

# The 4<sup>th</sup> Xishuangbanna International Symposium

## Saving All the Plants in a Changing World

3-5 January 2019  
Xishuangbanna China

### The Symposium

The Xishuangbanna International Symposium, held every five years, aims to bring together leading scientists to present cutting-edge research, address current debates, and assess future directions for research and action on biodiversity conservation and botanical gardens.

The 4th Xishuangbanna International Symposium, to be held on 3-5th January 2019, will feature the major theme: “Saving all the plants in a changing world”. The ultimate aims of the Symposium are to provide some of the solutions for saving plant diversity and to assess how botanical gardens can play a key role in plant conservation. In order to achieve this, we will review the frontiers of conservation science, the development of institutional policy, the educational role of botanical gardens, and the current progress in plant conservation.

# Second Announcement



**Hosted by**  
**Xishuangbanna Tropical Botanical Garden,**  
**Chinese Academy of Sciences**



The 4th Xishuangbanna International Symposium, to be held on 3-5th January 2019, will feature the major theme: “ Saving all the plants in a changing world ” .The symposium program will include six major sessions, each featuring two keynote speakers. We also invite participants to display posters during the symposium.

The Academic and Organizing Committees warmly invite you to participate in the 4th Xishuangbanna International Symposium — Saving All the Plants in a Changing World, and also encourage you to forward our invitation to other people who may be interested.

## Basic Information

### Theme

Saving All the Plants in a Changing World

### General Topics

1. Frontiers in conservation science.
2. Post-2020 Global Strategy for Plant Conservation (GSPC): national and regional partnerships.
3. China’s Belt & Road Initiative: opportunities for botanical garden partnerships.
4. Conservation and climate change.
5. Education for plant conservation.
6. Plant evolution and conservation: insights from genomics.

### Language

English

### Location

Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences

### Participants

We expect about 100 registered participants, including plant conservationists, other scientists, decision makers and governmental officials, conservation practitioners

from NGOs, and graduate students.

## Academic Committee

### Chairman:

**Richard CORLETT**, Xishuangbanna Tropical Botanical Garden, CAS, China

### Members:

<b>Dezhu LI</b>	Kunming Branch, CAS, China
<b>Jin CHEN</b>	Xishuangbanna Tropical Botanical Garden, CAS, China
<b>Xiaoquan WANG</b>	Institute of Botany, CAS, China
<b>Quanfa ZHANG</b>	Wuhan Botanical Garden, CAS, China
<b>Hai REN</b>	South China Botanical Garden, CAS, China
<b>Hang SUN</b>	Kunming Institute of Botany, CAS, China
<b>Yonggang YAO</b>	Kunming Institute of Zoology, CAS, China

## Organizing Committee

### Chairman:

**Jin CHEN** Xishuangbanna Tropical Botanical Garden, CAS, China

### Members:

<b>Huabin HU</b>	Xishuangbanna Tropical Botanical Garden, CAS, China
<b>Diqiu YU</b>	Xishuangbanna Tropical Botanical Garden, CAS, China
<b>Zengfu XU</b>	Xishuangbanna Tropical Botanical Garden, CAS, China
<b>Richard CORLETT</b> ,	Xishuangbanna Tropical Botanical Garden, CAS, China
<b>Jiaolin ZHANG</b>	Xishuangbanna Tropical Botanical Garden, CAS, China
<b>Jianghua CHEN</b>	Xishuangbanna Tropical Botanical Garden, CAS, China

# Conference Reports

**Keynote lectures** (by invitation): 50 minutes, including discussion time.

**Posters**: Posters must first be submitted to the conference secretariat in electronic form (file size < 20MB), indicating the title, author(s) and affiliation. For display during the symposium, the author should make a paper version with dimensions **120 cm (height) x 90 cm (width)**.

## Plenary speakers



**Peter Wyse Jackson**

**Missouri Botanical Garden**

**Title: The Global Strategy for Plant Conservation as an effective framework for plant conservation up to and beyond 2020**

Dr. Wyse Jackson served for many years as Secretary-General of Botanic Gardens Conservation International, a global network of botanical gardens dedicated to conservation and biodiversity issues. In 2005 he was appointed Director of the Irish National Botanic Gardens in Glasnevin, Dublin, and then in 2010 he succeeded Dr. Peter Raven as President of the Missouri Botanical Garden in St. Louis, Missouri. Concurrently with his selection as President of the Missouri Botanical Garden, he was named the George Engelmann Professor of Botany at Washington University in St. Louis.

**Paul Smith**

**Botanic Gardens Conservation International**

**Title: Can botanic gardens conserve all of the world's rare and threatened plant species?**



Paul Smith is the current Secretary General of Botanic Gardens Conservation

International. With a career spanning 25 years working in conservation, Paul joined BGCI as Secretary General in March 2015. He is the former Head of Kew's Millennium Seed Bank (MSB) and, during his nine years at the helm, seeds from more than 25,000 plant species were conserved there. Paul has promoted the concept of seed banks as a resource for human innovation, adaptation and resilience, and, today, seeds from the MSB and its partner seed banks are being used in agriculture, horticulture, forestry and habitat restoration.



## **Pete Hollingsworth**

**Royal Botanic Garden Edinburgh**

**Title: Plant genetics, plant genomics and plant conservation**

Prof. Pete Hollingsworth is Deputy Keeper and Director of Science at the Royal Botanic Garden Edinburgh, a Visiting Professor at the University of Edinburgh and University of Johannesburg, and an Honorary Professor of the Chinese Academy of Sciences. He has extensive experience in managing large scale scientific projects focusing on understanding and conserving plant diversity. He has a particular interest in the translation of multiple complex data sets into practical and useable guidelines. His focus is on the natural environment and amenity/garden horticulture.

## **Valerie Pence**

**Cincinnati Zoo & Botanical Garden**

**Title: The Need for Cryopreservation in Conserving Seeds and Vegetative Plant Tissues**



Dr. Valerie Pence is the Director of Plant Research at the Center for Conservation and Research of Endangered Wildlife (CREW) at the Cincinnati Zoo and Botanical Garden, and an Adjunct Research Associate Professor at the University of Cincinnati. Dr. Pence is an expert in plant tissue culture, micropropagation, cryopreservation, and in vitro techniques. Her lab focuses on developing, adapting, and applying new techniques in plant science to the conservation of endangered plants. She has received

the Wilson Popenoe Award from the American Society of Horticultural Science and the Association of Zoological Horticulture Conservation Award.



## **Chuck Cannon**

**The Morton Arboretum**

**Title: The potential for interspecific gene flow to assist plant adaptation and conservation in the Anthropocene**

Dr. Chuck Cannon, Director of the Center for Tree Science at the Morton Arboretum, brings a broad perspective on forests and all of the things that live in them. While his work has encompassed a wide range of topics, his focus has always been on the evolution and conservation of tree diversity. With his position at the Morton Arboretum and his previous experience as a Professor of Ecological Evolution at the Xishuangbanna Tropical Botanical Garden, he has become increasingly interested in the biology and behavior of individual trees and the unique access that living collections provide to researchers. His work has taken him to over a dozen countries and involved a wide range of scientific endeavors, from new species discovery to creating forest management policy. He leads the tree scientists at the Arboretum and connects and motivates a large network of global collaborators in the shaping and expansion of our knowledge of trees and forests around the world.

## **Sam Brockington**

**University of Cambridge**

**Title: Rational Collection Strategies: From the Global Botanic Garden Network to the Individual**



Dr. Samuel Brockington is the Curator of the Cambridge University Botanic Gardens and a Lecturer in the Department of Plant Sciences at the University of Cambridge. His research focuses on the evolution of many aspects of land plants and he is particularly interested in the genomic basis of organismal and trait diversity. He gained a PhD at the Florida Museum of Natural History, and returned to Cambridge as a Marie Curie Fellow and subsequently as a NERC Independent Research Fellow. Since establishing his own research group in 2014, he has focused on two research

topics. The first, tackles the evolution of the cuticle, a thin waxy layer that covers the epidermal surface of all land plants, and an essential innovation that allowed the green algae to colonize the land a land plants. The second is a genome sequencing initiative funded by the National Science Foundation. Here, together with collaborators in the USA, he seeks to understand the relationship between genomic diversity and the evolution of extreme adaptation in the plant order Caryophyllales.



## **Rakan ('Zak') Zahawi**

**Lyon Botanical Garden**

**Title: The role of restoration in saving plant diversity; from botanical gardens to the landscape-level**

Dr. Rakan ( 'Zak' ) Zahawi is the Director of the Lyon Botanical Garden, which is a research unit of the University of Hawai'i at Mānoa. He was previously Director of the large and very active Las Cruces Biological Station and Wilson Botanical Garden in Costa Rica. He is a tropical ecologist whose research has focused primarily on designing and evaluating cost-effective strategies for promoting or accelerating forest restoration in degraded habitats, especially in the tropics. He has conducted both observational and experimental research and established projects with collaborators and students from multiple institutions. In 2017, he and his main collaborator received the Society for Ecological Restoration's Theodore M. Sperry Award, given to scientists who have made a significant contribution to advancing restoration science and practice.

## **Jinghua Cao**

**Bureau of International Cooperation, CAS**

**Title: Supporting the Belt and Road Initiative via science and technology cooperation and achieving the goal of common development**



Dr. Cao is the Director of the Bureau of International Cooperation, CAS. Dr. Jinghua Cao received a Bachelor's degree in the Department of English, Beijing Foreign



Languages Institute, in 1982; a Master's degree in the School of Social Sciences, City College of New York, USA, in the field of Management of Economics, in 1987. As Director General of the International Cooperation Bureau of CAS, Dr. Cao has devoted tremendous effort into promoting science and technology cooperation between CAS institutes and overseas organizations, expanding CAS's scientific influence via the program "Innovation 2020", and, in particular, promoting the science and technology cooperation that supports the Belt and Road Initiative.



## **Keping Ma**

**Institute of Botany, CAS**

**Title: On the post-2020 biodiversity conservation framework**

Prof. Keping Ma is one of the Chinese scientists who initiated biodiversity research in China in the early 1990s, and he has himself made massive contributions to Chinese biodiversity conservation research. In collaboration with his colleagues, he initiated the establishment of the Chinese Forest Biodiversity Monitoring Network (CForBio), digitization of specimens in China, setting up of the Chinese Virtual Herbarium (CVH), the Catalogue of Life-China and the Encyclopedia of Life (EOL) Chinese Regional Center. He has attended most of the meetings of the conference of parties (COP) to the Convention on Biological Diversity, its related extra-COPs and SBSTTA meetings, and working group meetings on thematic issues as a scientific advisor to the Chinese delegation. He has also participated in evaluations of many nature reserves and national parks in China and has given lectures and conservation advice to nature reserve managers.

## **Nyi Nyi Kyaw**

**Ministry of Natural Resources and Environmental Conservation, Myanmar**

**Title: T.B.A**



Dr. Nyi Nyi Kyaw is the Director General of the Forest Department, Ministry of

Natural Resources and Environmental Conservation, Republic of the Union of Myanmar. Dr. Nyi Nyi Kyaw received a Bachelor's degree in Forestry from the Institute of Agriculture, Yezin in 1986; a Master's degree in Tropical Forestry from the University of Göttingen, Germany, in 1995; and a PhD in Forestry Science from the same university in 2003. During his professional career, Dr. Nyi Nyi Kyaw has authored many research papers and presented papers on REDD, Forests and Climate Change, as well as supervising Master's and PhD theses.



## Luxiang Lin

Xishuangbanna Tropical Botanical Garden, CAS

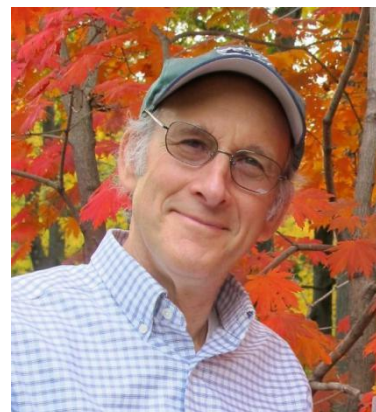
**Title: "XTBG's plot-based biodiversity monitoring system: progress and prospects"**

Professor Luxiang Lin is the leader of the Community Assembly and Species Coexistence Research Group in XTBG. He did his PhD at XTBG and his main research interest is the community ecology of forest. He is a committee member of the Long-Term Ecological Research Specialized Committee of the Ecological Society of China. He has published nearly 20 peer reviewed papers in international journals such as *Ecology Letters*, *Ecology*, *Journal of Ecology* and *Functional Ecology*.

## Richard Primack

Boston University

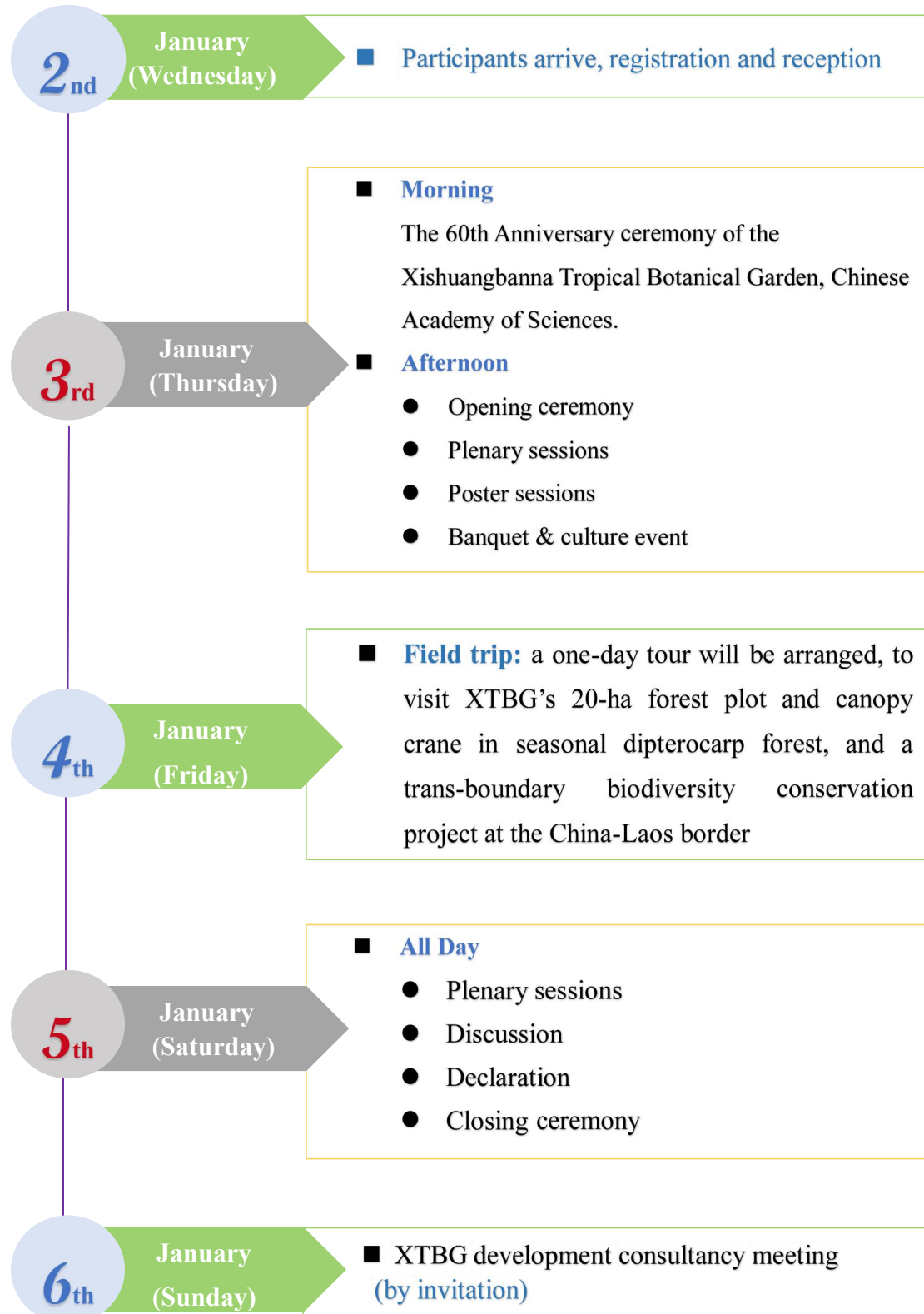
**Title: The role of botanical gardens in climate change research**



Professor Primack is Professor of Biology at Boston University. His research currently focuses on the impacts of climate change on the flowering and leafing out times of plants, the spring arrival and autumn departure of birds, and the flight times of butterflies in Massachusetts. In addition to writing scientific articles, his group

makes a major effort to reach out to a wider audience through public talks, preparing popular articles and web-based materials, and interacting with science journalists. Smithsonian, Popular Science, and National Geographic magazines have each had articles featuring their work. He has also been investigating how rain forests in Malaysian Borneo change over time in species composition and structure, and how selective logging affects these processes.

# Program



# Registration and Fees

## How to Register

1. **Email:** Please return the registration form to: [xtbgsymposium@xtbg.org.cn](mailto:xtbgsymposium@xtbg.org.cn)
2. **Fax:** Please return the registration form to (Fax) +86-691-8715070
3. **Official Website:** <http://xtbgsymposium2019.csp.escience.cn>

## Fees

### There is no registration fee!

But participants must pay for transport to Jinghong Airport in Xishuangbanna, as well as all accommodation.

The day before the conference (January 2nd), the Congress Secretariat will arrange free pick-up services at the airport. Food and beverage costs during the conference will be paid by the organizers, but all expenses incurred outside the conference will be covered by participants themselves.

## Important Days

Issue the first announcement of the meeting; start the registration and abstract submission.

April 1, 2018

Issue the second announcement of the meeting.

October 17, 2018

Registration ends.

October 30, 2018

## Accommodation

The conference accommodation hotel is the Royal Waterlily Hotel. The room price is mainly 380 yuan and 480 yuan. (<http://www.royalwaterlilyhotel.com/> ) . The Congress Secretariat will make a unified housing reservation according to the registration of the participants.



## Contact Information

**Tel.: +86-691-8716935, 8715460**

**Fax: +86-691-8715070**

**Email: [xtbgsymposium@xtbg.org.cn](mailto:xtbgsymposium@xtbg.org.cn)**

**Web: <http://xtbgsymposium2019.csp.escience.cn>**