



NESS国际科学网络
国家生态 National Eco-Security
保障系统 System

2023 NESS 国际科学大会 暨生态保障人类命运共同体学术研讨会

2023 NESS International Science Congress and
Workshop on An Eco-Security System for All People

会议手册 CONFERENCE MANUAL

2023年10月27-31日 中国·海口
27-31 Oct. 2023 HAIKOU·CHINA

主办单位
Sponsors



2023 NESS国际科学大会

暨生态保障人类命运共同体学术研讨会

2023 NESS International Science Congress and
Workshop on An Eco-Security System for All People

共建生态保障人类命运共同体

Jointly Building An Eco-Security System for All People

2023年10月27-31日 中国·海口
27-31 Oct. 2023 HAIKOU·CHINA

Sponsors

Hainan University
National Eco-Security System
Hainan Normal University
Haikou Forestry Bureau
Hainan Institute of National Park

Organizers

Research Institute of Environmental Law Wuhan University
Changbaishan National Nature Reserve Administration
IUCN SSC China Species Specialist Group
Protected Area Working Committee,
International Society of Zoological Sciences (ISZS)

Technical Support



VooV Meeting

Co-sponsors

Alliance of International Science Organizations (ANSO)
Ecological Society of Hainan
Beijing Prestar Tech.Co.,Ltd.

The Congress is financially supported by the Wang Kuancheng Education Foundation

目 录

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Hotel phone: 0898-66736666

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1. Organization

Congress Scientific Board

Dexin Tian, Sung Wang, Fengchun Wang, Xiwu Zhang, Jinfeng Zhou, Rui Yang, Ke Zhou, Youhai Sun, Tianbao Qin, Haitao Shi, Jiakuan Chen, Zhenji Li, Yan Xie

Presidium

Dexin Tian, Diangong Gao, Tianbao Qin, Zhenji Li, Jun Qian, Zhihong Li, Yan Xie

Congress Organizational Board

Zhongmin Hu, Jichao Wang, Jun Qian, Lianxiang Xu, Wenhua Xiong, Bin Hu, Meiling Hong, Xiuwei Wang, Liu Lin, Haichao Zhou, Haiying Lin, Mingxun Ren, Ruiping Wang

2. Themes of the Congress

Jointly Building An Eco-Security System for All People

- (1) The important value and role of protected areas to NESS
- (2) How can law science provide robust legal guarantees and support for building ESSAP?
- (3) How can nature education in different countries provide robust support for jointly building ESSAP?
- (4) How can species research and conservation provide scientific support for ESSAP, and describe the close relationship between species conservation and NESS.
- (5) How can young international students support the NESS research and development for their own countries?

3. Agenda

Congress Agenda Outline

The meeting period is 08:30-12:00; 13:30-17:30

Activities	Dates (27~31 Oct. Fri~Tue)
Offline participant registration	Morning of 27 th (Hotel Lobby)
Opening Ceremony	Afternoon of 27 th (Hexie Hall)
International Forum on Protected Areas & 2023 IAPA Annual Meeting	Full day of 28 th (Hexie Hall)
International Forum on Law Science	Full day of 28 th (Heyi Hall)
International Forum on Nature Education	Full day of 29 th (Heyi Hall)
International Forum on Species	Full day of 29 th (Hexie Hall)
International Forum on International Students	Morning of 30 th (Hexie Hall)
Closing Ceremony	Afternoon of 30 th (Hexie Hall)
Field trip to Hainan Tropical Rainforest National Park	Full day of 31 st or including Morning of November 1 st
Free communication	Evenings of 27, 28 and 29 Oct.

I. Opening Ceremony

Theme: Jointly building “An Eco-Security System for All People” (ESSAP)

Dates: 27~31 Oct. 2023

Meeting venue: Hexie Hall (3F)

Online (NESS Congress Room 1): <https://meeting.tencent.com/dw/wr8b2W1OBvaA>

#TencentMeeting: 628-7422-7193

Chairs: Ke Zhou, China. Professor, Law School of Renmin University of China; Vice President, Chinese Society of Environmental and Resources Law

Yan Xie, China. International Coordinator, NESS International Science Network; Associate Research Professor, Institute of Zoology, Chinese Academy of Sciences

- 1. 13:30-13:50 Addresses from leaders and NESS Scientific Committee members**
- 2. 13:50-14:10 Keynote speech** -- Dexin Tian, China. Founder & Chief Scientist, NESS International Network

3. 14:10-14:20 Supporter video

14:20-14:50 Tea break + Group Photo

Country representative speeches

- 4. 14:50-15:00 Saudi Arabia Vision 2030: Environmental Initiatives Lining on the Same Page with NESS** -- Abdulaziz Alagaili, Saudi Arabia. Full Professor, King Saud University
- 5. 15:00-15:10 Challenge of Restoring Natural Resources and Ecosystem in the Face of Climate Change: Lesson Learnt from Restoration Ecosystem in the Indonesian Biosphere Reserves** -- Yohanes Purwanto, Indonesia. Professor, Research Center for Ecology and Ethnobiology, National Research and Innovation Agency; Chairman, MAB Indonesia Association; Chairman, Ethnobiology Society of Indonesia
- 6. 15:10-15:20 Nomadic Tradition is Key Importance Both for Ecosystem Security and Human Livelihood in Mongolia** -- Gansukh Sukhchuluun, Mongolia. Professor, Institute of Biology, Mongolian Academy of Sciences
- 7. 15:20-15:30 The vision of promoting the NESS in Kazakhstan** -- Viktoriya Ilina, Kazakhstan. Vice-Chair of Kazakhstan National Committee for the UNESCO programme; Researcher, Al-Farabi Kazakh National University
- 8. 15:30-15:40 The state of Eco-Security Debate and Policy-Making in N. Macedonia** -- Biljana Vankovska, The Republic of North Macedonia. Head, Global Changes Center, Faculty of Philosophy, Ss. Cyril and Methodius University, Skopje (*Online*)
- 9. 15:40-15:55 Jointly building “An Eco-security System for All People” — Contribution of Protected Areas to Human Life through Conservation Diversity** -- Immaculate Chelangat, Uganda. CEO, REEMIC multipurpose Program in Mt. Elgon Biosphere Reserve (*Online*)
- 10. 15:55-16:10 Our responsibility to protect the future of our kids on the Planet Earth** -- Subhan Qureshi, Pakistan. President, Dairy Science Park; Professor, Khyber Pakhtunkhwa Agricultural University (*Online*)
- 11. 16:10-16:20 The vision of promoting the NESS in Timor Leste** -- Mario Cabral, Lecturer and Researcher, Fisheries and Marine Science Department, Universidade Nacional Timor Lorosa'e (UNTL)
- 12. 16:20-16:30 The vision of promoting the NESS in South Sudan** -- Meta Francis Justine Sindani, South Sudan. Forest Officer, Ministry of Environment and Forestry
- 13. 16:30-16:40 Introduction to the Alliance of Science Organizations (ANSO)**

Speeches of sub-forum chairs

Chaired by Mingxun Ren, China. Deputy Dean, School of Ecology and Environment, Hainan

University

- 14. 16:40-16:50 The Legal Dimension of Systematic Conservation of Mountains, Rivers, Forests, Crop lands, Lakes, Grasslands, Deserts and Glaciers -- Tianbao Qin, China.** Director & Professor, Institute of Environmental Law, Wuhan University; Vice President and Secretary General, Chinese Society of Environmental and Resources Law
 - 15. 16:50-17:00 Understanding An Eco-Security System for All through Nature Observation -- Zhenjil Li, China.** Professor, College of the Environment and Ecology Sciences, Xiamen University
 - 16. 17:00-17:10 How the Species Research can Contribute to the Development of National Eco-Security System -- Yan Xie, China.** International Coordinator, NESS International Science Network; Associate Research Professor, Institute of Zoology, Chinese Academy of Sciences
 - 17. 17:10-17:20 Interaction with Sub-meeting in Nanjing Normal University -- Hongying Sun, China.** Professor, College of Life Sciences, Nanjing Normal University
 - 18. 17:20-17:30 Promoted by international brand, the improvement and development of Changbaishan Nature Reserve -- Rongjie Zhang, China.** Education Section Chief & Senior Engineer, Changbaishan National Nature Reserve Administration
 - 19. 17:30-17:40 Interaction with sub-meeting in Jinfoshan National Nature Reserve -- Xia Wang, China.** Senior Economic Engineer, Chongqing Jinfoshan National Nature Reserve Administration
 - 20. 17:40-17:50 Young Scholars should Become an Important Force in Building Ecology and Ensuring An Eco-Security System for All People -- Meiling Hong, China.** Professor, College of Life Sciences, Hainan Normal University
- 17:50-18:00 Summary of the meeting -- Ke Zhou, China.** Professor, Law School of Renmin University of China; Vice President, Chinese Society of Environmental and Resources Law

II. ESSAP · International Forum on Protected Area and 2023 IAPA Annual

Meeting

Theme: The important value and role of protected areas to NESS

Chair: Yanfei Tang, Professor & Executive Director, Hainan Institute of National Park

Lianxiang Xu, Director, Jilin Changbaishan National Nature Reserve Administration

Sponsors: Changbaishan National Nature Reserve Administration; Protected Area Working

Committee, International Society of Zoological Sciences; Haikou Forestry Bureau; Hainan Institute of National Park

Co-Sponsors: Hainan University

Secretary General: Rongjie Zhang, Education Section Chief & Senior Engineer, Changbaishan National Nature Reserve Administration

Dates: 28th Oct 08:30-17:30

Meeting venue: Hexie Hall (3F)

Online (NESS Congress Room 1): <https://meeting.tencent.com/dw/wr8b2W1OBvaA>

#VooVMeeting: 628-7422-7193

ESSAP · International Forum on Protected Area

Chaired by Yanfei Tang, China. Professor & Executive Director, Hainan Institute of National Park

- 1. 08:30-08:40 Chair's explanation of the theme**
- 2. 08:40-09:00 Role and Value Enhancement of Wakatobi Biosphere Reserve Through Eco-Socio Security** -- H. HALIANA, SE, Indonesia. Regent, Wakatobi Government (*Online*)
- 3. 09:00-09:20 The Achievement of Community-Based Marine Sanctuary (CB-MS) Process during 2 Decades (2005-2025) in Timor-Leste** -- Mario Cabral, Timor-Leste. Lecturer and Researcher, Fisheries and Marine Science Department, Universidade Nacional Timor Lorosa'e (UNTL) (*Online*)
- 4. 09:20-09:40 Ecosystem and Socio-economic Benefits of Marine Protected Area. The case of APM- Capo Milazzo after four years after its establishment** -- Ivana Bonaccorsi, Italy. Member of the Board of Directors, AMP Capo Milazzo (Capo Milazzo Marine Protected Area)
- 5. 09:40-10:00 Conservation is not just a Science. It is a Social Science** -- Anirudh Chaoji, India. Ecologist/Chief Naturalist, Tadoba Andhari Tiger Reserve
- 6. 10:00-10:20 Long-term planning and flexible management of the Three-River-Source National Park** -- Xinhai Li, China. Associate Research Professor, Institute of Zoology, Chinese Academy of Sciences

10:20-10:40 Tea Break

Chaired by Xinhai Li, China. Associate Research Professor, Institute of Zoology, Chinese Academy of Sciences

- 7. 10:40-11:00 Resonance of Conservation: Exploring Annapurna Conservation Area's Biodiversity and Sustainable Harmony** -- Chiranjibi Prasad Pokheral, Nepal. Director,

National Trust for Nature Conservation- Annapurna Conservation Area

8. **11:00-11:20 Optimizing the Utilization of Conservation Areas to Enhance the Life Support System for Both Local and Global Communities: An Economic Valuation of Natural Resources in Gunung Palung National Park, West Kalimantan** -- Hendra Gunawan, Indonesia. Conservation and Sustainability Leads, Sebumi.id
9. **11:20-11:40 The conservation of ecosystem and biological diversity in Alakol Biosphere Reserve (East Kazakhstan)** -- Roman Jashenko, Kazakhstan. Professor, Director General, Institute of Zoology (*Online*)
10. **11:40-12:00 “Surety for Eco-security”: Protected Areas and Development in Mountain Regions of Russia** -- Tatiana Iashina, Russia. Deputy Director for Science, Katunskiy Biosphere Reserve Administration
11. **12:00-12:20 Impact of Protected Areas in the surrounding communities** -- Nelson Muyaba, Zambia. Natural Resources Planner, Ministry of Tourism, Department of National Parks and Wildlife (*Online*)

12:20-13:30 Lunch and Rest

Chaired by Cristian Bonacic, Chile. Professor, Department of Ecosystems and Environment, School of Agriculture and Forestry, Pontifical Catholic University of Chile

12. **13:30-13:50 How Indonesian Marine Protected Areas (MPAs) are Doing: A management Performance-based Evaluation** -- Lusita Meilana, Indonesia. Postdoctoral Research Fellows, Xiamen University (*Online*)
13. **13:50-14:10 Togo's National System of Protected Areas, health policy and epidemiological surveillance** -- Koffi Valentin Mawougnigan, Togo. Coordinator, Écologie Universelle Togo (*Online*)
14. **14:10-14:30 Freshwater ecosystem restoration and information monitoring in protected areas: Case study and practice of Changbaishan National Nature Reserve** -- Yueming Zhao, China. Head of the Office of Media and International Cooperation, Changbaishan National Nature Reserve Administration
15. **14:30-14:50 Forest and Grass Science and Technology Journals Serve the Construction of Ecological Civilization – Exploration and Practice of *Protected Areas* from the New Journal to the CSCD** -- Anming Zhu, China. Deputy Director, *Protected Areas* Editorial Office, East China Investigation and Planning Institute, National Forestry and Grassland Administration
16. **14:50-15:10 Mountain Future and Future Living in Global Change** -- Jianchu Xu, China. Research Professor, Kunming Institute of Botany, Chinese Academy of Sciences
17. **15:10-15:30 Discuss the recommendations of International Forum on Protected Area –**

Ruiping Wang, China. Professor, Hainan Institute of National Park

15:30-15:50 Tea Break

2023 IAPA Annual Meeting – Chaired by John MacKinnon, UK, Advisory Committee Member, IAPA

- 1. 15:50-16:10 Introduction to International Alliance of Protected Areas / International Society of Zoological Sciences (IAPA/ISZS) -- Yan Xie, Chief Scientist of IAPA**
- 2. 16:10-16:30 Progress Report of IAPA -- IAPA Secretariat**
- 3. 16:30-16:50 Sister Protected Areas Cooperation Signing Ceremony -- IAPA Secretariat**
- 4. 16:50-17:30 Communication about IAPA member's needs and suggestions**

III. ESSAP · International Forum on Law Science

Theme: How can law science provide robust legal guarantees and support for building ESSAP?

Chair: Tianbao Qin, Director & Professor, Research Institute of Environmental Law, Wuhan University

Sponsors: Institute of Environmental Law, Wuhan University

Co-Sponsors: Chinese Society of Environmental and Resources Law; School of Law, Hainan University; Center for Ecological Civilization and Law, Hainan University

Secretary General: Bin Hu, Deputy Director, Research Institute of Environmental Law, Wuhan University

Deputy Secretary General: Xiuwei Wang, School of Law, Hainan University

Dates: 28th Oct 08:30--17:30

Meeting venue: Heyi Hall (3F)

**Online (NESS Congress Room 2): <https://meeting.tencent.com/dw/iXiP8rxdj5Yk>
#VooVMmeeting: 779-1556-1270**

Chaired by Bin Hu, China. Deputy Director, Research Institute of Environmental Law, Wuhan University

- 1. 08:30-08:40 Chair's explanation of the theme – Zaixiang Wang, Deputy Director & Associate Professor, Law School, Hainan University**
- 2. 08:40-09:00 The Legal Regulation of Wildlife Industry under the Concept of Harmonious**

Coexistence between Man and Nature -- Ke Zhou, China. Professor, Law School of Renmin University of China; Vice President, Chinese Society of Environmental and Resources Law

3. **09:00-09:20 Enforcement and Compliance as Crucial Elements of an Eco-Security System for All People** -- Stepfan Gruber, Germany. Professor, Research Institute of Environmental Law; School of Law, Wuhan University, China
4. **09:20-09:40 Control of Poaching and Illegal Trade of Wildlife for Eco-security in Nepal** -- Ana Nath Baral, Nepal. Department of National Parks and Wildlife Conservation (*Online, Local time 07:05-07:25*)
5. **09:40-10:00 On the Rationale and Improvement of the Legal System of Protected Areas in China** -- Canfa Wang, China. Professor, China University of Political Science and Law

10:00-10:20 Tea break

6. **10:20-10:40 Current Regulatory Issues of Some Aspects of the Red Data Book in the Central Asian Countries** -- Viktoriya Ilina, Kazakhstan. Vice-Chair of Kazakhstan National Committee for the UNESCO programme; Researcher, Al-Farabi Kazakh National University
7. **10:40-11:00 Transboundary Eco-Security: Challenges of Legal Systems in Reinforcing Comprehensive Eco-Security for All People** -- Pimonkorn Pangfoo, Thailand. Research Institute of Environmental Law; School of Law, Wuhan University, China
8. **11:00-11:20 International Law and Climate Litigation: The Role of Treaties, Conventions, and Customary Law in Creating Eco-security System** -- Stanislav Ianushauskas, Russia. Research Institute of Environmental Law; School of Law, Wuhan University, China
9. **11:20-11:40 Countermeasures to prevent ecosystem security crimes from the perspective of a community of shared future for mankind** -- Xia Zhang, China. Doctor of Environmental Criminal Law, Dean & Professor, Law School, Hainan Normal University
10. **11:40-12:00 Law's Crucial Role in Establishing Legal Protection and Support for "An Eco-Security System for All People"** -- Marus Gbomagba, Benin. Research Institute of Environmental Law; School of Law, Wuhan University, China
11. **12:00-12:20 "Implementing the principles of eco-civilization and the United Nations SDGs along the BRI"** -- Peter Howard Corne, UK. Professor, Research Institute of Environmental Law; School of Law, Wuhan University, China
12. **12:20-12:30 Teacher's comments** -- Stepfan Gruber, Germany. Professor, Research Institute of Environmental Law; School of Law, Wuhan University, China

12:00-13:30 Lunch and Rest

Chaired by Canfa Wang, China. Professor, China University of Political Science and Law

1. **13:30-13:50 The Need to Improve Legal Frame Works for achieving Environmental**

Justice -- Sileshi Walelign Kebede, Ethiopia. Research Institute of Environmental Law; School of Law, Wuhan University, China

2. **13:50-14:10 Mitigating ecological vulnerability through legal solutions along the BCIM-EC project in Bangladesh** -- Md Ziaul Islam, Bangladesh. Research Institute of Environmental Law; School of Law, Wuhan University, China,
3. **14:10-14:30 Contribution to The Establishment of a Community Alert System on Wildlife Crime issues in the Periphery of W-Niger** -- Abdoul-Aziz Seyni, Niger Head of Division, Ministry of Environment, Niger
4. **14:30-14:50 Tropical Rainforest National Park and the protection on the rights of the indigenous people in Hainan Province of China** -- Xiuwei Wang, School of Law, Hainan University, China
5. **14:50-15:10 Law's Role in Providing Legal Protection and Support for an Eco-security System for All Peoples: A Focus on China** -- Donatus Dunece, Ghana. Research Institute of Environmental Law; School of Law, Wuhan University, China
6. **15:10-15:20 Teacher's comments** -- Peter Howard Corne, UK. Professor, Research Institute of Environmental Law; School of Law, Wuhan University, China

15:20-15:40 Tea break

7. **15:40-16:00 Law's Role in Providing Legal Protection and Support for "An Eco-security System for All People" and its enforcement** -- Andriamirado Rakoto, Madagascar. Research Institute of Environmental Law; School of Law, Wuhan University, China
8. **16:00-16:20 Law's Role in Providing Legal Protection and Support for "An Eco-Security System for All People"** -- Norga Alloyce Komba, Tanzania. Research Institute of Environmental Law; School of Law, Wuhan University, China
9. **16:20-16:40 Building a Green Future Together: "The Role of Law in Safeguarding Our Eco-Security for a Sustainable Future"** -- Sohail Aamir, Pakistan. Research Institute of Environmental Law; School of Law, Wuhan University, China
10. **16:40-17:00 On the Regulatory Mechanisms of Blue Carbon Market** -- Tong Liu, China. Graduate student, Law School, Hainan University
11. **17:00-17:10 Teacher's comments** -- Stepfan Gruber (Germany), Professors, Research Institute of Environmental Law; School of Law, Wuhan University, China
12. **17:10-17:30 Discuss the recommendations of International Forum on Law Science** – Chaired by Peter Howard Corne (UK), Stepfan Gruber (Germany)

[IV. ESSAP · International Forum on Nature Education](#)

Theme: How can nature education in different countries provide robust support for jointly building ESSAP?

Chair: Zhenji Li, Professor, School of Environment and Ecology, Xiamen University; Standing Director, Chinese Ecological Society

Sponsor: Collaborative Innovation Center of Ecological Civilization, Hainan University

Co-sponsor: Xiamen University, Hainan Normal University, Haikou Ecology and Environment Bureau

Secretary General: Mingxun Ren, Vice President and Professor, School of Ecology and Environment, Hainan University

Deputy Secretary General: Haiying Lin, Professor, School of International Tourism, Hainan University

Time: 29th Oct 08:30--17:30

Meeting venue: Heyi Hall (3F)

Online (NESS Congress Room 2): <https://meeting.tencent.com/dw/iXiP8rxdj5Yk>
#VooVMeeting: 779-1556-1270

Chaired by Mingxun Ren, China. Vice President and Professor, School of Ecology and Environment, Hainan University

- 1. 08:30-08:40 Address and explanation on the theme -- Yi Yong, China. Director, Nature Education Strategic Planning Center, Ecological Branch, Fudan Planning Institute**
- 2. 08:40-09:00 Everything Symbiosis, Beautiful Construction: Take the natural observation in Mount Wuyi National Park as an example -- Zhenji Li, China. Professor, College of the Environment and Ecology, Xiamen University**
- 3. 09:00-09:20 The paradigm of the SCIENCE CULTURE CONSTRUCTION (SCC) As a new blueprint for cooperation fostering science, technology, innovation, and green development -- Marco A. Cabero, Bolivia. Founder, Andean Road Countries for Science and Technology (*Online*)**
- 4. 09:20-09:40 Nature Conservation Education for Resilient and Sustainable Communities -- Ronald Kaboye, Uganda. Lecturer, Kayunga Institute of Agriculture and Environment Protection Under Makerere University; GSPL & National Director, Human Nature Projects**
- 5. 09:40-10:00 Nature education helps the people lifelong learning and improves their overall scientific literacy: Take Hainan Science Caravan "Eight Advance service" as an example -- Gaoye Fan, China. General Manager, Hainan Boundless Education Service Management Co., Ltd.; Secretary General, Science and Technology Science Education Professional Committee, China Adult Education Association**

10:00-10:20 Tea break

Chaired by Zhenji Li, China. Professor, College of the Environment and Ecology, Xiamen University

- 6. 10:20-10:40 Nature Guides Imparting Nature Education** -- Anirudh Chaoji, India. Ecologist/Chief Naturalist, Tadoba Andhari Tiger Reserve
- 7. 10:40-11:00 Practice and reflection on ecological protection of human health** -- You Shen, China. Director of Eco-Tourism Research Institute, Sichuan Tourism University
- 8. 11:00-11:20 Top-level Design and Practice Exploration of Nature Education in National Parks – Case study of Qianjiangyuan National Park** -- Yong Yi, China. Director, Nature Education Strategic Planning Center, Fudan Planning Institute; Member, Commission on Education and Communication of IUCN
- 9. 11:20-11:40 The importance of field courses to connect students to Nature in a changing world** -- Cristian Bonacic, Chile. Professor, Department of Ecosystems and Environment, School of Agriculture and Forestry, Pontifical Catholic University of Chile
- 10. 11:40-12:00 Exploring Local Specialties to Advance Nature Education and local community development** -- Dr. Yurong Guo, China. Senior Livestock Engineer; Visiting Professor at Northeast Forestry University; Nature Education Instructor in China Hengdaohezi Felid Breeding Center

12:00-13:30 Lunch and Rest

Chaired by Anirudh Chaoji, Ecologist/Chief Naturalist, Tadoba Andhari Tiger Reserve, India

- 11. 13:30-13:50 Field experiences of exploring nature education in the African wilderness** -- Qiang Zhuo Member, IUCN WCPA; Founder/Chairman, Mara Conservation Fund, China
- 12. 13:50-14:10 A Hiking Management System for Supporting Eco-Security in Protected Areas: Lessons From Mount Merbabu National Park, Indonesia** -- Nurpana Sulaksono, Indonesia. Manager, Mount Merbabu National Park, Ministry of Environment and Forestry (*Online*)
- 13. 14:10-14:30 Nature education under popular science and aesthetic vision** -- Yingbao Sun, China. Painter, Institute of Botany, Chinese Academy of Sciences
- 14. 14:30-14:50 Environmental resistance and entrepreneurial pathways towards conservation in the Romanian countryside** -- Bruno Ferreira, USA. Assistant Professor, Arizona State University
- 15. 14:50-15:10 The Application of Natural Notes in Environmental Education** -- Chuchu Xiao, China. Lecturer, College of Tropical Agriculture and Forestry, Hainan University

15:10-15:30 Tea break

Chaired by Yi Yong, China. Director, Nature Education Strategic Planning Center, Ecological Branch of Fudan Planning Institute

- 16. 15:30-15:50 Establish a natural education system in universities to cultivate a sense of a shared human destiny among college students** -- Zhe Zhang, China. Lecturer, College of Tropical Agriculture and Forestry, Hainan University
- 17. 15:50-16:10 Behind the Inspired Nature Education is the Active Participating Learners** -- Li Deng, China. Chengdu Zhiran Small House Nature School
- 18. 16:10-16:30 Wisdom and Solutions to China's ecological security problems** -- Zizheng Liu, China. College student, Chongqing Yitong College
- 19. 16:30-17:00 Discuss the recommendations of International Forum on Nature Education**

V. ESSAP · International Forum on Species

Theme: How can species research and conservation provide scientific support for ESSAP, and describe the close relationship between species conservation and NESS.

Chair: Yan Xie, China. President, IUCN SSC China Species Specialist Group

Sponsor: IUCN SSC China Species Specialist Group

Co-sponsor: Shenzhen University; Institute of Zoology, Chinese Academy of Sciences

Secretary General: Haichao Zhou, Associate Professor, College of Life and Marine Sciences, Shenzhen University

Time: 29th Oct 08:30-17:30

Meeting venue: Hexie Hall (3F)

Online (NESS Congress Room 1): <https://meeting.tencent.com/dw/wr8b2W1OBvaA>

#TencentMeeting: 628-7422-7193

Chaired by John MacKinnon, UK. Advisory Committee Member, International Alliance of Protected Areas

- 1. 08:30-08:40 Speech and Theme Explanation** -- Yan Xie, President, IUCN SSC China Species Specialist Group, China
- 2. 08:40-09:00 Working to Conserve Fungi, Essential Components of the ESSAP, for Future Generations** -- Gregory Mueller, USA. Chair, IUCN SSC Fungal Conservation Committee;

Chief Scientist Emeritus, Chicago Botanic Garden (*Online*)

3. **09:00-09:20 Conserving Freshwater Ecosystems – Insights from Freshwater Crustaceans** -- Keith Crandall, USA. Director, Computational Biology Institute, The George Washington University; Chair, IUCN SSC Freshwater Crustacean Specialist Group (*Online*)
4. **09:20-09:40 Honduran Mammal Conservation: An Approach on Threatened Species in Protected Areas** -- Manfredo A. Turcios-Casco, Honduras. Laboratorio de Etnoconservação e Áreas Protegidas, Universidade Estadual de Santa Cruz, Brazil; Asociación para la Sostenibilidad e Investigación Científica en Honduras (ASICH), Tegucigalpa (*Online*)
5. **09:40-10:00 The fundamental role of freshwater species and ecosystems in ESSAP** -- Topiltzin Contreras MacBeath, Mexico. Co-Chair - IUCN SSC Freshwater Conservation Committee 2021-2025; Fulltime Researcher, Centro de Investigaciones Biologicas UAEM, Mexico (*Online*)

10:00-10:20 Tea break

Chaired by KWAN KIT YUE, Malaysia. Professor & Vice Dean of College of Marine Sciences, Beibu Gulf University, China

6. **10:20-10:40 Rice and Amphibians in Northeast Asia: Shifts in Rice Consumption and Climate Change Impact Amphibian Biodiversity and Mankind** -- Amael Borzee, Co-Chair, IUCN SSC Amphibian Specialist Group; Professor, Nanjing Forestry University
7. **10:40-11:00 The Story of Mangrove Wetland Ecological Conservation and Intense Urbanization: A Case Study of Shenzhen in Greater Bay Area** -- Haichao Zhou, China. Associate Professor, College of Life and Marine Sciences, Shenzhen University
8. **11:00-11:20 Marine Ecosystem Security Assessment of Odisha Coast of Bay of Bengal, India for Conservation of Horseshoe Crabs** -- Alok Prasad Das, India. Assistant Professor, Department of Life Sciences, Rama Devi Women's University (*Online*)
9. **11:20-11:40 Role of Teak Plantations in Carbon Sequestration and Rural Economy: Case Study of Kirila Forest Reserve, South Sudan** -- Meta Francis Justine Sindani, South Sudan. Forest Officer, Ministry of Environment and Forestry
10. **11:40-12:00 Balancing Ungulate Wildlife and Livestock in Sanjiangyuan National Park** -
- Xinquan Zhao, China. Director/Researcher, State Key Laboratory of Plateau Ecology and Agriculture, Qinghai University

12:00-13:30 Lunch and Rest

Chaired by Amael Borzee, Co-Chair, IUCN SSC Amphibian Specialist Group

11. **13:30-13:50 Species Richness and Relative Abundance of Small Mammals in the Guassa-Menz Community Conservation Area, Ethiopia** -- Abraham Birara Desalegn, Ethiopian.

PhD fellow, Rodent ecology & taxonomy, Sokoine University of Agriculture, Morogoro, Tanzania (*Online*)

- 12. 13:50-14:10 Rethinking Conservation Strategies in the Face of Climate Change Challenges for Vertebrates in Terrestrial Ecosystems** -- Cristian Bonacic, Chile. Professor, Department of Ecosystems and Environment, School of Agriculture and Forestry, Pontifical Catholic University of Chile
- 13. 14:10-14:30 Monitoring the Health of Ecosystems** --John MacKinnon, UK. Advisory Committee Member, International Alliance of Protected Areas
- 14. 14:30-14:50 How the Survival of Asian Horseshoe Crabs Supports Ecological Security and Sustainable Development in China: Baseline Gaps and Future Prospects** -- KWAN KIT YUE, Malaysia. Professor, Vice Dean of College of Marine Sciences, Beibu Gulf University, China
- 15. 14:50-15:10 Role of Indigenous Peoples and Local Community Conserved Territories and Areas (ICCAs) in Conserving Endangered Plant and Animal Species in Benin Republic (West Africa)** -- Maximin K. Djondo, Benin. Water Science & Engineering Department, IHE Delft Institute for Water Education, Netherlands; Department of Environmental Sciences, Wageningen University and Research; Benin Environment and Education Society (BEES NGO) (*Online*)

15:10-15:30 Tea break

Chaired by Haichao Zhou, Associate Professor, College of Life and Marine Sciences, Shenzhen University

- 16. 15:30-15:50 Human-wildlife conflicts over access to biological resources in protected areas: the case of *Nymphaea lotus* (Water lily) in Djoudj National Bird Park (PNOD) and its periphery, Senegal** -- Serigne Modou SARR, Senegal. Lecturer/Researcher, Director, Institut Supérieur de Formation Agricole et Rurale (ISFAR), Université Alioune Diop de Bambey (*Online*)
- 17. 15:50-16:10 What kind of animals are worth protecting? Pretty? cute? or something else?** -- Bo Cai, China. Engineer, Chengdu Institute of Biology, Chinese Academy of Sciences
- 18. 16:10-16:30 Extreme Climatic Events: an Emergent Threat Compounding Human Pressures on Biodiversity** -- Eric Isai Ameca Y Juarez, Mexico. Prof. Division of Biological Sciences, University of Veracruz
- 19. 16:30-16:50 Periodic Assessment of the Impact of Climate Change on Populations in Ili Pika (*Ochotona ilienses*)** -- Weidong Li, Chief Director & Associate Research Professor, Nature Ecological Conservation Service Studio
- 20. 16:50-17:20 Discuss the recommendations of International Forum on Species**

VI. ESSAP · International Forum on International Students

Theme: How can young international students support the NESS research and development for their own countries

Chair: Jichao Wang, Director & Professor, College of Life Sciences, Hainan Normal University

Sponsor: College of Life Sciences, Hainan Normal University

Co-sponsor: Hainan Zoological Society, Hainan Sea Turtle Conservation Research Center

Secretary General: Meiling Hong, Professor, College of Life Sciences, Hainan Normal University

Deputy Secretary General: Liu Lin, Associate Professor, College of Life Sciences, Hainan Normal University

Dates: 30th Oct 08:30-12:00

Meeting venue: Hexie Hall (3F)

Online (NESS Congress Room 1): <https://meeting.tencent.com/dw/wr8b2W1OBvaA>

#TencentMeeting: 628-7422-7193

Chaired by Meiling Hong, China. Professor, College of Life Sciences, Hainan Normal University

Muhammad Shahid Iqbal, Pakistan, Post-Doctor, College of Life Sciences, Hainan Normal University

- 1. 08:30-08:40 Speech and Theme Explanation** -- Jichao Wang, China. Director & Professor, College of Life Sciences, Hainan Normal University
- 2. 08:40-09:40 NESS lights up hearts, lights up the earth, lights up every country in the world — Interaction among countries in the world**

09:40-10:00 Tea break

- 3. 10:00-11:00 Dialogue between international students and experts**
- 4. 11:00-12:00 Speeches from international student representatives** (1 representative from each 10 countries, each 6 minutes, 60 minutes in total)
- 5. 12:00-12:20 Discuss the recommendations of Forum on International Students**

12:00-13:30 Lunch and Rest

VII. Close Ceremony

Theme: NESS lights up hearts, lights up the earth and lights up every country in the world

Time: 30th Oct 13:30-17:00

Meeting venue: Hexie Hall (3F)

Online (NESS Congress Room 1): <https://meeting.tencent.com/dw/wr8b2W1OBvaA>

#TencentMeeting: 628-7422-7193

Chaired by Mingxun Ren, China. Vice President and Professor, School of Ecology and Environment, Hainan University

- 1. 13:30-14:20 Sub-forums for summaries, initiatives, and future plans** (5 sub-forums, each 10 minutes, 50 minutes in total)
- 2. 14:20-15:20 The NESS International Science Network issues certificates to NESS Contact Persons and discuss how NESS research and development shall be promoted at a national scale**

15:20-15:40 Tea break

- 3. 15:40-16:00 Questions, communications and discussions**
- 4. 16:00-16:10 Video pieces during the congress**
- 5. 16:10-16:30 Conclusions of NESS International Science Network**
- 6. 16:30-17:00 Leaders declare the close of the congress and free communication**

VIII. Field trip to Hainan Rainforest National Park

Departure from the hotel on the morning of October 31st.

Field trip in Wuzhishan, tour along Wuzhishan Tropical Rain Forest Trail

Night: Yatai Rainforest Hotel (Some participants return to Haikou in the evening)

Departure to Diaoluoshan, tour along Diaoluosh Lowland Rain Forest Trail

Return to Haikou after lunch on November 1st

4. Logistic Instruction

Contacts in Haikou: Ming-Xun Ren

Email: renmx@hainanu.edu.cn; cell phone: 18976552618

Hotel: International Academic Exchange Center, Hainan University

Hotel name in Chinese: 海南大学国际学术交流中心酒店

Hotel Address: No. 58, Renmin Avenue, Meilan District, Haikou City, Hainan Province.

酒店地址: 海口美兰区人民大道 58 号

Hotel phone: 0898-66736666

Place for all meals: Buffet Room on the first floor

Meeting rooms: third floor

1. Meeting time and registration

The 2nd NESS International Science Congress will be held during 27th-31st October 2023 (Offline Registration on the morning of 27th October, the congress from 27th October to 30th October, the field investigation on 31st October).

Registration will start at 10:00am and end at 1:00pm on 27th October, 2023 at the registration desk in the lobby of the International Academic Exchange Center located at the east gate of Hainan University.

2. Congress Agenda Outline (The meeting period is 08:30-12:00; 13:30-17:30.)

Activities	Dates (27~31 Oct. Fri~Tue)
Offline participant registration	Morning of 27 th (Hotel Lobby)
Opening ceremony	Afternoon of 27 th (Hexie Hall)
International Forum on Protected Areas & IAPA Annual Meeting	Full day of 28 th (Hexie Hall)
International Forum on Law Science	Full day of 28 th (Heyi Room)
International Forum on Nature Education	Full day of 29 th (Heyi Room)

International Forum on Species	Full day of 29 th (Hexie Hall)
International Forum on International Students	Morning of 30 th (Hexie Hall)
Closing ceremony	Afternoon of 30 th (Hexie Hall)
Field investigation to Hainan Tropical Rainforest National Park	Full day of 31 st or including Morning of November 1 st
Free communication	Evenings of 27, 28 and 29 Oct.

3. Meeting venue

All meeting rooms are located at the 3rd floor of **International Academic Exchange Center, Hainan University**. There are two meeting rooms: Hexie Hall (3F), Heyi Room (3F). Details of the rooms are listed in the above congress agenda outline.

4. Transportation

(There isn't arranged picking up from the airport. Please take taxi to go to hotel)

From Meilan International Airport to the meeting venue:

- (1) By taxi: the whole trip is about 23 kilometers and will take about 38 minutes with price about 50 RMB.
- (2) By Airport Bus: Airport 3/Airport 2 → 44/41 or Airport Bus 1 → 44/41 to International Academic Exchange Center, Hainan University, the whole trip will take 1 hour and 48 minutes.

From Haikou East Railway Station to the meeting venue:

- (1) By taxi: the whole trip is about 12 kilometers and will take 20 minutes with price about 30 RMB.
- (2) By bus: Bus Line 44/41/G90 to International Academic Exchange Center, Hainan University, the whole trip will take 1 hour.

From Haikou Railway Station to the meeting venue:

- (1) By taxi: the whole trip is about 27 kilometers and will take 35 minutes.
- (2) By bus: Bus Line G37 → Line 41 to International Academic Exchange Center, Hainan University, the whole trip will take 1 hour and 55 minutes.

5. Whether and clothes

Haikou is located in the tropical region. During the congress the average temperature would be about 25°C during daytime. It would be rainy and cloudy, but still need to pay attention to sun protection. It is recommended to wear a shirt, long pants, and a thin coat, and carry an umbrella with you.

6. Power supply

The sockets in the venue and guest rooms are 220V, 50Hz AC (with the following socket shape).

Please prepare corresponding conversion plugs for foreign attendees.

7. Converting RMB

In China, only RMB can be used. USD to RMB: 1 USD ≈ 7.2555 RMB (exchange rate updated on September 1, 2023). At the airport, hotel, and nearby banks (located at the Haikou Haidian Branch of Bank of China, which is 774 meters away from the hotel, approximately 11 minutes' walk), you could need to bring your passport for exchanging money.



8. Other information:

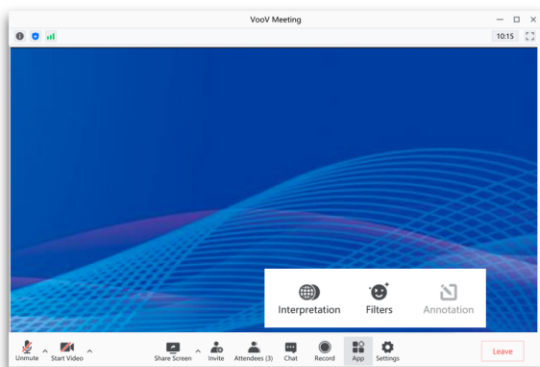
The speakers should provide PPTs to Guanghui Ma before the 24th, and PPT should provide it to the simultaneous translation for accurate translation;

Please attend the meetings on time, and keep the mobile phone silent during the meeting;

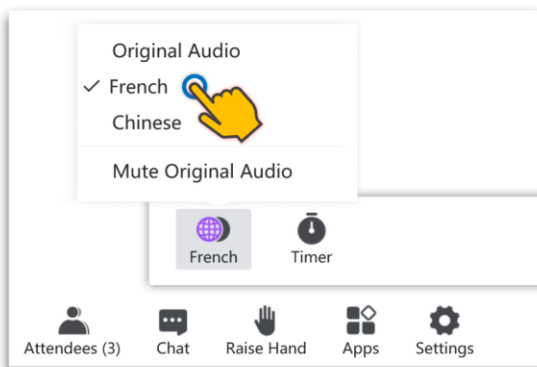
If the participants need to listen to the simultaneous translation, please use your mobile phone to access the online VooV Meeting room, choose the appropriate language, listen to the earphone, and always turn off the microphone to reduce the interference to the venue.

How to choose the channel of interpretation correctly?

Please choose the appropriate channel of language and the interpreters will speak in the Audio channels !



Please Click App > Interpretation and choose a channel !



For example , choose French if you need, at the same time choose Mute Original Audio !