growth models: from understanding ecological processes to predicting forest growth and yield**
- Organizer Schneider R. (Canada)
- Chairs Albrecht A. (Germany)
- 3244 Addressing the Confounding Effect of Insect Disturbance when Assessing Growth in Mixed Species Stands Following Pre-commercial Thinning
Marshall P. (Canada)
- 1496 Integrating effects of diversity, disturbances, and climate change into forest landscape modeling
Rammer W. (Austria)
- 2442 Development of simulation framework WINDROT for prediction of damages caused by root rot, wind disturbance and European spruce bark beetle
Honkaniemi J. (Finland)
- 2995 PINEA.pt - a tree growth and yield model for Pinus pinea L. in a multispecies and climate change paradigm
Tomé M. (Portugal)

**18:00 – 19:30 Room "Basel + Mühlhausen" (Novotel Freiburg)
Theme 3: Forests and Forest-Based Products for a Greener Future**

- 94b T3 - Ecologically-based silviculture**
- Organizer Skovsgaard J. (Sweden)
- Chairs El-Kassaby Y. (Canada)
- 298 A Comparison of Ecophysiology, Growth and Biomass Allocation in Clonal Pinus tadea Growing in the US and Brazil
Fox T. (United States of America)
- 575 Climatic and genetic control on carbon fluxes and partitioning in Eucalyptus plantations
Campoe O. (Brazil)
- 2477 Responses of photosynthesis and growth of sprouting seedlings for three different shade-tolerate tree species to gaps of temperate secondary forests: the roles of gap size and within-gap position
Yan Q. (China)
- 4111 Growth dominance across a productivity gradient: light competition and light use efficiency
Fernandez-Tschieder E. (United States of America)

**18:00 – 19:30 Room "Baden-Baden" (Novotel Freiburg)
All Division 7 (Forest Health) Meeting**

- 208 D7 - Social and Economic dimensions of forest health: Contributing to a biosecure future**
- Organizer Marzano M. (United Kingdom)
- 901 Investigating the public response and risk perceptions in relation to tree pest and disease outbreaks in the UK
Urquhart J. (United Kingdom)
- 3134 Socio economic implications of Forest pest outbreaks in developing and countries with economies in transition
Sathyapala S. (Italy)
- 1626 Improving risk communication and engagement within biosecurity agencies
Allen W. (New Zealand)

- 317 Are we ready/able to protect urban trees?
Jones G. (United Kingdom)
- 3073 Societal costs of urban tree diseases
Price C. (United Kingdom)
- 462 Plants, pathology and practice: bridging the gap between knowledge and action in UK nurseries
Marzano M. (United Kingdom)

**18:00 – 19:30 Room "Colmar" (Novotel Freiburg)
Theme 1: Forests for People**

- 301b T1 - Enhancing Forest Education through Regional Cooperation**
- Organizer Zeng M. (Canada)
- Chairs Innes J. (Canada), Wang G. (Canada)
- 2790 Forest education of Kyoto University in collaboration with partner universities in ASEAN: Challenges for trans-disciplinarity and trans-border
Kanzaki M. (Japan)
- 2543 Benefits of international collaboration for the New Zealand School of Forestry
Manley B. (New Zealand)
- 3048 Sustainable Management of Educational Forest Without Cutting Trees: A Case of Bogor Agricultural University, Indonesia
Soekmadi R. (Indonesia)
- 1673 Sketching future forestry education for South East Asia: perspective Bangladesh
Al-Amin M. (Bangladesh)
- 2675 Innovative Forestry Education
Wang G. (Canada)

**18:00 – 19:30 KG I - 1009 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting**

- 174 D9 - Connecting People to Forest Science: Innovative Communication Approaches for Delivering Science**
- Organizer Miner C. (United States of America)
- 106 Knowledge sharing in Forestry
Ferreira dos Santos V. (Italy)
- 3780 Forest communication: are we doing right? An online survey on public knowledge and perception of forests and forestry terminology in Italy
Da Re R. (Italy)
- 3679 Using Social Media to Promote a Forestry Conference: European Forum on Urban Forestry 2016 Case Study
Rantaša B. (Slovenia)
- 2485 Australia's approach for connecting forests, science and people in national forest reporting
Hunn T. (Australia)
- 2500 Raising awareness on forest genetic diversity through Wikipedia
Hermanowicz E. (Italy)

18:00 – 19:30 KG I - 1010 (University Freiburg)
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions

- 92b T4 - Concepts and assessments of forest ecosystem services and benefits**
- Organizer Meyer M. (Germany)
- Chairs Schulz C. (Germany)
- 863 Considering Ecosystem Services and their Uncertainties in Forest Management Planning
Knoke T. (Germany)
- 1366 Mitigating forest biodiversity and ecosystem service losses in the era of bio-based economy
Eyvindson K. (Finland)
- 379 Spatial Assessment of Differences in Ecosystem Functions and Services on Forest Air Purification in South Korea
Song C. (South Korea (ROK))
- 4002 Green infrastructures for human well-being in European forest landscapes
Elbakidze M. (Sweden)

18:00 – 19:30 KG I - 1015 (University Freiburg)
All Division 6 (Social Aspects of Forests and Forestry) Meeting

- 19b D6 - The role of forests in sustainable rural development in developing countries: livelihoods and quality of life**
- Organizer Diaz-Maroto I. (Spain)
- 116 A multidimensional participatory strategic model for promoting the sustainable community forestry and human wellbeing in México
Lujan-Alvarez C. (Mexico)
- 3537 Typology of Smallholder Industrial Tree Plantations (ITP) in Caraga region, Philippines
Grefalda L. (Philippines)
- 2938 Collecting *Styrax benzoin* tap and conflicts of land tenure in customary forest in North Sumatra, Indonesia
Harada k. (Japan)
- 2516 The complex balance between nature conservation and livelihood of local residents in a State Park
Magro T. (Brazil)
- 778 Endogenous knowledges, use and folk perception on conservation status of orchids in Sudanian zone of Bénin
Assédé E. (Benin)

18:00 – 19:30 KG I - 1098 (University Freiburg)
Theme 5: Forests, Soil and Water Interactions

- 205b T5 - Phloem function and dysfunction under drought**
- Organizer Epron D. (France)
- Chairs Dannoura M. (Japan), Hölttä T. (Finland)
- 492 Carbon allocation, drought and source-sink relationships in trees
Gessler A. (Switzerland)
- 314 Potassium nutrition and water availability affect phloem transport of photosynthetic carbon in eucalypt trees
Epron D. (France)
- 1830 Tree response to drought under changing climate regimes: mitigation or amelioration?
Hubeau M. (Belgium)
- 1008 Phloem sap as a diagnostic assessment of plant water and nutritional status
Merchant A. (Australia)

18:00 – 19:30 KG I - 1199 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting

- 77b D9 - The Global Forest Environmental Frontier - What has changed, what has remained unchanged, how will the future look like?**
- Organizer Winkel G. (Germany)
- Chairs Sotirov M. (Germany), Moseley C. (United States of America)
- 3145 The forest environmental frontier in the Congo basin: past, present and future
Omar Cerutti P. (Kenya)
- 831 From forest frontier to forest landscape arena: A trajectory of forest development aspirations, discourse and practice in Amazonia
de Jong W. (Japan)
- 634 The Forest Environmental Frontier in North America
Schultz C. (United States of America)
- 1904 The Politics of the Forest Environmental Nexus in Europe
Sotirov M. (Germany)
- 2018 Legality frontiers between State and local communities in Myanmar, Cambodia, Laos and Indonesia
Nathan I. (Denmark)

**18:00 – 19:30 KG I - 1228 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting**

- 160 D9 - Wood based fuels for transports - conditions for their market entry and impacts on the wood-using sector and climate change mitigation**
- Organizer Kallio M. (Finland)
Chairs Latta G. (United States of America)
- 2676 Global trade of wood biomass for energy: a tradeoff between biofuels and pellets
Lauri P. (Austria)
- 3629 Optimal use of woody biomass for biofuel production in Europe
Leduc S. (Austria)
- 2564 Prospects for producing liquid wood-based biofuels and their impacts on the forest sector in Europe
Kallio M. (Finland)
- 2781 Considerations in estimating residue based feedstock supply curves for biojet facilities in the northwestern United States
Latta G. (United States of America)
- 1640 Forest-Based Biofuel Production in the Nordic Countries: Modelling of Optimal Allocation and Relative Cost Competitiveness
Mustapha W. (Norway)
- 3926 Bioenergy from young dense stands - a long term sector analysis for Sweden
Eriksson L. (Sweden)

**18:00 – 19:30 KG II - Auditorium Maximum (University Freiburg)
All Division 7 (Forest Health) Meeting**

- 177b D7 - Forest Health in a Changing Climate**
- Organizer Fetting C. (United States of America)
Chairs Delb H. (Germany)
- 3308 Impacts of forest insects on the carbon cycle and possible mitigation options
Kurz W. (Canada)
- 601 Climate change and wildfire - managing in the face of uncertainty
Stephens S. (United States of America)
- 3328 Vulnerability of United States Tree Species to Environmental Disturbance and Change
Monahan W. (United States of America)
- 1792 Carbon Mitigation and Other Ecosystem Services with Wood Products and Forests
Oliver C. (United States of America)
- 1993 Quantifying forest resilience to disturbance and climate
Waring K. (United States of America)

18:00 – 19:30 KG I Aula (University Freiburg)

IY IFSA Youth Incubator Session

- A series of TED Talks
- Coppicing ability of *Searsia lancea* stems of different size under different harvesting intensities
Abera Getahun
- Forestry lidar: to infinity and beyond?
Alberto Tordesillas Torres
- Estimation of boreal forest LAI using satellite data and reflectance models
Daniel Schraik
- Analysis of the institutional diversity in the decentralised management of protected areas: the case study of the forest reserve of Bapouh-Bana in the west region of Cameroon
Djomo Jocelyne
- Project of Peatlands as Conservation of Peat Forests Based on Local Wisdom in Central Borneo
Febi Maulana Nugraha
- Swedish forestry education for the 21st century. A case study on graduates from the Swedish University of Agricultural Sciences (SLU)
Joakim Lundsten
- Julian Geisel*
(t.b.c.)
- Estimating above-ground stem volume and tree biomass models for *Searsia lancea* in central bushveld, South Africa
Kassahun Maru
- Cropland nitrogen dynamics following a three-year conservation-oriented set aside in Delta, British Columbia.
Khalil Walji
- Lisa Prior*
(t.b.c.)
- Analysis of stakeholders' behavior toward management of community forest in west Bogor area, Indonesia
Mahtuf Ikhsan
- Adapt or transform? Assessing 20 years of recommendations for forest adaptation in light of climate change
Ricardo Pelai

UNIVERSITY											
	KG I - 1009	KG I - 1010	KG I - 1015	KG I - 1098	KG I - Aula	KG I - 1132					
8:00	12a D9 - Open Session		123a T5 - Roots and Ecosystem Services	206 T4 - Operational methods for monitoring and assessment of forested landscapes	30 D6 - Managing recreation: Empirical insights and forest management instruments.						
8:30											
9:00											
9:30											
10:00	Coffee Break (Konzerthaus & University KG I)										
10:30											
11:00											
11:30											
12:00	Lunch break (Mensa)		12:30 – 13:15	Lunch break (Mensa)							
13:30		LIVE STREAM	BL 2 Book Launch: The Earthscan Reader on Gender and Forests.								
14:00		SP3 Forests in cities and in wilderness offer recreation and health benefits									
14:30		More details on page 132									
15:00	Coffee Break (Konzerthaus & University KG I)										
15:30	12b D9 - Open Session	58b T4 - Managing forests for Biodiversity and Resilience	123b T5 - Roots and Ecosystem Services	68a T2 - Forest Adaptation and Restoration under Global Change	184a T3 - Marketing and Business Practices of the Bioeconomy	133 D6 - Social dimension of wildlife conservation and management					
16:00											
16:30											
17:00											
17:30											
18:00	12c D9 - Open Session	58c T4 - Managing forests for Biodiversity and Resilience	123c T5 - Roots and Ecosystem Services	68b T2 - Forest Adaptation and Restoration under Global Change	184b T3 - Marketing and Business Practices of the Bioeconomy	155 D6 - Cities, Trees, Carbon, and Climate Change Mitigation					
18:30											
19:00											
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21:00											
21:30											

■ Theme 1: Forests for People
 ■ Theme 3: Forests and Forest-Based Products for a Greener Future
 ■ Theme 5: Forests, Soil and Water Interactions
■ Theme 2: Forests and Climate Change
 ■ Theme 4: Biodiversity, Ecosystem Services and Biological Invasions
 ■ Side Events (Business Meetings & Book Launches)

UNIVERSITY									
KG I - 1139	KG I - 1199	KG I - 1224	KG I - 1228	KG II - Auditorium Maximum	KG II - 2121				
114 D3 - Transforming low grade logs and residues into higher value products through improved supply chain management	152 T3 - Resources for the Future Task Force: Institutions for Forest Transformation	159 D9 - Developing the dialogue about forests and forestry with society - the challenge to tell good stories and the need for Forestpedagogy	166 T2 - Development of Adaptation Strategies for Climate Change using GM Trees	10 D3 - Innovations in forest operations for better serving evolving societal needs	Poster Exhibition				
Coffee Break (Konzerthaus & University KG I)									
Lunch break (Mensa) and visit of the Poster Exhibition (University, KG II, HS2121)									
				LIVE STREAM					
				SP4 Forest health – critical global issues in the 21st century					
				More details on page 132					
Coffee Break (Konzerthaus & University KG I)									
84a T4 - Promoting forest resilience, adaptive capacity, and ecosystem services through diverse forest ecosystems	83a D7 - Are we doing the right things to deal with invasive forest pest and pathogens? Lessons from history and current strategies	151a D3 - History, Findings, and Future Directions of Forest Landowner Research	38 D9 - Impacts of voluntary forest management certification: challenges and solutions in measuring results	127 D9 - The politics of forest governance					
84b T4 - Promoting forest resilience, adaptive capacity, and ecosystem services through diverse ...	383b D7 - Are we doing the right things to deal with invasive forest pest and pathogens? ...	151b D3 - History, Findings, and Future Directions of Forest Landowner Research	104 D9 - Valuation of Multipurpose Forest Management Options under Changing Climate						

■ Division 3 (Forest Operations Engineering and Management)
 ■ Division 6 (Social Aspects of Forests and Forestry)
 ■ All Division 9 (Forest Policy and Economics)
■ Division 4 (Forest Assessment, Modelling and Management)
 ■ Division 7 (Forest Health) Meeting
 ■ Sub-plenary Sessions

Keynote Plenary Session

10:30 – 12:00 Rolf Böhme Saal (Konzerthaus Freiburg) LIVE STREAM Keynote Plenary Session 1

KP1 Challenges for future forest research

Moderator Björn Hånell (IUFRO vice-president), SLU, SWEDEN



The potential contribution of the forest sector to climate change mitigation
Werner Kurz, Canadian Forest Service (Natural Resources Canada), CANADA

Werner Kurz is a Senior Research Scientist at the Canadian Forest Service (Natural Resources Canada) in Victoria, BC. He leads the development of Canada's National Forest Carbon Monitoring, Accounting and Reporting System and the Forest Carbon Management Project of the Pacific Institute for Climate Solutions. His research focuses on carbon dynamics in forests and harvested wood products and the opportunities of the forest sector to contribute to climate change mitigation. Dr. Kurz co-authored six reports of the Intergovernmental Panel on Climate Change (IPCC), published over 125 peer-reviewed scientific papers, and many other reports. He serves as adjunct professor at the University of British Columbia (UBC) and at Simon Fraser University. He obtained his PhD in Forest Ecology from UBC and an honorary doctorate from the Swedish Land University.



The Earth System, the Anthropocene and the world's forests
Will Steffen, The Australian National University and the Stockholm Resilience Centre, AUSTRALIA

Will Steffen is a Councilor on the publicly-funded Climate Council of Australia that delivers independent expert information about climate change, an Emeritus Professor at the Australian National University (ANU), Canberra, and a Senior Fellow at the Stockholm Resilience Centre, Sweden. He is also an Adjunct Professor at the University of Canberra, working with the Canberra Urban and Regional Futures (CURF) program, and is a member of the ACT Climate Change Council. He is chair of the jury for the Volvo Environment Prize and is a member of the International Advisory Board for the Centre for Collective Action Research, Gothenburg University, Sweden. From 1998 to mid-2004, Steffen served as Executive Director of the International Geosphere-Biosphere Program, based in Stockholm, Sweden, and is currently a Senior Fellow at the Stockholm Resilience Centre and a member of the Anthropocene Working Group. His research interests span a broad range within the fields of climate and Earth System science, with an emphasis on incorporation of human processes in Earth System modelling and analysis; and on sustainability and climate change, particularly in the context of urban areas.

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 676754.



www.alterfor-project.eu

European forests are expected to provide a broad range of ecosystem services. This capacity is, however, questioned due to uncertainties of climate change, the complex dynamics of evolving global markets, and the pressures for increased use of bioenergy. These developments might call for adjusting well-established forest management approaches.

ALTERFOR examines alternative forest management models (FMM) currently in use and the potential to optimize them for use in different European countries. The work is being carried out in ten carefully designed case studies representing different forest management practices and socio-ecological conditions prevailing in Europe. The case study areas are in Germany, Italy, Ireland, Lithuania, the Netherlands, Portugal, Slovakia, Sweden, and Turkey.

The main goals in ALTERFOR are:

- to identify and develop FMMs robust in their capacity to deliver ES and reduce vulnerabilities at stand to landscape levels
- to assess the impact of different FMM combinations in terms of resultant ES baskets on the European level and
- to facilitate the implementation of desired FMMs through the integration of scientific research and its practical utilisation.

Coordinator: Swedish University of Agricultural Sciences (SLU), Sweden.

For more information visit www.alterfor-project.eu.

Sub-plenary Sessions

13:30 – 15:00 **KG I - 1010 (University Freiburg)** **LIVE STREAM** **Sub-plenary Session 3**

SP3 Forests in cities and in wilderness offer recreation and health benefits

Organizer IUFRO Division 6 – Social Aspects of Forests and Forestry

Moderator Tuija Sievänen (coordinator, IUFRO Division 6), Luonnonvarakeskus (Luke), FINLAND

Benefits of visitor monitoring for society and agencies managing natural resources
Arne Arnberger, Institut für Landschaftsentwicklung, Erholungs- und Naturschutzplanung (ILEN), AUSTRIA

Urban forests and public health – challenges and prospects?
Matilda van den Bosch, The University of British Columbia, CANADA

13:30 – 15:00 **KG II - Auditorium Maximum (University Freiburg)** **LIVE STREAM** **Sub-plenary Session 4**

SP4 Forest health – critical global issues in the 21st century

Organizer IUFRO Division 7, Forest Health

Moderator Eckehard Brockerhoff (IUFRO Division 7 coordinator) Scion Research, Christchurch, New Zealand

Forest insect invasions - the role of global change
Andrea Battisti, University of Padova, ITALY

The history of air pollution and forests, from forest dieback to climate change
William Manning, University of Massachusetts, USA, and Elena Paoletti, CNR, ITALY

13:30 – 15:00 **Rolf Böhme Saal (Konzerthaus Freiburg)** **LIVE STREAM** **Sub-plenary Session 5**

SP5 Our Future Forests

Organizer International Forestry Students' Association (IFSA)

Moderator IFSA President Salina Abraham, USA

Our Future Forests: Introduction
Michael Wingfield (IUFRO President), University of Pretoria, SOUTH AFRICA

Statements/questions from remote IFSA members worldwide via video

Remarks by panel members
Definition of Forestry
Peter Holmgren, Center for International Forestry Research (CIFOR), INDONESIA

Forestry Innovations
Bernard de Galember, Confederation of European Paper Industries (CEPI), Belgium

Forestry Education
Sandra Rodriguez (Coordinator, Joint IUFRO-IFSA Task Force on Forest Education) Universidad Autónoma de Chihuahua, MEXICO

Climate Change
Mercy Derkyi (Deputy Coordinator, IUFRO Division 9), University of Energy and Natural Resources, GHANA

Audience participation

08:00 – 10:00 Rolf Böhme Saal (Konzerthaus)
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions

58a T4 - Managing forests for Biodiversity and Resilience

- Organizer Oxbrough A. (United Kingdom)
- 1630 Even-aged rather than uneven-aged forest management promotes the regional biodiversity of multiple taxa in European beech forests
Gossner M. (Switzerland)
- 1163 A systematic approach to reviewing biodiversity effects of active forest conservation
Müller J. (Germany)
- 1535 Rethinking forest resilience through colonization and emergence rates of saproxylic beetles
Work T. (Canada)
- 4028 Epiphytic lichens as indicators of sustainable forest management
Arsenault A. (Canada)
- 1967 More than trees: a European scientific network to assess the relationships between forest structural heterogeneity, multi-taxon biodiversity, and carbon storage
Sabatini F. (Germany)
- 3408 Responses of dead-wood dependent beetles to continuous-cover forestry
Koivula M. (Finland)
- 3965 Retention harvesting promotes resilience of boreal mixedwood forest biodiversity by retaining ecosystem memory of historical wildfires
Bergeron C. (Canada)

08:00 – 10:00 K 1 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting

4a D4 - Open Session

- Organizer Peyron J. (France)
- Chairs Tomé M. (Portugal)
- 517 Developing Yield Model of Major Coniferous Species in South Korea
Lee D. (South Korea (ROK))
- 2360 Determining nutrient sustainability of wood-biomass harvesting in German Forests based on monitoring data
von Wilpert K. (Germany)
- 680 Area-level analysis of forest inventory variables
Magnussen s. (Canada)
- 2548 Options for utilizing satellite LiDAR measurements in large-area forest monitoring
Schnell S. (Germany)
- 686 Establishing Confidence Envelopes for Trends and Their Derivatives in Phenological Time Series
Guan B. (Taiwan)
- 719 Forest structure assessment based on terrestrial laser scanning
Seidel D. (Germany)
- 3653 Forest tree species mapping with use of Sentinel 2 imagery and forest inventory data: the case study in the Polish Carpathians
Grabska E. (Poland)

- 4094 An Historically Consistent and Broadly Applicable Monitoring, Reporting, and Verification System Based on Landsat Time-series
Cohen W. (United States of America)

08:00 – 10:00 K 2-4 (Konzerthaus)
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions

72 T4 - Oak forests and management for different ecosystem services

- Organizer Löf M. (Sweden)
- 2836 Ecology and silviculture of four important oak tree species in East and South Asia: a review
Cheng Z. (China)
- 821 The silviculture of restoring oak woodlands and savannas
Dey D. (United States of America)
- 2152 Actions to mitigate the biodiversity loss in oak habitats in Southern Sweden
Lindblad M. (Sweden)
- 770 Regeneration of deciduous oak (*Quercus*) species in temperate Europe under near-natural conditions, and implications for management
Reif A. (Germany)
- 2857 Oak natural regeneration in Scots pine (*Pinus sylvestris* L.) stands in Poland
Dobrowolska D. (Poland)
- 1037 Long-term oak regeneration dynamics in southern Sweden (1923-2015)
Pettersson L. (Sweden)
- 3081 Trade-offs in ecosystem services supply from Himalayan Oak forests: Global conservation targets vs. local livelihoods needs
Schmerbeck J. (Germany)

08:00 – 10:00 K 5-7 (Konzerthaus)
All Division 6 (Social Aspects of Forests and Forestry) Meeting

40 D6 - Engaging equality: The construction of gender and forest through processes of gender mainstreaming

- Organizer Lidestav G. (Sweden)
- 551 The gender bias in forest ownership succession
Staal Wästerlund D. (Sweden)
- 1698 Gender aspects in Lithuanian private forest ownership
Silingiene R. (Lithuania)
- 2138 Different but equal - Polish women in forestry education situation
Nowacka W. (Poland)
- 2759 Women in Forestry Association - a good practice in gender mainstreaming example
Pigan I. (Poland)
- 1973 Tropical forest work: certification requirements and gendered data
Karmann M. (Germany)
- Panel Discussion

08:00 – 10:00 K 8 (Konzerthaus)
All Division 7 (Forest Health) Meeting

5 D7 - Open Session

- Organizer Brockerhoff E. (New Zealand)
Chairs Ramsfield T. (Canada)
- 1477 Botryosphaeriaceae species composition on native Melastomataceae (Myrtales) shrubs in South Africa and Southern China
Pavlic-Zupanc D. (South Africa)
- 1299 Management strategies for biological control: Utilising DNA barcoding to increase diversity and abundance of Diptera and Hymenoptera.
Bence S. (United Kingdom)
- 1258 Comparison of the Botryosphaeriaceae on *Acacia koa* and *A. heterophylla*: Evidence of a long-standing separation of two genetically close, but geographically isolated, tree populations
Jami F. (South Africa)
- 1463 First results of model development for risk assessment of oak processionary moth (*Thaumetopoea processionea* L.)
Halbig P. (Germany)
- 1439 The effect of *Amylostereum* spp. on Forest Health in Alabama
Wahl A. (United States of America)
- 1500 Genetic and physiological response of Scots pine saplings to artificial inoculation with *Sphaeropsis sapinea*, the pathogen causing Diplodia tip blight
Peters F. (Germany)
- 292 Ecological and Economic Impact of *Caliciopsis pinea* on *Pinus strobus* in New England, U.S.A.
Costanza K. (United States of America)

08:00 – 10:00 K9 (Konzerthaus)
Theme 5: Forests, Soil and Water Interactions

66 T5 - Water Related Ecosystems Services under Risk

- Organizer Kalin L. (United States of America)
- 1971 Patterns of ecosystem restoration in geographically-isolated forested wetlands following hydrologic recovery
Anderson C. (United States of America)
- 1508 Climate Change induced Risk to Freshwater Forested Wetlands along the Apalachicola Bay, USA
Kalin L. (United States of America)
- 2371 Use of LANDSAT 8 OLI, ALOS-PALSAR L-HH and L-HV, DEM and slope data for wetland mapping in southern New Brunswick
Leblon B. (Canada)
- 3538 A holistic assesement of water related ecosystem services in urban forests
Vilhar U. (Slovenia)
- 930 An Approach for Quantifying and Mapping Hydrological Ecosystem Services as a Watershed Management Tool
Uygur Erdogan B. (Turkey)

- 1196 Efficiency of water protection methods in forestry operations in the Baltic Sea Region
Finér L. (Finland)
- 1122 Interception of tree crowns under the influence of pollution and climate change
Klamerus-Iwan A. (Poland)
- 387 Water consumption comparison of sample trees with different DBH in the same stand
Özçelik M. (Turkey)

08:00 – 10:00 Room "Basel + Mühlhausen" (Novotel Freiburg)
All Division 7 (Forest Health) Meeting

86a D7 - The science of tree health and how we can use it: Multidisciplinary research from the Tree Health and Plant Biosecurity Initiative (THAPBI).

- Organizer Thompson J. (United Kingdom)
Chairs Sherwood P. (United Kingdom)
- 3613 Managing trees for resilience to multiple threats: the importance of diversity and adaptation to tree health.
Cavers S. (United Kingdom)
- 1714 Multiple origins of the *Dothistroma* outbreak on pine species in Scotland
Ennos R. (United Kingdom)
- 3816 Genetic variation for susceptibility to *Dothistroma septosporum* in Scottish Scots pine (*Pinus sylvestris*)
Cavers S. (United Kingdom)
- 199 The tree microbiome as part of the extended phenotype
Schönrogge K. (United Kingdom)
- 1382 Genomics of *Fraxinus* (Oleaceae); a genus under severe threat
Kelly L. (United Kingdom)
- 900 Tree pests and diseases and the social amplification of risk: an analysis of expert, policy and stakeholder risk perceptions
Urquhart J. (United Kingdom)

08:00 – 10:00 Room "Baden-Baden" (Novotel Freiburg)
Theme 2: Forests and Climate Change

53 T2 - The role of forestry science in promoting resilient and carbon dense forests

- Organizer Lund J. (Denmark)
- 1995 The Double Standard: Managing forests with and without a plan
Sungusia E. (Tanzania)
- 2127 Scientification of community forestry in Tanzania: Are communities capable of adhering to scientific prescriptions?
Amanzi N. (Tanzania)
- 372 What's the Use of Community Forest Management Plans in Nepal?
Basnyat B. (Nepal)
- 1605 The contested role of inventory based management plans in Nepal's Community Forests
Baral S. (Nepal)

08:00 – 10:00 **KG I - 1009 (University Freiburg)**
All Division 9 (Forest Policy and Economics) Meeting

12a D9 - Open Session

- Organizer Kleinschmit D. (Germany)
- Chairs Park M. (South Korea (ROK))
- 560 Governance of green city areas on the background of the concept of "urban forestry" in Europe - case study of Poznan (Poland).
Wajchman-Switalska S. (Poland)
- 1264 Drivers and barriers of urban forest governance: Lessons from the Republic of Korea case
Park M. (South Korea (ROK))
- 3357 Impact of national forest protection contract on local people's trust in government
Youn Y. (South Korea (ROK))
- 3962 Positions revisited? An analysis of responses to public consultation concerning revisions of the Swiss Forest Act between 1993 and 2016
Schulz T. (Switzerland)
- 2143 Coordinating Collaborative Governance of Forest Water at the National Level
Mancheva I. (Sweden)

08:00 – 10:00 **KG I - 1015 (University Freiburg)**
Theme 5: Forests, Soil and Water Interactions

123a T5 - Roots and Ecosystem Services

- Organizer Prescott C. (Canada)
- 3691 Adaptive root foraging strategies along a boreal-temperate forest gradient
Ostonen I. (Estonia)
- 2045 Functional specialization of Eucalyptus grandis fine roots: contrasting potential uptake rates for nutrients in function of depth and soil fertility
Bordron B. (Brazil)
- 1430 Root branching is a leading root trait of the plant economics spectrum in temperate trees
Meier I. (Germany)
- 1820 Variation of root anatomical traits: from tropical forests to deserts
Ma Z. (China)
- 1102 Fine-root morphological traits in tropical forest ecosystems in relation to rainfall and temperature
Addo-Danso S. (Canada)
- 3764 Belowground-aboveground relationships: responses to forest management
Helmisaari H. (Finland)

08:00 – 10:00 **KG I - 1098 (University Freiburg)**
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions

206 T4 - Operational methods for monitoring and assessment of forested landscapes

- Organizer Vogt P. (Italy)
- Chairs Luque S. (France), Riitters K. (United States of America)
- 95 Practical data fusion: Using forest inventory data to improve thematic inferences from broad-scale landscape pattern analysis
Riitters K. (United States of America)
- 1190 Assessment of forest ecosystems: support from operational spatially explicit methods
Luque S. (France)
- 1212 Open Foris Initiative: Enabling multi-purpose forest monitoring, reporting and management.
Pekkarinen A. (Italy)
- 1265 Priority areas for strict forest reserves: identifying hot spots with high conservation value
Seebach L. (Germany)
- 1121 Connecting Natura 2000 forest sites: linkages, bottlenecks and priorities for conservation and restoration
Mateo-Sánchez M. (Spain)
- 1034 Analysis of ecological connectivity to improve design of greenways as ecological corridors
Carlier J. (Ireland)
- 1408 Does the forest fragmentation depend on the long-term forest history? Testing the 'landscape hypsometric curve' approach
Kozak J. (Poland)
- 265 Analyzing forest landscapes: Digital image analysis based on geometric concepts
Vogt P. (Italy)

08:00 – 10:00 **KG I - Aula (University Freiburg)**
All Division 6 (Social Aspects of Forests and Forestry) Meeting

30 D6 - Managing recreation: Empirical insights and forest management instruments.

- Organizer Wurster M. (Germany)
- Chairs Burns R. (United States of America)
- 1282 Modeling forest recreation in Baden-Württemberg, Germany
Wurster M. (Germany)
- 2459 Impacts of bark-beetle infested forests on recreation
Arnberger A. (Austria)
- 2105 Impacts and Challenges of the Development of Recreational Sports in Forests in Japan
Hirano Y. (Japan)
- 142 Governance of forest recreation: the challenge of managing and planning forest recreation in urban forest areas.
Wilkes-Allemann J. (Switzerland)
- 2218 Balancing landscape-level forest management between recreation and wood production
Eggers J. (Sweden)
- 2259 Informal trails in forested areas close to Zurich. Consequences?
Wytenbach M. (Switzerland)

**08:00 – 10:00 KG I - 1139 (University Freiburg)
All Division 3 (Forest Operations Engineering and Management) Meeting**

- 114 D3 - Transforming low grade logs and residues into higher value products through improved supply chain management**
Organizer Anderson N. (United States of America)
Chairs Chung W. (United States of America), Athanassiadis D. (Sweden)
- 1107 Fuel consumption and GHG emissions of forest biomass supply chains in Northern Sweden: a comparison analysis between integrated and conventional supply chains
De La Fuente T. (Sweden)
- 2124 Beetle-killed Biomass for Bioenergy: An Integrated Modeling Approach for Feedstock Supply and Logistics
Chung W. (United States of America)
- 1255 Optimizing supply of unutilised Swedish biomass to produce torrefied pellets
Athanassiadis D. (Sweden)
- 1632 Forest operations and logistics to reduce costs and improve product value from forest restoration in the southern Rocky Mountains, USA
Anderson N. (United States of America)

**08:00 – 10:00 KG I - 1199 (University Freiburg)
Theme 3: Forests and Forest-Based Products for a Greener Future**

- 152 T3 - Resources for the Future Task Force: Institutions for Forest Transformation**
Organizer Innes J. (Canada)
- 1703 Characteristics of co-benefit program development of Forest Carbon Projects in the Voluntary Carbon Market
Lee D. (South Korea (ROK))
- 138 A Framework for Governance of Institutional Investment in the Forestry Sector
Brand D. (Australia)
- 1093 Resources for the Future: An Overview
Nikolakis W. (Canada)
- 1005 Spatial distribution of households vulnerable to deforestation in non-timber forest product collections in Kampong Thom Province, Cambodia
Ehara M. (Japan)
- 4009 Mixing policies and institutions for conservation impact: examples from Latin America
Wunder S. (Peru)
- 4054 Institutions for transformation towards sustainable forest management: a comparison of NW Russia and Sweden
Angelstam P. (Sweden)

**08:00 – 10:00 KG I - 1224 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting**

- 159 D9 - Developing the dialogue about forests and forestry with society - the challenge to tell good stories and the need for Forestpedagogy**
Organizer Schmechel D. (Germany)
Chairs Vogl R. (Germany)
- 2026 Relevance of the "forests and health topic" for the future dialogue with people and possibilities for Forest pedagogy
van den Bosch M. (Canada)
- 1130 Forestpedagogy - platform for the cross border dialogue between forestry and society
Jaloviárová V. (Slovakia)
- 951 Fostering Sustainable Development (SD) in the Context of Forest Education
Vogl R. (Germany)
- 1675 Forestpedagogy - challenged to climb the higher steps of Education for Sustainable Development
Schmechel D. (Germany)

**08:00 – 10:00 KG I - 1228 (University Freiburg)
Theme 2: Forests and Climate Change**

- 166 T2 - Development of Adaptation Strategies for Climate Change using GM Trees**
Organizer Park E. (South Korea (ROK))
Chairs Fladung M. (Germany)
- 2752 Smallholder farmers' adaptation to climate change and determinants of their adaptation decisions in the Central Rift Valley of Ethiopia
Belay A. (Ethiopia)
- 3384 Downregulation of stress associated protein 1 (PagSAP1) improves salt tolerance by upregulating the expression of cation transporters across the plasmamembrane.
Bae E. (South Korea (ROK))
- 2631 Could poplar plants help reduce toxic metals in soil?
Luo Z. (China)
- 3659 Biosafety analysis of genetically modified trees - The European Scenario
Fladung M. (Germany)

08:00 – 10:00 **KG II - Auditorium Maximum (University Freiburg)**
All Division 3 (Forest Operations Engineering and Management) Meeting

10 D3 - Innovations in forest operations for better serving evolving societal needs

- Organizer Jaeger D. (Germany)
 Chairs Sauter U. (Germany)
 1755 French research and innovative plan by 2025 for wood-based industry: focus on precision forestry
Cacot E. (France)
 1648 New Market of Contractor Firms in the Slovak Forestry Service Sector and Innovation Policy
Sterbova M. (Slovakia)
 2156 Pre-harvest tree and stand assessment for improved log allocation within the wood supply chain
Opferkuch M. (Germany)
 898 Using a prototype load test platform to quantify the effects of steel flexible tracks on forwarder peak load distribution
Labelle E. (Germany)
 4052 Modelling changes in surface flow after skid trail construction in steep terrain
Talbot B. (Norway)
 1753 Multifunctional biomass terminals in a bioeconomy
Bergström D. (Sweden)

10:30 – 12:00 **Rolf Böhme Saal (Konzerthaus)**
Keynote Plenary Sessions **LIVE STREAM**

KP1 Keynote Plenary Session

12:00 – 12:45 **K 2-4 (Konzerthaus)**
Side Events

YSI IUFRO-EFI Young Scientist's Initiative

- Organizer Boehnke D. (Austria)
 This is the launch of the latest collaboration between IUFRO and EFI. The Young Scientists' Initiative entails a grant offered to five young scientists from Africa, Asia and South America to work on a scientific collaboration with a European scientist and his/her host organisation in Europe annually from 2018. A short presentation and Q&A session will take place and is available to any interested parties.

12:30 – 13:15 **KG I - 1015 (University Freiburg)**
Side Events

BL 2 Book Launch: The Earthscan Reader on Gender and Forests. Edited by Carol J. Pierce Colfer, Marlène Elias, Bimbika Sijapati Basnett and Susan Stevens. Routledge 2017.

- Organizer Arora-Jonsson S. (Sweden), Elias M. (Italy), Sijapati Basnett B. (Indonesia)

13:30 – 15:00 **Rolf Böhme Saal (Konzerthaus)**
Sub-plenary Sessions **LIVE STREAM**

SP5 Our Future Forests – organized by IFSA

- 4213 Our Future Forests: Introduction
Wingfield M. (South Africa)

13:30 – 15:00 **KG I - 1010 (University Freiburg)**
Sub-plenary Sessions **LIVE STREAM**

SP3 Forests in cities and in wilderness offer recreation and health benefits

- IUFRO Division 6 – Social Aspects of Forests and Forestry
 Organizer Moderator: Sievänen T. (Finland)
 4209 Benefits of visitor monitoring for society and agencies managing natural resources
Arnberger A. (Austria)
 4210 Urban forests and public health – challenges and prospects?
van den Bosch M. (Canada)

13:30 – 15:00 **KG II - Auditorium Maximum (University Freiburg)**
Sub-plenary Sessions **LIVE STREAM**

SP4 Forest health – critical global issues in the 21st century

- IUFRO Division 7, Forest Health
 Organizer Moderator: Brockerhoff E. (New Zealand)
 4211 Forest insect invasions - the role of global change
Battisti A. (Italy)
 4212 The history of air pollution and forests, from forest dieback to climate change
Paoletti E. (Italy)

15:30 – 17:30 **K 1 (Konzerthaus)**
Theme 5: Forests, Soil and Water Interactions

76 T5 - Understanding the Forest-Water Nexus

- Organizer Springgay E. (Italy)
 Chairs del Campo A. (Spain), Harper R. (Australia)
 3705 Long-term soil solution monitoring in temperate and boreal forests under the International Co-operative Programme on Forests
Nieminen T. (Finland)
 3280 Methods and tools to assess impacts of climate change on the role of trees and forests in the hydrological cycle
Gebrekirostos A. (Kenya)
 3234 Evaluating the Economic Value of Water Conservation by Forests: Evidences from Taiwan
Hsien C. (Taiwan)
 1725 Understanding the Forest-Water Nexus: a monitoring tool
Springgay E. (Italy)

- 3606 Session overview
Harper R. (Australia)
- 3652 Prediction versus reality: the challenges in estimating below-ground forest carbon
Sochacki S. (Australia)
- 3621 The Blue Targeting – designing a functional forest riparian zone
Jägerud L. (Sweden)

- 1469 Ghana's high forests: trends, scenarios and pathways for future developments
Aduro K. (Ghana)
- 650 A South African Integrated Forest Protection Strategy
Upfold S. (South Africa)
- 2787 Utility of a typology of timber artisanal loggers, in order to contribute to the formulation of public policy on logging in Orientale province
Lescuyer G. (Indonesia)

**15:30 – 17:30 K 2-4 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

**15:30 – 17:30 K 8 (Konzerthaus)
Theme 3: Forests and Forest-Based Products for a Greener Future**

185a D4 - Towards robust projections of forests under climate change

13 T3 - 125 years of cultivating Norway spruce - what have we learnt and lessons for the future

- Organizer Reyer C. (Germany)
- 999 Overview and results of the PROFOUND/ISIMIP multi-model comparison of climate change impacts on forests
Reyer C. (Germany)
- 545 Models and data available for projecting future forest functioning
Ruiz-Benito P. (Spain)
- 3214 Bayesian inference for linking process-based forest models to data - state-of-the-art and challenges
Hartig F. (Germany)
- 1157 Modeling changing forest disturbance regimes
Seidl R. (Austria)
- 3518 Different formulations of tree mortality lead to vastly different forest dynamics: an assessment across 15 models from the stand to the global scale
Bugmann H. (Switzerland)
- 1688 Modelling carbon allocation in forest ecosystems
Merganicová K. (Slovakia)

- Organizer Johansson U. (Sweden)
- Chairs Mason B. (United Kingdom)
- 2513 History of thinning experiments in Sweden with Norway spruce
Agestam E. (Sweden)
- 2210 Long-term study of advanced establishment of beech (*Fagus sylvatica* L.) below Norway spruce shelter (*Picea abies* [L.] Karst.)
Böhme M. (Germany)
- 1316 High-quality Norway spruce for (climate-) dynamic breeding zones
Volmer K. (Germany)

**15:30 – 17:30 K 5-7 (Konzerthaus)
Theme 1: Forests for People**

**15:30 – 17:30 K9 (Konzerthaus)
All Division 7 (Forest Health) Meeting**

49 T1 - Impact of forestry research on policy, livelihoods and economic development in sub-Saharan Africa

199a D7 - Effects of global change on Mediterranean forest insects and interactions with pathogens

- Organizer Ofori D. (Ghana)
- 1909 The Forestry Research Network for Sub-Saharan Africa at 16 : Opportunities and Challenges
Cobbinah J. (Ghana)
- 437 Public-Private Partnerships for sustainable agroforestry and business innovations in Africa: Allanblackia species as a case study
A. Ofori D. (Ghana)
- 2073 Potential contribution of bamboo based agroforestry to rural livelihoods in Omo Forest Reserve, Nigeria
Olajuyigbe S. (Nigeria)
- 3978 Designing a PES strategy for Transboundary riverine Forest Ecosystem: The case of River Lumi Taita Tavetta county Kenya
Ndalilo L. (Kenya)
- 255 The Impacts of Participatory Forest Management Implementation on the Community Livelihoods around Eburu forest, Kenya
Kabasa M. (Kenya)

- Organizer Paine T. (United States of America)
- 2206 Climate extremes promote prolonged diapause in winter pine processionary moth: consequences of bet-hedging
Salman M. (Italy)
- 500 How does global change shape the distribution of forest insects and pathogens?
Robinet C. (France)
- 1943 Patterns of expansion of pine processionary moth and its specialist egg parasitoid at the northern edge of its distributional range.
Simonato M. (France)
- 68 Climatic and anthropogenic influences on forest susceptibility to bark beetles in Mediterranean forests of California, U.S.
Fettig C. (United States of America)
- 668 Various levels of interactions between an invasive ambrosia beetle *Euwallacea nr. fornicatus*, its symbiotic fungi and the host trees in the Mediterranean
Mendel Z. (Israel)

**15:30 – 17:30 Room “Basel + Mühlhausen” (Novotel Freiburg)
All Division 7 (Forest Health) Meeting**

86b D7 - The science of tree health and how we can use it: Multidisciplinary research from the Tree Health and Plant Biosecurity Initiative (THAPBI).

- Organizer Thompson J. (United Kingdom)
 Chairs Cavers S. (United Kingdom)
 2261 Community-based biotic effects as determinants of tree resistance to pests and pathogens
Iason G. (United Kingdom)
 1977 Discrimination Between Species of Phytophthora Using Volatile Organic Compound Signatures
Woodward S. (United Kingdom)
 117 Applying agent based modelling to inform on the impact of technological and behavioural changes in tree health management
Crowe A. (United Kingdom)
 1662 Pine processionary moth eggs, early instar larvae and pupae are susceptible to the entomopathogenic fungus *Metarhizium brunneum*
Karaca I. (Turkey)
 2256 Identifying resistance traits in Scots pine (*Pinus sylvestris*) to the pine tree lappet moth (*Dendrolimus pini*)
Sherwood P. (United Kingdom)
 2346 Using integrated epidemiological and economic modelling to assess silvicultural options for forest resilience under uncertain future risk of tree diseases
Healey J. (United Kingdom)
 616 Working with trees, ecosystems, diseases and people: developing new ways of researching tree health in the borderlands
Geoghegan H. (United Kingdom)

**15:30 – 17:30 Room “Baden-Baden” (Novotel Freiburg)
All Division 7 (Forest Health) Meeting**

165a D7 - Dothistroma and other needle diseases of pine

- Organizer Bradshaw R. (New Zealand)
 Chairs Barnes I. (South Africa)
 3316 Global geographic distribution of *Dothistroma* species and the population structure of *D. septosporum* in northern Europe and Asia
Drenkhan R. (Estonia)
 3486 Climatic influence on recent outbreaks of *Dothistroma septosporum* and other needle diseases of pine in Sweden.
Stenlid J. (Sweden)
 2014 *Dothistroma* needle blight management and control
Bulman L. (New Zealand)
 1476 *Dothistroma* needle blight in Alberta, Canada
Ramsfield T. (Canada)
 1872 The hosts of *Dothistroma pini* and *D. septosporum*: their resistance and susceptibility
Fraser S. (New Zealand)

- 879 Dynamics of pine pathogens in Switzerland: analysis of 64 years diagnostics
Queloz V. (Switzerland)
 1002 Uncovering the role of secreted proteins in the *Dothistroma* - pine interaction
Hunziker L. (New Zealand)

**15:30 – 17:30 Room “Colmar” (Novotel Freiburg)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

181a D4 - Cross-boundary modelling in a changing world

- Organizer Pommerening A. (Sweden)
 Chairs Hasenauer H. (Austria)
 405 Cross-Boundary Modelling - The Paradigm of our Time?
Pommerening A. (Sweden)
 479 Analysis and modeling spatial and spatial-ontogenetic structure of old-growth boreal forests by random point process models with hierarchical interactions
Grabarnik P. (Russian Federation)
 2493 Modelling canopy variables related to wildfire hazard with field data, LiDAR and other remote sensors
Álvarez-González J. (Spain)
 463 Natural data assimilation with a view to forestry
Muszta A. (Sweden)
 4070 Balancing bioenergy production and ecosystem services in the Alps
Leduc S. (Austria)

**15:30 – 17:30 KG I - 1009 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting**

12b D9 - Open Session

- Organizer Kleinschmit D. (Germany)
 Chairs Reinecke S. (Germany)
 1134 Forest Research and networking in an ever-changing environment: The History of IUFRO
Johann E. (Austria)
 3842 Education, landscape approach and transdisciplinarity as tools to bridge policy-science-people barriers
Angelstam P. (Sweden)
 752 Spruce or not? Contextual and attitudinal drivers behind the choice of tree species in Southern Sweden
Lodin I. (Sweden)
 3092 Planted forests in emerging economies: Best practices for sustainable and responsible investments
Brotto L. (Italy)
 864 The State and Future of Forest Carbon Monitoring in Africa in the Context of Climate Change Mitigation
Gizachew Zeleke B. (Norway)
 1295 Exclusion of Community Forest Associations in decision making and its impact on forest condition; Case Study of Arabuko Sokoke, Upper Imenti and Ramogi forests, Kenya
Ongugo R. (Kenya)

15:30 – 17:30 **KG I - 1010 (University Freiburg)**
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions

58b T4 - Managing forests for Biodiversity and Resilience

- Organizer Oxbrough A. (United Kingdom)
- 2806 High resilience of tropical forest diversity and structure after shifting cultivation in the Philippines uplands
Mukul S. (Bangladesh)
- 1953 Functional diversity in temperate managed forest of Mexico: a new approach to assess the impact of harvest intensity.
Hernández-de la Rosa P. (Mexico)
- 1049 Combining forest vegetation resurveys across regions to advance global change research
Verheyen K. (Belgium)
- 2944 Soil humidity, potential solar radiation and altitude affects boreal beetle assemblages in dead wood
Johansson T. (Sweden)

15:30 – 17:30 **KG I - 1015 (University Freiburg)**
Theme 5: Forests, Soil and Water Interactions

123b T5 - Roots and Ecosystem Services

- Organizer Prescott C. (Canada)
- 980 Do residual roots and stumps mitigate mineral soil carbon loss?: An examination of harvesting and organic matter removal experiments across a range of forest types
Hatten J. (United States of America)
- 1308 Fine root dynamics and their contribution to net primary production in cool-temperate forests
An J. (Japan)
- 2985 Are tree species diversity and identity effects on soil carbon stocks linked with fine root biomass across Europe?
Vesterdal L. (Denmark)
- 4076 Including below-ground tree biomass in quantification of carbon pools before and after variable retention harvesting in the mixedwood boreal forest
Bergeron C. (Canada)
- 1178 Estimates of roots using ground penetrating radar and root anchorage in a coastal *Pinus thubergii* forest
Hirano Y. (Japan)
- 1177 Root growth dynamics of three beech (*Fagus sylvatica* L.) provenances
Zeleznik P. (Slovenia)

15:30 – 17:30 **KG I - 1098 (University Freiburg)**
Theme 2: Forests and Climate Change

68a T2 - Forest Adaptation and Restoration under Global Change

- Organizer Bolte A. (Germany)
- 3223 IUFRO TF Forest Adaptation and Restoration under Global Change - summary of two years work
Bolte A. (Germany)
- 3826 Addressing governance challenges for forest landscape restoration
Mansourian S. (Switzerland)

- 1403 Climate, soil or seed origin: what drives forest growth ?
Chakraborty D. (Austria)
- 383 Identifying suitable species compositions to mitigate economic risks under climate change - A mechanistic modelling approach under uncertainty
Paul C. (Germany)
- 3086 Is Douglas-fir adaptation to drought rooted on provenance variation for cavitation vulnerability?
Chauvin T. (France)
- 1483 Performance of *Nothofagus antarctica* seedlings underplanted in different light environments and gap sizes for forest restoration under global change in Chilean Patagonia
Cruz G. (Chile)
- 2315 Plantation forestry in China: research advancement and future perspectives
Liu S. (China)

15:30 – 17:30 **KG I - Aula (University Freiburg)**
Theme 3: Forests and Forest-Based Products for a Greener Future

184a T3 - Marketing and Business Practices of the Bioeconomy

- Organizer Smith B. (United States of America)
- 1342 Green, Circular, Bio economy: a comparative analysis of sustainability narratives
D'Amato D. (Finland)
- 2817 Business Practices for a Circular Bioeconomy in Germany - An explorative analysis
Leipold S. (Germany)
- 3650 A Ten-Year Review of Sustainable Development: A Case Study of Stora Enso and Asian Pulp & Paper
Wen Z. (China)
- 3566 Managerial Perceptions of Carbon Emission Trading in China: An Exploratory Study from the Domestic Forest Industry
Li N. (China)
- 2878 Harnessing the Potential of Productive Forests and Timber Value Chains for Climate Change Mitigation and Green Growth: Private Sector Opportunities
Held C. (Germany)
- 2880 The Logging Industry in the U.S. South: A Post-Recession Perspective
Vlosky R. (United States of America)

15:30 – 17:30 **KG I - 1132 (University Freiburg)**
All Division 6 (Social Aspects of Forests and Forestry) Meeting

133 D6 - Social dimension of wildlife conservation and management

- Organizer Skorupski M. (Poland)
- Chairs Lukowski A. (Poland)
- 1381 Social acceptability of pest management in UK forests: Does species and place matter?
Marzano M. (United Kingdom)
- 1154 Social relation between deer damage in forests and hunting culture for finding future directions of rural community
Kitajima K. (Japan)

- 1588 Crop damages by wildlife and citizens' willingness to pay for wildlife conservation in protected areas in Korea – The case of Jirisan National Park
Youn Y. (South Korea (ROK))
- 1834 Don't be afraid, my deer: Analysing the wildlife's landscape of fear caused by recreational activities to minimise conflicts
Brandenburg C. (Austria)
- 3348 Exploring human-nature relationships in Chile: a multi-stakeholder perspective to wildlife conservation management
Bidegain I. (Chile)
- 3399 Nexus between local livelihood and wildlife conservation: Securing economic benefit and biodiversity conservation through Eco tourism in Chitwan National Park, Nepal
Kazuhiro H. (Japan)
- 3852 The society of large cities and its attitude towards controlling game populations in municipal forests
Gruchala A. (Poland)

**15:30 – 17:30 KG I - 1139 (University Freiburg)
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions**

84a T4 - Promoting forest resilience, adaptive capacity, and ecosystem services through diverse forest ecosystems

- Organizer Bauhus J. (Germany)
- Chairs Doyon F. (Canada), Puettmann K. (United States of America)
- 3016 Silvicultural treatments to increase the provision of multiple ecosystem goods and services
Puettmann K. (United States of America)
- 2378 In search of robustness: modelling a portfolio of forest stand responses to different silvicultural treatments under global change threats.
Doyon F. (Canada)
- 1544 Enhanced carbon storage and co-benefits through management for structural complexity and old-growth characteristics in northern hardwood-conifer forests of North America
Keeton W. (United States of America)
- 1180 Managing young and mid seral secondary forests to increase their oldgrowthness in Chile
Donoso P. (Chile)
- 1627 Growth response on drought of European mixed-species stands compared with monocultures
Pretzsch H. (Germany)
- 2577 The ecosystem service benefits of mixtures: Risk trade-offs and overcoming the implementation gap
Felton A. (Sweden)

**15:30 – 17:30 KG I - 1199 (University Freiburg)
All Division 7 (Forest Health) Meeting**

83a D7 - Are we doing the right things to deal with invasive forest pest and pathogens? Lessons from history and current strategies

- Organizer Villari C. (United States of America)
- Chairs Bonello P. (United States of America), J.K. Gandhi K. (United States of America)
- 156 Tree Resistance as a Primary Tool for Managing Forest Pathogen and Insect Invasions in Defense-Free Space
Bonello P. (United States of America)
- 4044 Role of sea containers in unintentional movement of invasive "hitchhiker" pests – a closer look at a barely managed pathway
Brockhoff E. (New Zealand)
- 1331 Different invasive forest pathogens need different management strategies, a view from a Mediterranean perspective
Santini A. (Italy)
- 1207 Biological control of insects in plantation forests: Optimising an old approach for diverse and changing environments
Hurley B. (South Africa)
- 3061 The role of molecular ecology in the management of invasive pests and pathogens in plantation forestry
Slippers B. (South Africa)
- 1538 New methods for the biological control of chestnut blight assessed with a mark-release-recapture experiment
Meyer J. (Switzerland)

**15:30 – 17:30 KG I - 1224 (University Freiburg)
All Division 3 (Forest Operations Engineering and Management) Meeting**

151a D3 - History, Findings, and Future Directions of Forest Landowner Research

- Organizer Butler B. (United States of America)
- 1429 Forest Landowner Surveys in the USA: History, Findings, and Future Directions
Butler B. (United States of America)
- 1019 Forest Landowner Surveys in Finland: History, Findings and Future Directions
Karppinen H. (Finland)
- 180 Forest Landowner Surveys in Austria: History, Findings and Future Directions
Sekot W. (Austria)
- 1266 Forest Owner Surveys in Japan: History, Findings, and Future Direction
Ishizaki R. (Japan)
- 139 Unde venis - quo vadis accountancy network - from Fortran to Bayesian network
Hartebrodt C. (Germany)
- 2340 Results from the long term Forest Accountancy Networks (FAN) of private forest enterprises in Westfalia-Lippe in Germany
Däg M. (Germany)
- 1789 Trends of forest ownership in Lithuania
Lukmine D. (Lithuania)

15:30 – 17:30 **KG I - 1228 (University Freiburg)**
All Division 9 (Forest Policy and Economics) Meeting

- 38 D9 - Impacts of voluntary forest management certification: challenges and solutions in measuring results**
- Organizer Karmann M. (Germany)
- Chairs Kennedy E. (United States of America)
- 2656 Monitoring and evaluating effects and impacts for FSC Forest management certification
Kennedy E. (United States of America)
- 1239 Influences of the FSC certification process on forest governance in the Congo basin
Lescuyer G. (Indonesia)
- 3683 A simple and effective methodology to show FSC impact on conservation
von Stedingk H. (Sweden)
- 3187 Do certified private forest plantations increase the provision of and access to social services for local communities?
Degnet M. (Netherlands)
- 2773 Impacts of forest tenure and management regimes on forest cover change - lessons learned from a pan-tropical evaluation
Mo K. (United States of America)
- 4050 Demonstrating impacts from certifying ecosystem services: Challenges and solutions
Savilaakso S. (Indonesia)
- 3088 Influence of corporate responsibility on financial return in planted forests: case studies from South East Asia and Africa
Brotto L. (Italy)

15:30 – 17:30 **KG II - Auditorium Maximum (University Freiburg)**
All Division 9 (Forest Policy and Economics) Meeting

- 127 D9 - The politics of forest governance**
- Organizer Arts B. (Netherlands)
- Chairs Behagel J. (Netherlands)
- 2871 How to cut a virgin forest, a Romanian legal perspective
Hanzu M. (Romania)
- 334 Collaborating with the state: Explaining the dynamics of deliberations and political decision-making in the adoption of a National Forest Program
Johansson J. (Sweden)
- 3763 Increasing deregulation of the forest sector - implications for actors' cooperation
Selter A. (Germany)
- 3037 The politics of forest governance
Behagel J. (Netherlands)
- 2205 Obstacles to the Ecosystem Approach in Aquitaine forestry: analyzing coupling systems between science and politics in third party governance
Conchon P. (France)

18:00 – 19:30 **K 1 (Konzerthaus)**
Theme 2: Forests and Climate Change

- 111 T2 - Today ignored, rediscovered tomorrow: The importance of minor tree species in future.**
- Organizer Kunz J. (Germany)
- 1499 Silvicultural practices for wild pear (*Pyrus pyraeaster*)
Asbeck T. (Germany)
- 3519 The potential of birch (*Betula pendula* Roth and *B. pubescens* Ehrh.) for forestry in Western Europe.
Dubois H. (Belgium)
- 2709 Dynamics in flushing dates of *Sorbus torminalis* (L.) Crantz half-sibs families - a key issue for adaptation to climate change
Sulkowska M. (Poland)
- 2872 How effective are plantings for genetic conservation to facilitate minor tree species in southwest Germany?
Kunz J. (Germany)

18:00 – 19:30 **K 2-4 (Konzerthaus)**
All Division 4 (Forest Assessment, Modelling and Management) Meeting

- 185b D4 - Towards robust projections of forests under climate change**
- Organizer Reyer C. (Germany)
- 1452 Climate drivers of regional forest dynamics
Lines E. (United Kingdom)
- 3460 Modeling forest dynamics across Europe: What can we learn from global sensitivity analysis?
Huber N. (Switzerland)
- 2217 Identifying the knowledge gap between climate change forest-impact modelers and stakeholders
Blennow K. (Sweden)

18:00 – 19:30 **K9 (Konzerthaus)**
All Division 7 (Forest Health) Meeting

- 199b D7 - Effects of global change on Mediterranean forest insects and interactions with pathogens**
- Organizer Paine T. (United States of America)
- 963 Geographic Area of the Pin Processionary Moth (*Thaumetopea pityocampa* Schiff, Lepidoptera) in the Southern Aleppo Pine Forests and Effect of the Climatic Change
Ben Jamaa M. (Tunisia)
- 1482 Review on the impact of *Leptoglossus occidentalis* on stone pine in the Mediterranean countries
Branco M. (Portugal)
- 2191 Do fungal mutualists determine invasion success in competitive interactions between ambrosia beetles?
Biedermann P. (Germany)
- 2811 Alien pathogens and native vectors: how to take advantages from new associations
Battisti A. (Italy)
- 191 Emergence of pests as results of global change
Paine T. (United States of America)

**18:00 – 19:30 Room "Basel + Mühlhausen" (Novotel Freiburg)
Theme 1: Forests for People**

54 T1 - Global Forest Technology Sharing Framework

- Organizer Costanza A. (United States of America)
- 1548 Building the Open Forestry Framework to Connect and Curate Forestry Knowledge
Costanza A. (United States of America)
- 537 Open Forestry, a new generations movement
Neves Silva L. (Switzerland)
- 2125 An Open Science view of a technology sharing framework
Garfinkel M. (Germany)
- 2384 Sustainable Intensification and Restoration: How to use technology to meet tomorrows demand and increase low-cost restoration of degraded land
Braga E. (Brazil)
- Panel Discussion

**18:00 – 19:30 Room "Baden-Baden" (Novotel Freiburg)
All Division 7 (Forest Health) Meeting**

165b D7 - Dothistroma and other needle diseases of pine

- Organizer Bradshaw R. (New Zealand)
- Chairs Barnes I. (South Africa)
- 3147 Shoot And Needle Diseases Of Pines In Turkey
Lehtijärvi A. (Turkey)
- 3862 Insights into the pathways of spread and potential origins of Dothistroma septosporum in Britain
Mullett M. (United Kingdom)
- 3702 High throughput monitoring of Dothistroma and Lecanosticta needle blight in Switzerland
Schneider S. (Switzerland)
- 2424 New cryptic species and a putative center of diversity for the pine pathogens Dothistroma and Lecanosticta
Barnes I. (South Africa)
- 2556 How Common is Dothistroma Needle Blight in Botanic Gardens and Arboreta?
Oskay F. (Turkey)

**18:00 – 19:30 Room "Colmar" (Novotel Freiburg)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

181b D4 - Cross-boundary modelling in a changing world

- Organizer Pommerening A. (Sweden)
- Chairs Hasenauer H. (Austria)
- 2936 Mixed-effect models for nonlinear natural processes
Mehtätalo L. (Finland)
- 1393 Genetic variation may buffer effects of climate change on distribution of forests: a trans continent application of species distribution model
Chakraborty D. (Austria)

- 107 Modeling growth of trees by marked point processes evolving in time
Särkkä A. (Sweden)

**18:00 – 19:30 KG I - 1009 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting**

12c D9 - Open Session

- Organizer Kleinschmit D. (Germany)
- Chairs Kruse S. (Germany)
- 1416 Biopiracy in Turkey
Birben Ü. (Turkey)
- 2597 The Loss of Rare Plant Genetic Resources: A Case Study on Orchids in Yunnan Province in China
Xie H. (China)
- 1437 Agroforestry research in Central Europe: Past, present and future
Woitsch J. (Czech Republic)
- 3423 Promoting and hindering factors for the implementation of agroforestry systems in Germany
Hübner R. (Germany)
- 3503 To implement or not to implement agroforestry practices: An Analytic Network Process approach for European biogeographical regions
Lovric M. (Finland)

**18:00 – 19:30 KG I - 1010 (University Freiburg)
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions**

58c T4 - Managing forests for Biodiversity and Resilience

- Organizer Oxbrough A. (United Kingdom)
- 2207 Impact of restoration and surrounding landscape structure on the risk of bark beetle outbreak in boreal coniferous forests
Hekkala A. (Sweden)
- 3676 Influence of forest tree species composition on bryophytic diversity in mixed and pure pine and oak stands
Gosselin M. (France)
- 2396 Influence of stand age and forest type on spider taxonomic and functional diversity in plantation forests
Godsman K. (United Kingdom)
- 3138 Biodiversity resilience in the wake of variable retention harvest in the Canadian mixedwood
Spence J. (Canada)
- 3146 Drivers of ground-dwelling arthropod diversity in small and isolated semi-natural woodlands
Oxbrough A. (United Kingdom)
- 2367 Tree diversity in plantation forests: evidence for the "portfolio effect" in a large-scale diversity experiment
Devaney J. (United States of America)

**18:00 – 19:30 KG I - 1015 (University Freiburg)
Theme 5: Forests, Soil and Water Interactions**

- 123c T5 - Roots and Ecosystem Services**
 Organizer Prescott C. (Canada)
- 85 Responses of tree roots to drought and its effects on belowground carbon sequestration
Brunner I. (Switzerland)
 - 2249 Root and shoot phenology of boreal trees in relation to waterlogging and soil freezing
Repo T. (Finland)
 - 579 Active Recovery by Tree Roots
Flores Fernandez J. (Germany)
 - 3761 Analysing roots' response to low soil P supply
Löw C. (Germany)
 - 1286 Age of fine roots across a range of forest ecosystems
Solly E. (Switzerland)
 - 1990 A diversity of fungi adapt to form relationships with adventitious rooting systems developing in canopy soils of an old-growth temperate rainforest
Mafune K. (United States of America)

**18:00 – 19:30 KG I - 1098 (University Freiburg)
Theme 2: Forests and Climate Change**

- 68b T2 - Forest Adaptation and Restoration under Global Change**
 Organizer Bolte A. (Germany)
- 1085 Biodiversity Conservation through Adaptive Forests Management in the Western Ghats Mountain under a Changing Climate
Krishnapillai S. (India)
 - 1689 Kawale dry season tree planting, an innovation amidst climate change, Malawi
Jere N. (Malawi)
- Panel Discussion

**18:00 – 19:30 KG I - Aula (University Freiburg)
Theme 3: Forests and Forest-Based Products for a Greener Future**

- 184b T3 - Marketing and Business Practices of the Bioeconomy**
 Organizer Smith B. (United States of America)
- 2470 Opportunities and limitations of the non timber forestal products in the participatory guarantee systems of the plurinational state of Bolivia
Lopez Rosse E. (Bolivia)
 - 1961 Brazilian international market Fairtrade products
Costa F. (Brazil)

- 670 Review on firm-level competitiveness in the forest sector
Korhonen J. (Finland)
- 1216 Institutional investment in timberland, analysis of recent global trends
Crespo Pinillos O. (United States of America)
- 2847 Frontiers of the European forest-based sector
Lovic N. (Finland)
- 671 Shared logic and customer information as means for creating value-added in wood-based residential construction
Toivonen R. (Finland)

**18:00 – 19:30 KG I - 1132 (University Freiburg)
All Division 6 (Social Aspects of Forests and Forestry) Meeting**

- 155 D6 - Cities, Trees, Carbon, and Climate Change Mitigation**
 Organizer Bettinger P. (United States of America)
- Chairs Siry J. (United States of America)
- 34 Geospatial Approaches to the Assessment of Urban Forest Cover
Bettinger P. (United States of America)
 - 301 Stakeholders support for using urban forests to mitigate and adapt to climate change
Siry J. (United States of America)
 - 3054 Spatio-temporal patterns of carbon storage by urban forest: implications for CO2 emissions mitigation under China's rapid urban expansion and greening
Zheng H. (China)
 - 3904 Engaging and mobilizing citizens in preparing our urban forests for climate change - reviewing the role of mapping and visualization tools
Sheppard S. (Canada)
 - 1636 Urbanization and forest type effect on landscape patterns, structural and taxonomic attributes and services of urban forests in Changchun, China
He X. (China)

**18:00 – 19:30 KG I - 1139 (University Freiburg)
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions**

- 84b T4 - Promoting forest resilience, adaptive capacity, and ecosystem services through diverse forest ecosystems**
 Organizer Bauhus J. (Germany)
- Chairs Doyon F. (Canada), Puettmann K. (United States of America)
- 1202 Ecological stability of mixed-species forests
Bauhus J. (Germany)
 - 3038 The role of tree diversity for ecosystem resilience and services
Scherer-Lorenzen M. (Germany)

18:00 – 19:30 **KG I - 1199 (University Freiburg)**
All Division 7 (Forest Health) Meeting

- 83b D7 - Are we doing the right things to deal with invasive forest pest and pathogens? Lessons from history and current strategies**
- Organizer Villari C. (United States of America)
- Chairs Bonello P. (United States of America), J.K. Gandhi K. (United States of America)
- 2172 Management of invasive alien tree pests: Ash Dieback and Dutch Elm Disease as examples
Vasaitis R. (Sweden)
- 4049 Ash dieback and modern techniques for resistance phenotyping
Cleary M. (Sweden)
- 1087 The importance of climatic matching in classical biocontrol of an invasive forest insect
Corley J. (Argentina)
- Panel Discussion

18:00 – 19:30 **KG I - 1224 (University Freiburg)**
All Division 3 (Forest Operations Engineering and Management) Meeting

- 151b D3 - History, Findings, and Future Directions of Forest Landowner Research**
- Organizer Butler B. (United States of America)
- 3247 Shaping forest owners behavior through norm sending structures and educational processes - the Swedish case
Lidestav G. (Sweden)
- 364 Describing non-industrial private forest (NIPF) owners through their forests - an application of the place attachment framework
Põllumäe P. (Estonia)
- 3477 Understanding small woodland owners and managers in the UK: evidence to promote resilient behaviour change?
Ambrose-Oji B. (United Kingdom)
- 3770 Spatially-explicit analysis of forest landowners
Ficko A. (Slovenia)
- Panel Discussion

18:00 – 19:30 **KG I - 1228 (University Freiburg)**
All Division 9 (Forest Policy and Economics) Meeting

- 104 D9 - Valuation of Multipurpose Forest Management Options under Changing Climate**
- Organizer Liu S. (China)
- 2022 Multipurpose forestry - an adaptive system for the future?
Spiecker H. (Germany)
- 3543 Economic and Life Cycle Analyses of Biomass Utilization for Bioenergy Products in the Northeastern United States
Wang J. (United States of America)
- 3633 Simulating effects of Silvicultural treatments on selected forest goods and services - a case study in subtropical China
Wu S. (China)
- 336 The spatial distribution of an economically important NWFPs-providing species, *Juglans regia*, in Arasbaran forests of Iran
ghanbari s. (Iran)
- 3125 Playing games in forest based climate change mitigation
Soltani A. (Norway)

KONZERTHAUS				
	Rolf Böhme Saal	K1	K2-4	K5-7
8:00	161 D7 - Combined and interactive effects of multiple stressors on forest health	4b D4 - Open Session	202 D3 - Eco-friendly harvesting operations in mountainous terrains	99 D4 - Adaptive spaces: can forest planning support innovative forest practice and knowledge co-creation
8:30				
9:00				
9:30				
10:00	Coffee Break (Konzerthaus & University KG I)			
10:30	LIVE STREAM			
11:00	KP2 Keynote Plenary Session More details on page 164			
11:30				
12:00	Lunch break (Mensa) and visit of the Poster Exhibition (University, KG II, HS2121)			
13:30	LIVE STREAM			
14:00	SP8 Forest and Tree Research for Sustainable Development More details on page 168			
14:30				
15:00	Coffee Break (Konzerthaus & University KG I)			
15:30	192 D7 - Global decline of Fraxinus species caused by invasive pests and pathogens	4c D4 - Open Session		60 T5 - Open Session
16:00				
16:30				
17:00				
17:30	LIVE STREAM			
18:00	CC - Closing Ceremony More details on page 227			
18:30				
19:00				
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21:00				
21:30				

KONZERTHAUS		NOVOTEL		
K8	K9	Room "Basel + Mühlhausen"	Room "Baden-Baden"	Room "Colmar"
170 D7 - Understanding viruses in trees - promoting healthy plants in forest and urban open space	25 T1 - Food-trees in forest and farmlands: improving livelihood of communities in tropical regions	47a T4 - Open Session	41 T5 - Forest rhizosphere ecology and biogeochemistry across environmental gradients	23 T4 - Tree biodiversity at the genetic level: vital to confront environmental and livelihood challenges
Coffee Break (Konzerthaus & University KG I)				
Lunch break (Mensa) and visit of the Poster Exhibition (University, KG II, HS2121)				
Coffee Break (Konzerthaus & University KG I)				
120 D7 - Insect pests and pathogens of tree reproductive structures in a changing world: assessing vulnerability and mitigation strategies	20 T1 - Open Session	47b T4 - Open Session	187 D4 - Remote Sensing in Carbon Balance Evaluation and Monitoring	33 T2 - Open Session

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UNIVERSITY					
	KG I - 1009	KG I - 1010	KG I - 1015	KG I - 1098	KG I - Aula
8:00		51a T2 – Forest management strategies to enhance the mitigation potential of European forests	37 D6 – Intact forest landscapes in the context of voluntary certification of forest management	203 D9 – Forests for sustainable development: shifting discourses and approaches	85 D7 – Sustaining Ecological Services and Preservation in an Era of Climate Change, Fragmenting Boundaries, and Intensifying Native Invasive Disturbances
8:30					
9:00					
9:30					
10:00	Coffee Break (Konzerthaus & University KG I)				
10:30					
11:00					
11:30					
12:00	Lunch break (Mensa) and visit of the Poster Exhibition (University, KG II, HS2121)				
13:30		LIVE STREAM			
14:00		SP6 Forest Operations Engineering and Management – Challenges and Opportunities			
14:30					
15:00	Coffee Break	More details on page 166	Coffee Break (Konzerthaus & University KG I)		
15:30	135 T2 – Linkages between carbon sequestration and nutrient and water use efficiency in forests	51b T2 – Forest management strategies to enhance the mitigation potential of European forests			75 T3 – The nexus between bioeconomy and forest biomass: Challenges, opportunities and necessary steps in the forthcoming decades
16:00					
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UNIVERSITY					
KG I - 1139	KG I - 1199	KG I - 1224	KG I - 1228	KG II - Auditorium Maximum	KG II - 2121
3 D3 – Open Session	32 T3 – Perspective of short rotation forestry for sustaining society and environment	175 D9 – Research approaches to forest policy and governance analysis	158 D9 – Publishing forest and wood science: Challenges for editors and publishers	52 T3 – Analyzing the context of energy wood production and use: policy and management approaches adopted by selected countries ...	Poster Exhibition
					for more Details see page 216
Coffee Break (Konzerthaus & University KG I)					
Lunch break (Mensa) and visit of the Poster Exhibition (University, KG II, HS2121)					
				LIVE STREAM	
				SP7 Changes in Forest Governance across the Globe: Implications for Sustainable Forest Management	
					More details on page 167
Coffee Break (Konzerthaus & University KG I)					
27 D9 – Community forestry/ Co-management as a possible solution for forest governance and livelihood assurance for forest people in light of ...	69 D6 – Urban forestry for quality of life – the impacts of research on everyday practices	70 D9 – Improved role of forests for people through favourable forest laws and environmental legislation	137 D9 – How can we contribute to better information and more efficient communication among different fields of science?		

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Keynote Plenary Session

10:30 – 12:00 Rolf Böhme Saal (Konzerthaus Freiburg) LIVE STREAM Keynote Plenary Session 2

KP2 Challenges for future forest research

Moderator John Parrotta (IUFRO vice-president), US Forest Service, USA



The perverse outcomes of incentives for forest conservation
Arun Agrawal, University of Michigan, USA

Arun Agrawal is Samuel Trask Dana Professor of Sustainability and Governance at the School of Natural Resources and Environment at the University of Michigan, Ann Arbor. He also currently coordinates the International Forestry Resources and Institutions network, and is the co-founder of the FLARE (Forests and Livelihoods) community of practice. In addition to teaching, Arun serves as the editor-in-chief of World Development. Arun is the author of Greener Pastures and Environmentality, and his research has appeared in American Political Science Review, Conservation Biology, Current Anthropology, Science, and World Development among other journals.



Restoration Forestry: Challenges and Opportunities for Foresters, Forests, and Landscapes
Robin Chazdon, University of Connecticut, USA

Robin Chazdon is a Research Professor at the University of Connecticut, USA; a Senior Research Associate with the International Institute for Sustainability, Rio de Janeiro, Brazil; a Research Professor with the Tropical Forests and People Centre, University of the Sunshine Coast, Australia; and an Adjunct Professor at the University of Colorado, USA. She studies the regeneration and restoration of tropical forests in human-modified landscapes. She is the Executive Director of the Association for Tropical Biology and Conservation and the Director of PARTNERS (People and Reforestation in the Tropics), an interdisciplinary research coordination network. She has published over 130 peer-reviewed papers. Her book "Second growth: The promise of tropical forest regeneration in an age of deforestation" was published in 2014.



Hidden biodiversity and forest dynamics
Hojka Kraigher, Slovenian Forestry Institute, SLOVENIA

Hojka Kraigher, is the Head of Department for Forest Physiology and Genetics and of the Research Program Forest Biology, Ecology and Technology at the Slovenian Forestry Institute (<http://en.gozdis.si/about/employees/?id=36>). She is also an Associated Professor of Botany at the University of Ljubljana. Her expertise lies in physiology and ecology of forest trees and mycorrhiza, and in conservation of forest genetic resources. She coordinated the European Forest research and Innovation, EUFORINNO, dedicated to capacity building within the institute, and is at present coordinating a LIFE+ implementation project on development of a system for forest genetic monitoring "LIFE+GENMON". She has been authorized by the Ministry for Agriculture, Forestry and Food to carry responsibility for the conservation of forest genetic resources and certification of the forest reproductive material, and has been the national coordinator of EUFORGEN since 1997. Moreover, she serves as the President of the Scientific Council for Biotechnical Sciences at the Slovenian Research Agency, and is the Scientific Advisor to the Slovenian Academy of Sciences and Arts in the field of forestry.



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Sub-plenary Sessions

13:30 – 15:00 KG I - 1010 (University Freiburg) LIVE STREAM Sub-plenary Session 6

SP6 Forest Operations Engineering and Management – Challenges and Opportunities

- Organizer IUFRO Division 3, Forest Operations Engineering and Management
- Moderator Woodam Chung (coordinator, IUFRO Division 3), Oregon State University, USA
- Forest Operations Engineering and Management - Challenges and Opportunities
Woodam Chung, Oregon State University, USA
- Challenges in Forest Operations from Industry Perspective
Lee Miller, Miller Timber Services, USA
- The role of forest engineering research in developing and translating innovations to practice
Ola Lindroos, Swedish University of Agricultural Sciences, SWEDEN
- New Technologies and Innovations in Forest Harvesting and Transportation
Dominik Röser, Finnish Forest Research Institute, FINLAND
- The Future of Forest Engineering
Hans Heinimann, ETH Zurich, SWITZERLAND
- Panel Discussion

13:30 – 15:00 KG II - Auditorium Maximum (University Freiburg) LIVE STREAM Sub-plenary Session 7

SP7 Changes in Forest Governance – Implications for Sustainable Forest Management

- Organizer IUFRO Division 9, Forest Policy and Economics
- Chairs Daniela Kleinschmit, University of Freiburg, Germany
Mercy Afua Adutwumwaa Derkyi, University of Energy and Natural Resources (UENR), Ghana
- Changes in forest governance in South America and its implications for Sustainable Forest Management
Pablo Pacheco, CIFOR/Indonesia
- Changes in forest governance in North America and its implications for Sustainable Forest Management
Margaret Shannon, University of Freiburg, GERMANY
- Changes in forest governance in Africa and its implications for Sustainable Forest Management
Paolo Omar Cerruti, CIFOR/ KENYA
- Changes in forest governance in Europe and its implications for Sustainable Forest Management
Metodi Sotirov, University of Freiburg, GERMANY
- Changes in forest governance in Asia and its implications for Sustainable Forest Management
Ahmas Maryudi, Universitas Gadjah Mada, INDONESIA

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Sub-plenary Sessions

13:30 – 15:00 **Rolf Böhme Saal (Konzerthaus Freiburg)** **LIVE STREAM** **Sub-plenary Session 8**

SP8 Forest and Tree Research for Sustainable Development

Organizers International Union of Forest Research Organizations (IUFRO)
CGIAR Research Program on Forests, Trees and Agroforestry (FTA)

Moderator Michael Kleine, Deputy Executive Director, IUFRO

Keynote presentations Recommendations from science to the development agenda: the High Level Panel of Experts' report on Sustainable Forestry for Food Security and Nutrition
Terry Sunderland, Centre for International Forestry Research, INDONESIA

Development demand from member states
Hitori Mitsugi, Food and Agriculture Organization of the United Nations, Rome, ITALY (to be confirmed)

Panel discussion Glenn Galloway, Director, Master of Sustainable Development Practice Program (MDP), Center for Latin American Studies\Center for African Studies, University of Florida, Gainesville, United States

Vincent Gitz, Director of the CGIAR Research Program on Forests, Trees and Agroforestry, Center for International Forestry Research

Mónica Gabay, School of Politics and Government, National University of General San Martín, Argentina

Mercy Afua Adutwumwaa Derkyi, Lecturer, Department of Forest Science, University of Energy and Natural Resources, Ghana

Herbert Christ, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Discussion, questions and answers from and with the audience

17:30 –19:00 **Rolf Böhme Saal (Konzerthaus Freiburg)** **LIVE STREAM** **Special Sessions**

CC Closing Ceremony
For more details see page 227

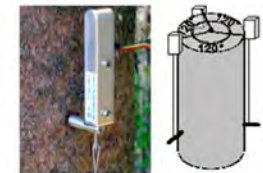


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**08:00 – 10:00 Rolf Böhme Saal (Konzerthaus)
All Division 7 (Forest Health) Meeting**

- 161 D7 - Combined and interactive effects of multiple stressors on forest health**
 Organizer Paoletti E. (Italy)
 3210 The Connection Between Climate and Declining Forest Health in the Western United States
Cohen W. (United States of America)
 1964 Beyond Drought: Excessive Wetness, Precipitation Variance and Forest Productivity
Hubbart J. (United States of America)
 1831 Multiple stressors of pine trees: Links between environmental heterogeneity, mammalian browsing and insect herbivory
Björkman C. (Sweden)
 1709 Interactive effects of ozone and soil on the decomposition process in a Free Air Controlled Exposure (FACE) system
Agathokleous E. (Japan)
 3700 Is there a mechanistic link between aerosol pollution and drought effects on trees?
Burkhardt J. (Germany)

**08:00 – 10:00 K 1 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

- 4b D4 - Open Session**
 Organizer Peyron J. (France)
 Chairs Tomé M. (Portugal)
 3225 Price Impact Analysis of Increased Biofuel Production on Forest Feedstock Markets: A Spatial Explicit Approach for Sweden
Ouraich I. (Sweden)
 1081 A Monte Carlo appraisal of the estimation of forest tree abundance and basal area by terrestrial laser scanning
Di Biase R. (Italy)
 349 Geostatistical model-based estimation of forest biomass in interior Alaska combining landsat derived tree cover, sampled airborne lidar and field observations
Babcock C. (United States of America)
 2420 Identification of forest carbon stock change using Landsat data and field data for REDD+ reference setting
Hirata Y. (Japan)
 1368 New sustainable business models in forest bio-economy to gain added value for rural areas
Hoffmann C. (Italy)
 842 Analyses of value added chains and changes in value added in the wood-processing industries in Germany
Rosenkranz L. (Germany)
 1351 The last primary forest remnants in Europe: their spatial distribution and determinants
Sabatini F. (Germany)

**08:00 – 10:00 K 2-4 (Konzerthaus)
All Division 3 (Forest Operations Engineering and Management) Meeting**

- 202 D3 - Eco-friendly harvesting operations in mountainous terrains**
 Organizer Cavalli R. (Italy)
 Chairs Heinimann H. (Switzerland), Abbas D. (United States of America)
 669 Automatic harvest and cable road layout planning for multiple objectives
Bont L. (Switzerland)
 257 Forest Operations in Environmentally Sensitive Areas in Europe and the United States: A perspective
Abbas D. (United States of America)
 2274 A spatially explicit harvest scheduling model for optimal management of rockfall protection forests
Maurer S. (Switzerland)
 3656 Cable tension monitoring and setup time of winch assisted single-grip harvesters and forwarders in steep terrain operations
Holzleitner F. (Austria)
 101 Cable logging in the Italian Alps: survey of operations and machine fleet, business perspectives and contract rates
Magagnotti N. (Italy)
 1224 Short span logging cable systems in steep terrains: Running skyline and simple standing skyline systems oriented for small scale forestry
Suzuki Y. (Japan)
 3085 Evaluating the Productivity and Costs of HAM300 for Extract of Small and Medium Size Trees in South Korea
Lee E. (South Korea (ROK))

**08:00 – 10:00 K 5-7 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

- 99 D4 - Adaptive spaces: can forest planning support innovative forest practice and knowledge co-creation**
 Organizer Lawrence A. (United Kingdom)
 Chairs Nelson H. (Canada), Hoogstra-Klein M. (Netherlands)
 2605 Forest planning, innovative practice and knowledge co-creation: an overview
Lawrence A. (United Kingdom)
 855 Coping with uncertainty - exploring the adaptive capacity of Dutch forest managers
Hoogstra-Klein M. (Netherlands)
 4077 Climate futures in place: Using iterated collaborative scenario building for adaptive landscape governance
Williams D. (United States of America)
 1138 Forest planning as a stick and a sermon: framing options for adaptation and innovation
Brukas V. (Sweden)
 1941 Adapting natural resource management to climate change through science-management partnerships
Halofsky J. (United States of America)

- 2967 Role of local knowledge in community forest management: the case of idundakiyave miombo woodland, Tanzania
Bala P. (Denmark)
- 844 Ideal versus Real forest management: a novel approach for applied cross-disciplinary research in forest science
Lodin I. (Sweden)

- 2789 An Assessment of Community-Based Biodiversity Conservation and Rural Livelihood Improvement in the Buffer Zone of Bardia National Park, Nepal
Gaire D. (Nepal)
- 914 Forest gardens improve food security and resilience
Melvani K. (Australia)

**08:00 – 10:00 K 8 (Konzerthaus)
All Division 7 (Forest Health) Meeting**

- 170 D7 - Understanding viruses in trees - promoting healthy plants in forest and urban open space**
- Organizer Büttner C. (Germany)
- 924 Birch leaf-roll disease caused by Cherry Leaf-Roll Virus in Finland
Jalkanen R. (Finland)
- 502 Viral presence in birch in urban areas - a study case from urban green of Berlin
Landgraf M. (Germany)
- 542 Discovery of novel emaraviruses in diseased broad-leaved tree species
von Barga S. (Germany)
- 2328 A new plant virus in Quercus robur - a case study of a conservation seed orchard
Bandte M. (Germany)
- 3546 Identification of virus-like structures in conifer extracts using electron microscopy and serology
Reynard J. (Switzerland)
- 535 Mycoviruses in important tree pathogens
Hantula J. (Finland)
- 1369 The frequent occurrence of the quarantine pest organism Candidatus Phytoplasma ulmi in North-Eastern Germany
Kube M. (Germany)

**08:00 – 10:00 K9 (Konzerthaus)
Theme 1: Forests for People**

- 25 T1 - Food-trees in forest and farmlands: improving livelihood of communities in tropical regions**
- Organizer Muchugi A. (Kenya)
- Chairs Begeladze S. (United States of America)
- 1947 Safe guarding the forest food tree diversity
Muchugi A. (Kenya)
- 67 The contribution of trees and palms to a balanced diet in three rural villages of the Fatik Province, Senegal
Sambou A. (Senegal)
- 3854 Economic and ecological benefits of forest landscape restoration in food production systems at global and local level
Begeladze S. (United States of America)
- 3784 Intergrated assesment of baobab value chain in semi-arid areas of Dodoma, Tanzania
Swamila M. (Tanzania)

**08:00 – 10:00 Room "Basel + Mühlhausen" (Novotel Freiburg)
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions**

- 47a T4 - Open Session**
- Organizer Carnus J. (France)
- Chairs Luque S. (France)
- 606 Opportunities and Challenges for the Protection and Ecological Functions Promotion of Natural Forests in China
ZHOU L. (China)
- 407 Assessment of conserved trees in selected recreation centers in Ibadan, Oyo State, Nigeria
Bolanle-Ojo O. (Nigeria)
- 3025 Thinning enhances the resistance and resilience of forest ecosystems to drought
Bottero A. (Switzerland)
- 3197 Land abandonment and spontaneous rewilding: effects of forest recovery
Campagnaro T. (Italy)
- 922 Clonal propagation and cryopreservation of germplasm for coping with climate change in Japanese larch (Larix kaempferi)
Kim Y. (South Korea (ROK))
- 1159 Sub-national Forest Transitions: A matter of scale and regional drivers?
Lippe M. (Germany)

**08:00 – 10:00 Room "Baden-Baden" (Novotel Freiburg)
Theme 5: Forests, Soil and Water Interactions**

- 41 T5 - Forest rhizosphere ecology and biogeochemistry across environmental gradients**
- Organizer Meier I. (Germany)
- Chairs Ostonen I. (Estonia), Soudzilovskaia N. (Netherlands)
- 1740 Priming effect in boreal forest soils along a fertility gradient
Karhu K. (Finland)
- 3664 14CO2 in combination with root-exclusion can be used to estimate plant-induced decomposition of soil organic matter
Heinonsalo J. (Finland)
- 3721 The influence of roots on the decomposition of soil organic matter fractions in boreal forest soil
Heinonsalo J. (Finland)
- 812 Long-Term Simulated Atmospheric Nitrogen Deposition Alters Leaf and Fine Root Decomposition
Pregitzer K. (United States of America)
- 2966 The ability of beech seedlings to shape their rhizosphere in order to cope with low P availability
Luster J. (Switzerland)

- 1807 Influence of the ectomycorrhizal colonization type on root functions under drought stress
Liese R. (Germany)
- 3133 Responses of fine root dynamics and mycelia production to climate-change driven treeline advances
Solly E. (Switzerland)
- 3957 The impacts of forest management practices of Norway spruce on soil fungal communities in the Alps
La Porta N. (Italy)

- 2926 The mitigation potential of European forests
Hasenauer H. (Austria)
- 1396 The FORMIT growth simulator and its application to projections of forest growth under climate change: A case study on trends in Northern Europe in 2010-2100
Mäkelä A. (Finland)
- 2160 Incidence of extreme weather events on NPP and Biomass production
Thivolle-Cazat A. (France)
- 2361 Mitigation potential of forest management and wood products use - Simulation study for intensive monitoring plots of Brandenburg, Germany
Jochheim H. (Germany)
- 2283 The climate impact and mitigation potential of the European forestry sector
Muys B. (Belgium)

**08:00 – 10:00 Room "Colmar" (Novotel Freiburg)
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions**

23 T4 - Tree biodiversity at the genetic level: vital to confront environmental and livelihood challenges

- Organizer Kettle C. (Switzerland)
- 2700 Conservation and sustainable use of food tree species in Burkina Faso: a special focus on the priority species *Parkia biglobosa*
Vinceti B. (Italy)
- 3759 Tools for mapping threats and planning conservation of forest tree genetic resources
Kettle C. (Switzerland)
- 3813 Development and implementation the in situ conservation strategy for the conservation and sustainable use of forest genetic resources in Europe
Bozzano M. (Italy)
- 724 Potential population genetic consequences of habitat fragmentation for Central European forests
Dobes C. (Austria)
- 2934 Genetic diversity structure of populus nigra populations in a major river system in Turkey. What is the role of human impact?
Ciftci A. (Turkey)
- 3191 Involving stakeholders to develop a strategy for improved broadleaved trees: experiences from Britain and Ireland
Petrokofsky G. (United Kingdom)
- 2954 Characterizations of Genetic Diversity and Population Structure of *Salix alba* Population in the Longest River Ecosystem in Middle Anatolia
Özdemir Degirmenci F. (Turkey)

**08:00 – 10:00 KG I - 1010 (University Freiburg)
Theme 2: Forests and Climate Change**

51a T2 - Forest management strategies to enhance the mitigation potential of European forests

- Organizer Mohren F. (Netherlands)
- Chairs Hasenauer H. (Austria)
- 2828 FORest management strategies to enhance the MITigation potential of European forests (FORMIT)
Mohren F. (Netherlands)
- 813 Climate limits across space and time on European forest structure
Moreno A. (United States of America)

**08:00 – 10:00 KG I - 1015 (University Freiburg)
All Division 6 (Social Aspects of Forests and Forestry) Meeting**

37 D6 - Intact forest landscapes in the context of voluntary certification of forest management.

- Organizer Karmann M. (Germany)
- Chairs Franco Gil D. (Germany), Miettinen P. (Germany)
- 1328 High conservation values and intact forest landscapes - changes and challenges for certified operations
Franco Gil D. (Germany)
- 1875 Impacts of logging roads on intact forest landscapes in the tropics
Kleinschroth F. (Switzerland)
- 3290 Intact Forest Landscapes and FSC certification in Brazilian Amazon: challenges to sustainable management
Garcia-Drigo I. (Brazil)
- 1494 The effectiveness of legal protection and FSC certification as instruments for slowing degradation of Intact Forest Landscapes
Potapov P. (United States of America)
- 3726 Driving progress towards best practice in IFLs: the role of transparency
Eves C. (United Kingdom)
- 4000 Creating incentives for the protection of intact forest landscapes using new certification tools for ecosystem services
Henschel C. (Germany)

**08:00 – 10:00 KG I - 1098 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting**

203 D9 - Forests for sustainable development: shifting discourses and approaches

- Organizer Katila P. (Finland)
- Chairs de Jong W. (Japan)
- 197 Forests for Sustainable Development: A process approach to forest sector contributions to the UN 2030 Agenda for Sustainable Development
El-Lakany H. (Canada)

- 70 REDD+ politics in the media: A case study from Vietnam
PHAM T. (Indonesia)
- 3396 Exploring Illegal logging narratives across the globe
Winkel G. (Germany)
- 792 Forestry development priorities in Finnish national forest programmes
Katila P. (Finland)
- 3622 Assessing the Impacts of Environmental Aid: Case Study on American and German Assistance Projects in Ghana
Foster M. (United States of America)
- 892 Shifting global development discourses: Implications for forest-related development?
Galloway G. (United States of America)

- 1503 Productivity and cost of cable-assisted felling and extraction in the Pacific Northwest, USA
Green P. (United States of America)
- 2854 Roll over protective structure for quad bikes
Nordfjell T. (Sweden)
- 3481 Education in safe chainsaw usage and its long term effects
Hägström C. (Sweden)
- 851 Drivers and barriers for effective health protection and accident prevention in small and micro service enterprises in forest operations
Kastenholz E. (Germany)

**08:00 – 10:00 KG I - 1199 (University Freiburg)
Theme 3: Forests and Forest-Based Products for a Greener Future**

32 T3 - Perspective of short rotation forestry for sustaining society and environment

- Organizer Bruckman V. (Austria)
- 1413 Early growth, survival and above-ground biomass production in vegetatively regenerated hybrid aspen (Populus tremula L. × P. tremuloides Michx.) coppice stand in hemiboreal conditions
Tullus H. (Estonia)
- 2515 Canopy conformation for a greater solar radiation interception - a time-scale production system
Righi C. (Brazil)
- 4155 Planted forests in Brazil: benefits and environmental impacts
Malheiros de Oliveira Y. (Brazil)
- 342 Pulping potential of *Corymbia citriodora*, *Corymbia torelliana* and their hybrids
Pamei N. (India)
- 3751 Potential of biomass productivity of poplar (*Populus* spp.) cultivars in short rotations in Poland
Niemczyk M. (Poland)
- 2499 Traits to ecosystems: Linking plant traits to ecosystem processes in willow short rotation forest (ECOLINK-Salix)
Weih M. (Sweden)

**08:00 – 10:00 KG I - 1224 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting**

175 D9 - Research approaches to forest policy and governance analysis

- Organizer Giessen L. (Germany)
- Chairs Arts B. (Netherlands)
- 2994 Institutional forest policy analysis: topics and trends
Arts B. (Netherlands)
- 3163 Discourse analysis in forest policy research
Kleinschmit D. (Germany)
- 3329 A practice based approach to forest policy and governance
Behagel J. (Netherlands)
- 2696 The empirical-analytical approach to forest policy analysis
Giessen L. (Germany)

**08:00 – 10:00 KG I - Aula (University Freiburg)
All Division 7 (Forest Health) Meeting**

85 D7 - Sustaining Ecological Services and Preservation in an Era of Climate Change, Fragmenting Boundaries, and Intensifying Native & Invasive Disturbances

- Organizer Raffa K. (United States of America)
- 1162 Challenges to Managing National Parks for Biodiversity and Ecosystem services under natural disturbances: Lessons from Bavarian Forest Nationalpark
Müller J. (Germany)
- 662 A global analysis of recent disturbance patterns in temperate forest ecosystems
Sommerfeld A. (Austria)
- 984 Microbial interactions with insect disturbance
Karst J. (Canada)
- 2019 Ecological, social, and institutional dimensions of using wildfire to manage fire regimes
Miller C. (United States of America)
- 1580 Interactions among population regulating agents, time delays, and defoliator outbreaks in a changing landscape
Pureswaran D. (Canada)
- 897 The last giant *Araucaria angustifolia* trees in southern Brazil
Callegari Scipioni M. (Brazil)

**08:00 – 10:00 KG I - 1139 (University Freiburg)
All Division 3 (Forest Operations Engineering and Management) Meeting**

3 D3 - Open Session

- Organizer Lindroos O. (Sweden)
- 2091 An early crop tree release approach as a cost effective means of restoring hardwood stands in a Canadian context
Soucy M. (Canada)
- 1859 What does landscape restoration at scale of Initiative 20x20 mean for FLR operations in Latin America?
Zamora-Cristales R. (United States of America)
- 495 Automated volumetric measurement of truckloads through multi-view photogrammetry and 3D image reconstruction software
Acuna M. (Australia)

**08:00 – 10:00 KG I - 1228 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting**

- 158 D9 - Publishing forest and wood science: Challenges for editors and publishers**
- Organizer Nygren P. (Finland)
Chairs Malinen J. (Finland)
- 3205 Quo vadis, forestry journal? The identity and scope of scholarly forestry journals in the era of megajournals and IoT
Witzell J. (Sweden)
- 1582 Coordinating multiple avenues of dissemination in today's technological environment: Extracting value from legacy publications
Moser W. (United States of America)
- 2263 Open science and the quality of science
Nygren P. (Finland)
- 2198 Contribution of Forest Science journals to open data: a few examples and some issues.
Dreyer E. (France)
- 3932 Publishing survey-based research in forestry journals
Stevanov M. (Slovakia)
- 3871 Science to Sustain the World's Forest: publishing issues in Forest Ecology and Management
Binkley D. (United States of America)
- 2066 The International Journal of Forest Engineering: Future Challenges and Opportunities of a Well-Established Journal within the Applied Sciences
Blinn C. (United States of America)

**08:00 – 10:00 KG II - Auditorium Maximum (University Freiburg)
Theme 3: Forests and Forest-Based Products for a Greener Future**

- 52 T3 - Analyzing the context of energy wood production and use: policy and management approaches adopted by selected countries and perspectives of relevant stakeholders.**
- Organizer Wirth K. (Germany)
Chairs Ferranti F. (Germany), Zadnik-Stirn L. (Slovenia)
- 946 Prospects of energy wood production and use in five European countries
Leban V. (Slovenia)
- 1412 Cross-sectoral perception of the operational environment of forest bioenergy production and use in four European countries
Pezdevsek Malovrh S. (Slovenia)
- 313 Possibilities to increase energy wood production: a case study on forest policy-practice interface in selected European countries.
Ferranti F. (Germany)
- 429 The effect of energy wood production and use on other forest ecosystem services - stakeholders' perceptions in five European countries
Wirth K. (Germany)

- 1418 Can private forest owners contribute to Wood Mobilisation? Case study on Croatia, Serbia, Bosnia and Herzegovina, FYR of Macedonia
Posavec S. (Croatia)
- 1421 Factors and trends in the production and use of woody biomass: a case study of Slovenia
Krc J. (Slovenia)
- 1507 Evaluation of indicators that affect the utilization of wood for energy, case of municipality Sentjur, Slovenia
Zadnik-Stirn L. (Slovenia)

**10:30 – 12:00 Rolf Böhme Saal (Konzerthaus)
Keynote Plenary Sessions** **LIVE STREAM**

KP2 Keynote Plenary Session

**13:30 – 15:00 Rolf Böhme Saal (Konzerthaus)
Sub-plenary Sessions** **LIVE STREAM**

SP8 Forest and Tree Research for Sustainable Development

- Organizer Moderator: Buck A. (Austria)

**13:30 – 15:00 KG I - 1010 (University Freiburg)
Sub-plenary Sessions** **LIVE STREAM**

SP6 Forest Operations Engineering and Management – Challenges and Opportunities

- Organizer Moderator: Chung W. (United States of America)
- 4214 "Forest Operations Engineering and Management - Challenges and Opportunities"
Chung W. (United States of America)
- 4215 Challenges in Forest Operations from Industry Perspective
Miller L. (United States of America)
- 4216 "The role of forest engineering research in developing and translating innovations to practice"
Lindroos O. (Sweden)
- 4217 New Technologies and Innovations in Forest Harvesting and Transportation
Rösler D. (Finland)
- 4218 The Future of Forest Engineering
Heinimann H. (Singapore)

**13:30 – 15:00 KG II - Auditorium Maximum (University Freiburg)
Sub-plenary Sessions** **LIVE STREAM**

SP7 Changes in Forest Governance across the Globe: Implications for Sustainable Forest Management

- Organizer Moderator: Kleinschmit D. (Germany)

**15:30 – 17:30 Rolf Böhme Saal (Konzerthaus)
All Division 7 (Forest Health) Meeting**

- 192 D7 - Global decline of Fraxinus species caused by invasive pests and pathogens**
- Organizer Cleary M. (Sweden)
- Chairs Woodward S. (United Kingdom)
- 2707 Can we predict the evolutionary trajectory of the ash dieback pathogen in Europe based on its biology and ecology?
Gross A. (France)
- 453 Population genetic analysis of a parasitic mycovirus to infer the invasion history of its fungal host, the ash-dieback pathogen *Hymenoscyphus fraxineus*
Schoebel C. (Switzerland)
- 804 Fourier-transform infrared (FT-IR) spectroscopy can rapidly phenotype European ash resistance levels to *Hymenoscyphus fraxineus*
Villari C. (United States of America)
- 1813 Emerald ash borer in European part of Russia: 2016 situation update
Baranchikov Y. (Russian Federation)
- 2375 Factors influencing susceptibility and rate of decline in urban trees attacked by emerald ash borer
MacQuarrie C. (Canada)
- 2044 Progress and gaps in understanding mechanisms of ash tree resistance to emerald ash borer
Bonello P. (United States of America)

**15:30 – 17:30 K 1 (Konzerthaus)
All Division 4 (Forest Assessment, Modelling and Management) Meeting**

- 4c D4 - Open Session**
- Organizer Peyron J. (France)
- Chairs Tomé M. (Portugal)
- 2456 Optimizing forest value chains in northern Norway to strengthen regional resource usage and value creation
Johansen U. (Norway)
- 3892 Innovative non-wood forest products economies explained through their network structure: failure or success?
Da Re R. (Italy)
- 3583 Climate friendly harvest scheduling in boreal forests of Finland
Sievänen R. (Finland)
- 874 Market-level implications of regulating forest carbon storage and albedo for climate change mitigation
Rautiainen A. (Finland)
- 2155 Business analyses comparison of selected forest companies in South East Europe
Keca L. (Serbia)
- 1628 Convergence and diversity: international comparability of forest accountancy data networks and approaches for assessing the economics of small-scale farm forestry in the DACH-region
Sekot W. (Austria)
- 2269 Benchmarking based on typical farm data: What forestry may learn from agri benchmark Cash Crop
Zimmer Y. (Germany)

**15:30 – 17:30 K 5-7 (Konzerthaus)
Theme 5: Forests, Soil and Water Interactions**

- 60 T5 - Open Session**
- Organizer Hånell B. (Sweden)
- 1261 Stand property and litter mixture effects on the decomposition rates of total litter and different carbon chemical compositions in the monospecific and mixed subtropical plantations
Wang H. (China)
- 1685 Drought response of individual tree species in mixed conifer stands
Vitali V. (Germany)
- 2489 CHiMP - Efforts to Conserve Highland Flora in Peninsular Malaysia
Marzalina M. (Malaysia)
- 1882 Floristic composition and stand structure in a watershed rainforest in Nigeria: Implications for biodiversity conservation
Olajuyigbe S. (Nigeria)
- 1906 Harmonizing agriculture for food security and forestry for conservation at tropical montane rainforests
Kadir W. (Malaysia)

**15:30 – 17:30 K 8 (Konzerthaus)
All Division 7 (Forest Health) Meeting**

- 120 D7 - Insect pests and pathogens of tree reproductive structures in a changing world: assessing vulnerability and mitigation strategies**
- Organizer Boivin T. (France)
- 2859 Pest management in seed orchards based on monitoring
Rosenberg O. (Sweden)
- 942 The ecology of pre-dispersal seed predation by forest insects
Boivin T. (France)
- 3660 Cone insect monitoring: pheromone trap height in spruce seed orchards
Ylioja T. (Finland)
- 3053 Messing with megagametophyte gene expression allows a seed parasite (*Megastigmus spermotrophus*) to harness the storage reserves of its host, Douglas-fir.
von Aderkas P. (Canada)
- 880 Early detection of invasive seed chalcids (*Megastigmus* spp.) through extensive surveys in major European botanical gardens: the example of rose seed chalcids
Auger-Rozenberg M. (France)
- 2355 Cone and seed insects-mediated impacts of global change on forest health: observations, predictions, and management options.
Candau J. (Canada)

15:30 – 17:30 **K9 (Konzerthaus)**
Theme 1: Forests for People

- 20 T1 - Open Session**
- Organizer Kleinschmit D. (Germany)
- Chairs Stein T. (United States of America)
- 1855 Ecological economics paradigm for sustaining forestry and people
Tunytsya T. (Ukraine)
- 3542 Public acceptability of value-based forest management scenarios
Ford R. (Australia)
- 3183 Ethnographic Analysis of Participatory Forest Management: the role of state in mangrove management in Kenya and Zanzibar (Tanzania)
Mangora M. (Tanzania)
- 624 Placing community-based multiple-use forest management at the centre of the forest policy agenda
Castro Euler A. (Brazil)
- 382 Management and use of Lantana camara as an alien invasive species for improving the livelihood options for farmers
Singh A. (India)
- 90 Basic research for future eventual Forest Landscape Restoration (FLR) of sandstone plateaus of Voltaian geological unit in West-Africa
Folega F. (Togo)
- 2826 Highland restoration to maintain ecological services of forest degraded landscape in northern Thailand through the King Bhumibol's initiatives
Diloksumpun S. (Thailand)

15:30 – 17:30 **Room "Basel + Mühlhausen" (Novotel Freiburg)**
Theme 4: Biodiversity, Ecosystem Services and Biological Invasions

- 47b T4 - Open Session**
- Organizer Carnus J. (France)
- Chairs Luque S. (France)
- 3630 FSC certification - Long-term impact on conservation values in the landscape
de Jong J. (Sweden)
- 1832 An isolated outpost of stone pine (Pinus cembra) and its genetic relationships
Heinze B. (Austria)
- 3821 Antioxidant variability in the seeds of the core and marginal populations of Lebanon cedar (Cedrus libani A. Rich.)
Ayan S. (Turkey)
- 236 Investigation of genetic resource conservation of various types of seeds using cryopreservation technique
Hatami F. (Iran)

15:30 – 17:30 **Room "Baden-Baden" (Novotel Freiburg)**
All Division 4 (Forest Assessment, Modelling and Management) Meeting

- 187 D4 - Remote Sensing in Carbon Balance Evaluation and Monitoring**
- Organizer Zawila-Niedzwiecki T. (Poland)
- 2193 Forest-Observation-System.net - a Global in-situ Biomass Data Repository
Schepaschenko D. (Austria)
- 1414 Unravelling uncertainty - Combining forest cover change products and biomass datasets in the context of REDD+
Bos A. (Netherlands)
- 1839 Uncertainty analysis on the carbon and water balance of Boreal forests using a process-based model driven by satellite images
Minunno F. (Finland)
- 3295 Modeling Carbon Balance in Polish Forests Using Canadian CBM-CFS Software and Remote Sensing.
Balazy R. (Poland)
- 3089 Dynamics of mangrove above ground carbon stocks estimated with Landsat time series and field data in J. N. "Ding" Darling National Wildlife Refuge, Florida.
Peneva-Reed E. (United States of America)
- 1227 Above Ground Biomass Estimation using Synthetic Aperture RADAR (SAR) in Mount Makiling Forest Reserve, Philippines
Dida J. (Philippines)
- 1866 Mapping growing stock volume and biomass of larch plantations in Northeast China with L-band ALOS PALSAR backscatter mosaics
Gao T. (China)

15:30 – 17:30 **Room "Colmar" (Novotel Freiburg)**
Theme 2: Forests and Climate Change

- 33 T2 - Open Session**
- Organizer Paoletti E. (Italy)
- Chairs Kettle C. (Switzerland)
- 485 Wind Disturbance in European Forests in a Changing Climate
Gardiner B. (France)
- 2490 What role does storage function play in the death of beech trees?
Chuste P. (France)
- 1315 Natural regeneration of Picea abies (L.) Karst. after strip cutting in the Swiss Alps: a retrospective study
Nikolova P. (Switzerland)
- 3093 Tree range expansion in eastern North America fails to keep pace with climate warming at northern range limits
Nock C. (Germany)
- 1385 Capacity of urban ecosystems in Bulgaria to mitigate climatic changes through assessment and mapping of carbon storage at national scale
Zhiyanski M. (Bulgaria)
- 640 Evaluating the impact of potential fires on forest carbon sequestration in the western United States
Pokharel R. (United States of America)

- 1515 Quantifying forest conservation efforts in REDD+ schemes: The key role of protected areas and indigenous territories in Panama
Vergara-Asenjo G. (Chile)

- 1696 Markets of forest products in European countries
Levet A. (France)
- 2320 Harvest and carbon leakages of large harvest reductions in Europe
Solberg B. (Norway)
- 2372 Economics of forest management for carbon storage and mitigation
Rørstad P. (Norway)
- 1918 FORMIT Integrated evaluation of forest management impact simulations on carbon stocks and socio economic and environmental attributes of European forests
Mues V. (Germany)

**15:30 – 17:30 KG I - 1009 (University Freiburg)
Theme 2: Forests and Climate Change**

**15:30 – 17:30 KG I - Aula (University Freiburg)
Theme 3: Forests and Forest-Based Products for a Greener Future**

135 T2 - Linkages between carbon sequestration and nutrient and water use efficiency in forests.

75 T3 - The nexus between bioeconomy and forest biomass: Challenges, opportunities and necessary steps in the forthcoming decades

- Organizer Lo Y. (Spain)
- Chairs Blanco J. (Spain)
- 1793 Long-term increases in photosynthetic efficiency and water-use efficiency due to CO₂ rise did not stimulate diameter growth of tropical trees
Zuidema P. (Netherlands)
- 3547 Extreme drought events and land-use change impacts carbon and water cycling in Mediterranean evergreen forests
Werner C. (Germany)
- 373 Water, nitrogen and carbon use efficiencies are not related to drought tolerance in trees subjected to precipitation manipulation
Limousin J. (France)
- 3010 Effect of nitrogen deposition on C-sink potential of deciduous forest ecosystems: a permanent field-scale manipulation experiment in South Tyrol (Italy).
Panzacchi P. (Italy)
- 2667 Increasing droughts and tree density reduces European beech response to increasing atmospheric CO₂ concentration
González de Andrés E. (Spain)
- 651 Linking nutrient response efficiency and carbon storage in forest and agroforestry systems in Germany
Schmidt M. (Germany)
- 1760 Uncertainty about future nitrogen availability dominates boreal forest growth projections
Mäkelä A. (Finland)
- 2540 Interactions in the efficiency of N and P use for forest litter production
Fisk M. (United States of America)

- Organizer Bruckman V. (Austria)
- Chairs Haruthaithanasan M. (Thailand)
- 3939 Bioeconomy and the City
Kraxner F. (Austria)
- 2467 An Overview of Wood-based Energy in North America
Vlosky R. (United States of America)
- 1997 Sustainable Forest Biomass: Promoting Renewable Energy in Forest Sector of Myanmar
Sein C. (Myanmar)
- 2827 Energy from forest biomass in Austria
Bruckman V. (Austria)
- 2736 Overmature periurban Quercus-Carpinus coppice forests in Austria and Japan: a comparison of carbon stocks, stand characteristics and conversion to high forest
Bruckman V. (Austria)
- 825 Production of bioethanol from residues of coffee wood (*Coffea arabica* L.) in Viotó, Cundinamarca, Colombia
Gómez S. (Colombia)
- 1707 The influence of harvesting intensities on structural diversity of forests in SW-Germany
Storch F. (Germany)

**15:30 – 17:30 KG I - 1010 (University Freiburg)
Theme 2: Forests and Climate Change**

**15:30 – 17:30 KG I - 1139 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting**

51b T2 - Forest management strategies to enhance the mitigation potential of European forests

27 D9 - Community forestry/ Co-management as a possible solution for forest governance and livelihood assurance for forest people in light of UN-REDD Program

- Organizer Mohren F. (Netherlands)
- Chairs Hasenauer H. (Austria)
- 2423 A new Dynamic Life Cycle Assessment methodology to deal with biogenic carbon fluxes and temporary carbon sequestration
Cardellini G. (Belgium)
- 3224 Sensitivity analysis on displacement factors for wood products
Vial E. (France)

- Organizer van der Zon M. (Netherlands)
- 2837 The local reality of tenure security in forest communities
van der Zon M. (Netherlands)
- 3473 REDD+: A new layer in the Philippines' Community-Based Forest Management
Peras R. (Philippines)

- 3872 Forest Tenure Reform Implementation: Perspectives from National and Sub-national Government Officials in Multiple Settings
Herawati Hadis T. (Indonesia)
- 3241 Social forestry in Indonesia: two early-moving communities obtaining permits and long-term funding for managing their Village Forest and Customary Forest, securing their forest-dependent livelihoods
Fehse J. (United Kingdom)

**15:30 – 17:30 KG I - 1199 (University Freiburg)
All Division 6 (Social Aspects of Forests and Forestry) Meeting**

69 D6 - Urban forestry for quality of life - the impacts of research on everyday practices

- Organizer Konijnendijk van den Bosch C. (Canada)
- Chairs Hedblom M. (Sweden)
- 2586 Urban forest as biodiversity hotspots: dead wood, birds and human perception
Hedblom M. (Sweden)
- 386 Strategic interaction in municipal governments' provision of public green spaces: a dynamic spatial panel data analysis in transitional China
Chen W. (Hong Kong)
- 103 Innovative urban forestry governance in Melbourne?: unpacking the implications of "green place-making" as a Nature-Based Solution
Gulstrud N. (Denmark)
- 1140 Municipal Forestry and Management in the United States: An Urban & Community Forestry Census of the United States
Hauer R. (United States of America)
- 1406 The Role of Urban Forestry in delivering Resilient Urban Futures, with a focus upon the Leeds City Region, UK.
Simson A. (United Kingdom)
- 2031 Urban forestry and human health
van den Bosch M. (Canada)

**15:30 – 17:30 KG I - 1224 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting**

70 D9 - Improved role of forests for people through favourable forest laws and environmental legislation

- Organizer Sulek R. (Slovakia)
- Chairs Herbst P. (Austria)
- 239 Forestry and the principle of no net loss of biodiversity
Pappila M. (Finland)
- 1910 Historical root causes for the conflicts between forest and nature protection legislation in Germany
Pukall K. (Germany)
- 2033 Legal conditions of sustainable public access to forests
Sulek R. (Slovakia)

- 2059 Liabilities resulting from Public Access to Forests in Austria
Herbst P. (Austria)
- 1723 Local communities in forest legislation of selected South-East European countries
Avdibegovic M. (Bosnia and Herzegovina)

**15:30 – 17:30 KG I - 1228 (University Freiburg)
All Division 9 (Forest Policy and Economics) Meeting**

137 D9 - How can we contribute to better information and more efficient communication among different fields of science?

- Organizer Beguš J. (Slovenia)
- 3291 Historical and current trends in formal and informal knowledge transfer in the forestry profession
Moser W. (United States of America)
- 2170 Accelerating the delivery and adoption of applied science - Addressing Common Communication Challenges from across Continents
Upfold S. (South Africa)
- 2957 The future of forest terminology - between tradition and innovation
Prüller R. (Austria)
- 2035 Indicators as information tools: From reporting to assessing SFM
Linser S. (Austria)
- 1030 The institutional barriers of forest information exchange in the European Union
Baycheva-Merger T. (Germany)
- 3209 Information about and for private forest owners
Poljanec A. (Slovenia)

17:30 – 19:00 Rolf Böhme Saal (Konzerthaus Freiburg) LIVE STREAM Special Sessions

CC Closing Ceremony
For more details see page 227

Official Closing of the Congress

The poster exhibition will take place in the University Freiburg in KG II – room HS 2121.

Poster abstracts will be on view on the same day as the corresponding scientific sessions. On that day, poster presenters will be available during the lunch break to present and discuss their posters with the interested audience. Please note that there will be no special time slot for poster presentations.

08:00 – 20:00	KG II - HS 2121 (University Freiburg)	Poster Exhibition Monday
PS-78	D3 - Forest Operation and Ergonomics: Challenge and Solutions.	
3498	Automated Time Study of cable yarding using GPS data <i>Kondo M. (Japan)</i>	
PS-169	D3 - New comminution technologies and logistics to improve the quality of forest energy feedstock	
1287	Review of efficiencies in comminuting of forest fuels <i>Di Fulvio F. (Austria)</i>	
PS-31	D3 - Quality Assessments along the wood supply chain for optimal use of the forest resource	
488	A study of the morphological properties of various wood species <i>Shalaev V. (Russian Federation)</i>	
PS-101	D4 - 125 Years of Forest Inventories - Past, Present and Future	
283	State (national) forest inventory in Russia: sampling design, first results, problems and perspectives. <i>Alekseev A. (Russian Federation)</i>	
2873	Modelling Height-Diameter curves for prediction <i>Mehtätalo L. (Finland)</i>	
940	Application of image-based point clouds for forest inventory and management: Study in a mixed conifer broadleaved forest in Northern Japan. <i>Sadeepa J. (Japan)</i>	
1870	The challenge of monitoring strict forest reserves: An introduction to the monitoring method in Baden-Wuerttemberg <i>Zielewska-Büttner K. (Germany)</i>	
PS-1	D4 - Advances in the use of lidar data for forest carbon accounting	
498	Using LiDAR data in a double sampling system to improve carbon sequestration yield tables for New Zealand's planted forests. <i>Paul T. (New Zealand)</i>	

PS-128	D4 - Building relevant, harmonised, comprehensive, reliable and up-to-date forest information for bioeconomy outlooks at European level - a joint session and panel discussion of the European National
212	Evolution of the information on fuels in the National Forest Inventories in the Iberian Peninsula <i>Nunes L. (Portugal)</i>
PS-112	D4 - Climate change adaptation in forest management: from applied science to implementation
2820	Defining priorities in planning for forest adaptation to climate change: a case study on Pinus nigra J.F. Arnold reforestations in Tuscany, Central Italy <i>Chirici G. (Italy)</i>
3774	Forest density reduction to minimize the vulnerability of Norway spruce and silver fir to extreme drought - a risk assessment <i>Bottero A. (Switzerland)</i>
2699	Searching for evidences for shift in tree species distribution due to climate change: experiences from Slovenia <i>Klopčič M. (Slovenia)</i>
2024	Forest management planning at small-scale level under different climate change scenarios <i>Výbostok J. (Slovakia)</i>
PS-61	D4 - Decision Support Approaches in Adaptive Forest Management
2574	The DiaLOG tool: a support document for deeper trust in environmental friendly logging operations <i>Cacot E. (France)</i>
2972	Allocation of storage yards in native forest stands in the Amazon region using mathematical programming <i>Fernandes da Silva G. (Brazil)</i>
1436	Advances in the evaluation of site quality based on remote sensing technology <i>Guo H. (China)</i>
4037	Maximizing revenue from loblolly pine (Pinus taeda) plantations in the western Gulf region of the US including risk abatement values <i>Holley A. (United States of America)</i>
1155	Forest Roads Design and 3D Visualization for Steep Mountains <i>Nozawa N. (Japan)</i>
320	Sustainable Forest Management Planning with Indigenous Communities in British Columbia <i>Spies J. (Canada)</i>
1998	Advances in Risk-Based Decision Support for Wildland Fire Management <i>Thompson M. (United States of America)</i>
605	Modelling Consequences of Regional Scale Forest Planning for Adaptive Management Where a Number of Decision Makers Exist <i>Yamada Y. (Japan)</i>

PS-67 D4 - Managerial Economics and Accounting: Where We have Been & Where We Can Go

3665 Uniform management problem of forest resources and determination of bottlenecks (example of Turkey)
Berker E. (Turkey)

PS-171 D4 - Managing Risk in the Face of Uncertain Change

925 Accounting for risk in forest management - what is risk and when is risk management useful?
Eyvindson K. (Finland)

PS-119 D4 - Quantifying disturbance effects and post-disturbance dynamics with repeatedly measured plots

516 Dynamic of a tropical forest submitted to reduced impact logging in Belterra, Pará, Brazil
Rossi L. (Brazil)

3919 The impact of forest fire on survival and growth of the survived scots pine trees
Donis J. (Latvia)

PS-118 D6 - Nature-based tourism and recreation's role in sustaining forests and improving people's quality of life

2844 A Research on Recognition and Needs of Mountain Village Residents to Promote
Kim J. (South Korea (ROK))

2610 Trampling effects of orienteering on vegetation in protected areas and production forests in Latvia
Straupe I. (Latvia)

1076 Quantification and regionalisation of recreation values in Germany in the ReWaLe framework
Weller P. (Germany)

PS-6 D6 - Open Session

3379 The community forestry enterprise in the central region of Mexico: a study case of determinants of success
González Guillén M. (Mexico)

891 Understanding Public Risk Perceptions of Climate Change Effects
Gordon J. (United States of America)

3377 Unpacking 'gender' in India's Joint Forest Management
Elias M. (Italy)

2744 Constructing theory on participation in spatial planning-case study from Nature Park Medvednica, Croatia
Lovric N. (Finland)

1053 Collaborating for forest nature conservation? Administrative perspectives
Maier C. (Germany)

3669 Rural realities between policy goals, market forces and natural disasters - a narrative of local forest management in southern Sweden
Wallin I. (Sweden)

3801 Traditional local knowledge and agroecological and biological conservation practices under climate change uncertainties in the Centre-South regions of Cameroon
Mala W. (Cameroon)

3959 A 'Citizen's Toolkit' on climate change and urban forestry - Canadian experiments in co-creation and experiential learning at the neighbourhood block scale
Sheppard S. (Canada)

PS-8 D6 - The Role of Social Science in Forestry and Forest Management: Fostering a Culture of Disciplinary Inclusion

3893 Innovative forest stakeholder mapping: Where vipers and trees do have a stake
Baerlocher B. (Switzerland)

1048 Forest policy implementation in the Pacific Northwest - a street-level perspective
Maier C. (Germany)

918 Estimation of potential forest-cutting sites for environmental preservation in the subtropical forest of Okinawa Main Island
Miyamoto A. (Japan)

3128 Professional ethics as a necessary means for affective, sufficient and sustainable forestry and its examination in forest engineering
Türker M. (Turkey)

PS-57 D7 - Invasive Alien Species and International Trade - Detection Prior to Introduction, Measures and Policy for Mitigation

3867 A Survey of Phytophthora species on Rhododendron plants in Lithuania
Burokiene D. (Lithuania)

2558 Ceratocystis platani is Responsible for the Death of Plane Trees in Istanbul
Dogmus- Lehtijärvi H. (Turkey)

1127 Invasive alien species arriving to Siberia with national and international commodities: an overview
Kirichenko N. (Russian Federation)

1445 A survey for Sirex noctilio and native wood wasps in Alabama
Wahl A. (United States of America)

PS-56 D7 - Modern approaches in evaluating ozone impacts on forests

1279 Drought and ozone interactive effects on ectomycorrhizal communities of oak seedlings
Straus I. (Slovenia)

PS-300 D7 - Pine pitch canker - strategies for management of Gibberella circinata in greenhouses and forests (Pinestrength)

3714 The role of primary metabolism and hormone signalling in pine defence responses against Fusarium circinatum
Amaral J. (Portugal)

2214 Molecular characterisation of chromosome 12 from members of the Fusarium fujikuroi complex
Wingfield B. (South Africa)

3094 Gene gain and loss shapes the evolutionary history of the pitch canker fungus, Fusarium circinatum
Wingfield B. (South Africa)

1198 Susceptibility of coniferous tree-species of Czech provenances to the pathogenic fungus Fusarium circinatum
Lukacevicova A. (Czech Republic)

PS-59 D7 - Responses to the increasing threat of insect pests to sustainable plantation forestry

1516 Characterization of the complex wasp community in Leptocybe galls on Eucalyptus
Hurley B. (South Africa)

PS-116 D9 - Forest and Natural Resources Policy and Governance in Latin America and the Caribbean

3337 Grades of environmental fragility for planning of a watershed soil use
Hoeflich V. (Brazil)

988 The Compensation of Legal Reserve in Conservation Units: Background, Challenges and Opportunities
Saretta C. (Brazil)

PS-179 D9 - Forest policy and governance: research at multiple scales

4026 The actor-centred analytical approach (Aurenhammer) in forest policy analysis
Aurenhammer P. (Germany)

1217 Assessing the Value of Forest Cover on Water Quality: An application to Portugal
Faria Lopes A. (Norway)

PS-43 D9 - In the woods of transdisciplinarity: Forest science between 'research for the sector' and a new wave of 'transdisciplinarity'

3437 Participatory development of indicators for urban forests' ecosystem services. A German case study
Schraml U. (Germany)

4168 The experience of Uruguay on forest research innovation.
Scoz R. (Uruguay)

1816 Capacity building to increase wood mobilisation at regional level throughout Europe
Vuillermoz M. (France)

PS-17 D9 - Integrating grassroots participation, crowd mobilization and big data analysis in forest restoration policy assessment in the tropics

2285 Contribution of community based forest resources management to forest conservation and sustainable resource utilisation in Chimanimani district, Zimbabwe.
Mujuru L. (Zimbabwe)

2608 Comparative assessment of first generation restoration activities in Latin America to support sub-national restoration efforts for generating emissions reductions
Romijn E. (Netherlands)

PS-65 D9 - Multifunctional tropical forest landscapes: finding solutions in science and practice

3507 Church forests and home gardens enhance multi-functional role of Ethiopian highland landscapes when augmented with enclosures
Abiyu A. (Ethiopia)

PS-145 D9 - The Role of Forest History & Cultural Heritage in Re-constructing Nature - a landscape-level exploration of the need for, of approaches to, and case studies of, the recovery, remediation and re-c

3472 Sustainable production and nutrient management in pine and birch stands in lowlands
Novak J. (Czech Republic)

PS-176 T1 - Agroforestry - the future of land use management?

1692 Soil and plant hydrology of agroforestry systems: Competition for water or positive tree-crops interactions?
Gerjets R. (Germany)

2875 Biodiversity, Carbon and Chocolate: Towards an Environmentally Friendly Cocoa Production System in Ghana
Kwakye Ameyaw L. (United States of America)

1363 Above-ground carbon sequestration potential and nutrient distribution of wild cherry in an agroforestry system
Morhart C. (Germany)

2961 SidaTim: Novel Pathways of Biomass Production: Assessing the Potential of Sida hermaphrodita and Valuable Timber Trees
Nahm M. (Germany)

2517 Agricultural system of the Shipibo Konibo Indians in Amazonia
Righi C. (Brazil)

794 Investigating sun induced damages on the boles of wild cherry grown within a temperate agroforestry system
Sheppard J. (Germany)

3356 Developing a smallholder whitewood (*Endospermum medullosum*) plantation industry in Vanuatu
Smith G. (Australia)

1302 Livelihood and biodiversity conservation value of traditionally managed agroforests of Meghalaya, India
Tiwari B. (India)

335 Expanding Sumach (*Rhus coriaria* L.) in silvo-pastoral systems for empowering local people?
Ghanbari S. (Iran)

PS-102 T1 - Bringing carbon to small-scale forest owners - role of buy-in mechanisms for bridging scales and facilitating access to carbon markets

297 Carbon balance calculation system: a step towards sustainability in rural properties
Boaventura Bernardes Moura Alves E. (Brazil)

PS-149 T1 - Synergies and Conflicts in the Provision of Ecosystem Services by Small-scale Forest Owners

2764 Costs of Sustaining Ecosystem Services by the State Forest Service in Baden-Württemberg, Germany
Schmitt J. (Germany)

PS-21 T2 - Dendrochemistry - a tool to assess changes in ecosystem nutrition and forest growth.

800 Spatial heterogeneity of nutrients within tree rings - results from LA-ICP-MS measurement
Niederberger J. (Germany)

PS-153 T2 - Genetics and Genomics for Conservation, Climate Adaptation and Sustainable Management of Forests

- 1933 The genetic diversity of species alternatives of the future
Alba Landa J. (Mexico)
- 3403 Breeding of deep frost-tolerant eucalyptus for sustainable biomass production under climate change
Harvengt L. (France)
- 2726 Impacts of selective logging on the genetic diversity of *Cryptomeria japonica* natural forest, Yanase district in Kochi Prefecture Japan.
Kimura M. (Japan)
- 571 Landscape genetics and gene flow of wild olive (*Olea europaea* subsp. *cuspidata*) in fragmented natural populations of Ethiopia
Konrad H. (Austria)
- 1756 The small RNAome from *Pinus pinaster* Ait during drought stress response
Perdigueru P. (Portugal)
- 2248 Genetic and silvicultural analyses to determine the region of origin, the growth and quality features of red oak (*Quercus rubra*) stands in Germany
Pettenkofer T. (Germany)
- 2960 Effect of 5-azacytidine and hydroxyurea on seed germination and response of *Eucalyptus globulus* juvenile plants to water stress
Paiva J. (Portugal)

PS-113 T2 - What is the potential for CO2 mitigation of forest soils?

- 1547 Consequence of clear-cutting and drought on deep soil CO2 and N2O profile concentrations and surface fluxes in Brazilian eucalypt plantations.
Germon A. (Brazil)
- 2641 Effects of forest management practices on carbon stocks and carbon stock changes: Results from Germany's National Forest Soil Inventory
Grüneberg E. (Germany)
- 3901 Vulnerability of carbon storage potential with regard to tree species composition
Horváth A. (Hungary)
- 3496 Intensive ground vegetation growth mitigates the carbon loss from forest clearings
Schindlbacher A. (Austria)
- 1407 Carbon sequestration to above- and below-ground pools in short-rotation hybrid aspen plantations on former crop- and grasslands in hemiboreal conditions
Tullus H. (Estonia)
- 1397 Quantitative and qualitative features of soil organic matter in mountain treeline ecosystems
Zhiyanski M. (Bulgaria)
- 2559 Carbon sequestration in Central European forest soils - Combining soil inventory with modelling
Ziche D. (Germany)

PS-95 T3 - Forestry classic' for the future

- 351 Crown thinning effects on growth of *Pinus taeda* stands in southern Brazil
Dobner M. (Brazil)
- 3765 Long-term effect of whole tree biomass harvesting on ground vegetation in Scots pine stands in Latvia
Jansons A. (Latvia)

PS-42 T3 - Open Session

- 1758 Stand structure after thinning in 1-2 m-wide boom-corridors in young dense stands - First year results
Bergström D. (Sweden)
- 3254 Agroforestry System Combining Deep-Row Applications of Biosolids, Short Rotation Wood Crops, and Reclamation of Mine Spoils
Kays J. (United States of America)
- 4011 Are there different growth patterns of *Bertholletia excelsa* in Amazon region?
Mattos P. (Brazil)
- 295 Using spatial modeling to understand the role of facilitation in forest regeneration: a case study of degraded mangroves
Pranchai A. (Thailand)
- 1926 Evaluating site differences on growth and wood properties of *radiata* pine trees in Chile
Trincado G. (Chile)
- 3253 Possibilities of using the Integrated Wood Protection in the Conservation of Wooden Artifacts
Unger W. (Germany)
- 1373 Evaluation of Essential Oils and Extracts of Different Plant Parts from *Zelkova serrata* against *Phellinus noxius*
Cheng S. (Taiwan)
- 1021 Unsterile soil burial soft rot test of normal and hot water extracted woods to study the influence of wood extractives on soft rot resistance of Malaysian hardwoods
Wong A. (Malaysia)

PS-11 T4 - Progress in tropical forest management: Assuring sustainability, avoiding degradation and assisting restoration

- 1883 Desiccation tolerance study and fruit maturity stage impact on *Opilia amentacea*. Roxb. seed germination in Burkina Faso
Daboue E. (Burkina Faso)
- 3626 Overturn of tegumentary dormency of seeds for the forest restoration in Brazilian savanna
De Sousa Freitas M. (Brazil)

PS-109 T4 - Promoting forest biodiversity through structural complexity? New advances in the assessment and restoration of habitat structures in forests

- 1073 Close to nature forestry (Ukraine experience)
Dejneka A. (Ukraine)
- 1109 The Linkage of Scales in Remote Sensing Biodiversity Assessment in Forests.
Frey J. (Germany)
- 2189 Effects of ecological restoration to promote structural variability in boreal forests
Hekkala A. (Sweden)
- 2530 Integrating small-scale timber harvest in the restoration of a Douglas-fir stand in the Gulf Islands in British Columbia, Canada.
Hohendorf Q. (Canada)
- 1312 Tree microhabitat structures as indicators of biodiversity in Douglas-fir forests in the Pacific Northwest, USA
Michel A. (Germany)
- 939 Quantifying structural complexity as an indicator of biodiversity in heterogeneous forests: Potential of ALS and UAV system.
Sadeepa J. (Japan)
- 2555 Evaluation and Monitoring of a concept to protect habitat trees and deadwood
Schultze J. (Germany)
- 3468 In retention forestry, which microhabitats are integral for epiphytic species diversity?
Stevenson D. (Germany)
- 2609 The diversity of dead wood in unmanaged hemiboreal forests of Southern part of Latvia
Straupe I. (Latvia)
- 751 Admixed single trees as structural elements promoting faunal biodiversity
Wehnert A. (Germany)
- 3825 Functioning of private nurseries and their contribution to the conservation of woody parkland in the province of Kadiogo, Burkina Faso
Yameogo J. (Burkina Faso)

PS-48 T5 - Ecohydrology-based forest management for water provision, carbon sequestration and enhanced climate resilience

- 816 Initial stand density as an influential ecohydrological factor of mixed forests of *Pinus sylvestris* and *Fagus sylvatica*.
Blanco J. (Spain)
- 1423 Responses of soil respiration to forest thinning in semiarid ecosystems
González-Sanchis M. (Spain)
- 1205 Effects of air pollution and forest on spring water chemistry on the example of the Polish Carpathians
Malek S. (Poland)
- 2342 The long-term changes in the stand transpiration of Japanese cedar and Japanese cypress plantation after thinning
Tateishi M. (Japan)

PS-18 T5 - Forest floor matters - The pivotal role of a forest compartment in danger of extinction

- 950 High soil phosphorus concentration defines ground vegetation cover composition in subarctic forests
Matkala L. (Finland)

PS-88 T5 - Natural hazards and disturbance interactions in mountain forests

- 3814 Effects of defense structures on soil properties and tree regeneration in avalanche starting zones (Valle d'Aosta Region, NW Italy)
Freppaz M. (Italy)
- 3593 Extreme runoff and erosion event in a forested alpine catchment
Lechner V. (Austria)

08:00 – 20:00	KG II - HS 2121 (University Freiburg)	Poster Exhibition Tuesday
PS-15	D4 - Impacts of environmental changes on growth and productivity of managed and unmanaged forests	
2659	The effects of soil characteristics on the growth of <i>Fraxinus rhynchophylla</i> , <i>Zelkova serrata</i> , and <i>Pinus koraiensis</i> seedlings planted under different canopies <i>Park B. (South Korea (ROK))</i>	
3806	Diameter Increment of Silver fir (<i>Abies alba</i> Mill.) dependence on stand and structural characteristics in Fir forest with hard fern (<i>Blechno-Abietetum</i> Ht. 1950) <i>Postenjak F. (Croatia)</i>	
1457	Toward modelling the influence of wind on the Maritime pine growth <i>Rajaonalison F. (France)</i>	
1133	Carbon sequestration potential and biomass accumulation by Sal forests of Doon valley (India) <i>Srivastava P. (India)</i>	
344	A multi-decadal analysis of patterns and processes in Venezuelan tropical forests: insights from permanent sample plots <i>Vilanova E. (United States of America)</i>	
645	Stature change as reflected in height-diameter growth of Erman's birch at the treeline and along an altitudinal gradient on Changbai Mountain, Northeast China <i>Wang X. (China)</i>	
2187	Is the pattern of pedunculate oak mortality related to commonly used forestry practices? <i>Mucha J. (Poland)</i>	
PS-140	D6 - Forest education - the consequences of interaction: innovation and curricula	
3492	Machine simulators as pedagogical tools in forest machine operator training: A needs analysis <i>Häggröm C. (Sweden)</i>	
3532	Progress tests in Forest Education <i>Rekola M. (Finland)</i>	
1985	Possibilities of using retention reservoirs in forest the ecological education conducted by polish State Forest <i>Kargul-Plewa D. (Poland)</i>	
PS-305	D7 - Pine wilt disease: progress in understanding the dynamics and developing control measures	
1779	Induced resistance in <i>Pinus pinaster</i> against pinewood nematode (<i>Bursaphelenchus xylophilus</i>) <i>Diaz R. (Spain)</i>	
3179	National survey (2010-2016) of the pinewood nematode vectored by the insect <i>Monochamus galloprovincialis</i> in Portugal <i>Bonifacio L. (Portugal)</i>	
PS-186	T2 - Changing forest disturbance regimes: Patterns, consequences, and responses	
2924	Current Post Fire Reforestation Strategies in Turkey: An Overview <i>Coskuner K. (Turkey)</i>	
3799	Forest Fire regime in Latvia: 1922-2014 <i>Jansons A. (Latvia)</i>	

3454	Changes in forest structure and forest disturbance patterns in Korea <i>Park P. (South Korea (ROK))</i>
2640	Temporal patterns of OM and nutrient fluxes with soil solution as affected by low-severity fire in beech forests and pastures <i>Potthast K. (Germany)</i>
PS-82	T3 - Traditional coppice: ecology, silviculture and socio-economic aspects
1920	Silvicultural coppice management of <i>Quillaja saponaria</i> (quillay or soapbark tree) native forest for industrial uses in central Chile <i>Cruz G. (Chile)</i>
2455	Restoration of plant diversity in oak coppices converted to high forests under global environmental threats <i>Malis F. (Slovakia)</i>
3307	Transformation of <i>Castanea sativa</i> coppice forests by selective stump reduction: chemical, physical and mechanical methods <i>Pique M. (Spain)</i>
3646	Silvicultural methods for beech and mixed oak coppice stands managed by the Serbian Forest State Enterprise <i>Trailovic Z. (Austria)</i>
PS-45	T4 - Forest policy and biodiversity strategy: The relevance of forest genetic resources
1802	Forest genetic monitoring: laws and obstacles for its implementation in Greece <i>Avramidou E. (Greece)</i>
4074	Ring testing in forest genetic monitoring <i>Bajc M. (Slovenia)</i>
1838	National legislation of forest reproductive material: case of a wide spread Silver fir (<i>Abies alba</i>) and Serbian spruce (<i>Picea omorika</i>) <i>Ballian D. (Bosnia and Herzegovina)</i>
2255	Design and implementation of the forest genetic monitoring database <i>Finzgar D. (Slovenia)</i>
200	Development and implementation of common protocols for forest genetic monitoring <i>Kavaliauskas D. (Germany)</i>
1341	Installation of a genetic monitoring network for beech and spruce in Germany to evaluate the genetic adaptability of species to climate change <i>Konnert M. (Germany)</i>
1864	Seeds without borders sustain forest diversity <i>Lackner M. (Austria)</i>
2693	Legal framework and stakeholders' attitudes toward the conservation of forest genetic resources <i>Nedeljkovic J. (Serbia)</i>
1370	Communicating Forest Genetic Resources to Different Target Audiences <i>Rantaša B. (Slovenia)</i>
1657	The role and place of forest genetic monitoring within existing forest monitoring schemes <i>Westergren M. (Slovenia)</i>

08:00 – 20:00 KG II - HS 2121 (University Freiburg) Poster Exhibition Wednesday

PS-121 D3 - Reforestation challenges: planting material, ecophysiology, biodiversity, climate change mitigation and adaptation, and disaster risk reduction

- 4058 Partial harvesting in boreal mixedwoods: A case for planned heterogeneity in industrial silvicultural prescriptions
Achim A. (Canada)
- 1841 Variation in growth and adaptation among Norway spruce provenances
Chmura D. (Poland)
- 2314 Effects of fruit maturity stage, seed coat, drying and storage temperature on *Ximenia americana* seeds germination in Laboratory
Daboue E. (Burkina Faso)
- 2446 Afforestation trial with poplar and other tree species in an abandoned agricultural land of Piedmont hills (Northern Italy)
Facciotto G. (Italy)
- 1378 The influence of initial density on survival and growth of Scots pine – results from 32-year-old Nelder experiment
Gil W. (Poland)
- 1338 Seedling Quality in Serbia - Results from a Three-Year Survey
Ivetic V. (Serbia)
- 2796 Survival, growth, and N changes in transplanted ornamental seedlings under weed competition in urban soils
Wei H. (China)

PS-168 D3 - Sustainable forest operations - A foundation of the green economy

- 473 Site level evaluation of traffic and soil disturbance after cut-to-length harvesting
Talbot B. (Norway)

PS-90 D4 - Advanced Methods for Measuring, Monitoring and Assessing Forests to Meet Societal Challenges

- 1270 Structure-based forest management
Hui G. (China)
- 2159 Measuring tree diameters with close-range photogrammetry
Klatt S. (Germany)
- 2842 Data, data everywhere: Detecting spatial patterns in fine-scale forest health data collected across a continent
Potter K. (United States of America)
- 1604 Optimisation of a Forest Management Field Trial Design Using Stand State Characteristics: A Case Study of a *Platycladus orientalis* Plantation Field Trial in the Xishan Mountains, Beijing, China
Zhang G. (China)

PS-197 D4 - Ecosystem services and the well-being of forest-dependent communities: enhancing social innovation and building resilience to global changes in remote rural areas

- 3299 Community participation as key component to value ecosystems services: A case study of the protected forest reserve of El Quinini, Colombia
Villarraga Flórez L. (Colombia)
- 3718 Forest tenure holders' willingness to participate in forest carbon sink projects: a case in China
Zhiying H. (South Korea (ROK))
- 1907 Carbon forestry to enhance social innovation for the well-being of European mountain regions
Brnkalkova S. (Slovakia)

PS-29 D4 - Integrating climate change, disturbances and diversity effects into growth models: from understanding ecological processes to predicting forest growth and yield

- 3762 Effect of diversity on forest productivity
Dupont-Leduc L. (Canada)
- 760 Applications of transition matrix models in forest dynamics in Amazon rainforest in Brasil
Galiceanu A. (Brazil)
- 2958 Integrating forest disturbance of nun moth into process-based growth modelling.
Gutsch M. (Germany)
- 2176 The role of large trees in the biomass production of heterogeneous forest
Ligot G. (Belgium)
- 1068 Unraveling soil effect on overyielding of species mixture in forests of the Netherlands
Lu H. (Netherlands)
- 648 Disentangling species mixture effects on individual-tree growth using Swiss National Forest Inventory data
Mina M. (Switzerland)
- 3945 Integrating disturbance agents into the Tree and Stand Simulator (TASS): a case study of stem rusts on lodgepole pine
Sattler D. (Canada)
- 1731 Inter- and intra-species competition: modelling the effect of natural regeneration ingrowth in a plantation growth and yield simulator
Schneider R. (Canada)

PS-36 D4 - Interactions of Global Forest Resources and Climate

- 1456 Interactions of global forest resources and climate
Rebane S. (Estonia)
- 1641 Regional implication of diversified forest management actions on forest carbon stock
Reifenberg S. (Germany)

Monday

Tuesday

Wednesday

Thursday

Friday

Posters

PS-19 D6 - The role of forests in sustainable rural development in developing countries: livelihoods and quality of life

- 3735 Forest management significance to local industry based on input-output model for Chrzanow Forest District
Jaminska J. (Poland)
- 697 Cutch (Acacia catechu) resin production in Myanmar and its socio-economic benefits
Tani Y. (Japan)
- 3338 Local Community Network Empowerment for Prevention and Protection of Coastal Erosion in Laem Fa Pha Sub-District, Samut Prakan Province, Thailand
Maneeanakekul S. (Thailand)

PS-146 D7 - Climate change and air pollution impacts on forest health status and productivity

- 1767 Climate response of Norway spruce (*Picea abies* (L.) H. Karst) and Silver fir (*Abies alba* Mill.) in virgin forest of Northern Velebit
Begovic K. (Czech Republic)
- 1362 Volatiles released from *Chamaecyparis formosensis* and *Chamaecyparis obtusa* var. *formosana* in response to light intensity and growth temperatures
Chen Y. (Taiwan)
- 1200 Comparative analyses of growth, gas exchange characteristics, and chlorophyll fluorescence of three dominant boreal tree species during the vegetation season in hemiboreal zone, Lithuania
Marozas V. (Lithuania)
- 2015 Changes in phosphorus supply of the spruce stands in the northern mountains of the Czech Republic
Novotný R. (Czech Republic)
- 1372 Analysis of adaptive capacity of Croatian Mediterranean forests to climate change by using various indicators of tree and stand vitality
Ognjenovic M. (Croatia)

PS-177 D7 - Forest Health in a Changing Climate

- 3828 Observed changes of site conditions driven by climatic extremes
Bidló A. (Hungary)
- 1970 Advancing Quantitative Understanding of Urban Forest Carbon Sequestration and Climate Mitigation
Hubbart J. (United States of America)

PS-188 D7 - Managing pests and diseases in commercial plantations

- 583 Effect of copper and silver nanoparticles on growth of selected species of pathogenic, wood decaying and mycorrhizal fungi in vitro.
Aleksandrowicz-Trzcinska M. (Poland)
- 1485 How do Different Mature Pinus taeda Families Respond to Root-infecting Fungi?
Eckhardt L. (United States of America)
- 1857 Infection biology of the rust pathogen *Uromycladium acaciae*
Fraser S. (New Zealand)
- 2433 Financial performance of stump treatment against *Heterobasidion* sp. in Norway spruce dominated forests, the case of Finland
Honkaniemi J. (Finland)
- 3639 Are yellow sticky traps a good methodology to evaluate the insect pest community associated with an Eucalyptus plantation?
Jorge C. (Uruguay)
- 1898 Screening for *Alnus glutinosa* genotypes resistant to *Phytophthora × alni*
Kube M. (Germany)
- 3380 Quantifying the impact of wattle rust (*Uromycladium acaciae*) on black wattle (*Acacia mearnsii*) growth in South Africa
Nxumalo T. (South Africa)
- 1354 Bacterial leaf blotch in Uruguay, etiology and management of a new threat for eucalypts plantations
Perez C. (Uruguay)
- 378 Molecular characters of endophyte fungi isolated from *Paraserianthes Falcataria* in Indonesia
Prihatini I. (Indonesia)
- 3922 Chemical and biological control of plant pathogen, *Fusarium* species in forest nurseries
Vardhan Pandey V. (India)
- 2689 Can Melastomataceae endophytes be a threat to Eucalyptus plantations in Colombia?
Wingfield M. (South Africa)
- 3069 Investigation of Fungal Diseases associated with *Acacia mangium* Forest Plantations in Hoa Binh province, Vietnam
Nguyen M. (Viet Nam)

PS-191 D7 - Nitrogen deposition: spatial-temporal change and ecological impacts

- 3906 Reduced and oxidized nitrogen and sulfur deposition from Los Angeles smog to urban and wildland areas
Fenn M. (United States of America)
- 3580 Mapping of areas with potential effects of high loads of nitrogen and surface ozone in Czech forests
Hunova I. (Czech Republic)
- 2997 Determining the total nitrogen deposition to forests - A spatio-temporal comparison of canopy budget models across Germany
Schmitz A. (Germany)
- 3682 Total deposition of nitrogen in Swiss forests: comparison of assessment methods and long-term changes
Thimonier A. (Switzerland)

PS-174 D9 - Connecting People to Forest Science: Innovative Communication Approaches for Delivering Science

- 1578 Public Science, Public Health, and Public Policy: A Case Study of Lessons Learned from Portland Moss and Air Quality Study Communications
Sands Y. (United States of America)
- 113 Is anybody listening? Ways to track and analyze your social media impact.
Hayes J. (United States of America)

PS-63 D9 - Forests for the Health of the People

- 3890 How forests impacts human health - media perceptions from Germany
Kleinschmit D. (Germany)

PS-26 D9 - Policy learning across governance levels for durable results

- 3029 The role of education and research organizations in fighting corruption and illegal activities in forestry: example from Serbia
Rogelja T. (Italy)

PS-183 T1 - Forest Education

- 2874 Gunung Walat University Forest : A Unique Transformation From Sufferer to Learner of Global Climate Change Impact
Ikhsan M. (Indonesia)
- 1590 Forest Education System and Human Resource Training for forestry in Japan : the historical change and the present situation
Inoue M. (Japan)
- 3517 The Global Outlook on Forest Education - A Joint IFSA IUFRO Task Force project
Lackner M. (Austria)
- 3087 Long-term image and audio monitorings of deep forests: toward environmental education and citizen science
Nakamura K. (Japan)
- 3203 We have to learn about forest from the past.
Nakashima T. (Japan)
- 580 The development of the study course "Wood culture"
Shalaev V. (Russian Federation)
- 766 Implementation status of "Children's Tree Doctor," the introductory forest environmental education program in Japan
Sugiura K. (Japan)
- 947 Enhancing youth's capacity towards a more sustainable forestry community
Veridiano R. (Germany)

PS-190 T2 - Climate change and forest health: insights from the IUFRO Task Force

- 3756 Development of a DBH-Growth Model Based on Site and Climatic Conditions
Piao D. (South Korea (ROK))
- 410 Lead uptake increases drought tolerance of wild type and transgenic poplar (*Populus tremula* x *P. alba*) overexpressing *gsh 1*
Samuilov S. (Germany)
- 3627 Environmental predisposition factors to acute oak decline in England and Wales
Vangelova E. (United Kingdom)
- 3441 Ozone sensitivity of urban tree species based on foliar visible injury and physiological characteristics
Xu S. (China)

PS-108 T2 - Resilience of planted forests under global change : learning from the past preparing next generation

- 1417 Stability and productive ability of Douglas fir provenances in continental part of Croatia
Peric S. (Croatia)

PS-302 T2 - Tropical wetlands for climate change adaptation and mitigation

- 2078 Soil methane emission in ombrotrophic and minerotrophic peatland complexes in the Pastaza-Marañon Basin of the Peruvian Amazon.
del Aguila Pasquel J. (United States of America)
- 2737 Assessing soil genesis and carbon stocks in a peat in Central Kalimantan, Indonesia
Märten K. (Germany)
- 2356 Anthropogenic and climate driven changes in soil CO2 efflux from an Indonesian peatland
Swails E. (United States of America)

PS-94 T3 - Ecologically-based silviculture

- 3521 Growth of araucaria under different levels of light in agroforestry systems
Danner M. (Brazil)
- 1464 Growth models for natural regeneration of Sitka spruce and other conifer species under continuous cover forest
Bianchi S. (United Kingdom)
- 2435 Light availability, growth patterns and species composition in uneven-aged broadleaved temperate forests
Brüllhardt M. (Switzerland)
- 2664 Growth patterns of *Quillaja saponaria* sprouts after 15 years clearing in a sustainable silvicultural coppice system in central Chile
Cruz G. (Chile)
- 3011 Effects of pre-commercial thinning on growth and stem form of naturally regenerated European beech (*Fagus sylvatica*)
Reventlow D. (Denmark)
- 3340 Regional early growth performances of *Larix kaempferi* trees planted in harvested *Larix kaempferi* plantations, South Korea
Sung J. (South Korea (ROK))
- 3343 Study for natural regeneration mechanism of *Pinus densiflora* in South Korea
Sung J. (South Korea (ROK))

PS-303 T3 - Research Advances for the Meliaceae

- 1112 Conservation of genetic resources of *Azadirachta Indica* a. Juss. (neem) - an Indian experience
Warrier R. (India)

PS-105 T3 - Sustainable co-production of wood and non-wood forest products

- 3102 The Hidden Potential of Agroforestry Systems in the Chapare Coca production Area, Bolivia
Lopez Rosse E. (Bolivia)
- 2495 Questionnaire survey on local use of edible wild plants/mushrooms after the Fukushima Daiichi Nuclear Power Plant accident
Matsuura T. (Japan)
- 2498 Pine nuts and timber, sustainably yielded from Mediterranean pine woodlands?
Mutke S. (Spain)
- 2541 Potentials of the Brazilian Bamboo: A study about its evolution in Brazil.
Sanches K. (Brazil)
- 365 Visual perception of adherence of different wood finish products
Teles R. (Brazil).

PS-2 T4 - Co-existence of human and wildlife in changing landscapes and climate

- 3823 An evaluation of conservation effort based on elephant crop raid distribution in Bia Conservation Area, Ghana
Nutsuakor M. (Ghana)
- 3056 Determination of the land use conflicts in the gavidia watershed of the National Park Sierra Nevada, Merida, Venezuela
Lobo Y. (Venezuela)

PS-92 T4 - Concepts and assessments of forest ecosystem services and benefits

- 1901 Assessment of provisioning forest ecosystem service potential in Latvia
Libiete Z. (Latvia)
- 324 Socioeconomic Impact of the Program of Payment for Environmental Services-Reforestation Modality- in Northwestern Costa Rica
Padilla Salas C. (Costa Rica)
- 3362 Comparison of Urban Forest with peri-urban Forest Focusing on Air Purification Function
Ryu J. (South Korea (ROK))
- 2298 Assessing the provisioning potential of ecosystem services in a Scandinavian boreal forest: suitability and tradeoff analyses on grid-based wall-to-wall forest inventory data
Vauhkonen J. (Finland)

PS-24 T4 - Growth and Dynamics of Pine in Mixed Forests

- 2317 Effect of stand density on nutrient status and foliar mass production in a planted *Pinus pinea* forest (Olmedo, Spain)
Gonzalez-Cascon R. (Spain)

PS-9 T4 - IUFRO Task Force on Biological Invasions in Forests

- 2690 Novel *Calonectria* species from plantation and nursery soils in South-East Asia
Barnes I. (South Africa)
- 3451 Detecting three different parasitic nematodes on *Acacia mangium* seedlings in Vietnam
Dang N. (Viet Nam)
- 2519 *Pinus elliottii* in riparian zones as a reduction factor in the quality of ecosystem services
Magro T. (Brazil)

PS-93 T4 - Silviculture for non-wood ecosystem services

- 750 Structural indicators as a link between silviculture and ecosystem services
Huth F. (Germany)
- 3443 Silvicultural measures to optimize both production and recreation services of the urban forest
Kacalek D. (Czech Republic)

08:00 – 20:00 KG II - HS 2121 (University Freiburg) Poster Exhibition Thursday

PS-151 D3 - History, Findings, and Future Directions of Forest Landowner Research

- 3107 Forest governance on the environmental protect area of Guaratuba
Hoeflich V. (Brazil)
- 2287 Differences in forest management approaches between common forest and non-common forest in Japan
Matsushita K. (Japan)
- 2230 Reaching Small Forest Landowners in the 21st Century
Zobrist K. (United States of America)

PS-114 D3 - Transforming low grade logs and residues into higher value products through improved supply chain management

- 42 Towards a new model for locating terminals optimally in reference to the resource base and infrastructure
Athanassiadis D. (Sweden)
- 1844 Comparison of centralized and decentralized mobile pellet plant production systems for logging residues in Northern Sweden
De La Fuente T. (Sweden)

PS-181 D4 - Cross-boundary modelling in a changing world

- 3156 Hardwood crop tree release: modeling a spatially heterogeneous treatment with a non spatially explicit tree list model
Béland M. (Canada)

PS-4 D4 - Open Session

- 3809 Can the 3PG model be used to predict the impact of fertilizer applications?
Tomé M. (Portugal)

PS-14 D4 - Strategies and challenges for risk resilient forest management

- 2654 Economic and environmental challenges of climate change for forests of Eastern European part of Middle Latitude zone
Lakyda P. (Ukraine)
- 4082 Economic viability of the national forestation program in the Republic of Korea
Lee J. (South Korea (ROK))

PS-185 D4 - Towards robust projections of forests under climate change

- 4124 Modelling site index of alien tree species in Poland based on biogeoclimatic data
Bijak S. (Poland)
- 3480 Integrating field data and simulations to investigate stand development of East North American temperate forests
Martin-Benito D. (Switzerland)
- 1405 Development of a process-based phenology model for Populus
Svystun T. (Sweden)

PS-155 D6 - Cities, Trees, Carbon, and Climate Change Mitigation

- 322 A comparison of two urban forest assessment techniques in Minneapolis, Minnesota, USA
Intasen M. (Thailand)
- 2818 The potential of imaging from ultra-light aircraft for urban tree inventories: case study in Kaunas, Lithuania
Mozgeris G. (Lithuania)

PS-40 D6 - Engaging equality: The construction of gender and forest through processes of gender mainstreaming

- 2497 Equality in examinations
Jansen-Schulz B. (Germany)
- 3098 Gender inequalities. Situation in Polish State Forests National Forestry Holding
Pigan I. (Poland)
- 1884 Gendered change and political space: seeing what/who's future in the Swedish forests?
Andersson E. (Sweden)
- 4083 How far has Sweden come in implementing gender equality in the country's forestry education?
Bernö H. (Sweden)
- 2341 Knowledge, skills and work: gendered opportunities and structures in Swedish forestry
Lidestav G. (Sweden)
- 4080 Women entrepreneurs in the Swedish forestry - An identity and a business in transition?
Appelstrand M. (Sweden)

PS-30 D6 - Managing recreation: Empirical insights and forest management instruments.

- 2785 Latent Preferences of Tourists towards the Service Quality of the Taichung Calligraphy Greenway, Taiwan
Chung C. (Taiwan)
- 2992 Assessing recreation and societal demands in urban proximate woodlands using the concept of Ecosystem Services
Koch M. (Germany)
- 3287 Visitor monitoring using trigger camera traps - An study at the Grünen Mountain in Bavara
Koch M. (Germany)
- 2137 GIS based socio-ecological tools to promote the multiple use of forests
Tarvainen O. (Finland)
- 723 Managing recreation - an overview of guidelines for recreation in municipal forests. A case study of Poznan (Poland).
Wajchman-Switalska S. (Poland)

PS-133 D6 - Social dimension of wildlife conservation and management

- 1978 Meat consumption, interaction with hunters and attitude toward hunting. Is there a universal relationship?
Krokowska - Paluszak M. (Poland)
- 3916 Consequences of the moratorium on moose hunts (*Alces alces* L.) in Poland
Krokowska - Paluszak M. (Poland)
- 3373 The community forestry enterprise in the Monarca butterfly region in Mexico: an approach with enterprise vision
González-Guillén M. (Mexico)
- 3995 Osteometric characteristic of jawbones of living in urban-industrial agglomeration range in central Greater Poland wild boars (*Sus scrofa* L., 1758)
Skorupski M. (Poland)

PS-165 D7 - Dothistroma and other needle diseases of pine

- 1621 Distribution and Characterization of Dothistroma Needle Blight Pathogens on *Pinus mugo* in Slovakia
Adamčíková K. (Slovakia)
- 1419 Brown Spot Needle Blight (*Lecanosticta acicola*), a risk for European pine forests - research requirements providing an effective control
Cech T. (Austria)
- 1649 Dothistroma pini determined on different host species in Slovakia
Ondruskova E. (Slovakia)

PS-167 D7 - Ecosystems, climate change and hydrology

- 3164 Damage of leafroller insects Tortricidae in young Scots pine stands in Latvia
Miezīte O. (Latvia)
- 3169 Formation dynamics of the organic layer and ground vegetation in the Scots pine plantations with different initial planting density
Miezīte O. (Latvia)

PS-199 D7 - Effects of global change on Mediterranean forest insects and interactions with pathogens

- 1054 Dispersal of three Lepidoptera on *Quercus coccifera* and its effect in their stability in Tunisia forests
ezzine o. (Tunisia)

PS-5 D7 - Open Session

- 2975 Modeling tree growth and development under mistletoe infestation
Usta Y. (Turkey)
- 4036 Unravelling the past to manage Newfoundland's forests for the future
Arsenault A. (Canada)
- 1741 Kauri dieback in New Zealand: ancient trees meet new pathogen, new pathogen meets genomic interrogation.
Bradshaw R. (New Zealand)
- 1197 Molecular identification of vegetative compatibility types of *Cryphonectria parasitica*, a causal agent of chestnut blight
Curkovic-Perica M. (Croatia)

- 441 A new non-parametric method to detect insect outbreaks from satellite imagery
Estay S. (Chile)
- 2626 Genotype and source population influence net primary productivity but not insect borer or canker damage in a cottonwood-willow common garden
Garnas J. (United States of America)
- 2168 Wood-anatomical characteristics and environmental signals of co-occurring oak (*Quercus robur*) and ash (*Fraxinus excelsior*)
Hafner P. (Slovenia)
- 1700 Preferences for spatial structures in the dispersion of *Ips typographus*
Hinze J. (Germany)
- 1111 Fungal communities in soils under a Eucalyptus plantation in Zimbabwe
Jimu L. (Zimbabwe)
- 1867 Illumina DNA barcoding reveals fungal communities in *Pinus patula* (Pinaceae) foliage
Jimu L. (Zimbabwe)
- 2970 Biotic forest disturbance induced by the hemiparasitic epiphyte *Viscum album* on the growth of *Pinus sylvestris*
Kollas C. (Germany)
- 1769 Impacts of *E. polonica* infection on defence and stem water transport of Norway spruce seedlings
Rissanen K. (Finland)
- 2087 Phytophthora induced dieback alters canopy and forest floor solute chemistry in a New Zealand kauri forest
Schwendenmann L. (New Zealand)
- 3447 Survey of Phytophthora-species in Åkersvika Nature Reserve in Norway
Talga V. (Norway)
- 3591 Is the plant pathogen *Chondrostereum purpureum* a safe biocontrol agent?
Talga V. (Norway)
- 3391 Abundance of parasitoid Hymenoptera decreases along a gradient of phylogenetic diversity of saproxylic beetle communities
Vogel S. (Germany)

PS-208 D7 - Social and Economic dimensions of forest health: Contributing to a biosecure future

- 968 Public perception foresters of invasive ash dieback pathogen arrival in Serbia
Keca L. (Serbia)

PS-86 D7 - The science of tree health and how we can use it: Multidisciplinary research from the Tree Health and Plant Biosecurity Initiative (THAPBI).

- 3129 PHYTO-THREATS: A multi-disciplinary approach to address global threats from Phytophthora species
Green S. (United Kingdom)
- 1678 Natural Plant Oils Against Early Instar Larvae of Pine Processionary Moth
Karaca I. (Turkey)

PS-159 D9 - Developing the dialogue about forests and forestry with society - the challenge to tell good stories and the need for Forestpedagogy

- 3103 Forestpedagogy - unique form of forest communication and active dialogue with public
Jaloviarová V. (Slovakia)

PS-12 D9 - Open Session

- 1169 Community based Forestry: the vehicle of establishing local institutions, and building socio-ecological resilience in Nepal
Upreti D. (Nepal)
- 3231 Mapping the future market potential of small-holder tree planters - Perspectives from Southern Highlands in Tanzania
Arvola A. (Finland)
- 803 The legitimacy of certification actors in forest climate governance
Blum M. (Germany)
- 690 Adapted Institutional Environment and Sustainable Resource Access: Evidences for Co-Developing Value Chains of Forest(tree) and Agricultural Products in the Amazon
Cunha M. (Germany)
- 4075 Forest Potential in the European Climate Policy Framework
Ellison D. (Switzerland)
- 3551 Public values are incorporated into forest governance in many ways at multiple levels
Ford R. (Australia)
- 1687 Governing the trade of endangered wild tree species: the case of *Prunus africana*
Ingram V. (Netherlands)
- 235 A decade of adaptation to climate change among rural communities in Southern and Eastern Africa: The role of Forest ecosystems
Kalaba F. (Zambia)
- 3910 Policy Mix for Reducing Deforestation from Palm Oil Production
Lan C. (Netherlands)
- 1240 Will the DRC community forest model be viable?
Lescuyer G. (Indonesia)
- 86 Institutional models in forestry and nature conservation and climate change mitigation measures in selected European Union and western Balkan countries
Nedeljkovic J. (Serbia)
- 2815 The Ecosystem Approach, Ecosystem Services and Established Forestry Policy Approaches in the UK
Raum S. (United Kingdom)
- 2816 Reasons for Adoption and Advocacy of Ecosystem Services in UK Forestry
Raum S. (United Kingdom)
- 2088 Changes of private forest ownership and characteristics of the "new forest owners" in Japan
Sato N. (Japan)
- 955 Simulating wood markets with an agent-based model
Thees O. (Switzerland)
- 1278 A deadly dance of discourses: Competing forest development narratives for Peru's Eldorado
van der Zon M. (Netherlands)
- 2427 A question of method: assessment of bioeconomy and its implications
Weimar H. (Germany)
- 768 Haste Makes Waste? Decentralization Reform Failure and Local Defiance in Pingquan County, China
Xu T. (China)

- 1186 Children's books on forestry as a tool to raise awareness about forests
Zeleznik P. (Slovenia)
- 3717 The changes of major ecological factors and its control in the condition of nursery production facilities
Ri K. (Democratic People's Republic of Korea (North Korea))

PS-54 T1 - Global Forest Technology Sharing Framework

- 1564 Cyberforest: That is real-time monitoring and archiving a remote forest via Internet for "Sense of Globe"
Saito K. (Japan)

PS-166 T2 - Development of Adaptation Strategies for Climate Change using GM Trees

- 678 The Role of Adaptation Mechanisms in improving livelihood of farmers in Bara locality-North Kordofan State, Sudan
Hamad m. (Sudan)
- 2925 Variation of non-target wood properties of multi-gene transgenic Poplar (*Populus × euramericana* 'Guariento')
Su X. (China)

PS-68 T2 - Forest Adaptation and Restoration under Global Change

- 4133 Ecotypic variation in response to light spectra in Scots pine (*Pinus sylvestris* L.)
Garcia Gil R. (Sweden)
- 1804 Intra-specific plasticity of seasonal dynamics of xylem formation and vessel features in European beech
Gricar J. (Slovenia)
- 1642 Results of Douglas fir provenance tests in Bavaria (Germany) established 1970 to 1985
Huber G. (Germany)
- 2140 Survival strategies of *quercus pubescens* willd. From Slovenian sub-mediterranean region to different soil water availability
Lavric M. (Slovenia)
- 3913 Soil preparation method impact on Norway spruce and Scots pine containerised seedling root system development
Lazdina D. (Latvia)
- 1012 Population characteristics and seed quality of two distinctive Saxaul (*Haloxyylon ammodendron* C.A. Mey Bunge) stands from Mongolia
Nyam-Osor B. (Mongolia)
- 2203 Adaptation of old Scots pine stands to local ecosystems. Research based on genetic markers and seeds characteristics.
Przybylski P. (Poland)
- 1214 Daily and seasonal activity of *Fagus sylvatica* and *Acer pseudoplatanus* according to tree conductivity
Rutkowski P. (Poland)
- 3213 Turkish hazel in Bulgaria-an autochthonous and valuable tree species for the climate change
Seho M. (Germany)
- 1120 Forestry Institutions and their role in reducing vulnerability, and build resilience in the age of climate change in Nepal
Upreti D. (Nepal)
- 3177 The current distribution and the role of black locust (*Robinia pseudoacacia* L.) in Poland
Wojda T. (Poland)

- PS-111 T2 - Today ignored, rediscovered tomorrow: The importance of minor tree species in future.**
 1908 Growth and gas exchange of seedlings and root sprouts of minor European broadleaved tree species under drought conditions
Kunz J. (Germany)
- PS-184 T3 - Marketing and Business Practices of the Bioeconomy**
 194 Importance of the use harvested wood products in objective of neutralization of carbon emissions by residential building construction in Brazil
Freitas J. (Brazil)
- PS-58 T4 - Managing forests for Biodiversity and Resilience**
 2580 Composition of vegetation on skid trails with different treatment strategies in the experimental forest area in Merklingen, Germany
Jansone L. (Germany)
- PS-72 T4 - Oak forests and management for different ecosystem services**
 3301 Silviculture of mixed oak stands can be supported by natural succession processes
Bielak K. (Poland)
 830 Current situation and the key challenge of silviculture on *Quercus mongolica* in China
Cheng Z. (China)
 1654 Stand structure, vegetation, and regeneration of the semi-natural deciduous mixed oak forests in the Western Qinling Mountains, China
Dai C. (China)
 991 Stand density assessment in cork oak woodlands - a diagnosis of the Portuguese forest systems sustainability
Fonseca T. (Portugal)
 1656 Proposals for the improvement of genetic seed quality in approved oak seed stands
Hardtke A. (Germany)
 3445 Shrubs protect oaks against ungulate browsing in temperate broadleaved forests of conservation interest: A long-term experiment
Jensen A. (Sweden)
 2536 Management of oak forests: striking a balance between timber production, biodiversity and cultural services
Löf M. (Sweden)
 1501 Silviculture of sessile oak (*Quercus petraea*)-dominated stands in Romania: stand or single-tree oriented?
Nicolescu V. (Romania)
 2211 Visual assessment of naturally grown Japanese oak trees for whisky barrels
Owari T. (Japan)
 2245 Net primary production of an oak-dominated evergreen broadleaved forest in warm-temperate region of Japan
Takagi M. (Japan)

- PS-206 T4 - Operational methods for monitoring and assessment of forested landscapes**
 674 Spatial model to detect stingless bees sites
Arena M. (Brazil)
- PS-84 T4 - Promoting forest resilience, adaptive capacity, and ecosystem services through diverse forest ecosystems**
 3442 Managing boreal forest structural diversity under global change risks : resistance or resilience, or both?
Kuuluvainen T. (Finland)
 905 The influence of nutrient availability on the relationship between tree diversity and aboveground productivity in juvenile tree communities
Saito D. (Germany)
- PS-123 T5 - Roots and Ecosystem Services**
 468 Fine root production and turnover of *Pinus massoniana* plantation in Zigui, China
Cheng R. (China)
 469 Fine root decomposition and nutrient release of *Pinus Massoniana* in the Three Gorges Reservoir Area in China
Cheng R. (China)
 1175 Fine root biomass and longevity of trees and understory vegetation in northern Finland
Ding Y. (Finland)
 3990 Carbon allocation patterns in Estonian coniferous forests
Kriiska K. (Estonia)
 1842 Adjustment of absorptive roots and mycorrhizal fungi to nitrogen and phosphorus additions in a Chinese fir plantation
Li L. (China)
 2758 A dynamic 3D coarse root architecture model to study anchorage of forest trees
Saint Cast C. (France)
 1329 *Abies* and its mycorrhiza on global scale
Unuk T. (Slovenia)
- PS-66 T5 - Water Related Ecosystems Services under Risk**
 758 Assessing stream flow sensitivity to drought on forested catchments in Brazil
Ferraz S. (Brazil)

08:00 – 20:00 KG II - HS 2121 (University Freiburg) Poster Exhibition Friday

- PS-202 D3 - Eco-friendly harvesting operations in mountainous terrains**
- 1313 Log chutes: simple, economical, and environmental friendly
Kaakkurivaara N. (Thailand)
- 1057 Seed germination and early field performance of *Quercus robur* and *Pinus sylvestris* seedlings under soil compaction conditions
Marchi E. (Italy)
- 3078 Comparison of effect of establishing forest road network using reliability
Saito M. (Japan)
- 2592 Tree felling manipulator to address specific conditions of Japanese forestry
Shirai Y. (Japan)
- PS-3 D3 - Open Session**
- 3686 Harvester performance in thinning operations based on automatically recorded machine data combined with onboard video capturing
Holzleitner F. (Austria)
- 2950 The effect of a stand's tree volume variation on harvester productivity
Nordfjell T. (Sweden)
- 2594 Transport mechanism that can travel over Japanese forest lands
Shirai Y. (Japan)
- 2800 The analysis of accident rate in Polish forestry: the influence of privatization on the status of accident rates
Grzywinski W. (Poland)
- 3193 Forest operations and Habitats Directive: perspectives under the pressure of climate change
Campagnaro T. (Italy)
- PS-187 D4 - Remote Sensing in Carbon Balance Evaluation and Monitoring**
- 1575 Using time series satellite imagery to characterise disturbance in South East Australian forests
Jones S. (Australia)
- 3397 On the potential to combine cross-border NFI data in remote sensing driven carbon stock assessment: Latvian and Lithuanian study
Jonikavicius D. (Lithuania)
- 2278 Large-scale mapping of forest standing volume with interferometric X-band SAR
May J. (Norway)
- 476 Forest structure estimation using structure from motion approach with UAV in a managed coniferous forest
Ota T. (Japan)
- 3779 China typical forest aboveground carbon estimation by fusion of multi-platform data
Pang Y. (China)

- PS-69 D6 - Urban forestry for quality of life - the impacts of research on everyday practices**
- 41 Urban forest as sanctuary for a threatened indigenous tree species in Southwest Nigeria
Babalola F. (Nigeria)
- 3847 ArboCityNet - A cross-sectoral and transdisciplinary Swiss Urban Forestry Network
Baerlocher B. (Switzerland)
- 496 Valuation of Royal Tombs of Joseon Dynasty as Urban Forest
Lee P. (South Korea (ROK))
- 1447 The relation between citizen's wellness and their attendance in urban forests, Lithuania
Marozas V. (Lithuania)
- 641 Identification of malpractice in urban forestry and arboriculture in a small town
Postenjak F. (Croatia)
- 2413 Spatial-temporal changes of urban forest landscape patterns, woody plants and bird species, and biomass and soil carbon functions in Harbin City, Northeastern China
Wang W. (China)
- PS-161 D7 - Combined and interactive effects of multiple stressors on forest health**
- 2174 Antioxidant capacity in poplar exposed to ozone and/or drought
Dusart N. (France)
- 374 The Effect of Soil Moisture Potential on the Pathogenicity of *Leptographium terebrantis* and *Grosmannia huntii* on *Pinus taeda* L.
Eckhardt L. (United States of America)
- 1305 Environmental maternal effects on the phenotype and interactions of *Eucalyptus* seedlings
Vivas M. (South Africa)
- PS-71 D7 - Early detection and monitoring of invasive forest pests and pathogens with citizen science**
- 4121 Citizen Science helps to combat invasive *Phytophthora* diseases in southern Sweden
Cleary M. (Sweden)
- 3746 Cape Citizen Science: public engagement to detect and discover *Phytophthora* species in South Africa.
Hulbert J. (South Africa)
- 3149 VigiCasta: a citizen science project dedicated to chestnut ink disease.
Robin C. (France)
- 795 P-FOR INIA: a new app for the forestry sector in Uruguay
Simeto S. (Uruguay)

PS-192 D7 - Global decline of Fraxinus species caused by invasive pests and pathogens

- 1805 Natural infection of *Fraxinus angustifolia* by *Hymenoscyphus fraxineus* in Slovakia
Adamcikova K. (Slovakia)
- 3135 Assessing the potential invasiveness of *Hymenoscyphus fraxineus* in the Mediterranean mountains
Aglietti C. (Italy)
- 1987 *Hymenoscyphus fraxineus* at eastern border of its secondary range in Europe
Baranchikov Y. (Russian Federation)
- 2190 *Hymenoscyphus fraxineus* shows population density dependent growth rate
Børja I. (Norway)
- 2171 First experiences in breeding for resistance against ash dieback in southern Germany
Enderle R. (Germany)
- 3058 The double invasion of Far Eastern consumers of ash in the collection of *Fraxinus* species in the Main Botanical Garden of the Russian Academy of Sciences (Moscow)
Seraya L. (Russian Federation)
- 1718 Progression of ash dieback in Norway related to tree age, disease history and regional aspects
Timmermann V. (Norway)

PS-170 D7 - Understanding viruses in trees - promoting healthy plants in forest and urban open space

- 791 Detection of Elm mottle virus (EMoV) and a putative novel Carlavirus in the genus *Ulmus* in northern Germany
Büttner C. (Germany)
- 1785 A novel putative Badnavirus associated with the 'birch leaf-roll disease' in Europe
Büttner C. (Germany)
- 546 A novel virus is associated with the ringspot disease in Common oak (*Quercus robur*)
von Barga S. (Germany)

PS-27 D9 - Community forestry/ Co-management as a possible solution for forest governance and livelihood assurance for forest people in light of UN-REDD Program

- 2522 Linking Devolved Tenure Systems and Forest Management Outcomes: Progress and Challenge
Yin R. (United States of America)

PS-203 D9 - Forests for sustainable development: shifting discourses and approaches

- 1173 A Conceptual Banking Model for Forest Biodiversity Productization in North Europe
Toivonen R. (Finland)

PS-70 D9 - Improved role of forests for people through favourable forest laws and environmental legislation

- 3458 Impact of new regulations to role of forests for community and the process of obtaining customary forest status
Damayanti E. (Indonesia)
- 1303 Institutions and procedures relevant to conduct activities in the forestry sector in Serbia and the Republic of SRPSKA
Keca L. (Serbia)
- 927 How local stakeholders developed a customary forest scheme in Jambi, Indonesia
Sakata Y. (Japan)
- 1663 Basis for the State Forest Policy in form of the Czech National Forest Inventory
Smida Z. (Czech Republic)
- 2357 Regulatory framework of forestry and related sectors addressing climate change mitigation in European Union and selected southeast European countries
Stanisic M. (Serbia)

PS-25 T1 - Food-trees in forest and farmlands: improving livelihood of communities in tropical regions

- 1734 Uses of *Bombax costatum* (Malvaceae) in the surrounding villages the Pendjari Biosphere Reserve
Assogba A. (Benin)
- 44 *Diploknema butyracea*: A viable livelihood option for hill communities of Central Himalayan Region
Sehrawat R. (India)
- 1480 Promoting Value Chains for three important Non-Timber Forest Products to support Biodiversity Conservation in Benin
Vodouhe F. (Benin)

PS-20 T1 - Open Session

- 2571 The Role of Forests: Geographical Positions, Context and Self-Perceived Vulnerability
Chawawa N. (United Kingdom)
- 3256 Do forest concessions benefit extractivist communities? The case of the Jumari National Forest
Hoeflich V. (Brazil)
- 1489 Farmers' motivations to plant and manage on-farm trees in Ghana
Oduro K. (Ghana)
- 2869 Integrative indicator for optimizing forest policies
Hanzu M. (Romania)

PS-51 T2 - Forest management strategies to enhance the mitigation potential of European forests

- 937 Adaptive forest management to account for climate change impacts: review and options for the Netherlands as case-study
Bouwman M. (Netherlands)
- 3422 Assessing carbon storage potential of black locust in Poland basing on data from National Forest Inventory
Bronisz K. (Poland)
- 2733 Developing an atlas of forest management practices in Europe
Verkerk H. (Spain)
- 1708 Economic optimization of the rotation age of stands – case study of carbon accumulation and timber production
Wysocka-Fijorek E. (Poland)

PS-135 T2 - Linkages between carbon sequestration and nutrient and water use efficiency in forests.

- 886 15-year dynamics of Nitrogen Use Efficiency (NUE) in *Pinus sylvestris* forests in the Southwestern Pyrenees, Spain
Lo Y. (Spain)
- 1091 Dendroecological approach reveals climatic drivers of carbon sequestration in Mexican forests
Pompa-Garcia M. (Mexico)

PS-33 T2 - Open Session

- 2280 The effects of climate change and species mixture on survival times of forest tree species
Brandl S. (Germany)
- 2930 Climate change at upper treeline: How do trees on the edge react to increasing temperatures?
Jochner M. (Switzerland)
- 3457 Winter warming: harmful effect of changing snow conditions on tree seedlings in the boreal forest
Martz F. (Finland)
- 2011 Bioclimatic modelling and environmental tolerance to global change in strawberry tree
Ribeiro M. (Portugal)
- 3464 Trade-offs between climate change adaptation and mitigation objectives in Germany
Saha S. (Germany)

PS-32 T3 - Perspective of short rotation forestry for sustaining society and environment

- 1936 Establishing Short Rotation Coppice on Marsh-Grassland
Burger F. (Germany)
- 3642 Eucalyptus grandis trees growth: Effects of nutrition and water availability and interactions with the environment in a prolonged drought period
Chambi-Legoas R. (Brazil)
- 2512 Growth rate variations of Eucalyptus camaldulensis: a comparison between systems – monoculture and silvopastoral system
da Silva Ribeiro G. (Brazil)
- 3494 Group planting fosters better growth and superior tree quality compared to conventional row planting: The first study on wild cherry trees (*Prunus avium* L.) from Germany
Saha S. (Germany)

PS-75 T3 - The nexus between bioeconomy and forest biomass: Challenges, opportunities and necessary steps in the forthcoming decades

- 2982 Development of potential new products, processes and markets from secondary metabolites of Uruguayan native forest trees: advances and perspectives
Bennadji Z. (Uruguay)
- 2134 GIS-based approach for land suitability of fast growing tree-energy plantation in degraded land, Thailand
Haruthaithanasan M. (Thailand)
- 2264 Performance of dry zone Acacia for biomass energy in degraded soil in northeast, Thailand
Phudphong T. (Thailand)

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- 994 Secondary shrublands facilitate the active large scale restoration of fire-disturbed southern bog forests in North-Patagonia
Bannister J. (Chile)
- 3229 From spruce to beech – disturbance and resilience pathways in southern Scandinavian forests?
Bolte A. (Germany)
- 3026 Planning for a new wilderness in Germany – Opportunities and challenges for forest conservation
Brackhane S. (Germany)
- 4182 Achieving a constant browsing level – mission impossible?
Hagen R. (Germany)
- 3000 Impacts of forest management regimes on multiple functions of natural secondary forests in Northeastern China
He Y. (China)
- 1314 Making space for invasive tree species? Increasing mortality of "*Castanea sativa*" in southern Switzerland in response to multiple threats
Hülsmann L. (Switzerland)

- 3878 Landscape-moderated use of forest structures by bats
Jonker M. (Germany)
- 2739 eDNA of dead wood samples for assessing saproxylic beetles
Keller N. (Germany)
- 2566 Stress tolerance in high resolution - on the growth potential of invasive *Ailanthus altissima* in future climates
Knüsel S. (Switzerland)
- 568 Adaptation to climate and ungulate browsing: Are both possible?
Kupferschmid A. (Switzerland)
- 2043 Population structure and density of *Pinus Hartwegii* in an elevation gradient
Marroquín J. (Mexico)
- 3238 Modeling natural regeneration potential in agricultural landscapes of Southeastern Brazil: an approach to decrease restoration cost and increase ecosystem services
Molin P. (Brazil)
- 189 Religious aspects of sacred plants at holy city Allahabad in India
Tomar A. (India)
- 1865 Initiative 20x20 a Country-led platform to restore 20 million hectares of degraded land in Latin America
Zamora-Cristales R. (United States of America)
- 612 Genetic diversity of *Casuarina Equisetifolia*
Zhong C. (China)
- 2185 Mapping marginal Hellenic fir populations by assessing dieback related to climate change with multi-temporal Landsat images
Alizoti P. (Greece)
- 2331 Evaluation of the genetic diversity of natural selected *Quercus robur* L. populations in the Czech Republic using nuclear microsatellites
Cvrckova H. (Czech Republic)
- 2322 Use of microsatellite markers for clonal identification in wild cherry seed orchards
Máchová P. (Czech Republic)
- 2648 The Project Of Peat Amusement Park As Preservation Of Peat Forest Based On Local Wisdom In Central Borneo
Maulana F. (Indonesia)
- 1631 CorCed - Suitability for cultivation of provenances of Cedar and Turkish Hazel in Germany as a result of climate change
Seho M. (Germany)

PS-23 T4 - Tree biodiversity at the genetic level: vital to confront environmental and livelihood challenges

- 733 Pollen and seed gene flow in strawberry tree
Ribeiro M. (Portugal)

PS-41 T5 - Forest rhizosphere ecology and biogeochemistry across environmental gradients

- 4135 Young European beech plants had differently tuned root and shoot growth between dry and less-dry forest plots in summer drought of 2003 and 2011: a study on limestone outcrop in Northern Switzerland
Chakraborty T. (Germany)
- 2025 Fine root dynamics in the boreal soil fertility gradient
Leppälampi-Kujansuu J. (Finland)
- 1737 Nutrient effects on plant carbon allocation - the role of mycorrhizal fungi
Ven A. (Belgium)
- 1309 Distribution of surface-bound phosphatase on mycorrhizal structures of *Hebeloma* sp. on *Quercus Pubescens* seedlings
Straus I. (Slovenia)

PS-60 T5 - Open Session

- 129 Relations between gas exchanges and variation of foliar temperature of young Tachi-Branco plants (*Sclerolobium paniculatum*) submitted to water stress
Rossi L. (Brazil)
- 3212 Rooting space, soil water availability, sapflow and leaf area development regulate climate response of trees on boreal reclamation sites
Landhäusser S. (Canada)
- 1425 Soil security of a tropical montane rainforest in a changing world
Kadir W. (Malaysia)



Welcome Reception

We cordially invite you to the Welcome Reception of the IUFRO 125th Anniversary Congress. This event will be held at the Konzerthaus and is open to all registered participants.

Drinks and snacks will be served for free.

Acting for Sustainability!

The Freiburg Scientific Theatre will entertain you during the Welcome Reception. This culturally diverse group of young and passionate sustainability experts is based in Freiburg, Germany. It combines performance with complex scientific knowledge in a surprising and engaging manner.

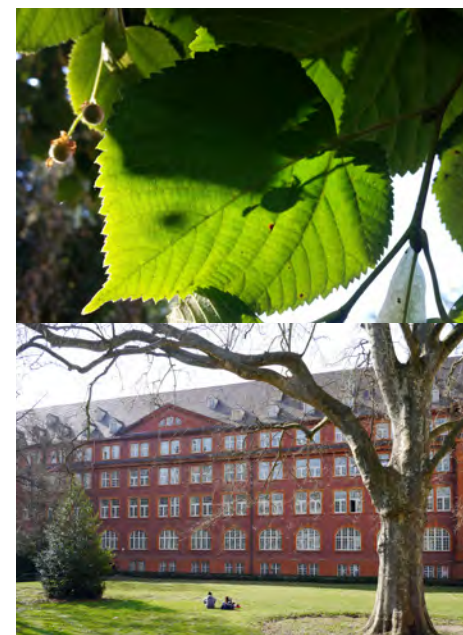
Enjoy the award winning Freiburg Scientific Theatre creatively enacting forestry issues!

www.scientific-theatre.org

Date Sunday, 17 September 2017

Time 18:30 h

Entrance Included in Congress fee



Tree Planting Ceremony and Opening of the Forest History Exhibition

The traditional IUFRO tree planting ceremony creates a lasting souvenir of the 125th Anniversary Congress in Freiburg. A linden (*Tilia sp.*) will be planted as a long established symbol of the social connection between trees and people. The ceremony will take place under the auspices of Prof. Dr. Daniela Kleinschmit. Forest scientists from all around the globe are invited to share this commemorative moment.

Historically linden or lime trees often served as location for trials and court meetings, and until today they shelter open air dances, beer gardens, resting points, and avenues in Central Europe. Last but not least their heart shaped leaves make them the trees of love, youth, and the future.

Immediately following, the exhibition "Interconnecting Forests, Science and People. IUFRO's activities over the past 125 years" will be formally opened.

Date Monday, 18 September 2017

Time 16:00 h

Entrance Free access

Location University of Freiburg
Faculty for Environment and Natural Resources (Herderbau)
In front of the building / inner courtyard
Tennenbacher Str. 4, D-79106 Freiburg

Invited speakers Lord Mayor of Freiburg,
Dr. Dieter Salomon

Rector of the University of Freiburg,
Prof. Dr. Dr. h.c. Hans-Jochen Schiewer
IUFRO President, Prof. Dr. Mike Wingfield
Rector of hKDM – University of Arts and Applied Sciences, Prof. Dr. Timo Becker
Curator Prof. Dr. Uwe E. Schmidt,
University of Freiburg



Congress Opening Ceremony

The Opening Ceremony of the IUFRO 125th Anniversary Congress is “the” occasion to learn about and acknowledge the global expansion and the scientific achievements of IUFRO and their impact on forest policy. It also serves as the collective starting point for future developments within IUFRO.

The key-note of the IUFRO President will be followed by welcoming words by political representatives of the NFZ.forestnet regions and selected IUFRO stakeholders. It culminates in the launch of the new IUFRO slogan, to be presented by Alexander Buck, IUFRO Executive Director, Vienna (Austria).

Speakers

Michael Wingfield, President of IUFRO, Pretoria (South Africa)

Peter Hauk, Minister for Rural Affairs and Consumer Protection Baden-Württemberg, Stuttgart (Germany)

Philippe Richert, President of Grand Est Region, Strasbourg (France) t.b.c

Georg Schirmbeck, President of German Forestry Council, Berlin (Germany)

Marc Palahi, Director of European Forest Institute, Joensuu (Finland)

Date Tuesday, 19 September 2017

Time 10:45 to 11:30 h

Entry begins at 8:30

Location Rolf Böhme Saal
(Konzerthaus Freiburg)

Entrance Included in Congress fee

Registration On site at the registration counter

Statements by Federal Ministers

Hermann Onko Aekens, State Secretary, Federal Ministry of Food and Agriculture, Berlin (Germany)

Marc Chardonens, Director, Federal Office of the Environment, Bern (Switzerland)

Gerhard Mannsberger, Head, Forestry Department, Federal Ministry of Agriculture, Forestry, Environment and Water Management, Vienna (Austria)

Arnaud Brizay, Attaché for Agriculture, French Embassy, Berlin (France/Germany)



Anniversary Gala

The important social event of the Congress! This evening will take you on a short journey through the history of the IUFRO and will have a lot of regional and international surprising acts and food ready for you. Join us for this fun filled international evening – international like the IUFRO is! – with fine food and varied entertainment. There will be plenty of time for networking and having informal talks with other scientists, colleagues & friends during this Anniversary Gala evening!

Date Thursday, 21 September 2017

Time 19:30 h

Location Rolf Böhme Saal
(Konzerthaus Freiburg)

Entrance 54.00 EUR per Person
(incl. food and drink)

Registration On site at the registration counter

Closing Ceremony

Main messages from the 125th Anniversary Congress

Presentation of IUFRO Distinguished Service and Special Recognition Awards

Introductory video of Curitiba, Brazil, host of the next IUFRO World Congress in 2019

Official Closing of the Congress

Date Friday, 22 September 2017

Time 17:30 - 19:00 h

Location Rolf Böhme Saal
(Konzerthaus Freiburg)

Entrance Included in Congress fee

Registration No registration necessary

SIDE EVENTS

Business Meetings

International Society of Tropical Foresters Business Meeting

After a five-year hiatus, the International Society of Tropical Foresters (ISTF) is being reactivated. This group aims to connect all who are interested in international tropical forestry, from the forester and conservationist in the field to government, industry, NGOs, and academia. All are invited to attend the business meeting to discuss strategies for forming the new ISTF.

Date	Monday, 18 September 2017	Location	KG I - 1139 (University Freiburg)
Time	12:45 – 13:45	Organizer	Ward S. (Puerto Rico)

Tropical Forest Datasets Networking Meeting

For this networking session, we welcome participants who are interested in orphaned tropical forest datasets. We are trying to locate these data sets, which are scattered among different institutions and individuals. Some of the data are available only on paper, some are digitized but in old formats, and some are still undiscovered. These data sets may become lost and with them our ability to assess historical changes that can inform research and policy development for land use change and landscape resilience. If you can help us in locating information on such datasets, or are interested in the topic, please come to the session.

Date	Monday, 18 September 2017	Location	KG I - 1015 (University Freiburg)
Time	20:00 – 21:30	Organizer	Ward S. (Puerto Rico)

Division 3 Business Meeting

Date	Tuesday, 19 September 2017	Location	KG I - 1098 (University Freiburg)
Time	20:00 – 21:45	Organizer	Chung W. (United States of America)

Division 4 Business Meeting

Date	Tuesday, 19 September 2017	Location	KG I - 1228 (University Freiburg)
Time	20:00 – 21:45	Organizer	Peyron J. (France)

Division 6 Business Meeting

Date	Tuesday, 19 September 2017	Location	KG I - 1224 (University Freiburg)
Time	20:00 – 21:45	Organizer	Sievänen T. (Finland)

Division 7 Business Meeting

Date	Tuesday, 19 September 2017	Location	KG I - 1199 (University Freiburg)
Time	20:00 – 21:00	Organizer	Brockerhoff E. (New Zealand)

Division 9 Business Meeting

Date	Tuesday, 19 September 2017	Location	KG I - 1015 (University Freiburg)
Time	20:00 – 21:45	Organizer	Kleinschmit D. (Germany)

Meliaceae Working Party (IUFRO Working Group 1.02.04)

Date	Tuesday, 19 September 2017	Location	KG I - 1134 (University Freiburg)
Time	20:00 – 21:00	Organizer	Ward S. (Puerto Rico)

Mountain Forest Management (Working Unit 1.01.05) Business Meeting

Date	Tuesday, 19 September 2017	Location	KG I - 1243 (University Freiburg)
Time	20:00 – 21:00	Organizer	Park P. S. (South Korea (ROK))

Book Launches

A History of IUFRO Congresses, Forest Research and Russia's Participation

After opening remarks, Prof. Victor Teplyakov will present the book. Prof. He will be followed by former IUFRO Presidents, Prof. Em. Don Koo Lee and Prof. Em. Walter Liese, and long-term IUFRO Secretary Dipl. Ing. Heinrich Schmutzenhofer. Dr. Chang Jae Lee and Dr. Ho Sang Kang, in recognition of the support from the Republic of Korea for the English translation of the book, and Dr. John Parrotta, editor, will also say a few words. Former IUFRO presidents and vice-presidents as well as other IUFRO officers, colleagues and friends are expected to come.

Date	Wednesday, 20 September 2017	Location	KG I - 1015 (University Freiburg)
Time	12:45 – 13:30	Organizer	Teplyakov V. (Russian Federation), Shalaev V. (Russian Federation)

The Earthscan Reader on Gender and Forests. Edited by Carol J. Pierce Colfer, Marlène Elias, Bimbika Sijapati Basnett and Susan Stevens. Routledge 2017.

After a brief presentation of the book by the editors and contributors, there will be an opportunity for questions and discussion from the participants.

Date	Thursday, 21 September 2017	Location	KG I - 1015 (University Freiburg)
Time	12:30 – 13:15	Organizer	Elias M. (Italy), Sijapati Basnett B. (Indonesia), Arora-Jonsson S. (Sweden)

Interconnecting Forests, Science and People
IUFRO's activities over the past 125 years
Exhibition

Opening 18 September 2017 at 4.45 p.m.
Date From 19 to 29 September 2017
Opening hours 9 a.m. to 6 p.m. on weekdays
Location University of Freiburg
 Faculty for Environment and Natural Resources (Herderbau)
 Tennenbacher Str. 4, D-79106 Freiburg



The Exhibition Interconnecting Forests, Science and People is a production of the Faculty of Environment and National Resources, University of Freiburg.

The installation itself was designed and constructed by students from the University of Arts and Applied Sciences in Freiburg.



The Exhibition, "Interconnecting Forests, Science and People", installed in the inner courtyard of the Faculty for Environment and Natural Resources (the Herderbau), concentrates on three interconnecting elements: a Forest Science History Exhibition, an artistic photo exhibition and a connecting lounge space where visitors are invited to relax and contemplate the exhibition.

The Forest Science History Exhibition is inspired by forest history, particularly the activities of the International Union of Forest Research Organizations (IUFRO). The six stations focus on research themes of historical relevance and the activities of various IUFRO Divisions. The photo exhibition, entitled, "Traces in the Forest", offers a spatiotemporal interpretation of the relationship between people and the forest.

From IUFRO Foundation to World War I

Socio-economic changes during the 19th Century had a major impact on forests and their functions. Analogous to the European Industrial Revolution, one could speak of a "Forestry Revolution". Researchers at the practical, problem-based forest experimental stations in Central Europe had been advocating a forum for the exchange of forest knowledge since the 1890s. They perceived the need to compare experimental results. On 17 August 1892, IUFRO was founded in Eberswalde, Germany. The main research goal was the interaction between forest and water. International activities focused on the characteristics and provenances of different indigenous and exotic tree species.

World War I – End World War II

International communication and collaboration among research and experimental stations was impeded severely by the two world wars. In the 1920's, conferences were held, but only became more frequent in the post-war period. IUFRO, whose members until then comprised experimental stations, broadened its research and geographic focus to include universities, forest training centers, and institutions undertaking forest-related research. Furthermore, in African, Asian and southern and northern American countries, IUFRO served as a platform for international forestry and forest research. International seed exchange, analysis of wood properties, site descriptions and forest protection were the main research areas.



Post-war – End 1960s

The period after WW II was characterized by reforestation. Political reforms worldwide increasingly restricted international exchange of knowledge and experience to the western world. These typically materialistic societies were primarily interested in forest utilization. Research into labor and mechanization in forests, forest protection and silviculture aimed to increase forest production. Botany, and growth and yield studies supported this goal. The concept of multi-functional forest goals emerged for the first time.

Economic Growth in a World of Limited Resources

With the advent of post-materialistic values, greater importance was attributed to ecological factors. Following environmental catastrophes and the phenomenon of forest dieback, economic growth and forestry practices were perceived critically. IUFRO research projects reflected the divisive debate. Research focused on forest utilization in Canada and Siberia as well as in tropical forests, and developments in aerial photography and remote sensing combined with new harvesting methods facilitated the identification of solutions. The "ecological turning point" first became evident in IUFRO through investigations of the impact of air pollution on forests in industrial and mining areas.

Globalization and Environmental Issues worldwide

Increasing globalization characterizes the last 25 years. Global environmental research and corresponding development assistance in forestry take socio-economic aspects increasingly into account. In all IUFRO divisions, the environment-forest-people relationships are addressed, leading to greater environmental awareness in defining research questions and participation in international forest political processes. Since the 1990s, IUFRO places a high priority on the sustainability of natural and near-natural tropical forests. IUFRO Special Programs for Forestry Education in developing countries promote sustainable resource use in keeping with ecosystem sustainability. Many IUFRO divisions and working groups address the challenge of predicting the forest-related impacts of climate change.



KEY PARTNERS & PUBLIC SPONSORS

We greatly appreciate the important role of our key partners in the funding, planning, coordination and organization of the congress through their participation on the Congress Organizing Committee.



German Federal Ministry of Food and Agriculture (BMEL)



Ministry of Rural Affairs and Consumer Protection Baden-Württemberg (MLR)



State Forest Service Baden-Württemberg (ForstBW)



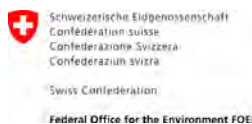
Austrian Federal Ministry of Agriculture, Forestry, Environment and Water Management (BMLUFW)



Austrian Research Centre for Forests (BFW)



Bavarian State Institute of Forestry (LWF)



Federal Office for the Environment (FOEN)



Public Interest Group on Forest Ecosystems (GIP ECOFOR) Paris, France

You are invited to visit our exhibition. You can find the booths of our partners and sponsors in front of the Rolf Böhme Saal in the Konzerthaus.

Sponsors and Donors

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Tuesday

Wednesday

Thursday

Friday

Posters

Events

Partners

Speakers

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Tolosana, Eduardo, Prof., Escuela Universitaria de Ingeniería Técnica Forestal, Spain

Tomar, Anita, PhD, Indian Council of Forestry research and Education, India

Tomé, Margarida, Prof., Instituto Superior de Agronomia, Portugal

Toppinen, Anne, Prof., University of Helsinki, Finland

Toro Manriquez, Mónica, Austral Centre of Scientific Research, Argentina

Torres, Bolier, Universidad Estatal Amazónica, Ecuador

Tosso, Félicien, Université de Liège / Gembloux Agro-Bio Tech, Belgium

Trailovic, Zoran, Institut für Waldbau, Austria

Trettin, Carl, PhD, USDA Forest Service, United States of America

Trincado, Guillermo, PhD, Bosques y Sociedad, Chile

Tsykun, Tetyana, PhD, Swiss Federal Institute WSL, Switzerland

Tullus, Hardi, Prof., Estonian University of Life Sciences, Estonia

Tumuheirwe Kakooko Ndyomugenyi, Emily, Global Community Based Environmental Initiatives (GCBEI), Uganda

Tunytsya, Taras, Prof., Ukrainian National Forestry University, Ukraine

Türker, Mustafa Fehmi, Prof., Karadeniz Technical University, Institute of Science, Turkey

Monday

Tuesday

Wednesday

Thursday

Friday

Posters

Events

Partners

Speakers

SPEAKERS

Turner, Monica, PhD, University of Wisconsin-Madison, United States of America
Tutthoyibah, Warda, Universitas Gadjah Mada, Indonesia
Tyrväinen, Liisa, Prof., Natural Resources Institute Finland, Finland

U

Uchiyama, Yuta, PhD, Tohoku University, Japan
Ueda, Hirofumi, PhD, Hokkaido University, Japan
Ulevicius, Vidmantas, PhD, Center for Physical Science and Technology, Lithuania
Unger, Wibke, Prof., University of Applied Sciences Potsdam, Germany
Unuk, Tina, PhD, Slovenian Forestry Institute, Slovenia
Upfold, Sally, Institute for Commercial Forestry Research, South Africa
Uprety, Dharam Raj, PhD, National Water Resources Concern Nepal, Nepal
Urquhart, Julie, PhD, Centre for Environmental Policy, United Kingdom
Usta, Yetkin, MD, Karadeniz Technical University, Faculty of Forestry, Turkey
Uusitalo, Jori, Prof., Natural Resources Institute Finland (Luke), Finland
Uygur Erdogan, Betül, PhD, Istanbul University, Faculty of Forestry, Turkey

V

Vacik, Harald, PhD, University of Natural Resources and Life Sciences, Austria
Valatin, Gregory, PhD, Forest Research, United Kingdom
Valbuena, Rubén, PhD, University of Cambridge, Finland
Valsta, Lauri, Prof., University of Helsinki, Finland
Van den Bosch, Matilda, MD, PhD, The University of British Columbia, Canada
Van der Aa, Beatrijs, INBO, Belgium
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Van Kooten, Gerrit Cornelis, Prof., University of Victoria, Canada
Van Lent, Jeffrey, CIFOR, Indonesia
Vanclay, Jerome, Prof., Southern Cross University, Australia
Vanderwel, Mark, Department of Biology, Canada
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Vardhan Pandey, Vijay, PhD, FOREST RESEARCH INSTITUTE, India
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Veloso de Freitas, Joberto, PhD, Brazilian Forest Service, Brazil
Ven, Arne, PhD, University of Antwerp, Belgium
Vergara-Asenjo, Gerardo, PhD, Forest Research Institute, Chile
Verheyen, Kris, Prof., Forest & Nature Lab - Ghent University, Belgium
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Verkerk, Hans, PhD, European Forest Institute, Spain
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Vivas, Maria, PhD, Forestry and Agricultural Biotechnology Institute (FABI), South Africa
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W

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Weller, Priska, Thünen Institute, Germany
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Westholm, Lisa, Swedish University of Agricultural Sciences, Sweden

SPEAKERS

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Williams, Daniel, PhD, US Forest Service, United States of America
Wingfield, Brenda, Prof., University of Pretoria, Forestry and Agricultural Biotechnology Institute (FABI), South Africa
Wingfield, Michael W., Prof., University of Pretoria, Forestry and Agricultural Biotechnology Institute (FABI), South Africa
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Wolfslehner, Bernhard, PhD, EFCEEC, Austria
Wong, Andrew, PhD, Universiti Malaysia Sarawak, Malaysia
Woodward, Steve, Prof., University of Aberdeen, United Kingdom
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Wyttenbach, Martin, Zurich University of Applied Sciences, Schweiz

X

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Youn, Yeo-Chang, Prof., Seoul National University, South Korea (ROK)
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Z

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Zheng, Haifeng, PhD, Northeast Institute of Geography and Agroecology, CAS, China
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Zhu, Xinxin, University of British Columbia, Canada
Ziche, Daniel, PhD, Thuenen-Institute of Forest Ecosystems, Germany
Zielewska-Büttner, Katarzyna, Forest Research Institute Baden-Württemberg, Germany
Zimmer, Yelto, PhD, Freunde des Thünen Instituts, Germany
Zobrist, Kevin, Prof., Washington State University, United States of America
Zuidema, Pieter, Prof., Wageningen University, Netherlands
Zunic, Marijana, University of Zagreb Faculty of Forestry, Croatia

General Information

Capacity issue

In order to accommodate as many participants as possible, we have acquired extra rooms in a second building. Thus, additionally to the original congress venue Konzerthaus, there will be several sessions in the buildings of the University of Freiburg, KG I and KG II. These buildings are just a five minute walk away from the university and only a few steps from the Mensa, where lunch will be served.

All social events, plenary sessions and the “Science in Dialogue” sessions will take place in the Konzerthaus, as well as the sponsor exhibition. In the Konzerthaus, there may not be more than 1,500 people at any one time. This is why we are obliged to have a head-count in the Konzerthaus. We will install a livestream to the KG I – Auditorium Maximum in the university during following sessions: Opening Ceremony, Statements by Federal Ministers Session, Science meets Policy Session, every Keynote Plenary Session, Closing Ceremony

Please be prepared that when the maximum capacity in the Konzerthaus is reached, participants will be asked to join the transmission in the Auditorium Maximum! We ask for your understanding that we need to conform to the safety regulations prescribed by the management of the congress venue and apologize for any inconvenience this may cause.

Communication during the congress

Follow our on site updates on Facebook (facebook.com/iufro2017) and twitter (@iufro_2017). You are tweeting yourself? Get heard using the hashtag #iufro2017!

Live Streaming

We are happy to announce that for the first time in IUFRO history anyone who cannot make it to Freiburg or was not able to register for the IUFRO Anniversary Congress will have the opportunity to watch the Congress via livestream on the Internet.

From Tuesday to Friday we will broadcast selected sessions of the Congress program on three different STAGES online on www.live.iufro2017.com. On our MAIN STAGE, online participants will have the opportunity to ask questions directly into the auditorium, which may actively be put into the discussion onsite.

Online participation is free of charge. To access the livestream you will be requested to enter your name, email address and country.

MAIN STAGE (Tue, Wed, Thu, Fri):

Opening Ceremony, Press Conference, Science in Dialogue Sessions, Keynote Plenary and Sub-plenary Sessions, Closing Ceremony

2nd STAGE (Wed, Thu, Fri):
Sub-plenary Sessions

3rd STAGE (Thu, Fri):
Sub-plenary Sessions

Date

18 – 22 September 2017

Venues

Konzerthaus
Konrad-Adenauer-Platz 1
79098 Freiburg

Novotel Hotel Freiburg am Konzerthaus
Konrad-Adenauer-Platz 2
79098 Freiburg im Breisgau

University Freiburg KG I (Kollegiengebäude I)
Platz der Universität 3
79098 Freiburg

University Freiburg KG II (Kollegiengebäude II)
Platz der Alten Synagoge 1
79098 Freiburg im Breisgau

WLAN

- Konzerthaus
Network: IUFRO2017
Password: IUFRO2017
- Novotel
Network: IUFRO_Freiburg
Password: IUFRO2017
- University Freiburg
Network: IUFRO
Password: uf-560Jahre

Badge print on site

Please note that the badges will be printed out on site at the self-service print stations “Print your badge” in the main entrance area of the Konzerthaus Freiburg.

Please make sure to have the BADGE EXPRESS PRINT page of your registration document available upon arrival at the congress venue, indicating the BADGE EXPRESS PRINT CODE in order to use the self-service print stations.

On site Registration

(only at the Konzerthaus)

Sunday, 17.09.2017, 16:00 – 18:30 h
Monday, 18.09.2017, 07:00 – 19:00 h
Tuesday, 19.09.2017, 08:00 – 19:30 h
Wednesday, 20.09.2017, 07:00 – 19:30 h
Thursday, 21.09.2017, 07:00 – 19:30 h
Friday, 22.09.2017, 07:00 – 19:00 h

Media check rooms for speakers

The media check rooms for your presentations are located in the Konzerthaus in the room “Libresso” on the ground floor next to the registration counter or in KG I (University Freiburg) on the ground floor in room HS1019.

Opening hours:

Sunday, 17.09.2017, 16:00 – 18:30 h (only Konzerthaus)
Monday, 18.09.2017, 07:00 – 19:30 h
Tuesday, 19.09.2017, 07:00 – 19:30 h
Wednesday, 20.09.2017, 07:00 – 19:30 h
Thursday, 21.09.2017, 07:00 – 19:30 h
Friday, 22.09.2017, 07:00 – 17:30 h

Lunch & Coffee Breaks

You will find the coffee breaks in the foyers of the Konzerthaus and in the University in KG I.

Please note that the Lunch will be served in the Mensa (adjacent to University KG I).

Mensa Rempartstraße
Rempartstraße 18
79098 Freiburg

Taxi service

Taxis are available in front of the main entrance of the Konzerthaus.
To order a taxi please call Freiburg Taxi +49 761 55 55 55 or Markgräfler Taxi +49 761 5932322

INFORMATION

Public Transport

Your congress badge contains the free use of the extensive public transport system in Freiburg and the region from 17 – 22 September 2017.

Train, bus and tram stations are nearby to Konzerthaus, Novotel and University:

Main station "Hauptbahnhof, Freiburg im Breisgau"

Central Bus Terminal "ZOB, Freiburg im Breisgau"

Tram station „Stadttheater, Freiburg im Breisgau“

To find a „Journey Planer“ and more information on trams and busses please visit the website: www.vag-freiburg.de

Wardrobe

You will find a wardrobe free of charge in the foyer on the ground floor of the Konzerthaus.

Please note that there are no further wardrobes in the Novotel or in the University.

Cash point (ATM)

In close vicinity to the Konzerthaus you find several cash points. The first one is right around the corner. After leaving the Konzerthaus just turn right in the Bertoldstraße and you will find it in the passage on the right-hand side. Further cashpoints are available in the main station "Freiburg Hauptbahnhof".

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Important phone numbers

Police 110

Medical emergency / accident services 112*

Fire Service 112*

Toxic Substance Emergency 19240

*Calls to 112 are free from any telephone (mobile or cellular of fixed-line). The number 112 can be dialed to reach emergency services – medical, fire and police – from anywhere.

Photos

Please note that photos, videos and audio recording of the attendees are being created at the event. This material will be published in the internet, professional journals and/or other publications during and after the congress. After the event you will find the pictures on the congress website.

Copyright Presentations

Congress Website: <http://iufro2017.com>

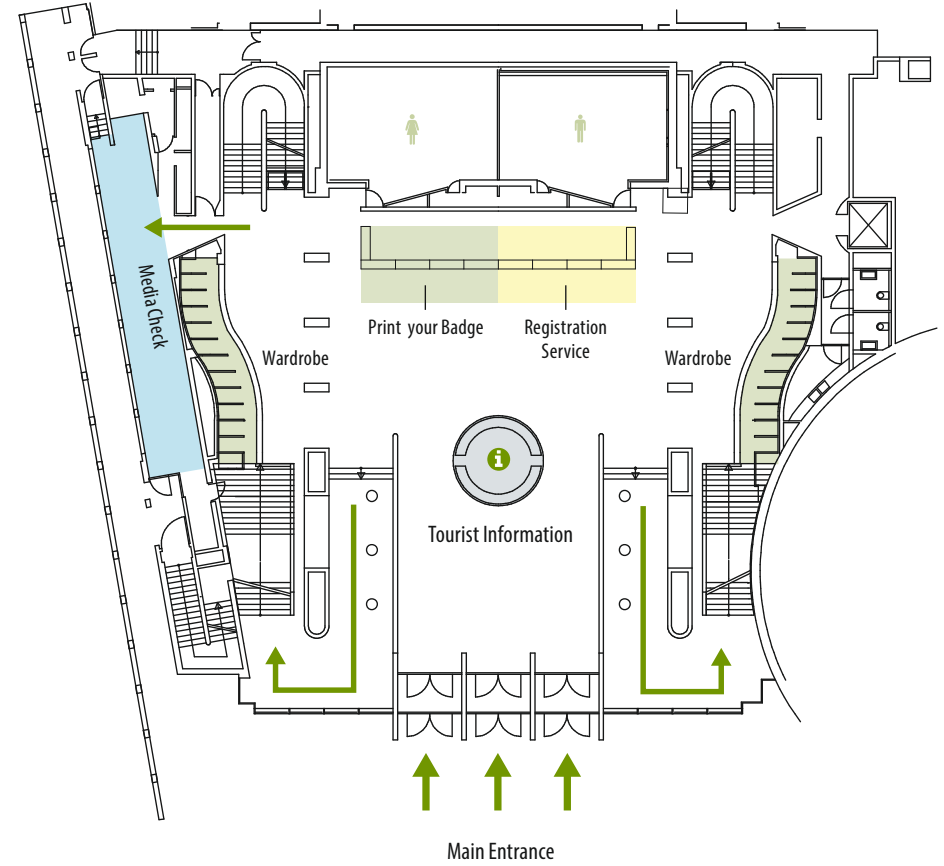


SITE MAPS

City Center Freiburg

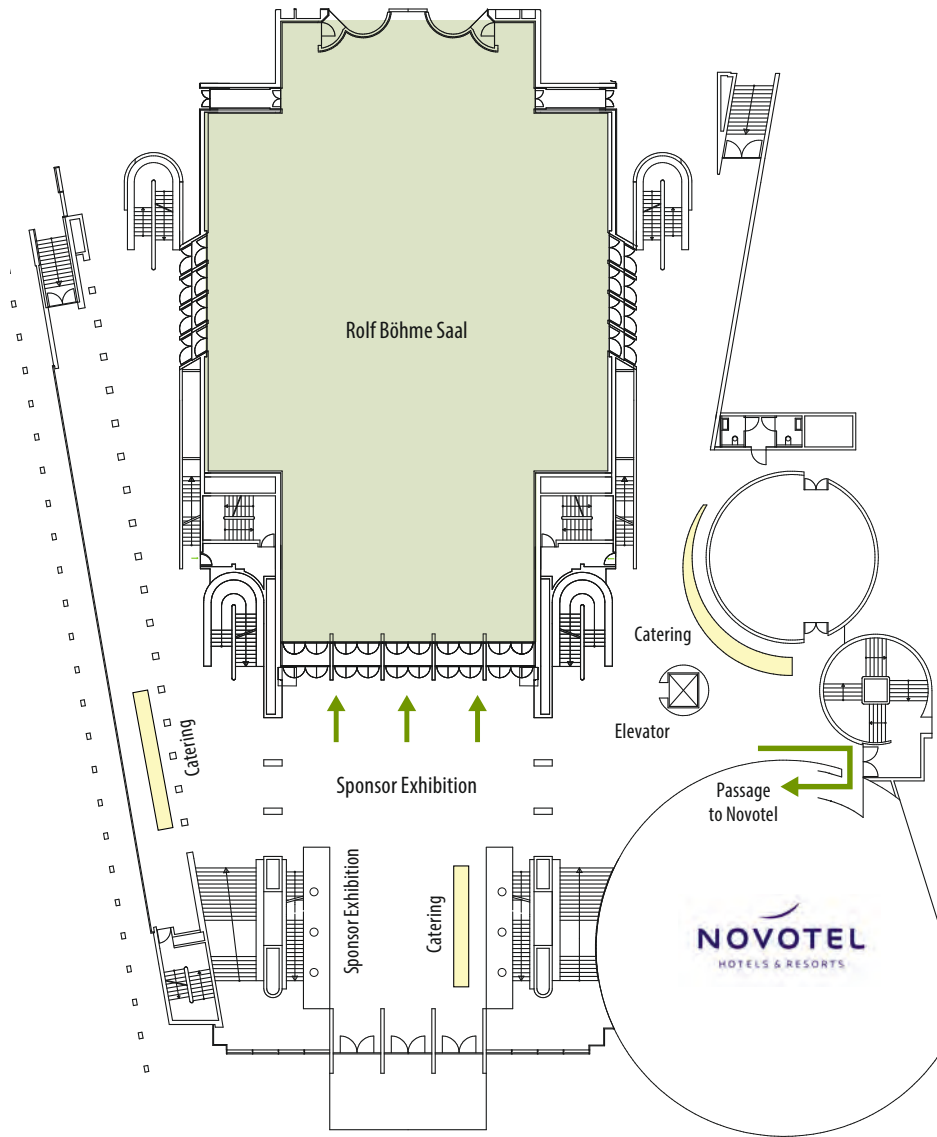


Konzerthaus Ground Floor

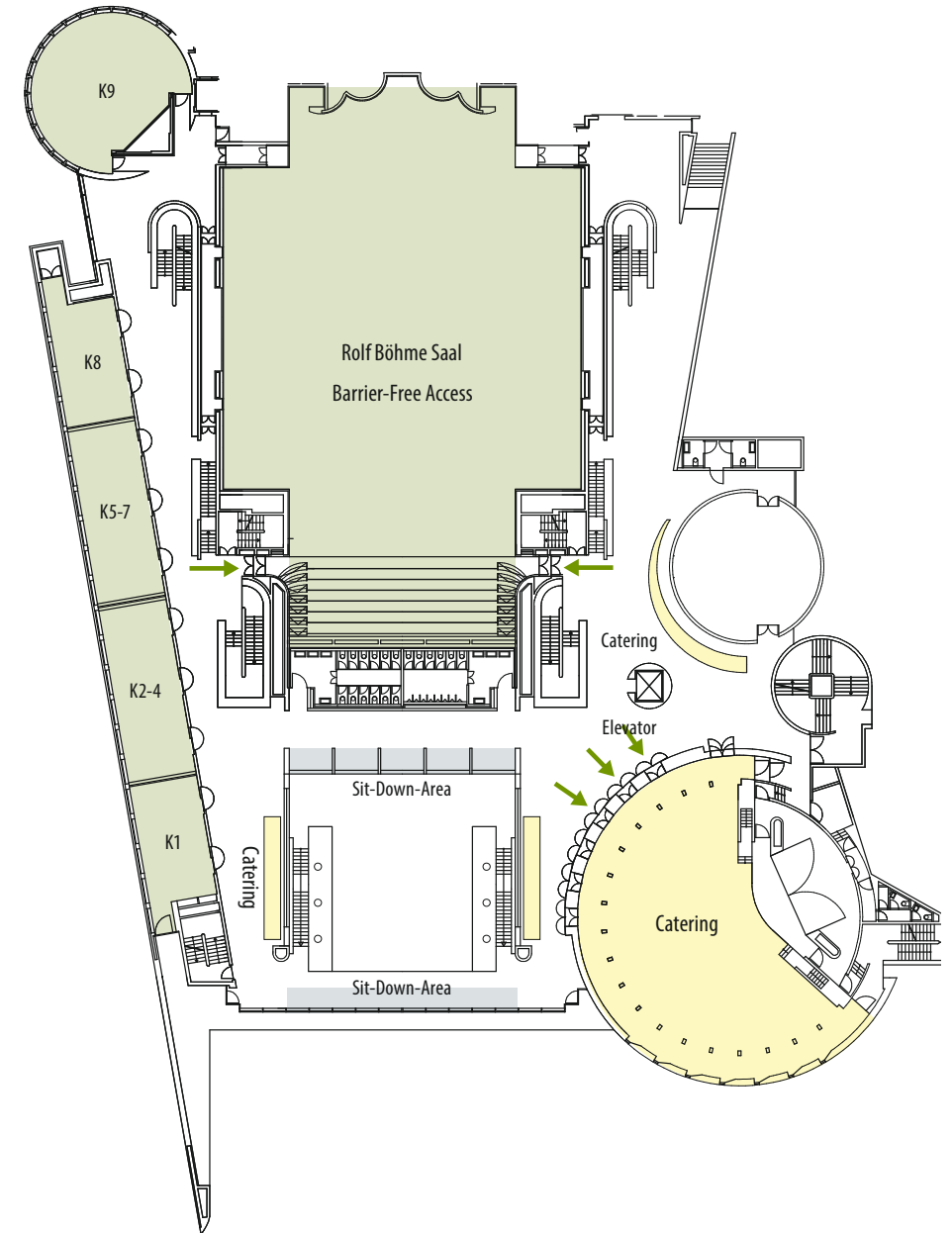


SITE MAPS

Konzerthaus First Floor



Konzerthaus Second Floor



Monday

Tuesday

Wednesday

Thursday

Friday

Posters

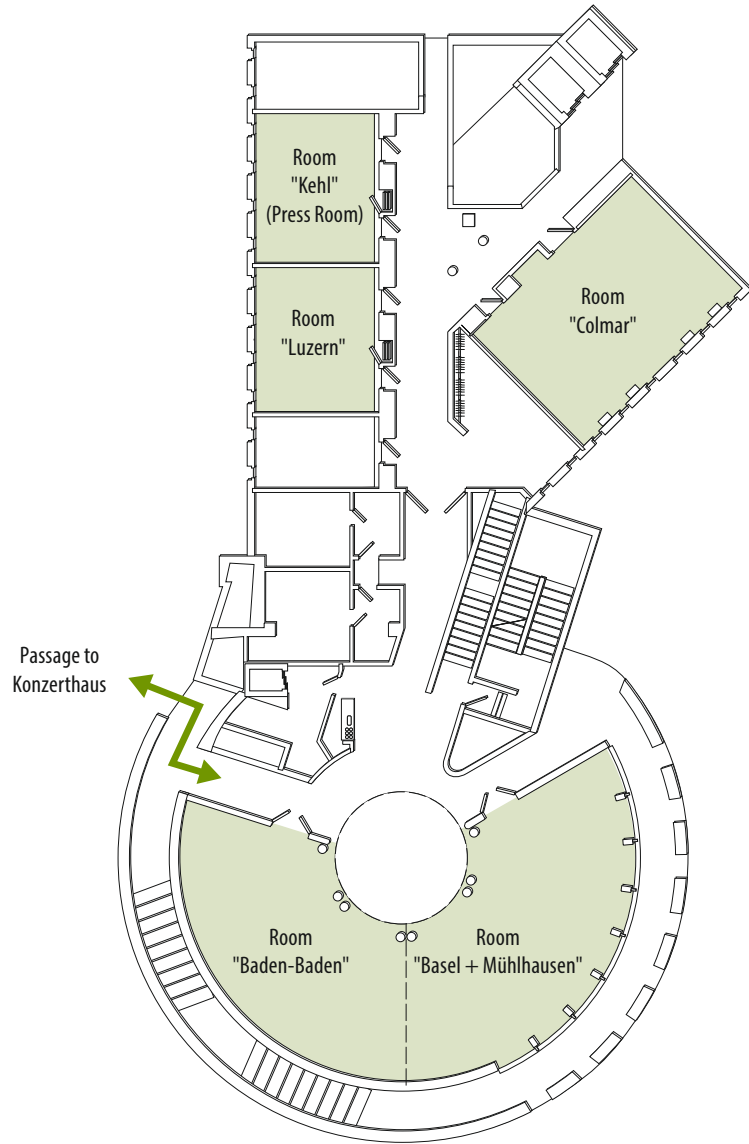
Events

Partners

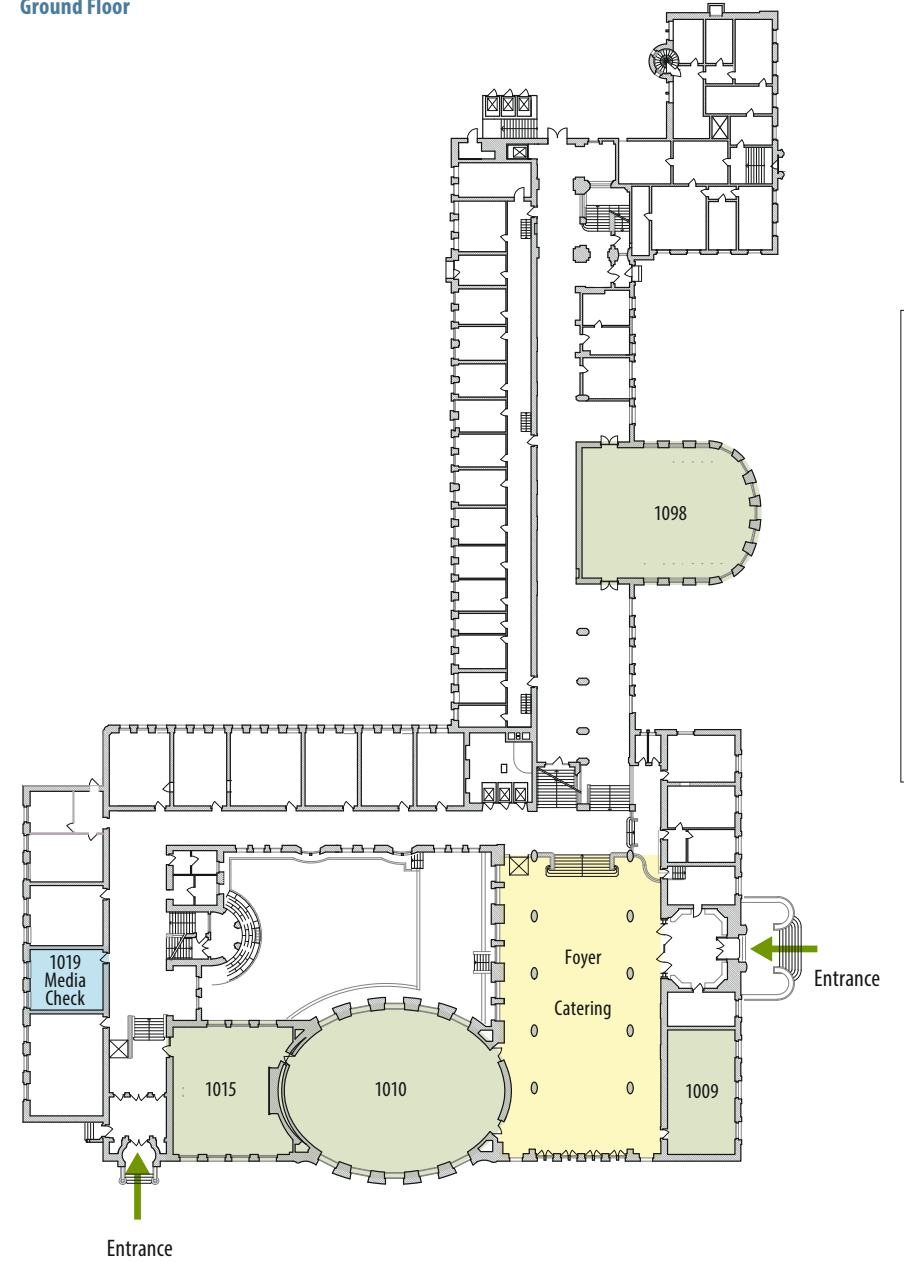
Speakers

Information

Novotel

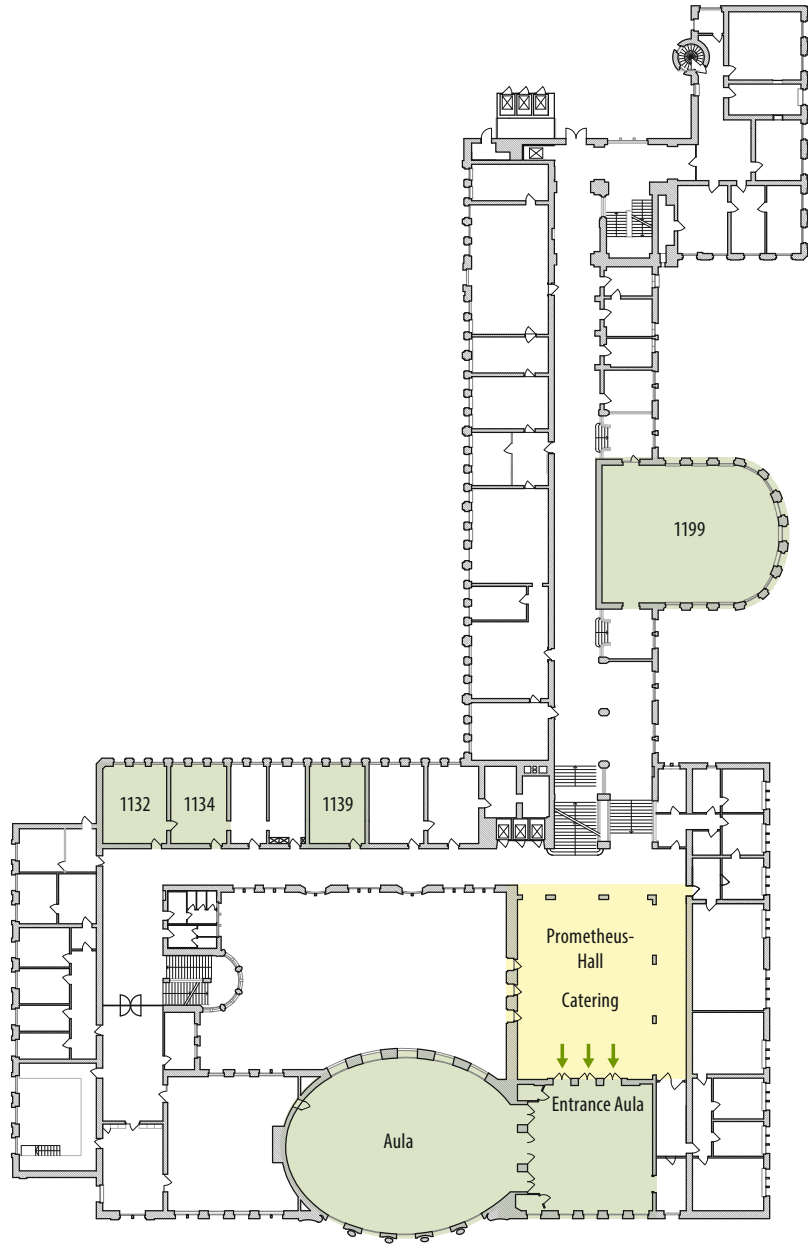


University KG I
Ground Floor

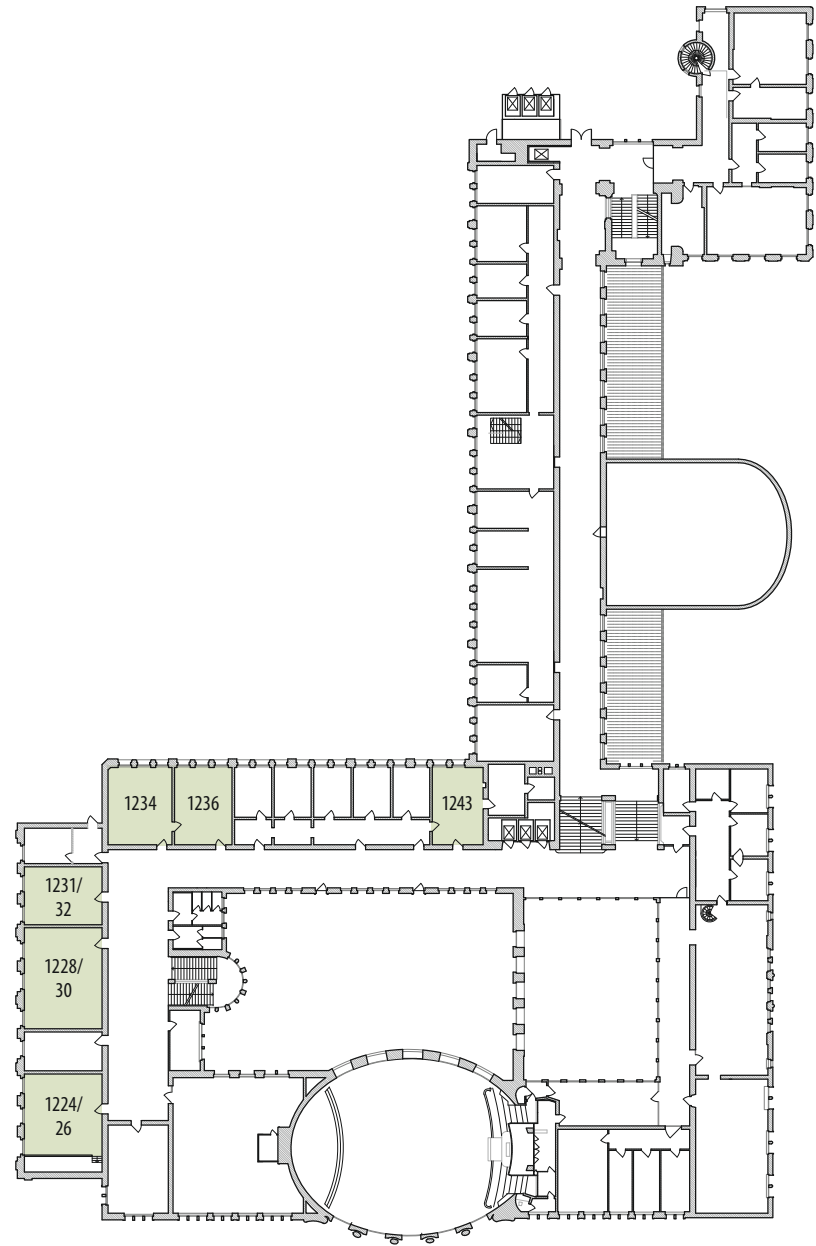


Mensa Lunch Breaks

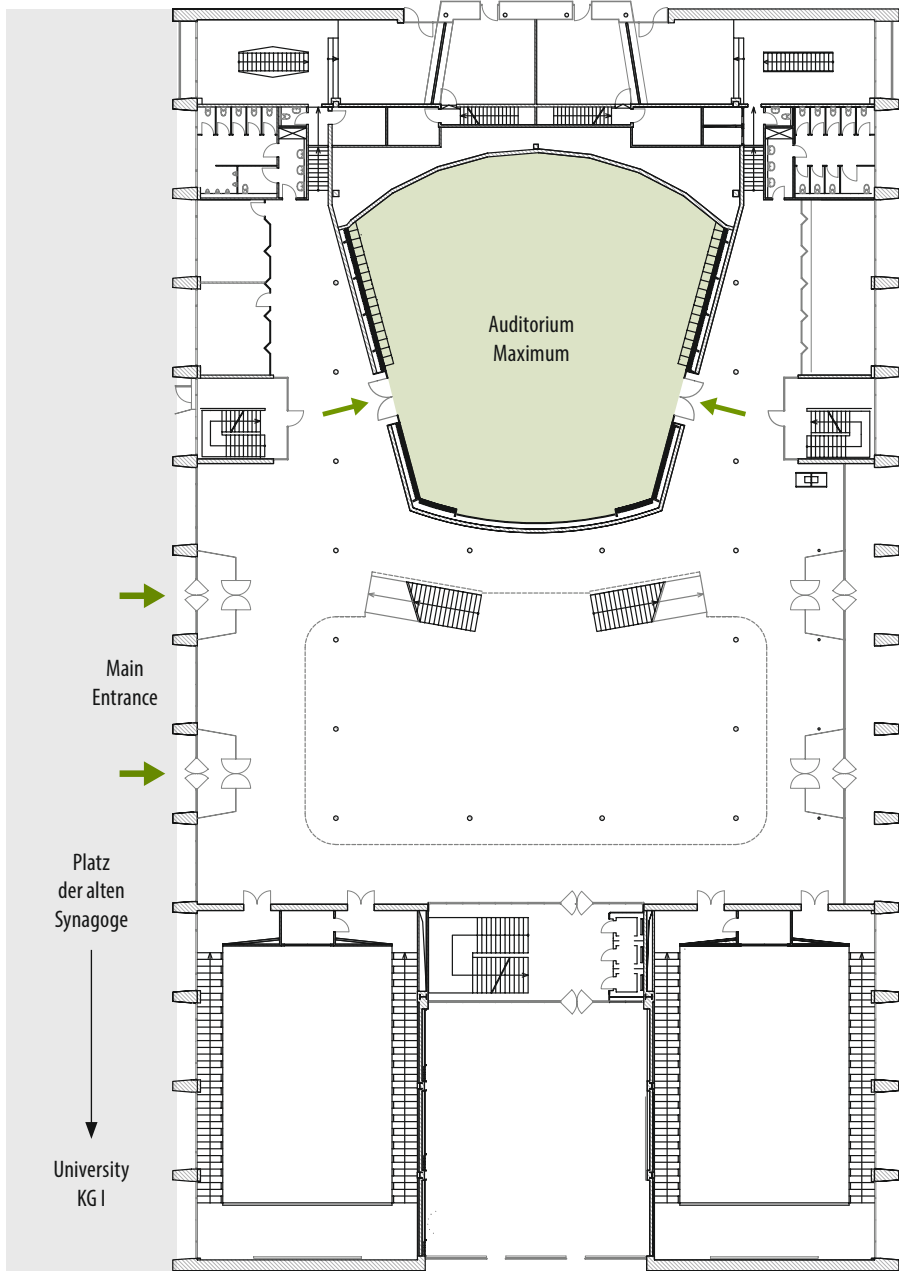
University KG I
First Floor



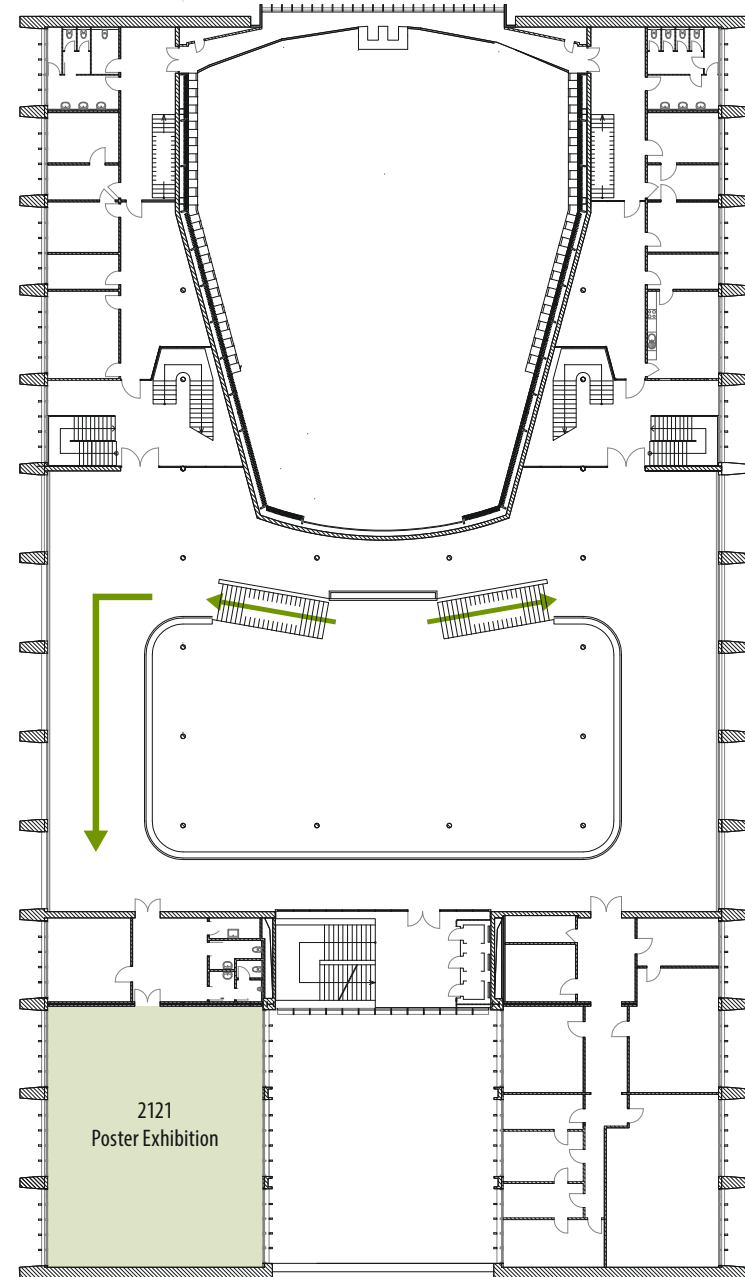
University KG I
Second Floor



University KG II
Ground Floor



University KG II
First Floor



INFORMATION

Imprint

Local Organization

Forstliche Versuchs- und Forschungsanstalt
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Wonnhaldestraße 4
79100 Freiburg
www.fva-bw.de



Congress Organization and Registration

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29 September
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welcoming you in Curitiba

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