

International Union of Forest Research Organizations

IUFRO Meeting Report Form

Organizers of IUFRO meetings and IUFRO focal persons at IUFRO co-sponsored meetings, respectively, are kindly requested to fill in and return this form within two weeks after the meeting or by a given deadline by email (wolfrum@iufro.org). This information will be posted at the relevant IUFRO web pages and may be used for IUFRO News and the IUFRO Annual Report.

(Note: Save this file under a new name and write directly into the form.)

1) IUFRO focal person/meeting organizer:

Name: Changhua Fang

Function in IUFRO: Coordinator of Working Party 5.11.05

Email: cfang@icbr.ac.cn

2) Meeting data:

Full title of the meeting: The Second International Young Scientist Forum - Bamboo Resources in a Changing Climate

Date and venue: 12-13 December 2024 at Zhejiang A&F University, China

Meeting website: <https://afrc.forestry.ubc.ca/events-and-news/international-young-scientist-forum-climate-change-bamboo/>

Number of participants: over 100 speakers (online and onsite), 125 onsite participants, and over 20,000 online views

Countries represented: It will take a very long time to summarize all the countries. We do have the data for continents: Africa (129), Asia (124), Europe (8), North America (21), South America (24), and Australia/Oceania (6).

3) Organization of the meeting:

All IUFRO Units involved: 5.11.05 Bamboo and Rattan

Host organization(s) and sponsor(s):

- Organizers: Faculty of Forestry, University of British Columbia, Zhejiang A&F University, and International Bamboo and Rattan Organization (INBAR)
- Co-organizers: International Center for Bamboo and Rattan (ICBR), China-Canada Joint Laboratory for Bamboo & Rattan Science and Technology, Asia Pacific Forestry Education Coordination Mechanism (AP-FECM), Sichuan Agricultural University, Jiangxi Academy of Forestry, Southwest Forestry University, Nanjing Forestry University, and IUFRO Division 5.11.05 – Bamboo and Rattan
- Supporting Organization: Journal: *Advances in Bamboo Science*

Study tour(s) to: N/A

4) Meeting report (max. 100 words per paragraph)

a) Background information (meeting context)

The Second International Young Scientist Forum - Bamboo Resources in a Changing Climate was held on December 12-13, 2024, in Hangzhou, China. Organized by The University of British Columbia (UBC), Zhejiang A&F University, and the International Bamboo and Rattan Organization (INBAR), this forum aimed to highlight bamboo's role as a nature-based solution to climate change and foster collaboration among young scientists. With participation from graduate students, postdoctoral fellows, and early-career researchers, the forum covered a range of topics, including bamboo carbon sequestration, sustainable management, biodiversity conservation, and emerging bamboo-related technologies and businesses.

b) Key issues discussed/latest findings in the field (bullet points or text)

- **Bamboo and Climate Change Mitigation**
 - Studies reaffirm bamboo's rapid carbon sequestration capacity, with research on bamboo-based carbon credits and carbon storage strategies.
 - The role of bamboo agroforestry in degraded land restoration was explored.
- **Carbon Management and Livelihoods**
 - Several presentations highlighted bamboo's socio-economic benefits, particularly for rural livelihoods and carbon finance mechanisms.
 - Case studies demonstrated how bamboo cooperatives and sustainable management practices enhance both economic and ecological resilience.
- **Emerging Technologies and Business Opportunities**
 - Innovations in bamboo-based materials, biochar, and sustainable construction were presented.
 - Research on bamboo's role as a plastic alternative aligned with global sustainability goals.
- **Biodiversity and Sustainable Forest Management**
 - The forum discussed how monoculture practices impact biodiversity, calling for improved bamboo genetic diversity and ecosystem management strategies.
 - Studies on bamboo physiology, soil interactions, and climate adaptation mechanisms provided insights into sustainable growth.

c) Conclusions (if possible, summarize key conclusions across presentations):

The forum emphasized that bamboo is a vital nature-based solution for climate change, with high carbon storage potential, diverse economic applications, and strong socio-environmental benefits. Collaborative efforts between scientists, policymakers, and industry stakeholders are essential to scale up bamboo solutions worldwide.

d) Outlook to future activities (proceedings, future meetings, other):

The 3rd International Young Scientist Forum on Climate Change and Bamboo will be held around end of 2025.

4) Photos

Caption: The onsite sessions at the venue.

Credit (not protected by copyright): Zhejiang A&F University

Thank you very much for your kind cooperation!



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5) Other information:

- a) Communication activities (dissemination of information about the meeting; promotion of IUFRO)*
- b) Related publications /websites*

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