2023 IUFRO International Symposium on Pine Wilt Disease

Conference Guide

Guiding Organizations: International Union of Forest Research Organizations; Chinese Society of Forestry; International Society of Zoological Sciences

Hosts: Nanjing Forestry University; Chinese Academy of Forestry; Institute of Zoology, Chinese Academy of Sciences; Hebei University

Organizations: College of Forestry and Grassland, Nanjing Forestry University; Ecology and Nature Conservation Institute, Chinese Academy of Forestry; Institute of Zoology, Chinese Academy of Sciences; Forest Pathology Branch of Chinese Society of Forestry

Co-Organizations: Co-Innovation Center for Sustainable Forestry in Southern China; Jiangsu Society of Plant Pathology; Journal of Nanjing Forestry University (Natural Sciences Edition)

Field Trip Hosting Organizations: Nanjing Forestry University; Nanjing Forestry Work Station; Luhe District Forestry Bureau

October 25-28, 2023

Nanjing • China

PWD2023

Contents

Conference Meeting Notes

1. Upon check-in, kindly review the conference guide. Pay special attention to any pending matters, updates, or the temporary arrangements as communicated by the meeting organizers.

2. Safeguard your personal belongs and sensitive data during the meeting. Please take good care of your personal data and valuables during the meeting.

3. Please adhere to the schedule for the meeting. To maintain a conducive environment, refrain from smoking in the venue. Ensure your mobile phone is on silent mode or powered off during the meetings.

4. Prior to October 25, 2023, please submit your presentation slides (PPT) to Wei-liang Kong's (孔维亮) E-mail (k3170100077@njfu.edu.cn) in the format "Name + Title." Additionally, arrive at the meeting venue 20 minutes before the scheduled time for any necessary adjustments.

5. An electronic invoice will be sent to your email within 7 working days after the on-site registration. If a paper invoice is required, please indicate as well.

6. In the event of any changes to your itinerary during the meeting, promptly notify the event staff so that the meeting group can make the necessary arrangements.

Contact Information for Meeting Group Members:

-Check-in/Accommodation：Tong-pu Li (李同浦) at tpli@njfu.edu.cn, (+86)15850563636

-Catering/Meeting Venue：Ting-ting Dai (戴婷婷) at 13770647123@163.com, (+86)13770647123

-Invoice Inquiries：Si-xi Lin (林司曦) at lsx@njfu.edu.cn, (+86)13851875410

Conference Meeting Overview

Meeting Date: October 25-28, 2023
Meeting Location:
International Conference Hotel of Nanjing (Zijin Building 1st floor) (http://hotel51481.round-world-trip.com)
Address：Near Guohui Avenue (No. 2 Sifang Cheng), Xuanwu District, Nanjing, Jiangsu, China

Meeting Schedule:
October 25:
-All-day: Attendees' Registration for the Meeting
- Location: International Conference Hotel of Nanjing (Zijin Building 1st floor)
- Hotel Link: http://hotel51481.round-world-trip.com

October 26:
-08:30-12:20 Opening Speech, Group photo, and Keynote Speech Session (Peace Hall)
-13:30-15:30 Keynote Speech Session (Peace Hall)
-15:50-17:30 Plenary Session (Peace Hall)
-19:00-21:30 Academic Salon of Young Scholar (Friendship Hall)
-Location: International Conference Hotel of Nanjing (Zijin Building 2nd floor)

October 27:
-08:30-12:20 Plenary Session (Peace Hall)
-13:40-17:15 Plenary Session (Peace Hall)
-17:15-17:40 Closing Ceremony (Peace Hall)
-Location: International Conference Hotel of Nanjing (Zijin Building 2nd floor)

October 28:
-9:00-12:00 Field trip to forests with pine wilt disease
-Location: Nanjing Pingshan Forest Park
-Specific arrangements: Pine wilt disease diagnosis in the field; Tree trunk injection, Infected wood crushing, etc.
-12:00 Departure

Meeting Meal Arrangement
October 25-27:
-07:00-09:00 Breakfast
-12:00-14:00 Lunch
-17:30-20:30 Dinner
-Buffet style with conference vouchers
-Location： International Conference Hotel of Nanjing (Zijin Building 1st floor)

Organizational Structure

Organizing Committee:

-**Chairman**: Qiang Yong (勇强)

-**Deputy Chairmen**:

Jian-wu Chen (陈建武) Shidong Li (李世东) Wen-fa Xiao (肖文发)
Xiang-wei Zeng (曾祥谓) Guo-fei Fang (方国飞) Xiang-jiang Zhan (詹祥江)
Zhi-zhong Gong (巩志忠) Tong-ming Yin (尹佟明)

-**Committee Members** (Sorted by Last Name):

Qiang Cheng (程强) Ting-ting Dai (戴婷婷) Lin Huang (黄麟)
Jang Jiang (姜姜) Qing Li (李庆) Yong-xia Li (理永霞)
Hao Ren (任浩) Hui Sun (孙辉) Gui-bin Wang (汪贵斌)
Jin-li Wang (王金利) Wen-hua Xiong (熊文华) Jiameng Yang (杨加猛)
Wei-yin Zhang (张炜银) Zhi-bin Zhang (张知彬) Li-lin Zhao (赵莉蔺)
Li-hua Zhu (朱丽华)

Academic Committee:

-**Chairman**: Jiang-hua Sun (孙江华) Luís Filipe Prazeres Bonifácio

-**Deputy Chairmen**:

Jian-ren Ye (叶建仁) Xing-yao Zhang (张星耀) You-qing Luo (骆有庆)

-**Committee Members** (Sorted by Last Name):

Chuan-wang Cao (曹传旺) Feng-mao Chen (陈凤毛) Guo-fei Fang (方国飞)
Jian-ting Fan (樊建庭) Jian-feng Gu (顾建锋) Hyerim Han
De-jun Hao (郝德君) Hong He (贺虹) Jia-fu Hu (胡加付)
Lin Huang (黄麟) Nakamura-Matori Katsunori Hui-ping Li (李会平)
Yong-xia Li (理永霞) Jun Liang (梁军) Hui-xiang Liu (刘会香)
Zhen-yu Liu (刘振宇) Quan L ü (吕全) Christelle Robinet
Juan Shi (石娟) Yu-shuang Song (宋玉双) Ming Tang (唐明)
Cheng-ming Tian (田呈明) Feng Wang (王峰) Xiao-yi Wang (王小艺)
Yang-dong Wang (汪阳东) Xiao-qin Wu (吴小芹) Bin Yang (杨斌)
Fei-ping Zhang (张飞萍) Li-qin Zhang (张立钦) Li-lin Zhao (赵莉蔺)
Guo-ying Zhou (周国英) Xu-dong Zhou (周旭东) Shi-xiang Zong (宗世祥)

Secretary Group:

General Secretary: Lin Huang (黄麟)
Vice Secretary General: Yong-xia Li (理永霞) Li-lin Zhao (赵莉蔺)

Conference Meeting Schedule

25 October, Wednesday 8:30-24:00	**Registration**	
26 October, Thursday	**Opening Speech**	Chair
8:30-9:30	Qiang Yong (勇强), Nanjing Forestry University, China	**Tong-ming Yin (尹佟明)**, Nanjing Forestry University, China
	Wen-fa Xiao (肖文发), Chinese Academy of Forestry, China	
	Xiao-qiao Wu (吴小巧), Jiangsu Forestry Bureau, China	
	Xiang-wei Zeng (曾祥谓), Chinese Society of Forestry, China	
	Luís Filipe P. Bonifácio, International Union of Forest Research Organizations (IUFRO), Portugal	
	Sathyapala Shiroma, Food and Agriculture Organization of the United Nations (FAO), Italy	
	Shi-dong Li (李世东), Science and Technology Division, National Forestry and Grassland Administration, China	
	Jian-wu Chen (陈建武), Ecological Protection and Restoration Division, National Forestry and Grassland Administration, China	
9:30-9:50	**Group Photo & Coffee Break**	
	Keynote Speech Session (talk 25 min, discussion 5 min)	Chair
9:50-10:20	**1. The Pine Wilt Disease in Europe (Portugal and Spain): Special emphasis on the control measures development and future research prospects** **Luís Filipe P. Bonifácio**, Instituto Nacional de Investigação Agrária e Veterinária (INIAV), Portugal	**Jiang-hua Sun (孙江华)**, Hebei University /Institute of Zoology, Chinese Academy of Sciences, China
10:20-10:50	**2. Prevalence and control of pine wilt disease in China** **Jian-ren Ye (叶建仁)**, Nanjing Forestry University, China	
10:50-11:20	**3. Integrated management and research advances of PWD in South Korea** **Hyerim Han**, National Institute of Forest Science, Korea	
11:20-11:50	**4. PWD and phytosanitary measures** **Sathyapala Shiroma**, Food and Agriculture Organization of the United Nations (FAO), Italy	**Hui Sun (孙辉)**, Nanjing Forestry University, China
11:50-12:20	**5. Control strategies and techniques for pine wilt disease in China** **Xing-yao Zhang (张星耀)**, Ecology and Nature Conservation Institute, Chinese Academy of Forestry, China	
12:20-13:30	**Lunch Break**	Chair
13:30-14:00	**6. Research progress and future agenda of breeding for forest disease and pest** **Yang-dong Wang (汪阳东)**, Chinese Academy of Forestry, China	**Luís Filipe P. Bonifácio**, Instituto Nacional de Investigação Agrária e Veterinária (INIAV), Portugal
14:00-14:30	**7. Predicting potential spread of the pine wilt disease: Which progresses and which future directions?** **Christelle Robinet**, National Research Institute for Agriculture, Alimentation and Environment (INRAE), France	
14:30-15:00	**8. The occurrence and integrated management of pine wilt disease in China** **Guofei Fang(方国飞)**, Center for Biological Disaster Prevention and Control, National Forestry and Grassland Administration, China	**Sathyapala Shiroma**, Food and Agriculture Organization of the United Nations (FAO), Italy
15:00-15:30	**9. Shifting control operations against pine wilt disease according to the damage situation: after 100 years of pine wilt infestation in Japan** **Nakamura-Matori Katsunori**, Tohoku Research Center, Forestry and Forest Products Research Institute, Japan	

15:30-15:50	**Coffee Break**	
	Plenary Session (talk 15 min，discussion 5 min)	Chair
15:50-16:10	**10. New technology and model for prevention and control of pine wilt disease in China** **Feng-mao Chen (陈凤毛)**, Nanjing Forestry University, China	**Xiao-yi Wang (王小艺)**, Ecology and Nature Conservation Institute, Chinese Academy of Forestry, China
16:10-16:30	**11. Interspecific communication between pinewood nematode, its insect vector and associated microbes** **Li-lin Zhao (赵莉蔺)**, Institute of Zoology, Chinese Academy of Sciences, China	
16:30-16:50	**12. Trunk injection for pine wilt disease control and its biosafety assessment in China** **Xu-dong Zhou (周旭东)**, Zhejiang Agricultural and Forestry University, China	
16:50-17:10	**13. Nematicidal activity of Polysubstituted Cyclic 1,2-Diketones against *Bursaphelenchus xylophilus*** **Lin Huang (黄麟)**, Nanjing Forestry University, China	**Ling Ma (马玲)**, Northeast Forestry University, China
17:10-17:30	**14. The pathogenic and adaptation mechanisms of pine wilt disease** **Yong-xia Li (理永霞)**, Ecology and Nature Conservation Institute, Chinese Academy of Forestry, China	
13:30-18:00	**Poster Session**	
	Academic Salon of Young Scholar (talk 8 min，discussion 2 min)	Chair
19:00-19:10	**15. Reassessing the threat posed by pine wood nematode (*Bursaphelenchus xylophilus*) to UK forestry: Exploring alternative vectors and novel detection tools** **Talor Whitham**, University of Reading / Forest Research - Forestry Commission, UK	**Hui-xiang Liu (刘会香)**, Shandong Agricultural University, China
19:10-19:20	**16. Clear-cutting can be avoided when managing pine wood nematode. A scenario analysis** **Hongyu Sun,** Wageningen University, Netherlands	
19:20-19:30	**17. Unravelling epigenetic factors in sex determination of *Bursaphelenchus xylophilus*: transcriptome analysis of temperature-sensitive embryo stages** **Wen-yi Liu (刘文义)**，Zhejiang Agricultural and Forestry University, China	
19:30-19:40	**18. Green pesticide screening and prevention determination of pine wood nematodes** **Jia-cheng Zhu（朱嘉成)**，Central South University of Forestry and Technology, China	
19:50-20:00	**19. Establishment of molecular-targeted nematocide discovering platform for the control of *Bursaphelenchus xylophilus*** **Jing Chen (陈静)**，Zhejiang Agricultural and Forestry University, China	**Chun-xia Xie (解春霞)**, Jiangsu Academy of Forestry, China
20:00-20:10	**20. Pine wilt disease in northeast and northwest China: A comprehensive risk review** **Qin-wang Xu (徐钦望)**, Beijing Forestry University, China	
20:10-20:20	**21. Effects of pine wilt disease on rhizosphere microbiota and fine root fungi** **Zi-wen Jiao (焦子文)**，Nanjing Forestry University, China	
20:20-20:30	**22. Potentially suitable areas for *Monochamus alternatus* under current and future climatic scenarios** **Lei Liu (刘磊)**，Shanxi Agricultural University, China	
20:30-20:40	**23. Scenario-based design of "Digital Forest Protection" and application for monitoring & tracking on pine wilt disease in Zhejiang province, China** **Yan-jun Zhang (章彦君)**，Zhejiang Agricultural and Forestry University, China	**Ting-ting Dai (戴婷婷)**, Nanjing Forestry University, China

20:40-20:50	**24. Study on the vector insects of pine wilt disease in Qinling-Daba mountains** **Jing-yu Qi (祁靖宇)**，Northwest Agriculture and Forestry University, China	
20:50-21:00	**25. Rapid detection of the pine wood nematode *Bursaphelenchus xylophilus* based on RPA-CRISPR/Cas12a** **Yu-fang Guo (郭玉芳)**，Nanjing Forestry University, China	
21:00-21:10	**26. *Enterobacter ludwigii* AA4 exhibiting a powerful pine wood nematode - killing effect** **Yu Zhao (赵宇)**，Northeast Forestry University, China	**Hong He (贺虹)**, Northwest A & F University, China
21:10-21:20	**27. Risk analysis of pine wilt disease invasion in Shanxi province** **Shi-ming Fan (范世明)**，Shanxi Agricultural University, China	
21:20-21:30	**28. Early diagnosis of pine infected with pine wilt disease** **Lu-yang Shen (沈璐阳)**，Nanjing Forestry University, China	
27 October, Friday	**Plenary Session (talk 15 min，discussion 5 min)**	Chair
8:30-8:50	**29. Study on the spatiotemporal distribution pattern and insect vector tracing of PWD in epidemic areas of China** **Juan Shi (石娟)**, Beijing Forestry University, China	**Hyerim Han**, National Institute of Forest Science, Korea
8:50-9:10	**30. Study of the possibility of transmission of the pine wood nematode *Bursaphelenchus xylophilus* (Steiner & Buhrer) Nickle to deciduous trees by the white mottled sawyer of *Monochamus urussovi* Fisch** **Oleg Kulinich**, All-Russian Center of Plant Quarantine, Russia	
9:10-9:30	**31. Functional of terpenoids involved in defense to pine wood nematode in *Pinus massoniana*** **Qing-hua Liu (刘青华)**，Research Institute of Subtropical Forestry，Chinese Academy of Forestry, China	
9:30-9:50	**32. Chromosome-level genome assembly of *Monochamus saltuarius* and its interaction mechanism with PWN** **Li-li Ren (任利利)**, Beijing Forestry University, China	
9:50-10:00	**Coffee Break**	
10:00-10:20	**33. Molecular defense response of *Bursaphelenchus xylophilus* to the nematophagous fungus *Arthrobotrys robusta*** **Xin Hao (郝昕)**, Southwest Forestry University, China	**Hui-ping Li (李会平)**, Hebei Agricultural University, China
10:20-10:40	**34. Epidemiological model including spatial connection features improves prediction of the spread of pine wilt disease** **Hong-wei Zhou (周宏威)**, Northeast Forestry University, China	
10:40-11:00	**35. A coleopteran parasitoid on pine sawyer beetle** **Xiao-juan Li (李晓娟)**，Anhui Academy of Forestry, China	
11:00-11:20	**36. Prevention and control of pine wilt disease in Nanjing: A review and reflection of forty years** **Wei Dai (戴伟)**, Nanjing Forestry Work Station, China	**Guo-ying Zhou (周国英)**, Central South University of Forestry & Technology, China
11:20-11:40	**37. Study on the chemical ecology of two species of *Monochamus* in China** **Jian-ting Fan (樊建庭)**, Zhejiang Agricultural and Forestry University, China	
11:40-12:00	**38. Unveiling microbial community shifts triggered by pine wilt disease in *Pinus thunbergii* forests** **Hui Sun (孙辉)**, Nanjing Forestry University, China	
12:00-12:20	**39. Risk and techniques for interception of pine wood nematode in Chinese customs** **Jian-feng Gu (顾建锋)**, Technical centre of Ningbo Customs, China	
12:20-13:40	**Lunch Break**	Chair
13:40-14:00	**40. Evaluation the occurrence and potential spatial distribution of pine**	**Christelle**

	wilt disease mediated by insect vectors in China under current and future climate change **Rui-he Gao (高瑞贺)**, Shanxi Agricultural University, China	**Robinet**, National Research Institute for Agriculture, Alimentation and Environment (INRAE) France
14:00-14:20	**41. The novel nematocidal compound fluopyram has potential for effective control of pine wilt disease** **Ya-jie Guo (郭雅洁)**, Fujian Agriculture and Forestry University, China	
14:20-14:40	**42. A novel oviposition strategy alleviates the detrimental effects of extreme high temperatures on the reproduction of *Monochamus alternatus*** **Hui Li (李慧),** Nanjing Forestry University, China	
14:40-15:00	**43. Breeding for resistance to pine wilt disease in the pine breeding programme in Guangdong** **Wen-bing Guo (郭文冰),** Guangdong Academy of Forestry, China	**Jia-jin Tan (谈家金)**, Nanjing Forestry University, China
15:00-15:20	**44. A rapid DNA extraction method and an automated CRISPR-LAMP detection platform for *Bursaphelenchus xylophilus* in infected trees** **Xi-zhuo Wang (王曦茁)**, Ecology and Nature Conservation Institute, Chinese Academy of Forestry, China	
15:20-15:35	**Coffee Break**	
15:35-15:55	**45. Interaction between *Bursaphelenchus xylophilus* and *Larix* spp** **Feng Wang (王峰)**, Northeast Forestry University, China	**Shi-xiang Zong (宗世祥)**, Beijing Forestry University, China,
15:55-16:15	**46. Establishment of epidemic tracking system of *Bursaphelenchus xylophilus*** **Xiao-lei Ding (丁晓磊)**, Nanjing Forestry University, China	
16:15-16:35	**47. Sustainable DMSNs nano-biopesticide platform built by "one-pot" method focus on injury-free drug demonstration of *Bursaphelenchus xylophilus*** **Yan-xue Liu (刘彦雪)**, Shandong Agricultural University, China	
16:35-16:55	**48. Remote sensing monitoring of pine wilt disease in China** **Lin-feng Yu (俞琳锋)**, Beijing Forestry University, China	**Jia-fu Hu (胡加付)**, Zhejiang A & F University, China
16:55-17:15	**49. The functional analysis of suppressive effectors in *Bursaphelenchus xylophilus*** **Tong-yue Wen (温彤玥)**, Nanjing Forestry University, China	
	Closing Ceremony	
17:15-17:40	**Award session for volunteers and young scholars**	**Jiang-hua Sun (孙江华)** Hebei University /Institute of Zoology, Chinese Academy of Sciences, China
	Conference summary	
	IUFRO official speech	
28 October, Saturday 9:00-12:00	**Field trip to forests with pine wilt disease**	**Li-hua Zhu (朱丽华)**, Nanjing Forestry University, China
12:00-14:00	**Lunch Break**	
14:00-	**Departure**	

Poster Session

P1. What do maritime pines (*Pinus pinaster*) smell like? Luís Filipe P. Bonifácio, International Union of Forest Research Organizations (IUFRO), Portugal.

P2. Molecular identification of interspecific hybrids between the quarantine nematode *Bursaphelenchus xylophilus* and native, *B. mucronatus*. Anna filipiak, Institute of Plant Protection–National Research Institute, Poland.

P3. Insecticidal activity of SOz01, a strain of the entomopathogenic nematode *Heterorhabditis megidis*, against *Monochamus alternatus* larvae. Sota Ozawa, Katsunori Nakamura Forestry and Forest Products Research Institute, Japan.

P4. Clear-cutting can be avoided when managing pine wood nematode. A scenario analysis. Hongyu Sun, Wageningen University, Netherlands.

P5. Host reaction to pinewood nematode infection and embolism occurrence in pine seedlings under the full-dark condition. Wen-qian Huang, Univ Tokyo, Japan.

P6. Mass rearing of *Dastarcus helophoroides* (Coleoptera: Bothrideridae): an important natural enemy of *Monochamus alternatus* (Coleoptera: Cerambycidae). Meng-jiao Han（韩孟娇）, Chinese Academy of Forestry, China.

P7. Biological characteristics of *Cyanopterus ninghais* (Hymenoptera: Braconidae)，a newly discovered larval parasitoid of *Monochamus alternatus* (Coleoptera: Cerambycidae). Shao-bo Wang（王少博）, Chinese Academy of Forestry, China.

P8. Cradle for the newborn *Monochamus saltuarius*: Microbial associates to ward off entomopathogens and disarm plant defense. Si-Xun Ge（葛思勋）, Beijing Forestry University, China.

P9. Pine wilt disease in northeast and northwest China: A comprehensive risk review. Qin-wang Xu（徐钦望）, Beijing Forestry University, China.

P10. In vitro propagation and field evaluation of *Pinus densiflora* resistant to pine wilt disease. Li-hua Zhu（朱丽华）, Nanjing Forestry University, China.

P11. Optimization of somatic embryogenesis conditions and nematode-resistance evaluation of regenerated plantlets of *Pinus massoniana*. Qian Yang（杨倩）, Nanjing Forestry University, China.

P12. Discovery and characterisation of two novel virus from *Bursaphelenchus xylophilus*. Ying Lin（林颖）, Nanjing Forestry University, China.

P13. Transcriptome analysis of defence related pathways of *Pinus massoniana* response to *Bursaphelenchus xylophilus* infection under aseptic conditions. Jing-hui Zhu（朱景辉）, Nanjing Forestry University, China.

P14. Exploring the role of detoxification genes in the resistance of *Bursaphelenchus xylophilus* to different exogenous nematicidal substances using transcriptomic analyses. Jing-xin Cao（曹景鑫）, Northeast Forestry University, China.

P15. Epidemiological model including spatial connection features improves prediction of the spread of pine wilt disease. Hong-wei Zhou（周宏威）, Northeast Forestry University, China.

P16. *Enterobacter ludwigii* AA4 exhibiting a powerful pine wood nematode–killing effect. Yu Zhao（赵宇）, Northeast Forestry University, China.

P17. Transcriptomics and co-expression network profiling of effects of Levamisole Hydrochloride (LH) on *Bursaphelenchus xylophilus*. Jie Chen（陈洁）, Southwest Forestry University, China.

P18. Synergistic effect of the entomopathogenic fungus *Beauveria bassiana* and Avermectins on the larvae of pine sawyer beetle *Monochamus alternatus*. Jun-dan Deng（邓竣丹）, Anhui Agricultural University, China.

P19. Chitosan oligosaccharide induces plant resistance gene expression in *Pinus massoniana*. Hua-yang Yin（尹华阳）, Anhui Academy of Forestry, China.

P20. Identification of discolored pine trees affected by pine wilt disease based on ResNet model. Wan-lin Guo（郭婉琳）, Anhui Academy of Forestry, China.

P21. Study on the genetic differentiation of *Bursaphelenchus xylophilus* in East China based on SNP markers. Qing-tong Wang（汪青桐）, Anhui Academy of Forestry, China.

P22. Study on resistance breeding of pine wilt disease. Xue-lian Chen（陈雪莲）, Anhui Academy of Forestry, China.

P23. Predicting potential distributions of *Monochamus saltuarius*, a novel insect vector of pine wilt disease in China. Shi-ming Fan（范世明）, Shanxi Agricultural University, China.

P24. Potentially suitable areas for *Monochamus alternatus* under current and future climatic scenarios. Lei Liu（刘磊）, Shanxi Agricultural University, China.

P25. New derivatives of tenvermectins against pine wood nematode, *Bursaphelenchus xylophilus* as potential nematicide. Shao-yong Zhang（张绍勇）, Huzhou University, China.

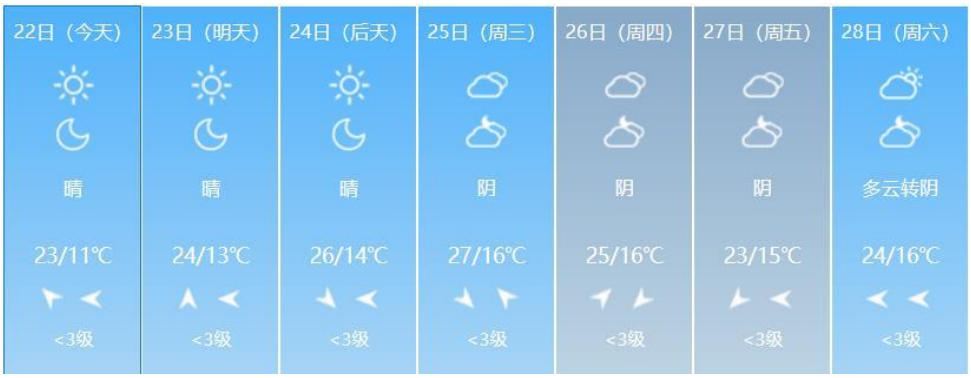
P26. Reassessing the threat posed by pinewood nematode (*Bursaphelenchus xylophilus*) to UK forestry: exploring alternative vectors and novel detection tools. Talor Whitham, University of Reading, UK.

P27. Pine wood nematode resistance performance and resistant gene expression in pine species widely used in Guangdong. Xiao-liang Che（车晓亮）, Guangdong Academy of Forestry, China.

P28. Intelligent control technology and system for pine wilt disease. Mei-xiang Chen（陈梅香）, Research Center of Intelligent Equipment, BAAFS, China.

P29. Rapid and accurate identification of pine wilt disease with a portable nucleic acid detection system. Zhen-xin Hu（胡振新）, GeneVide Biotechnology (Suzhou) Co, Ltd., China.

Nanjing Urban Area Weather Forecast



October 25, Wednesday:

- Conditions: Cloudy
- Temperature: 27℃/16℃
- Wind: Southeast winds, becoming Northwest winds at less than 3 km/h

October 26, Thursday:

- Conditions: Cloudy
- Temperature: 25℃/16℃
- Wind: Northeast winds, becoming Southwest winds at less than 3 km/h

October 27, Friday:

- Conditions: Cloudy
- Temperature: 23℃/15℃
- Wind: Southwest winds, becoming West winds at less than 3 km/h

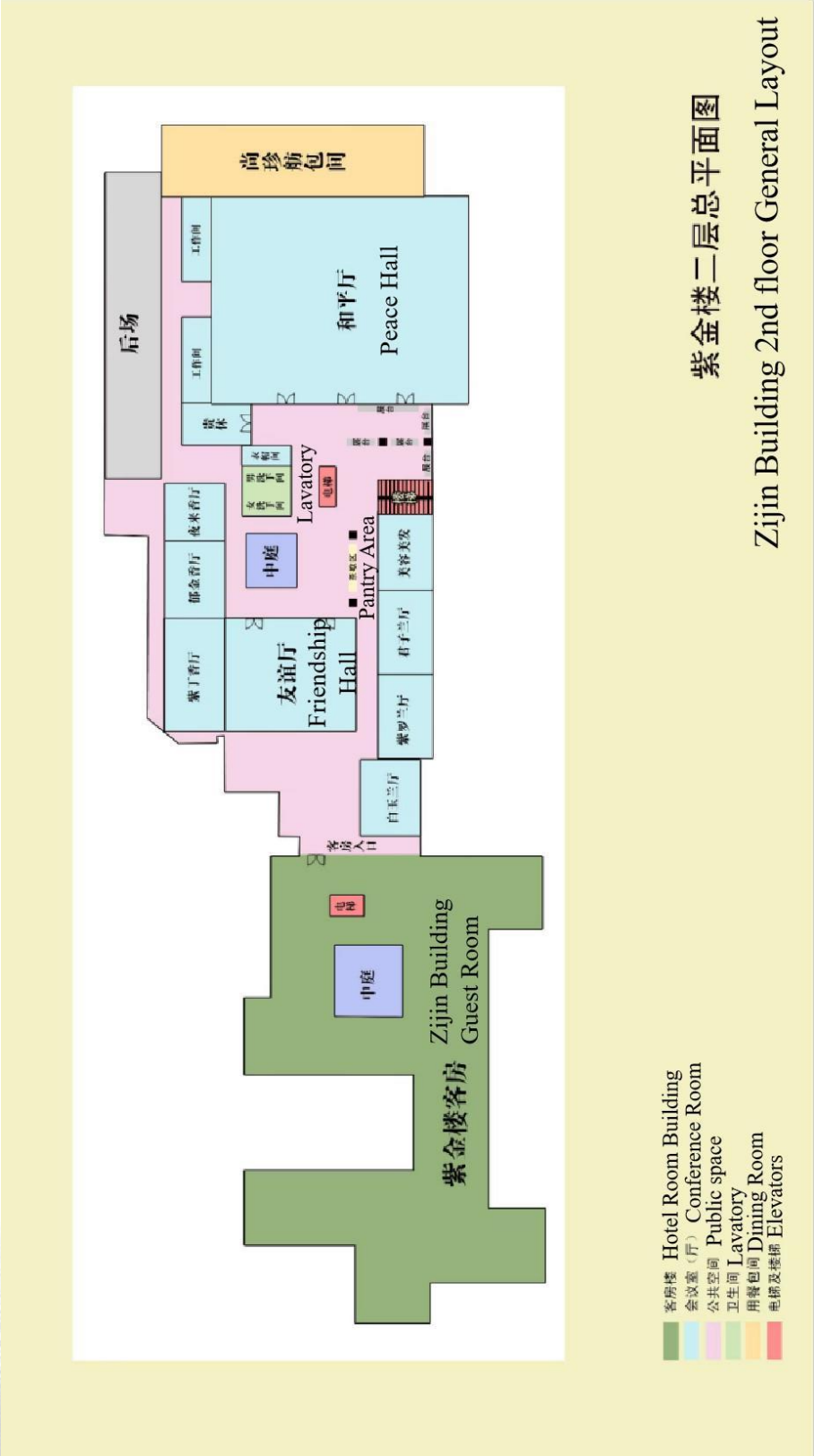
October 28, Saturday:

- Conditions: Overcast, becoming partly cloudy
- Temperature: 24℃/16℃
- Wind: West winds at less than 3 km/h

Please note that weather conditions can change, so it's advisable to stay updated with the latest weather information as the event dates approach.

Source: China Weather Network (www.weather.com.cn)

Meeting Venue Schematic



Traffic Information

1. Nanjing Lukou International Airport is located approximately 44.7 kilometers away from the hotel.

- Airport Bus: Takes around 40 minutes to reach downtown (Ruijin Road). From there, you can transfer to a taxi for an approximate cost of 12 CNY.

- Taxi: It takes about 50 minutes to reach the hotel, with an estimated fare of 180 CNY.

- Subway: You can take the S1 train to Nanjing South Station, transfer to Metro Line 3 to reach Daxinggong, then switch to Metro Line 2, ultimately getting off at Muxuyuan. From Muxuyuan, you can transfer to a taxi to the hotel.

2. The Railway Station (Nanjing Station) is about 9.1 kilometers away from the hotel.

- Taxi: It takes about 35 minutes to reach the hotel, with an estimated fare of 35 CNY.

- Subway: You can take Metro Line 1 to Xinjiekou, then transfer to Metro Line 2 to reach Muxuyuan, then you have the option of walking for 20 minutes to the hotel or taking a taxi.

3. The Railway Station (Nanjingnan Railway Station) is roughly 13.7 kilometers away from the hotel.

- Taxi: It takes about 35 minutes to reach the hotel, with an estimated fare of 35 CNY.

- Subway: You can take Metro Line 3 to Daxinggong, then transfer to Metro Line 2 to reach Muxuyuan, then you have the option of walking for 20 minutes to your hotel or taking a taxi.

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The Conference Guide, Abstarcts and Posters Can be Downloaded in the Download Center of the Website (https://www.bagevent.com/event/8443317)

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