



International Conference on Biodiversity (IBD2019)

22-24 May 2019

Centara Grand & Bangkok Convention Centre at Central World, Bangkok

*** Conference Program ***

Day 1: Wednesday 22 May 2019

Time	Program
08.00 – 09.00	Registration
09.00 – 10.30	Her Royal Highness Princess Maha Chakri Sirindhorn arrives to the event and graciously presides over the opening ceremony and listens to the keynote speakers
	Keynote Speaker 1:
	Topic: to be announced By Dr. Rachel Warmington Head of the Eden Science Team, United Kingdom (Co-author: Dr. Michael Maunder , Executive Director and Director of Life Sciences, Non-Executive Director of Eden International, United Kingdom)
	Keynote Speaker 2:
10.30 – 11.30	Technical aspects of mine reclamation in the Rhenish Lignite basin and possible ways of biodiversity, bioeconomy and public use By Mr. Arie-Johann Heiertz RWE Technology International, Germany (Co-author: Prof.Dr. Ulrich Schurr , Director of IBG-2 Plant Sciences Forschungszentrum Jülich, Germany)
	Her Royal Highness Princess Maha Chakri Sirindhorn visits the exhibition of IBD2019 (in parallel with participants coffee break during 10.30 – 11.00 and Keynote Forum 1)
Keynote Forum 1 : Sustainable management on biodiversity	
11.00 – 11.30	Biodiversity conservation and management in ASEAN By Dr. Theresa Mundita S. Lim Director of ASEAN Center for Biodiversity, Philippines
11.30 – 12.00	Role of <i>ex situ</i> conservation and wildlife genome banking for conservation By Dr. Pierre Comizzoli Smithsonian Conservation Biology Institute, U.S.A.
12.00 – 13.00	Lunch
Parallel Sessions	
14.00 – 17.00	Special Session
	World Botanical garden and <i>ex situ</i> conservation
	Session 1
	Session 2
	Session 3
	Session 4
	Session 5
	Sustainable management on biodiversity
	BioInnovation from the unseen biodiversity
	Biodiversity and health
	Animal ecology : Vertebrate life in diverse environment
	From biodiversity to natural products for drug discovery
17.00 – 18.00	Poster Session
18.00 – 20.30	Welcome Dinner: International Buffet

Day 2: Thursday 23 May 2019 - Morning

Time	Program		
08.00 – 09.00	Registration		
	Keynote Forum 2 : Hotspots on biodiversity	Special Session (continued)	Session 6
09.00 – 09.30	Sustainable management on biodiversity in Thailand By Prof. Dr. Sanit Aksornkoae Fellow of the Royal Institute, Academy of Science	World Botanical garden and <i>ex situ</i> conservation	Frontiers in taxonomy/ taxonomist
09.30 – 10.00	Biodiversity hotspots in Thailand By Assoc.Prof.Dr. Sukree Hajisamae Prince of Songkla University, Pattani Campus, Thailand		
10.00 – 10.30	Coffee Break		
	Keynote Forum 3 : Biodiversity conservation & climate change	Special Session (continued)	Session 6
10.30 – 11.00	Potential climate change impacts on biodiversity and protected areas in Southeast Asia By Prof.Dr. Richard Corlett Director of Center for Integrative Conservation, Xishuangbanna Tropical Botanical Garden, Chinese Academy of Sciences, P.R. China	World Botanical garden and <i>ex situ</i> conservation	Frontiers in taxonomy/ taxonomist
11.00 – 11.30	Severe coral bleaching and impacts on biodiversity: The 2014-17 global bleaching event and prospects for the future By Dr. C. Mark Eakin Oceanography & Climatology Division, Marine Ecosystems & Climate Branch, NOAA's Coral Reef Watch Program, U.S.A.		
11.30 – 12.00	Long-term research on biodiversity and ecosystem function in tropical forests By Dr. Stuart J. Davies Director of the Center for Tropical Forest Science-Forest Global Earth Observatory Smithsonian Institute, U.S.A.		
12.00 – 13.00	Lunch		

Day 2: Thursday 23 May 2019 - Afternoon

Parallel Sessions							
13.00 – 17.00	Special Session (continued)	Session 6	Session 7	Session 8	Session 9	Session 10	Session 11
	World Botanical garden and <i>ex situ</i> conservation	Frontiers in taxonomy / taxonomist	Habitat-based research (Terrestrial, Freshwater, Marine and others)	Human and wildlife in the Anthropocene	Ecotourism & UNESCO Global Geopark	Ecosystem services and restoration	Impacts of climate change on biodiversity across scales

Day 3: Friday 24 May 2019 - Morning

Time	Program
08.00 – 09.00	Registration
	Keynote Forum 4 : Biodiversity utilization
09.00 – 09.30	Natural product sciences in modern drug discovery and paths to the future By Dr. Frank Petersen Executive Director, Natural Products Unit, Global Discovery Chemistry, Novartis Pharma, Basel, Switzerland
09.30 – 10.00	Saving coral reefs and saving humans lives By Prof.Dr. Bradley S. Moore Scripps Institution of Oceanography, University of California San Diego, U.S.A.
10.00 – 10.30	Coffee Break
	Keynote Forum 5 : Bioeconomy & Innovation
10.30 – 11.00	Transforming Thailand -the shift to a sustainable bioeconomy By Prof.Dr. Morakot Tanticharoen Senior Advisor to the President of National Science and Technology Development Agency, Thailand
11.00 – 11.30	Modelling and prediction for sustainable biodiversity By Dr. Emmanuel Paradis IRD Research Director, Institut des Sciences de l'Evolution de Montpellier, France
11.30 – 12.00	GIS ecosystem mapping and modelling By Prof. Dr. Marco Ciolli Department of Civil Environmental and Mechanical Engineering (DICAM) University of Trento, Italy
12.00 – 13.00	Lunch

Day 3: Friday 24 May 2019 - Afternoon

Time	Program
	Keynote Forum 6 : Ecotourism in a global scale
13.00 – 13.30	UNESCO global geoparks and integrated natural heritage conservation By Prof. Dr. Ibrahim Komoo University of Malaysia Terengganu (UMT) and GGN Executive Board Vice – President, UNESCO Global Geopark Council Vice-Chair, Malaysia
13.30 – 14.00	Geotourism models for poverty alleviation in underprivileged areas By Dr. Young Ng Senior Advisor at Danxiashan UNESCO Global Geopark, Honorary Advisor at Association for Geoconservation, Hong Kong
14.00 – 14.30	Coffee Break
	Keynote Forum 7 : Animal ecology & evolution
14.30 – 15.00	Butterfly vision-another view of our world By Prof. Dr. Kentaro Arikawa Sokendai-Hayama (The Graduate University for Advanced Studies) Department of Evolutionary Studies of Biosystems, Japan
15.00 – 15.30	Non-flying mammal dependent pollination system of Asian <i>Mucuna</i> (Leguminosae) By Dr. Shun Kobayashi Faculty of Science, University of the Ryukyus, Japan
15.30 – 16.00	Closing Ceremony

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Day I: Wednesday 22 May 2019	
Special Session World botanic garden and <i>ex situ</i> conservation	
14.00 – 14.30	Royal Botanic Gardens, Kew: From species discovery to conservation By Dr. Timothy M.A. Utteridge Head of Identification & Naming and Asia Team Leader, Royal Botanic Gardens, Kew, Richmond, UK
14.30 – 15.00	The need for endangered species conservation in the botanical garden of Quito-Ecuador By Mr. Alexander Hirtz Jardin Botanico de Quito, Ecuador
15.00 – 15.30	Coffee Break
15.30 – 16.00	Actual issues of climate changing for the world flora and vegetation By Prof. Leonid V. Averyanov Komarov Botanical Institute of the Russian Academy of Science, Russia
16.00 – 16.30	Role of Chinese Union of Botanical Gardens native plants conservation By Dr. Huabin Hu Deputy Director of Xishuangbanna Tropical Botanical Garden (XTBG), Chinese Academy of Sciences, P.R.China
16.30 – 17.00	The Habitat Penang Hill: a public-private partnership model for managing key protected areas for ecotourism and generating funding for conservation in Malaysia By Mr. Allen Tan Managing Director, Penang Botanic Gardens, Malaysia

Day II: Thursday 23 May 2019	
Special Session World botanic garden and <i>ex situ</i> conservation	
09.00 – 09.30	How much do we know about the plant diversity of Southeast Asia? By Dr. David Middleton Director of research and conservation, Singapore Botanic Gardens, Singapore
09.30 – 10.00	Strategic roles of botanic gardens in conserving threatened plant species: a case of Indonesia By Dr. Didik Widyatmoko Senior Researcher of the Research Center for Plant Conservation and Botanic Gardens, the Indonesian Institute of Sciences (LIPI), Indonesia
10.00 – 10.30	Science and conservation at the Royal Botanic Garden Edinburgh By Prof. Pete Hollingsworth Director of Science and Deputy Keeper, Royal Botanic Garden Edinburgh, UK
10.30 – 11.00	Coffee Break

Day II: Thursday 23 May 2019	
Special Session World botanic garden and <i>ex situ</i> conservation	
11.00 – 11.30	Rescuing the endangered tropical plants By Prof. Li Chia-wei Department of Life Science, National Tsing Hua University, Taiwan
11.30 – 12.00	The UBD Botanical Research Centre: Collecting, mapping, describing, growing and protecting the Brunei flora By Assoc. Prof. Dr. Johan Willem Frederik Slik the UBD Herbarium, Faculty of Science, Universiti Brunei Darussalam, Brunei Darussalam
12.00 – 13.00	Lunch
13.00 – 13.30	Topic to be announced By Mr. Samoeun Sothyroth Meng Monyrak Sub Chief Office Department of Biodiversity, General Secretariat of National Council for Sustainable Development, Ministry of Environment, Cambodia
13.30 – 14.00	Pha Tad Ke Botanical Garden, <i>in</i> and <i>ex situ</i> Lao PDR By Mr. Rik Gadella Director, Pha Tad Ke Botanical Garden, Lao PDR
14.00 – 14.30	Coffee Break
14.30 – 15.00	The Role of Botanical Gardens in the Philippines in biodiversity conservation By Assist. Prof. Dr. Esperanza Maribel G. Agoo Biology Department De La Salle University, The Philippines
15.00 – 15.30	Conservation of threatened plant species in Vietnam By Assoc. Prof. Dr. Hoang Van Sam Vietnam National University of Forestry, Vietnam
15.30 – 16.00	Biodiversity in the Anthropocene - a historical perspective By Prof. Henrik Balslev Department of Bioscience Ecoinformatics and Biodiversity, Aarhus University, Denmark

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Wednesday 22 May 2019	
Parallel Session 1	
Sustainable management on biodiversity	
Chair:	Dr. Padermsak Jarayabhand, Committee member of the National Biodiversity Committee, Thailand
Co-Chair:	Dr. Vithet Srinetr, National Expert on Biodiversity Conservation, Thailand
14.00 - 14.10	Message from Executive Secretary of the Convention on Biological Diversity on International Day for Biodiversity (IBD 2019) (Video presentation)
14.10 - 14.40	Thailand's national biodiversity management toward post 2020 agenda By Dr. Phirun Saiyasitpanich, Deputy Secretary General, Office of Natural Resources and Environment Policy and Planning, Thailand
14.40 - 15.10	Conservation and sustainable management of biodiversity: Post-2020 agenda By Dr. Scott Perkin, Head, Natural Resources Group, IUCN Asia Regional Office, Thailand
15.10 - 15.30	Coffee Break
15.30 - 16.00	Private sector's perspective on biodiversity management By Mr. Mongkon Ponchunchoovong, Director of Mineral Resources and Mining Services, Siam Cement Group Public Company Limited, Thailand
16.00 - 16.30	Media role in conservation and sustainable use of biodiversity By Dr. Yannick Kuehl, Senior Director, Programs and Explorer Development, National Geographic Society, Asia-Pacific
16.30 - 17.00	Youth voices for biodiversity By Ms. Mika Mei Jia Tan Coordinator, ASEAN Youth Biodiversity Program, ASEAN Centre for Biodiversity, The Philippines

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Wednesday 22 May 2019	
Parallel Session 2	
BioInnovation from the unseen biodiversity	
Chair:	Dr. Lily Eurwilaichitr , Vice President of NSTDA and Director of Thailand Bioresource Research Center (TBRC), Thailand
Co-Chair:	TBA
Part I : Discovering and managing the unseen biodiversity	
14.00 - 14.30	Where are the missing fungi and microbes? By Prof. Dr. Lei Cai Institute of Microbiology Chinese Academy of Sciences (IMCAS), P.R. China
14.30 - 14.50	Culture collection: managing the unseen biodiversity By Dr. Phillipe Desmeth Belgian Co-ordinated Collections of Micro-organisms (BCCM), Belgium
14.50 - 15.10	Microbial diversity-an undertapped industrial resource By Prof. Dr. Saisamorn Lumyong Chiang Mai University, Thailand
15.10 - 15.30	Hidden Diversity of Insect Fungi and Their Interaction with Insects By Dr. Noppol Kobmoo National Center for Genetic Engineering and Biotechnology (BIOTEC), Thailand
15.30 - 15.50	Coffee Break
Part II : Unlimited potential of biodiversity	
15.50 - 16.20	Bio-conversion technology of chemical production from biomass By Dr. Hiroyuki Inoue National Institute of Advanced Industrial Science and Technology (AIST), Japan
16.20 - 16.40	From biodiversity to microbial-based products for bioremediation By Assoc. Prof. Dr. Onruthai Pinyakong Chulalongkorn University, Thailand
16.40 - 17.00	Microbial enzymes: tools for biotechnological Processes By Dr. Thidarat Nimchua National Center for Genetic Engineering and Biotechnology (BIOTEC), Thailand

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Wednesday 22 May 2019	
Parallel Session 3 Biodiversity and health	
Chair:	Dr. Wanlaya Tipkantha, The Zoological Park Organization, Thailand
Co-Chair:	Dr. Boripat Siriaroonrat, The National Science Museum, Thailand
14.00 – 14.30	Biodiversity and health: linking life, ecosystems and societies By Dr. Serge Morand Faculty of Veterinary Technology, Kasetsart University, Thailand
14.30 – 15.00	Wildlife reintroduction for biodiversity and conservation By Dr. Parntep Ratanakorn Faculty of Veterinary Medicine, Mahidol University, Thailand
15.00 - 15.30	Biodiversity loss linked to emerging wildlife diseases By Dr. Katie Richgels National Wildlife Health Center, USGS ,U.S.A.
15.30 – 15.50	Coffee Break
15.50 - 16.20	Integration of biodiversity conservation in the health sector By Dr. Theresa Mundita ASEAN Centre for Biodiversity, The Philippines
16.20 - 16.40	Marine debris and microplastics: Impact on biodiversity and health By Dr. Suchana Chavanich Faculty of Science, Chulalongkorn University, Thailand
16.40 - 17.00	Reproductive biotechnology for biodiversity preserving By Dr. Pierre Comizzoli Smithsonian Conservation Biology Institute, U.S.A.

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Wednesday 22 May 2019	
Parallel Session 4	
Animal ecology : Vertebrate life in diverse environment	
Chair:	Assist. Prof. Dr. Noppadon Kitana, Chulalongkorn University, Thailand
Co-Chair:	Assist. Prof. Dr. Wichase Khonsue, Chulalongkorn University, Thailand
14.00 – 14.30	Comparative study on breeding ecology and life history in Japanese salamanders By Assoc. Prof. Dr. Kanto Nishikawa Kyoto University, Japan
14.30 - 14.50	Effect of environmental factors on edible burrowing frogs in northeast Thailand By Assist. Prof. Dr. Komsorn Lauprasert Mahasarakham University, Thailand
14.50 - 15.10	Using ecological niche modeling to study distribution of lizards in highland of the Sunda Shelf By Dr. Panupong Thammachoti Chulalongkorn University, Thailand
15.10 – 15.30	Coffee Break
15.30 - 16.00	How stone tool use behavior emerged in long-tailed macaques. environment or genetics? By Prof. Dr. Suchinda Malaivijitnond Chulalongkorn University, Thailand
16.00 - 16.20	Ecosystem services of insectivorous bats in Southeast Asia By Assist. Prof. Dr. Sara Bumrungsri Prince of Songkla University, Thailand
16.20 - 16.40	Reproductive phenology of tropical bats – it is all about the strategies to maximize survivability By Dr. Nurul 'Ain Elias Universiti Sains Malaysia, Malaysia
16.40 - 17.00	First record and range extension of the flying squirrel, <i>Petinomys setosus</i> (Rodentia. Sciuridae. Pteromyini), from Lao PDR By Mr. Daosavanh Sanamxay National University of Laos, Lao PDR

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Wednesday 22 May 2019	
Parallel Session 5	
From biodiversity to natural products for drug discovery	
Chair:	Dr. Monthaka Teerachaisakul, Department of Thai Traditional and Alternative Medicine, Thailand
Co-Chair:	Dr. Paripok Phitsuwan
Part I : Biodiversity	
14.00 – 14.30	Thailand's fungal diversity and applies potential By Emeritus Prof. Dr. Kevin David Hyde Mae Fah Luang University, Thailand
14.30 – 14.50	Transforming <i>in-situ</i> biodiversity observation into digital atlas and conservation implication in Thailand By Prof. Dr. Yongyut Trisurat Kasetsart University, Thailand
15.00 – 15.30	Diversity of yeasts in the surface of rice leaves and biocontrol activity against fungal pathogens of rice" By Prof. Dr. Savitree Limtong Kasetsart University, Thailand
15.30 – 15.45	Coffee Break
Part II: Natural Products	
15.45 – 16.15	Translational research of selected plants in Zingiberaceae By Prof. Dr. Bungorn Sripanidkulchai Khon Kaen University, Thailand
16.15 – 16.45	Plant-derived natural products as source materials for commercial utilization By Prof. Dr. Supayang P. Voravuthikunchai Prince of Songkla University, Thailand
16.45 – 17.15	Identification of potential drug candidates from plants and microorganisms in Thailand By Assoc. Prof. Dr. Chatchai Muanprasat Mahidol University, Thailand

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Thursday 23 May 2019	
Parallel Session 6 Frontiers in taxonomy/taxonomist <i>In the light of reliable taxonomy, biodiversity conservation and bio-economics can aid human prosperity</i>	
Chair:	Prof. Dr. Somsak Panha, Chulalongkorn university, Thailand
Co-Chair:	Prof. Dr. Pranom Chantaranothai, Khon Kaen University, Thailand
08.30 - 08.50	Opening Objective and session sequence...Thai taxonomist survey, what for?? By Prof. Dr. Somsak Panha Chulalongkorn university, Thailand Dr. Ueangfa Bantaowong Rajamangala University of Technology Thanyaburi, Thailand
08.50 - 09.30	Keynote talk Integrative taxonomy for earthworm biodiversity detection, conservation and applications to human-managed ecosystems By Prof. Dr. Samuel James Maharishi University of Management, Iowa, U.S.A
The Natural History Collections : What & How do we know about it?	
09.30 - 10.00	Natural history collections: Why are they so important? By Mr. Jonathan Ablett Department of Life Sciences, Natural History Museum, London, United Kingdom
Flora of Thailand	
10.00 - 10.30	Why Flora of Thailand...How far we have reached?? By Prof. Dr. Pranom Chantaranothai Khon Kaen University, Thailand
10.30 - 10.45	Coffee Break
From Basic Taxonomy to molecular evolution	
10.45 - 11.15	Taxonomic study of Olethreutine moths (Lepidoptera: Tortricidae) in Thailand and new discoveries in last two decades By Assoc. Prof. Dr. Nantasak Pinkaew Kasetsart University Kamphaeng Saen Campus, Thailand
11.15 - 11.45	The priceless classical taxonomy of Southeast Asian tree snails <i>Amphidromus</i> By Assoc. Prof. Dr. Chirasak Sutcharit Chulalongkorn University, Thailand
11.45 - 12.15	Ecology and evolution of enantiomorphism in the tree snails <i>Amphidromus</i> By Prof. Dr. Takahiro Asami Shinshu University, Japan
12.15 - 13.30	Lunch

Thursday 23 May 2019	
Parallel Session 6 Frontiers in taxonomy/taxonomist <i>In the light of reliable taxonomy, biodiversity conservation and bio-economics can aid human prosperity</i>	
Chair:	Prof. Dr. Somsak Panha, Chulalongkorn university, Thailand
Co-Chair:	Prof. Dr. Pranom Chantaranothai, Khon Kaen University, Thailand
13.30 – 14.00	Diversity and conservation of bats in Southeast Asia – the role of taxonomy beyonds borders By Dr. Pipat Soisook Prince of Songkla University, Thailand
Biodiversity for human prosperity	
14.00 - 14.30	From governmental politics to school and company projects: Museum as a think tank for prevalence of taxonomy-based biodiversity conservation By Prof. Dr. Hidetoshi Ota Hyoko University, Japan
14.30 – 15.00	Coffee break
A special lecture and Press Conference	
15.00 – 16.30	A special lecture on “Millipede research through space and time” By Prof. Dr. Henrik Enghoff University of Copenhagen, Denmark
16.30 Onward	Press Conference: Millipede discoveries in Thailand: A Hundred amazing new species

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Thursday 23 May 2019	
Parallel Session 7	
Habitat-based research (Terrestrial, Freshwater, Marine and others)	
Chair:	Dr. Thamasak Yeemin, President, The Marine Science Association of Thailand, Thailand
Co-Chair:	Dr. Suchai Worachananant, Kasetsart University, Thailand
13.30 – 14.00	<p>The influence of microclimate on biodiversity of lichens in the tropical forests at Khao Yai National Park, Thailand”</p> <p>By Dr. Kansri Boonpragob Ramkhamhaeng University, Thailand</p>
14.00 – 14.20	<p>A future perspective on freshwater ecosystems in Thailand: biodiversity and research</p> <p>By Dr. Boonsatien Boonsoong Kasetsart University, Thailand</p>
14.20 – 14.40	<p>Relative contributions of biodiversity and environment to benthic ecosystem functioning of the South China Sea</p> <p>By Dr. Zainudin Bachok University Malaysia Terengganu, Malaysia</p>
14.40 – 15.00	<p>Changes on Environmental condition and fishery resources in the Gulf of Thailand</p> <p>By Dr. Shettapong Meksumpun Kasetsart University, Thailand</p>
15.00 – 15.20	Coffee Break
15.20 – 15.40	<p>Sandy beach ecosystems in Thailand: emerging issues and management interventions</p> <p>By Dr. Pinsak Suraswadi Department of Marine and Coastal Resources, Thailand</p>
15.40 – 16.20	<p>Science to policy options – example of “P-CoRIE” project in Palau</p> <p>By Assoc. Prof. Dr. Takashi Nakamura University of the Ryukyus, Japan</p>
16.20 – 16.40	<p>Seagrass ecosystem service and restoration: Thailand perspective</p> <p>By Assoc. Prof. Dr. Anchana Prathep Prince of Songkla University, Thailand</p>
16.40 – 17.00	<p>Marine Exploration: Lessons learned from research vessels</p> <p>By Dr. Penjai Sompongchaiyakul Chulalongkorn University, Thailand</p>

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Thursday 23 May 2019	
Parallel Session 8	
Human and wildlife in the Anthropocene	
Chair:	Dr. Anak Pattanavibool, Director of Wildlife Conservation Society, Thailand
Co-Chair:	Assist. Prof. Dr. Dusit Ngoprasert, King Mongkut's University of Technology Thonburi, Thailand
13.30 – 14.00	<p>What can the science of conservation crime tell us about wildlife trafficking?</p> <p>By Assoc. Prof. Dr. Meredith L. Gore Department of Fisheries & Wildlife, School of Criminal Justice, Michigan State University, U.S.A.</p>
14.00 – 14.30	<p>Beyond the 6% solution: The future of Asia's tigers</p> <p>By Dr. Dale Miquelle Director of Wildlife Conservation Society-Russia Program, Russia</p>
14.30 – 15.00	<p>Urgent need to protect the endangered Gurney's pitta and its habitat</p> <p>By Assoc. Prof. Dr. Tommaso SAVINI the Conservation Ecology Program, King Mongkut's University of Technology Thonburi, Thailand</p>
15.00 – 15.20	Coffee Break
15.20 – 15.50	<p>How can we influence decision makers to conserve biodiversity in the Anthropocene?</p> <p>By Dr. Gopalasamy Reuben Clements Jeffrey Sachs Center on Sustainable Development, Sunway University, Bandar Sunway, Malaysia.</p>
15.50 – 16.20	<p>The Belt-and-road initiative and the impacts on Biodiversity in Asia</p> <p>By Dr. Mason Campbell James Cook University, Australia</p>
16.20 – 16.50	<p>Turtle conservation in Myanmar: Impact of wildlife trafficking and conservation options</p> <p>By Dr. Steve Platt Turtle Survival Alliance, U.S.A. (Based in Myanmar)</p>

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Thursday 23 May 2019	
Parallel Session 9	
Ecotourism & UNESCO Global Geopark	
Chair:	Dr. Young Ng, Senior Advisor at Danxiashan UNESCO Global Geopark, Honorary Advisor at Association for Geoconservation, Hong Kong
Co-Chair:	Mr. Surachai Siripongsatian, Department of Mineral Resources, Thailand
13.30 – 13.50	Making an environment where ecotourism thrives By Mr. Rod Hillman, CEO Ecotourism Australia, Australia
13.50 – 14.10	Geotourism in geoparks in Japan –conservation and wise use of geodiversity- By Dr. Mahito Watanabe Member of the UNESCO Global Geoparks Council, Japan
14.10 – 14.30	Finance Mechanisms for Biodiversity: The case of Ngorongoro Conservation Area, Tanzania By Dr. Freddy Manongi, Head of Ngorongoro Conservation Authority and Ngorongoro Lengi UNESCO Global Geopark, Tanzania
14.30 – 14.50	Topic to be announced By Mr. Narongrit Thungprue Mayor of subdistrict Administrative Organization and Director of the Satun UNESCO Global Geopark, Thailand
14.50 – 15.10	Coffee break
15.10 – 15.30	Biodiversity and ecotourism in Chinese geoparks: Danxiashan UNESCO Global Geopark of China as an example By Ms. Chen Fang, Deputy Director, Danxiashan UNESCO Global Geopark, P.R. China
15.30 – 15.50	Ecotourism and geotourism: A reliable power engine for the sustainable development of local areas in Korea By Dr. Soo-Jae Lee Head of Korea Environment Institute, UNESCO Global Geoparks Council Member, Republic of Korea
15.50 – 16.10	Topic to be announced By Mr. Rath Jitrattana Department of Mineral Resources, Thailand

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Thursday 23 May 2019	
Parallel Session 10	
Ecosystem services and restoration	
Chair:	Dr. Prasit Wangpakapattanawong, Chiang Mai University, Thailand
Co-Chair:	Dr. Sutthathorn Chairuang Sri, Chiang Mai University, Thailand
Ecosystem Services and Restoration: What do we know? What more do we need to know?	
13.30 – 13.50	New age of forest restoration By Dr. Stephen Elliott Chiang Mai University, Thailand
13.50 – 14.10	Ecosystem services at watershed level By Dr. Beria Leimona World Agroforestry Centre, Indonesia
14.10 – 14.30	Restoration of mangrove forests By Dr. Aor Pranchai Kasetsart University, Thailand
14.30 – 14.50	Economic aspect of ecological services and restoration By Dr. Decharut Sukkumnoed Kasetsart University, Thailand
14.50 – 15.10	Coffee Break
15.10 – 15.30	Forest restoration of upland northern Thailand: An on-going project in Nan province By Dr. Pimonrat Tiansawat Chiang Mai University, Thailand
15.30 – 15.50	The importance of social capital in the restoration of degraded forests By Mr. Michael Jenke Dresden University of Technology, Germany
15.50 – 17.00	Round table discussion on "Ecosystem services and restoration: What do we know? What more do we need to know?" Moderator: Mr. Chawapich Vaidhayagarn Researcher and development practitioner in forest and natural resource management sector in Southeast Asia, Thailand

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Thursday 23 May 2019	
Parallel Session 11	
Impacts of climate change on biodiversity across scales	
Chair:	Dr. Wirong Chanthorn, Kasetsart University, Thailand
Co-Chair:	Ms. Anuttara Nattalang , National Center for Genetic Engineering and Biotechnology, Thailand
13.30 – 13.50	Carbon storage across scales By Dr. Maxime Rejou-Mechain Agricultural Research for Development (CIRAD-IRD), France
13.50 – 14.10	Carbon flux study in Thailand By Assoc. Prof. Dr. Amnat Chidthaisong King Mongkut's University of Technology Thonburi (KMUTT), Thailand
Component of ecosystems	
14.10 – 14.25	The joint SEA-EU project: Assessing the vulnerability of tropical forests to climatic water stress By Dr. Pantana Torngern Chulalongkorn University, Thailand
14.25 – 14.40	Forest ecosystems in a warmer world By Dr. Hyungwoo Lim Swedish University of Agricultural Sciences, Sweden
14.40 – 14.55	Impact of soil fertilization By Dr. Nailas Hasselquist Swedish University of Agricultural Sciences, Sweden
14.55 – 15.10	Ecophysiological traits and climatic changes By Dr. Yajun Chen Xishuangbanna Tropical Botanical Garden (XTBG), P.R.China
15.10 – 15.25	Coffee Break
Scales Spatial scales	
15.25 – 15.40	Possible effects of climate change on recruitment of the wild rambutan tree <i>Nephelium melliferum</i> on the Mo Singto plot By Prof. Dr. Warren Brockelman The National Center for Genetic Engineering and Biotechnology (BIOTEC), Thailand
15.40 – 15.55	Species traits inform migratory birds' response to climate change By Dr. Nantida Sutummawong Thaksin University, Thailand
15.55 – 16.10	Regional/Global : Remote sensing By Dr. Sitthisak Moukomla Geo-Informatics & Space Technology Development Agency (GISDA), Thailand
16.10 – 16.25	Ecosystem Level : Carbon flux By Dr. Montri Sanwangsri University of Phayao, Thailand
Thursday 23 May 2019	

Parallel Session 11 Impacts of climate change on biodiversity across scales	
Chair:	Dr. Wirong Chanthorn, Kasetsart University, Thailand
Co-Chair:	Ms. Anuttara Nattalang , National Center for Genetic Engineering and Biotechnology, Thailand
Temporal scales	
16.25 – 16.40	Variation in Beta-diversity with Microclimate Across Scale: Cases from Bryophytes By Dr. Ekaphan Kraichak Faculty of Science, Kasetsart University, Thailand
16.40 – 16.55	Impact of climate change and estimate above ground carbon storage by using satellite By Mr. Narin Jaroonrattanak Department of National Parks, Wildlife and Plant Conservation, Thailand