



THE UNIVERSITY  
OF BRITISH COLUMBIA  
Faculty of Forestry



浙江农林大学  
ZHEJIANG A&F UNIVERSITY



# The Second International Young Scientist Forum

## -Bamboo Resources in a Changing Climate

# Forum Manual

### Organizers

The University of British Columbia  
Zhejiang A&F University  
International Bamboo and Rattan Organization

### Undertaking Organizers

Bamboo Industry Institute, Zhejiang A&F University  
School of Environmental and Resources Science, Zhejiang  
A&F University  
State Key Laboratory of Subtropical Silviculture  
Faculty of Forestry, University of British Columbia

### Co-organizers

International Center for Bamboo and Rattan  
China-Canada Joint Laboratory of Bamboo & Rattan Science and Technology  
Sichuan Agricultural University  
Jiangxi Academy of Forestry  
Asia Pacific Forestry Education Coordination Mechanism (AP-FECM)  
Nanjing Forestry University  
Southwest Forestry University  
International Union of Forest Research Organizations (IUFRO) Division 5.11.05 – Bamboo and  
Rattan

**Hangzhou, China**

**December 12-13, 2024**



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## About the Forum

The Second International Young Scientist Forum is committed to investigating bamboo-based solutions to address the urgent issue of global climate change, emphasizing the crucial role of young scientists. The ongoing climate crisis poses significant and irreversible impacts on natural ecosystems, human societies and economies, demanding urgent, immediate and ambitious efforts to reduce greenhouse gas emissions drastically and initiate a transition toward a sustainable and resilient future. Bamboo, a fast-growing woody grass, has shown immense potential as a nature-based solution to climate change. It outperforms many tree species growing in similar regions in terms of carbon sequestration and storage capacity. Bamboo forests, now covering over 35 million hectares globally, serve as an exceptional renewable resource, yielding a variety of durable and sustainable products, from flooring to furniture, that can substitute carbon-intensive materials, thereby reducing deforestation and pollution. In 2022, the International Bamboo and Rattan Organization (INBAR) launched the ‘Bamboo as a Substitute for Plastic Initiative’. This initiative aims to amplify the use of bamboo to mitigate plastic pollution and address climate change challenges. With the global bamboo industry estimated to reach USD 90 billion by 2030, the development of bamboo-based products holds significant economic potential. In addition, introducing improved forest management activities in bamboo forests can generate carbon offset credits, providing financial incentives for farmers to better manage their bamboo forests and thus contributing to climate change mitigation and rural poverty reduction.

The forum seeks to gather young scientists from around the world, including graduate students, postdoctoral fellows, and young professors, to delve into the potential of bamboo as a climate change solution. The forum will explore a range of topics, including bamboo livelihood and rural development strategies, climate change mitigation strategies, sustainable management practices, emerging bamboo-related technologies and businesses, and biodiversity conservation. The forum aims to inspire and empower young scientists to contribute to a more sustainable future by facilitating collaboration and knowledge exchange. The forum will encourage high-quality article submissions to an eponymous special issue of the *Journal of Advances in Bamboo Science*.



## CONFERENCE INSTRUCTIONS

1. Accommodation: Crowne Plaza Hangzhou Lin'an Transportation Hotel. The accommodation expenses shall be covered by yourself. We have set up a register desk at the hotel, you can fill out your departure information, join the WeChat group, and check your contact number. Crowne Plaza Hangzhou Lin'an Transportation Hotel is located at 356 Qianwang Street, Lin'an District, Hangzhou, Tel + 86-0571-61119999.
2. The conference materials, including brochure and guest cards, will be distributed to you at the registration desk on the first floor of the hotel lobby. Kindly go through the materials for conference agenda, specific arrangements, and precautions.
3. The conference will be held at the East Lake Campus of Zhejiang A&F University. The main conference room and Parallel room 1 is located in Room 101 of the Key Laboratory of Subtropical Forest Cultivation. Parallel room 2 is located in Room 401 of Key Laboratory of Subtropical Forest Cultivation; Parallel room 3 is located in Conference Room S217 of Bamboo Research Institute; Parallel room 4 is located in Conference Room S215 of Bamboo Research Institute.
4. Transportation arrangements: we will arrange fixed time buses to pick up participants from the main arriving airport/ train station to the hotel on December 11. Do include your travelling information in your emails so we can make arrangements. Participants can also go to Crowne Plaza by their own choices. During the conference, buses will be arranged to transport participants between the conference site and the hotel. On December 13, fixed time buses will be booked to send participants to their departure port.



5. Attendees shall wear their guest badges and attend activities according to the meeting arrangement. For other arrangements during the meeting, please contact the meeting affairs team. If you have special dining requirements, please inform the catering team in advance
6. Speakers for different sections at the conference shall send their presentation slides to the administrator of each parallel room in advance. Administrators' information is listed below:
  - (1) **Main and parallel room 1:** Room 101, Key Laboratory of Subtropical Forest Cultivation  
Administrator: Zou, Longhai + 86-18967140410; zoulonghai@zafu.edu.cn  
Zoom Meeting Leader: ENZO BATTAGLIA MBULA + 86-13256717532
  - (2) **Parallel room 2:** Room 401, Key Laboratory of Subtropical Forest Cultivation  
Administrator: Zhou, Yufeng + 86-13906815735; zyffafa@163.com  
Zoom Meeting Leader: Yu, Rong + 86-18258239512
  - (3) **Parallel room 3:** Bamboo Research Institute Conference Room S217  
Administrator: Huang, Jingda + 86-17858839882; hjd1015@163.com  
Zoom Meeting Leader: Lu, Weimiao + 86-15068169875
  - (4) **Parallel room 4:** Bamboo Research Institute Conference Room S215  
Administrator: Hou, Dan + 86-17858837002; 55505043@qq.com



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## ONLINE INSTRUCTIONS

### *Main Room & Room 1*

**Zoom Meeting ID:** 574 663 2020

**Passcode:** 632520

<https://ubc.zoom.us/j/5746632020?pwd=Vk5BS1E2bUxLczVVaDZlNQVRzakYyQT09>

### *Room 2*

**Zoom Meeting ID:** 991 962 0731

**Passcode:** 632520

<https://us06web.zoom.us/j/9919620731?pwd=NmJUM014N2IvSmtVYmQ5bWR1MkJGUT09>

### *Room 3*

**Zoom Meeting ID:** 635 1299 6567

**Passcode:** 13742

<https://ubc.zoom.us/j/63512996567?pwd=RVA3eDdVam0yd0Z1cS9GL0lhaEl0dz09>

### *Room 4 (On-site presentation)*

**Live streaming:** <https://www.koushare.com/space/329190/home>





### Contact Information

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## Forum Agenda

### Day 1: 12<sup>th</sup> December, 2024 (GMT+8, Beijing Time) Opening

Location: Room 101, State Key Laboratory of Subtropical Silviculture, ZAFU

<b>Date</b>		<b>12-Dec (Beijing)</b>	
<b>Main Room</b>		Everyone stays in this room	
Room 101, State Key Laboratory of Subtropical Silviculture, ZAFU			
<b>Opening Remarks</b>		<b>Moderator:</b> John Innes, UBC	
<b>Dec 12 (Beijing Time)</b>	<b>Dec 11 (Vancouver Time)</b>		
9:00-9:15	17:00-17:15	Zhejiang A&F University <b>(ZAFU)</b>	Opening Remark 1 – Leadership of ZAFU
		University of British Columbia <b>(UBC)</b>	Opening Remark 2 – Rob Kozak, Dean, Faculty of Forestry, UBC
		International Bamboo and Rattan Organization <b>(INBAR)</b>	Opening Remark 3 – Wenming Lu, Deputy Director General, INBAR
<b>Keynote Speech</b>		<b>Moderator:</b> John Innes, UBC	
9:15-9:45	17:15-17:45	<b>Keynote Speaker 1</b>	Cultivation of bamboo shoot production plantation: challenges and perspectives
		Renyi Gui	Professor, Bamboo Industry Institute, ZAFU
9:45-10:15	17:45-18:15	<b>Keynote Speaker 2</b>	Global Development of Bamboo Industry
		Jayaraman Durai	Director of Global Programme, INBAR
10:15-10:20	18:15-18:20	<b>Group Photo</b>	<b>Room 101</b>
10:20-10:40	18:20-18:40	<b>Switching rooms</b>	

## Room 1: 12<sup>th</sup> December, 2024 (Beijing Time)

Location: Room 101, State Key Laboratory of Subtropical Silviculture, ZAFU

Date		12-Dec (Beijing)	
Parallel Room 1		<b>Bamboo Ecology and Physiology</b>	
<b>Dec 12 (Beijing Time)</b>	<b>Dec 11 (Vancouver Time)</b>		<b>Moderator:</b> John Innes, UBC
10:40-11:00	18:40-19:00	<b>Speaker 1</b>	Growth reduction and alteration of nonstructural carbohydrate (NSC) allocation in a sympodial bamboo ( <i>Indocalamus decorus</i> ) under atmospheric O <sub>3</sub> enrichment
		Li Li	Associate Professor, Nanjing Forestry University
11:00-11:20	19:00-19:20	<b>Speaker 2</b>	Psychophysiological Effects of Bamboo Plants on Adults
		Ahmad Hassan	Postdoc Researcher, Tongji University
11:20-11:40	19:20-19:40	<b>Speaker 3</b>	Chromosome-level genome assembly and annotation of <i>Phyllostachys violascens</i> 'Prevernalis'
		Hui Ding	Research Assistant, Jiangxi Academy of Forestry
11:40-12:00	19:40-20:00	<b>Speaker 4</b>	Unveiling the response of foliar gibberellin in mitigation of cold stress in <i>Bambusa tulda</i>
		Sudhan Singh Kaintura	PhD Scholar, Forest Research Institute, Dehradun
12:00-12:20	20:00-20:20	<b>Speaker 5</b>	Influence of different felling intensities in Productivity and regeneration of thornless bamboos in Northern Transitional Zone, Karnataka
		Divya Soman	Research Scholar, University of Agricultural Sciences, Dharwad
12:20-12:40	20:20-20:40	<b>Speaker 6</b>	Effect of season on edaphic properties in the microhabitat of <i>Dendrocalamus latiflorus</i> in Manipur
		Sylvia Ningthoujam	Research Scholar, Manipur University





Date	12-Dec (Beijing)		
Parallel Room 1		<b>Bamboo Ecology and Physiology</b>	
Dec 12 (Beijing Time)	Dec 11 (Vancouver Time)		<b>Moderator:</b> Li Li, NFU
14:00-14:20	22:00-22:20	<b>Speaker 1</b>	Transport and transformation of C and N between clonal ramets of Moso bamboo
		Man Shi	Associate Professor, Zhejiang A&F University
14:20-14:40	22:20-22:40	<b>Speaker 2</b>	Comprehensive physiological, cytological, and transcriptional regulatory analyses reveal the coloration mechanism of culm yellow-slot mutation in Moso bamboo
		Longhai Zou	Assistant Professor, Zhejiang A&F University
14:40-15:00	22:40-23:00	<b>Speaker 3</b>	Community-Led Watershed Restoration: Pre-Restoration Studies and the Role of Raphia in Ecosystem Recovery
		Mohamed Mounir Mfonden Poumie	Researcher, University of Dschang
15:00-15:20	23:00-23:20	<b>Speaker 4</b>	Ecology of Bambusa vulgaris and value chain in the Center Region of Cameroon
		Sévérine Etounou	Researcher, Institute of Agricultural Research for Developpement (IRAD)
15:20-15:40	23:20-23:40	<b>Tea break</b>	
			<b>Moderator:</b> Li Li, NFU
15:40-16:00	23:40-24:00	<b>Speaker 5</b>	Temporal dynamics of soil organic carbon sources in a Moso bamboo forest under long-term nitrogen input
		Quan Li	Associate Professor, Zhejiang A&F University
Dec 12 (Beijing Time)	Dec 12 (Vancouver Time)		



16:00-16:20	00:00-00:20	<b>Speaker 6</b>	Assessing Growth Parameters from Culm Cuttings of <i>Bambusa vulgaris</i> at the University of Dschang Botanic Garden, West Region of Cameroon: Implications for the Bamboo Resource Base and Rural Livelihoods
		Gilles Rolin Ananfack Kenfack	Student, University of Dschang
16:20-16:40	00:20-00:40	<b>Speaker 7</b>	A new calculation method of sap flow monitoring based on heat dissipation principle for bamboo
		Zihui Sun	Research Assisstant- Zhejiang A&F University
16:40-17:00	00:40-01:00	<b>Speaker 8</b>	Ecological Restoration of Fragile Eastern Himalayan Landscape through Bamboo Bioengineering
		Lumgailu Panmei	PhD Candidate, Department of Forestry and Biodiversity, Tripura University, Tripura, India
17:00-17:20	01:00-01:20	<b>Speaker 9</b>	Physiological and molecular characterization of zinc distribution in Moso bamboo ( <i>Phyllostachys edulis</i> )
		Xianyu Pan	Student, Zhejiang A&F University
17:20-17:40	01:20-01:40	<b>Speaker 10</b>	Reviving Our Planet with Bamboo: A Paradigm Shift in Climate Solutions.
		Bashir Isia Ahmad	Student, University of Maiduguri
17:40-18:00	01:40-02:00	<b>Speaker 11</b>	Carbon-Water Scenery: Unveiling the Green Footprint of Bamboo Shoot Products
		Ailing Ma	Student, Zhejiang A&F University



## Room 1: 13<sup>th</sup> December, 2024 (Beijing Time)

Location: Room 101, State Key Laboratory of Subtropical Silviculture, ZAFU

Date		13-Dec (Beijing)	
Parallel Room 1		<i>Bamboo Ecology and Physiology</i>	
<b>Dec 13 (Beijing Time)</b>	<b>Dec 12 (Vancouver Time)</b>		<b>Moderator:</b> Renyi Gui, ZAFU
8:30-8:50	16:30-16:50	<b>Speaker 1</b>	Disentangling microbial strategies for enhancing plant drought resistance under elevated carbon dioxides
		Zhikang Wang	Associate Professor, Zhejiang A&F University
8:50-9:10	16:50-17:10	<b>Speaker 2</b>	Function Analysis of Phenylalanine Ammonia-lyase Genes in Bamboo Lignin Biosynthesis
		Huayu Sun	Associate Researcher, International Centre for Bamboo and Rattan
9:10-9:30	17:10-17:30	<b>Speaker 3</b>	Effects of Different Managements on Above- and Below-ground Resource Acquisition Strategy Trade-off in Subtropical <i>Phyllostachys edulis</i> Forest
		Lei Jiang	Associate Professor, Zhejiang A&F University
9:30-9:50	17:30-17:50	<b>Speaker 4</b>	Nitrogen fertilization practices alter microbial communities driven by clonal integration in Moso bamboo
		Tingting Cao	Lecturer, Zhejiang A&F University
9:50-10:10	17:50-18:10	<b>Speaker 5</b>	Identification the Key Regulators Influencing In Vitro Regeneration of Bamboo
		Xiangyu Li	Lecturer, Zhejiang A&F University
10:10-10:30	18:10-18:30	<b>Tea break</b>	
			<b>Moderator:</b> Zhikang Wang, ZAFU
10:30-10:50	18:30-18:50	<b>Speaker 6</b>	Long-term forest rewilding increased soil multifunctionality by affecting bacteria-mediated nitrogen turnover in Moso bamboo forests
		Hongsheng Qing	PhD Student, Zhejiang A&F University



10:50-11:10	18:50-19:10	<b>Speaker 7</b>	F-box protein PeFKF1 promotes flowering by cooperating with PeID1 and PeHd1 in <i>Phyllostachys edulis</i>
		Juan Zhuo	PhD student - Zhejiang A&F University
11:10-11:25	19:10-19:25	<b>Speaker 8</b>	Nutrient Dynamics and Carbon Storage in Moso bamboo ( <i>Phyllostachys edulis</i> ): Implications for Optimized Fertilization Strategies
		Kecheng Wang	Graduate Student - Zhejiang A&F University
11:25-11:40	19:25-19:40	<b>Speaker 9</b>	The impact of bag-controlled release fertilizer on the site conditions and growth of Lei bamboo( <i>Phyllostachys violascens</i> ) forests
		Mimi Yan	Graduate Student - Zhejiang A&F University

## Room 2: 12<sup>th</sup> December, 2024 (Beijing Time)

**Location:** Room 401, State Key Laboratory of Subtropical Silviculture, ZAFU

<b>Date</b>		<b>12-Dec (Beijing)</b>	
<b>Parallel Room 2</b>		<b>Carbon Management and Livelihood</b>	
<b>Dec 12 (Beijing Time)</b>	<b>Dec 11 (Vancouver Time)</b>		<b>Moderator:</b> Xingcui Ding, ZAFU
10:40-11:00	18:40-19:00	<b>Speaker 1</b>	Bamboo based Eco-Rehabilitation Technology in Siwalik (Churia) hills of Nepal: A low cost climate change resilience technology by means of carbon sequestration
		Bishnu Maya KC	Assistant Professor, Kathmandu University, Dhulikhel Kavre, Nepal
11:00-11:20	19:00-19:20	<b>Speaker 2</b>	Estimating Bamboo Carbon Sequestration: Ground Inventory vs. Observation-based Approach
		Yanxia Li	Senior Programme Officer, International Bamboo and Rattan Organization



11:20-11:40	19:20-19:40	<b>Speaker 3</b>	To assess of environmental services and challenges of bamboo forest ecosystems: An application of emergy-based method
		Aamir Mehmood Shah	Postdoctoral Researcher, Sichuan Agricultural University
11:40-12:00	19:40-20:00	<b>Speaker 4</b>	Development and Characterization of Hybrid Bamboo-Timber Composites: Enhancing Bond Behavior and Structural Performance for Sustainable Construction
		Nima Jafarnia	Research Assistant, Brock University
12:00-12:20	20:00-20:20	<b>Speaker 5</b>	Bamboo: A Green Solution for India's Climate and Livelihood Challenges
		Annie Biju	Independent Researcher
12:20-12:40	20:20-20:40	<b>Speaker 6</b>	Bamboo Remote sensing, Allometries, and Carbon Stocks of <i>Phyllostachys aurea</i> Rivière & C. Rivière, in the Western Highlands of Cameroon
		Rene Kaam	Regional Director for Central Africa, International Bamboo and Rattan Organization (INBAR)

<b>Date</b>		<b>12-Dec (Beijing)</b>	
<b>Parallel Room 2</b>		<b><i>Carbon Management and Livelihood</i></b>	
<b>Dec 12 (Beijing Time)</b>	<b>Dec 11 (Vancouver Time)</b>		<b>Moderator:</b> Xinyu Du, SAU
14:00-14:20	22:00-22:20	<b>Speaker 1</b>	Contribution of Bamboo in resilience to climate change mitigation and adaptation in Dir subdivision: case of <i>Oxytenanthera abyssinica</i> (Adamawa plateau-cameroon)
		Nguefack Arnold	Project Developer, University of Dschang
14:20-14:40	22:20-22:40	<b>Speaker 2</b>	The role of bamboo in climate adaptation
		Jolys Hakizimana	Coordinator, UDCEH (ONG)



14:40-15:00	22:40-23:00	<b>Speaker 3</b>	Adaptation of different species to increasing temperatures and drought
		Weiwei Huang	Associate Professor, Nanjing Forestry University
15:00-15:20	23:00-23:20	<b>Speaker 4</b>	The Contribution of Bamboo to livelihood improvement in Cameroon
		Rene Kaam	Regional Director for Central Africa, International Bamboo and Rattan Organization (INBAR)
15:20-15:40	23:20-23:40	<b>Tea break</b>	
			<b>Moderator:</b> Rong Yu, ZAFU
15:40-16:00	23:40-24:00	<b>Speaker 5</b>	Methodology for Estimating Carbon Sequestration Capacity of Forests
		Chinazaekpere Chidinma Peter-Chinweuba	Environmental Enforcement Officer, National Environmental Standards And Regulations Enforcement Agency (Nesrea), Abuja
<b>Dec 12 (Beijing Time)</b>	<b>Dec 12 (Vancouver Time)</b>		
16:00-16:20	00:00-00:20	<b>Speaker 6</b>	Climate-smart Bamboo Forest Economy Practice and Challenges in Ethiopia
		Shiferaw Abebe	Lecturer and Researcher, Assosa University
16:20-16:40	00:20-00:40	<b>Speaker 7</b>	Carbon Sequestration Potentials Of Bamboo In Climate Change And In Poverty Reduction
		Adedeji Robert Ojo	Research Scientist, Forestry Research Institute of Nigeria, Ibadan Nigeria
16:40-17:00	00:40-01:00	<b>Speaker 8</b>	Carbon Management and Livelihoods: Bamboo as a Catalyst for Sustainable Development in Kenya
		Vincent Asati	Program Manager, ICOSEED KENYA
17:00-17:20	01:00-01:20	<b>Speaker 9</b>	Bamboo-based Agroforestry Practice and Degraded Land Restoration: The Case of Bonke District, Ethiopia
		Wondimagegn Bekele Biliso	Technical Officer, INBAR
17:20-17:40	01:20-01:40	<b>Speaker 10</b>	Expansion And Development of Bamboo In Selected Woredas In Bench Sheko Zone, South West Ethiopia

		Anberber, Wasihun	Instructor & Researcher, Transferring Technology in addition to Producing Skilled Human Power
17:40-18:00	01:40-02:00	<b>Speaker 11</b>	Bamboo-Based Agroforestry System for Climate Change Mitigation in Southern Nigeria
		Abdullateef Ismaila	Graduate from Usmanu Danfodiyo University Sokoto
18:00-18:20	02:00-02:20	<b>Speaker 12</b>	The Evolution and Model of Bamboo Industry integration in China
		Hong Yang	Faculty of Economics and Management, ZAFU

## Room 2: 13<sup>th</sup> December, 2024 (Beijing Time)

**Location:** Room 401, State Key Laboratory of Subtropical Silviculture, ZAFU

<b>Date</b>		<b>13-Dec (Beijing)</b>	
<b>Parallel Room 2</b>		<b><i>Carbon Management and Livelihood</i></b>	
<b>Dec 13 (Beijing Time)</b>	<b>Dec 12 (Vancouver Time)</b>		<b>Moderator:</b> Yanxia Li, INBAR
8:30-8:50	16:30-16:50	<b>Speaker 1</b>	Nurturing forest memory: native bamboo as an assemblage of biocultural keystone species in the southern Andes
		Annika Levaggi	Researcher, Local development Center (CEDEL), Pontificia Universidad Católica de Chile
8:50-9:10	16:50-17:10	<b>Speaker 2</b>	Life cycle assessment (LCA) of the industrial production of structural glued laminated bamboo
		Kewei Liu	Global Bamboo Construction Programme Coordinator, International Bamboo and Rattan Organization
9:10-9:30	17:10-17:30	<b>Speaker 3</b>	Seasonal variations in carbon assimilation and proliferation potential of different accessions of <i>Dendrocalamus strictus</i> Roxb.



		Ram Gopal	Assistant Professor, North Eastern Hill University, Tura Campus, Tura, Meghalaya
9:30-9:50	17:30-17:50	<b>Speaker 4</b>	Forest and carbon marketing
		Inam Ullah	Divisional Forest Officer, Forest Department KP Pakistan
9:50-10:10	17:50-18:10	<b>Speaker 5</b>	Managing Bamboo Forests for Climate Change Mitigation: A Life Cycle Assessment
		Chunyu Pan	Ph.D. Student, University of British Columbia
10:10-10:30	18:10-18:30	<b>Tea break</b>	
			<b>Moderator:</b> Yanxia Li, INBAR
10:30-10:50	18:30-18:50	<b>Speaker 6</b>	Assessing carbon footprint and carbon emission reduction potential of bamboo flooring boards prepared using three manufacturing processes in China.
		Bingbing Bo	Graduate Student, Zhejiang A&F University
10:50-11:10	18:50-19:10	<b>Speaker 7</b>	Identifying the suitable bamboo species for the Middle Gangetic Plains Region in India
		Vikas Kumar	Assistant Professor, Vivekananda Global University, Jaipur
11:10-11:30	19:10-19:30	<b>Speaker 8</b>	Conserving Bamboo's Future: Optimal Storage Conditions for Bambusa bambos Seeds
		Vaisakhy Prem Chand	Research Scholar, Forest Research Institute, Dehradun
11:30-11:50	19:30-19:50	<b>Speaker 9</b>	Enhancing Habitat Connectivity and Urban Resilience: The Transformative Role of Bamboo in Sustainable Development
		Vidya Sankar	Junior Scientific Assistant, Kerala State Pollution Control Board



## Room 3: 12<sup>th</sup> December, 2024 (Beijing Time)

Location: Room S217, Bamboo Industry Institute, ZAFU

Date		12-Dec (Beijing)	
Parallel Room 3		<i>Emerging Technologies and Businesses</i>	
Dec 12 (Beijing Time)	Dec 11 (Vancouver Time)		<b>Moderator:</b> Jayaraman Durai, INBAR
10:40-11:00	18:40-19:00	<b>Speaker 1</b>	Opportunities, Challenges, and Promotion Paths of Replacing Plastic Industry with Bamboo: Based on Multiple Case Studies in Jiangxi Province
		Ruiqiang Zheng	Professor, Jiangxi Agricultural University
11:00-11:20	19:00-19:20	<b>Speaker 2</b>	Turning a giant bamboo into natural drinking straws
		Huanrong Liu	Professor, International Center for Bamboo and Rattan
11:20-11:40	19:20-19:40	<b>Speaker 3</b>	Green Shields: Bamboo Bio-Fencing for Crop Protection Against Stray and Wild Animals
		Dinesh Kumar	Scientist, ICAR - Indian Institute of Soil and Water Conservation, Research Centre, Datia, Madhya Pradesh, India 475661
11:40-12:00	19:40-20:00	<b>Speaker 4</b>	Micro and macro-structural response of bamboo strips during drying
		Yeling Xia	PhD Student, University of British Columbia
12:00-12:20	20:00-20:20	<b>Speaker 5</b>	Unlocking India's Bamboo Opportunity: A case study from Odisha
		Aishwarya Joshi	Research Analyst, Council on Energy, Environment and Water (CEEW)
12:20-12:40	20:20-20:40	<b>Speaker 6</b>	Livelihoods and Bamboo: A Study of the Value Chain and Stakeholders in three Southern Indian Districts
		Vaishali Vasudeva	PhD Student, University of British Columbia
		<b>Lunch break</b>	



Parallel Room 3		<i>Emerging Technologies and Businesses</i>	
Dec 12 (Beijing Time)	Dec 11 (Vancouver Time)		
			<b>Moderator:</b> Guangyu Wang, UBC
14:00-14:20	22:00-22:20	<b>Speaker 1</b>	High-performance bamboo-wood composite materials based on the natural structure and original form of bamboo
		Shuangyong Wang	Research Assistant, Research Institute of Wood Industry, Chinese Academy of Forestry
14:20-14:40	22:20-22:40	<b>Speaker 2</b>	Harnessing Bamboo-based Solutions and Emerging Technologies for Climate Action
		Eric Ngetich	Founder/CEO, Nairobi Bamboo Technology Training Institute
14:40-15:00	22:40-23:00	<b>Speaker 3</b>	Innovate to Shape the World of Tomorrow by Using Bamboo
		Balde Kadiatou Korse	Coordinator, UDCEH (ONG)
15:00-15:20	23:00-23:20	<b>Speaker 4</b>	How Market-Oriented Environmental Regulation Impacts the Bamboo Industry in China
		Ting Gao	Student, Zhejiang A&F University
15:20-15:40	23:20-23:40	<b>Tea break</b>	
			<b>Moderator:</b> Guangyu Wang, UBC
15:40-16:00	23:40-24:00	<b>Speaker 5</b>	Does Industrial Relocation Increase New Quality Productivity in the Bamboo Industry? Empirical Evidence from Bamboo-producing Regions in China
		Shijia Ying	Graduate Student, Zhejiang A&F University
Dec 12 (Beijing Time)	Dec 12 (Vancouver Time)		
16:00-16:20	00:00-00:20	<b>Speaker 6</b>	Emergence of different bamboo sectors and appliances in central Africa, particularly in architecture
		Endante Essono Lucien Kevin	Architect, Geographer

16:20-16:40	00:20-00:40	<b>Speaker 7</b>	Hydrophobic and Anti-Mold Technology as a Sustainable Solution for Long-lasting use of bamboo
		Junting Li	Student, Zhejiang A&F University
16:40-17:00	00:40-01:00	<b>Speaker 8</b>	A novel eco-friendly and economical approach for developing colorful bamboo product through biomimetic polymerization of dopamine melanin inspired by photonic microstructure of bird plumage
		Wei Song	Researcher, International Centre for Bamboo and Rattan
17:00-17:20	01:00-01:20	<b>Speaker 9</b>	Nature's green Gold
		Doulahng Serge	Independent Researcher
17:20-17:40	00:40-01:00	<b>Speaker 10</b>	Bamboo: An integrated solution for the climate resilience of Comoros and small islands in the face of climate change
		Toyb Abdoul karim	Secretary, UDCM (Unions for the development of the commune of Mbadani)

### Room 3: 13<sup>th</sup> December, 2024 (Beijing Time)

Location: Room S217, Bamboo Industry Institute, ZAFU

<b>Date</b>		<b>13-Dec (Beijing)</b>	
<b>Parallel Room 2</b>		<b><i>Emerging Technologies and Businesses</i></b>	
<b>Dec 13 (Beijing Time)</b>	<b>Dec 12 (Vancouver Time)</b>		<b>Moderator:</b> Changhua Fang, ICBR
8:30-8:50	16:30-16:50	<b>Speaker 1</b>	The Structural Use of Bamboo Culms: An Analysis of Normative Evolution in Latin America
		Brianna Bussinger	Architect, University of São Paulo



8:50-9:10	16:50-17:10	<b>Speaker 2</b>	Scaling Bamboo for Sustainable Development: A Model for Community Empowerment and Business Growth
		Verónica Ortiz Tencio	CEO & FUNDER, RIZOMA
9:10-9:30	17:10-17:30	<b>Speaker 3</b>	Map of Bamboo Professionals in Brazil: Connecting Experts and Strengthening the Bamboo Production Chain.
		Bruno Imbroisi	Analyst, Embrapa
9:30-9:50	17:30-17:50	<b>Speaker 4</b>	Bamboo biochar for small communities' water purification
		Kleper Rocha	Researcher, Sao Paulo State University "Julio de Mesquita Filho" - Unesp
9:50-10:10	17:50-18:10	<b>Speaker 5</b>	Bamboo: Embracing Sustainability Together — Action in Construction Responding to Climate Challenge
		Kai Liu	Project Architect, Friends of Nature
10:10-10:30	18:10-18:30	<b>Tea break</b>	
			<b>Moderator:</b> Changhua Fang, ICBR
10:30-10:50	18:30-18:50	<b>Speaker 6</b>	Application of Knowledge Services in the Development of Bamboo Industry
		Pengfei Feng	Engineer, Research Institute of Forestry Policy and Information, Chinese Academy of Forestry
10:50-11:10	18:50-19:10	<b>Speaker 7</b>	Bio-Inspired Bamboo Sawdust Boards: Enhanced Properties for Circular Economy
		Chris Johnniel France Rana	Science Research Specialist II, Department of Science and Technology - Forest Products Research and Development Institute
11:10-11:30	19:10-19:30	<b>Speaker 8</b>	Exploring the Shift to Bamboo Alternatives: A Case Study on Wood and Plastic Replacement in Ethiopia
		Amsalu AAlamerew	PhD Student, University of British Columbia



## Room 4: 12<sup>th</sup> December, 2024 (Beijing Time)

**Location:** Room S215, Bamboo Industry Institute, ZAFU

Date		12-Dec (Beijing)	
Parallel Room 4		<i>Young Graduate Scientists</i>	
Dec 12 (Beijing Time)	Dec 11 (Vancouver Time)		<b>Moderator: Dan Hou</b>
10:40-11:00	18:40-19:00	<b>Speaker 1</b>	Straw mulching increases the content and stability of carbon by stimulating mineral protection in a Moso bamboo plantation
		Yuchen Lin	
11:00-11:20	19:00-19:20	<b>Speaker 2</b>	Study on the Application Effects of Bag-Controlled Slow-Release Fertilizer in Lei Bamboo ( <i>Phyllostachys violascens</i> ) Fields
		Yancui Ding	
11:20-11:40	19:20-19:40	<b>Speaker 3</b>	Reutilization and redistribution of boron in Moso bamboo, a tree-like grass species
		Yifan Xia	
11:40-12:00	19:40-20:00	<b>Speaker 4</b>	Silicon reduces Cadmium accumulation in Moso bamboo via physical fixation and down-regulation of metal cation transporter genes in roots
		Fan Yang	
12:00-12:20	20:00-20:20	<b>Speaker 5</b>	Integrative transcriptome and metabolites analysis reveals gene networks involved in melanin biosynthesis of black bamboo ( <i>Phyllostachys nigra</i> ) culms under LT condition
		Yadan Cao	
12:20-12:40	20:20-20:40	<b>Speaker 6</b>	The construction of phosphate-solubilizing bacteria and its regulation on phosphorus bioavailability in Moso bamboo rhizosphere
		Gaomei Qian	
<b>Lunch break</b>			



<b>Date</b>		<b>12-Dec (Beijing)</b>	
<b>Parallel Room 4</b>		<b>Young Graduate Scientists</b>	
<b>Dec 12 (Beijing Time)</b>	<b>Dec 11-12 (Vancouver Time)</b>		<b>Moderator:</b> Lin Guo
14:00-14:20	22:00-22:20	<b>Speaker 1</b>	Study on the effects of different preservation methods on the quality of bamboo shoots
		Chang Xu	
14:20-14:40	22:20-22:40	<b>Speaker 2</b>	Conductive and superhydrophobic lignin/carbon nanotube coating with nest-like structure for deicing, oil absorption and wearable piezoresistive sensor
		Enfu Wang	
14:40-15:00	22:40-23:00	<b>Speaker 3</b>	Determination of trace heavy metal elements in litterfall by inductively coupled plasma optical emission spectrometry after extraction using choline chloride-based deep eutectic solvents
		Yujie Chen	
15:00-15:20	23:00-23:20	<b>Speaker 4</b>	Research Progress on the Differences of Phenolic Metabolites in the Shells of Bamboo Shoots ( <i>Chimonobambusa quadrangularis</i> )
		Xinyuan Dong	
15:20-15:40	23:20-23:40	<b>Tea break</b>	
15:40-16:00	23:40-24:00	<b>Speaker 5</b>	Research on Density Regulation Measures for Moso Bamboo Forest Based on Total Water Resource Balance
		Jingxuan Xu	
16:00-16:20	00:00-00:20	<b>Speaker 6</b>	Catechins Influence Nitrification and Ammonification in Moso Bamboo Forest Soils
		Yu Fu	



16:20-16:40	00:20-00:40	<b>Speaker 7</b>	Spatiotemporal Changes in Moso Bamboo Microbial Communities and Their Functions Under Nitrogen and Phosphorus Fertilization
		Zhuan Yuan	
16:40-17:00	00:40-01:00	<b>Speaker 8</b>	Cytokinin-responsive PeTCP4s positively regulates lateral bud development by activating PePIN2a expression in Moso bamboo ( <i>Phyllostachys edulis</i> )
		Xin Chang	
17:00-17:20	01:00-01:20	<b>Speaker 9</b>	Spatiotemporal evolution and driving factors of agricultural input reduction in China
		Rui Ma	
17:20-17:40	01:20-01:40	<b>Speaker 10</b>	MYBS1-SUS1 regulatory module mediates sucrose metabolism
		Ruoman Wang	
17:40-18:00	01:40-02:00	<b>Speaker 11</b>	Effects of soil pipe-buried aeration on site conditions and development of Lei bamboo ( <i>Phyllostachys violascens</i> ) under mulching conditions
		Jie Meng	
18:00-18:20	02:00-02:20	<b>Speaker 12</b>	Transcriptome response of <i>Phyllostachys edulis</i> reveals hereditary factor underlying bamboo cold and drought adaptation
		Shijie Huang	Master Student - Zhejiang A&F University

## Day 2: Closing Ceremony (13-Dec, Beijing)

Location: Room 101, State Key Laboratory of Subtropical Silviculture, ZAFU

Date		13-Dec (Beijing)	
Main Room		Everyone comes back to this room	
	Keynote Speech and Closing Remarks		Moderator: Guangyu Wang
Dec 13 (Beijing Time)	Dec 12 (Vancouver Time)		
12:20-13:20	20:20-21:20	UBC	John Innes, Professor, Faculty of Forestry
	Closing Ceremony		
13:20-13:25	21:20-21:25	Best Poster Award	3 Awardees
13:25-13:35	21:25-21:35	Best Presenter Award	13 Awardees





## Poster Presentations (Online)

<b>Poster 1</b>	Artist entrepreneur architect environmentalist bamboo and rattan expert carpentry bamboo cultivation Biochar researcher bamboo construction décoration and the président of the cameroonian platform of bamboo and rattan professionals pc-bar
Séverin hosely Tamwo teboug	African cane furniture bamboo and Wood
<b>Poster 2</b>	Floristic diversity of the bamboo forest
Essossimna MAGAMANA	PhD in the field of biodiversity production, conservation and management, Lome University
<b>Poster 3</b>	Regulatory networks of senescence-associated gene- transcription factors promote degradation in Moso bamboo shoots
Wenyu Zhang	PhD Student
<b>Poster 4</b>	Moso Bamboo sucrose synthase gene SUS3 promotes earlier germination of tiller buds in <i>Dendrocalamus brandisii</i> (Munro) Kurz
Weijie Sun	Student, Zhejiang A&F University
<b>Poster 5</b>	DEVELOPMENT OF TECHNOLOGY FOR PRODUCING INDUSTRIAL FIRE STARTER USING FOREST RESIDUES
S ASHRIN FATHIMA	Forestry Graduate Student
<b>Poster 6</b>	Bamboo Ecology and physiology
Omar Conteh	Student, Zhejiang A&F University
<b>Poster 7</b>	Bamboo North East Hub
Samir Jamatia	Bamboo Technologist, Bamboo Forum of Tripura
<b>Poster 8</b>	Bioinspired Lignocellulose Foam: Exceptional Toughness and Thermal Insulation
Hongping Dong	PhD, Central South University of Forestry and Technology



<b>Poster 9</b>	Bamboo: Capturing Carbon, Supporting Livelihoods
Dieumerci NGOULOU	Student in Agronomic Sciences Forest and Environment at the National School of Agronomy and Forestry of the Marien NGOUABI University in the Republic of Congo
<b>Poster 10</b>	Evaluating Ecosystem Services and Disservices of Bamboo Forest Using the Energy-based Method
Cong Ma	Sichuan Agricultural University
<b>Poster 11</b>	How does slender bamboo control its mechanical stability?
Yu Luan	PhD Student, International Centre for Bamboo and Rattan
<b>Poster 12</b>	Community trainings and transformation to bamboo small scale industries for generating income and environmental conservation
Meckzedeck Mnyenyelwa	Co-founder, Bamboo Innovation Hub
<b>Poster 13</b>	Bamboo Leaf Value Chain for New Era
Samir Jamatia	Bamboo Technologist, Bamboo Forum of Tripura
<b>Poster 14</b>	Bamboo Biochar: A Holistic Approach to Soil health and Sustainable Livelihoods in Ghana
Daniel Enti	Program Officer, Advocates for Biodiversity Conservation
<b>Poster 15</b>	An economic and ecosystem services exploration of planting bamboo on degraded land in Amazonian Ecuador
Lucy Binfield	PhD Candidate, University of British Columbia
<b>Poster 16</b>	BAMBOO RESOURCES TOWARDS PROFITABLE AND SUSTAINABLE INCENSE STICK PRODUCTION
Sourav Ranjan Mohapatra	Assistant Professor, Department of Forest Biology and Tree Improvement, Odisha University of Agriculture and Technology, Bhubaneswar, Odisha 751 003, India.
<b>Poster 17</b>	Draining concrete with bamboo fibers
Fabiola Rago Beltrame	Civil Engineer, Mackenzie Presbyterian University
<b>Poster 18</b>	DIVERSIFYING THE RANGE OF MATERIALS AVAILABLE FOR CONSTRUCTION: A CASE OF ORIENTED BAMBOO STRAND BOARD (OBSB)



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Nusirat Sadiku	Lecturer, University of Ilorin, Ilorin, Nigeria
<b>Poster 19</b>	Characterizing Mat Formation of Bamboo Fiber Composites: Horizontal Density Distribution
Yuan Hu	Professor, Jiangxi Academy of Forestry
<b>Poster 20</b>	Weathering performance of dyed bamboo fiber composites
Mei He	Associate Professor, Jiangxi Academy of Forestry

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## The University of British Columbia

The University of British Columbia (UBC) is one of Canada's leading academic institutions and a globally recognized center of research and education. Located in Vancouver and with an additional campus in Okanagan, UBC serves as a hub of innovation, learning, and community engagement. Established in 1908, UBC has grown to become one of the world's top universities, renowned for its academic excellence, cutting-edge research, and diverse student body.

UBC is committed to fostering a collaborative and interdisciplinary approach to learning and research. With a strong emphasis on global perspectives, sustainability, and social responsibility, the university consistently ranks among the top 40 universities in the world. Its diverse array of academic programs spans across over 300 undergraduate and graduate degree offerings in various disciplines, including arts and humanities, sciences, engineering, business, medicine, and law. UBC's faculty members are leading experts in their respective fields, driving research initiatives that address some of the world's most pressing challenges, from climate change and public health to technological innovation and social equity.

A hallmark of UBC's research-driven culture is its impressive commitment to sustainability and environmental stewardship. The university is known for its state-of-the-art research facilities, such as the Clean Energy Research Centre, the Michael Smith Laboratories, and the Centre for Interactive Research on Sustainability, all of which contribute to advancing knowledge in critical areas related to environmental protection, renewable energy, and climate adaptation.

UBC's Vancouver campus, situated on the unceded traditional land of the Musqueam people, offers students a stunning natural environment with access to the Pacific Ocean, nearby mountains, and urban amenities. This setting enhances the university's vibrant campus life, which includes a wide range of cultural, recreational, and leadership opportunities for students. UBC's student population represents more than 160 countries, making it one of the most culturally diverse campuses in the world. The university's commitment to inclusion, equity, and accessibility ensures that all students, regardless of background or identity, have the support they need to succeed.

In addition to academic and research excellence, UBC fosters strong connections with industries, governments, and communities. Its alumni network spans the globe, with graduates making significant contributions in various fields, from business and technology to politics and the arts. UBC's reputation for excellence continues to attract the brightest minds and most promising students, solidifying its position as a leader in global higher education.

## ZHEJIANG A&F UNIVERSITY

Zhejiang A&F University (ZAFU) is located in Hangzhou, at the western end of the Hangzhou West Science and Innovation Corridor. It is a university jointly established by the Zhejiang Provincial Government and the Ministry of Agriculture and Rural Affairs, as well as by the Zhejiang Provincial Government and the National Forestry and Grassland Administration. ZAFU is a key university under provincial construction and a high-level university in Zhejiang Province. Founded in 1958, ZAFU has grown over the past 60 years into a multidisciplinary university with strengths in agriculture, forestry, biology, and environmental sciences, covering nine academic disciplines. The university has established a comprehensive training and degree authorization system for undergraduate, master's, and doctoral programs.

The university currently has three campuses, covering over 3,300 acres, with a building area of 954,000 square meters. ZAFU is home to 20 colleges, including one independent college. The university has 18,315 full-time undergraduate students, 5,049 graduate students, 998 international students, and 2,378 faculty and staff members. ZAFU offers 63 undergraduate programs, including 14 national first-class programs and four national characteristic programs. The university has one Summit discipline in Zhejiang Province, four first-class (A-class) disciplines, and five first-class (B-class) disciplines in Zhejiang Province. Additionally, ZAFU has seven key disciplines under the National Forestry and Grassland Administration and three key cultivation disciplines. The university hosts five postdoctoral research stations in first-level disciplines, such as forestry and forestry engineering. ZAFU has six doctoral degree authorization points, 18 first-level master's degree authorization points, and 15 professional master's degree categories. ZAFU boasts one academician of the Chinese Academy of Engineering, six jointly appointed academicians, and 42 nationally recognized talents. The university has been awarded one National Technological Invention Second Prize and eight National Science and Technology Progress Second Prizes. ZAFU places a strong emphasis on innovation and entrepreneurship education, with students excelling in various academic competitions, earning numerous provincial and national awards. The university is also actively advancing its internationalization, establishing partnerships with over 100 universities and research institutions in 27 countries and regions worldwide, engaging in academic exchanges, joint education programs, and scientific research.



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## International Bamboo and Rattan Organization

The International Bamboo and Rattan Organization (INBAR) is a leading global organization dedicated to advancing the sustainable development of bamboo and rattan as key resources for environmental, economic, and social benefits. Established in 1997, INBAR is an intergovernmental organization that brings together governments, NGOs, research institutions, and businesses to promote the use of bamboo and rattan in addressing global challenges, including climate change, poverty, and sustainable development.

INBAR's mission is to support the conservation and sustainable use of bamboo and rattan resources, which are crucial for the well-being of millions of people worldwide. These versatile materials are widely used for construction, furniture, paper, textiles, and a variety of other products. Bamboo and rattan are known for their rapid growth and high carbon sequestration potential, making them important allies in the fight against deforestation and climate change. INBAR's work focuses on fostering innovation and scaling up the use of these resources through research, capacity building, and policy advocacy.

The organization's efforts are guided by the principles of sustainability and inclusivity, ensuring that the development of bamboo and rattan sectors benefits both people and the planet. INBAR promotes the establishment of sustainable value chains, creating opportunities for rural development, job creation, and poverty reduction. The organization also plays a key role in influencing international policy, raising awareness about the ecological and socio-economic benefits of bamboo and rattan, and advocating for their inclusion in global environmental strategies.

With a membership of over 40 countries, INBAR has become a central hub for collaboration and knowledge exchange on bamboo and rattan-related issues. Through partnerships with international organizations, governments, and the private sector, INBAR supports the development of policies, technologies, and market opportunities that enhance the role of bamboo and rattan in global sustainable development. By promoting the sustainable use of these materials, INBAR contributes to building a greener, more equitable future for communities around the world.

## **Bamboo Industry Institute of Zhejiang A&F University**

Bamboo Industry Institute is a high-level innovation platform established by ZAFU to serve national strategies such as rural revitalization, "carbon peak carbon neutrality" and "One Belt, One Road", help the construction of Zhejiang common prosperity demonstration zone, and enable the transformation and upgrading of bamboo industry with more than 40 years of development history. With over 40 years of development history, Bamboo Industry Institute has formed a number of landmark achievements in bamboo biotechnology, germplasm innovation, ecological and efficient cultivation, bamboo forest carbon sinks, advanced bamboo material processing, bamboo foods, bamboo cultural tourism, etc., at an internationally leading level. Researchers in Bamboo Industry Institute have won 1 second prize of National Technological Invention, 4 second prizes of National Science and Technology Progress Award, 3 first prizes of provincial and ministerial Science and Technology Progress Award. Relevant results have been promoted and applied in more than 10 provinces and regions such as Zhejiang, Sichuan and Guizhou.

Bamboo Industry Institute has 2 national-level platforms: the State Key Laboratory of Subtropical Silviculture, and the National Engineering and Technology Research Center for Comprehensive Utilization of Wood Resources. It offers 4 provincial- and ministerial-level platforms: the Ministry of Education Key Laboratory of Bamboo Science and Technology, the "2011 Collaborative Innovation Center" for Bamboo Resources and Efficient Utilization in Zhejiang Province, the Science and Technology Innovation Service Platform for Bamboo Industry in Zhejiang Province, and the Zhejiang Provincial Engineering Research Center for Bamboo Resources and Efficient Utilization.

Bamboo Industry Institute actively engages in international exchange and cooperation serving China's Belt and Road Initiative. It has ties with universities, research centers and agencies across the Asia-Pacific, Americas, and Africa bamboo regions. Key collaborations include a joint China-Canada Bamboo Research Institute with University of British Columbia (UBC) training PhD students, hosting annual International Bamboo Conferences, and co-publishing the academic journal *Advances in Bamboo Science* with Elsevier. Cooperation areas with partners such as International Bamboo and Rattan Organization (INBAR), Tokyo University and agencies in Ethiopia, Kenya, etc., focusing on talent training, project cooperation, academic exchange, and shared platforms.

Bamboo Industry Institute is currently undertaking over 100 research projects and looks forward to carrying out technological cooperation and exchange with experts, institutions and organizations engaged in bamboo research all over the world!