



# Schedule

# The 4<sup>th</sup> Thailand International Symposium on Natural History Museums: Era of Ecosystem Restoration

21–22 December 2023 by National Science Museum Thailand

21 <sup>st</sup> December 2023	
Time	Events
09.00 – 09.30	Registration: 2 <sup>nd</sup> Floor Rama 9 Museum
09.30 – 10.30	Opening Ceremony: Saeng Deuan-Sang Thian Seminar Room
10.30 – 10.45	Coffee Break: Hall in front of Saeng Deuan-Sang Thian Seminar Room
10.45 - 12.00	2 <sup>nd</sup> Floor: Saeng Deuan-Sang Thian Seminar Room Keynote Speaker 1: Mr. Woraphot Bunkhwamdi Praisan: The Power of Natural Soundscapes
12.00 – 13.00	Lunch: The Scientist Lodge



	Session 1: Taxonomy and Biodiversity (Botany)	Session 2: Taxonomy and Biodiversity (Invertebrate Zoology I)	Session 3: Taxonomy and Biodiversity (Vertebrate Zoology I)
13.00 – 13.15	<p><b>Saeng Deuan-Sang Thian Seminar Room</b></p> <p>The National Biobank of Thailand's (NBT) Seed Bank: Long-term Conservation of Wild Plants in Thailand</p> <p>Pramote Triboun and Sissades Tongshima</p>	<p><b>Sailom Seminar Room</b></p> <p>Highly Diversified Population Structure of <i>Lycosa ishikariana</i> Inhabiting Sandy Beach Habitat</p> <p>Akio Tanikawa, Akira Shinkai, Haruki Tatsuta and Tadashi Miyashita</p>	<p><b>Saifon Seminar Room</b></p> <p>Diversity Review of Jacks and Trevallies (Pisces: Carangiformes: Carangidae) in Thai Waters</p> <p>Chavalit Vidthayanon</p>
13.15 – 13.30	<p>Species Diversity of the Green Macroalgal Genus <i>Caulerpa</i> (Caulerpaceae, Chlorophyta) in the Area of Ko Kut, Ko Chang, and Nearby Islands, Trat Province</p> <p>Suttikarn Sutti, Sirikanya Chungthanawong and Ratchaneewan Sumittrakij</p>	<p>Species Diversity of Gammarid Amphipods Associated with Macro-Algae at Samae San Islands, Chon Buri Province, Thailand</p> <p>Phomphorn Phoommarin, Tanatorn Tienpothong, Ratchaneewan Sumittrakij and Koraoon Wongkamhaeng</p>	<p>Intraspecific Variations of Dwarf Whipray <i>Brevitrygon heterura</i> (Chondrichthyes: Dasyatiidae) in the Gulf of Thailand</p> <p>Pipat Wongmanee, Wanlada Klangnurak, Wansuk Senanan, Kridsana Phookrongjit and Tassapon Krajangdara</p>
13.30 – 13.45	<p>The Species Diversity of Plants in the Satun Geopark</p> <p>Bhanumas Chantarasuan and Wisoot Supong</p>	<p>Preliminary Study of the Zooplankton Community in Mae Klong Estuary, Samut Songkram</p> <p>Tanatorn Tienpothong, Kittikhun Suksamai, Koraoon Wongkamhaeng, Patchara Danaisawadi, Tosaphol Saetung Keetapithchayakul, Chanikan Katnoum and Satreerat Pramkasem</p>	<p>Composition of Fishes Associated with Willow-leaved Water Croton (<i>Homonota riparia</i> Lour.) in Wangtakrai, Nakhon Nayok Province</p> <p>Veera Vilasri and Sirikanya Chungthanawong</p>
13.45 – 14.00	<p>Mushroom Collection for Education, Research, and Exhibition from the Natural Medicinal Mushroom Museum</p> <p>Khwanyuruan Naksuwankul, Areerat Saisong and Orathai Sertsri</p>	<p>Private Mollusca Systematic Collection</p> <p>Chorchat Gra-tes</p>	<p>An Undescribed Rheophilic Cyprinid Species of the Genus <i>Poropuntius</i> (Actinopterygii: Cypriniformes) from the Khek River, Chao Phraya River System, North-central Thailand, with Notes on Its Biogeography</p> <p>Prachya Musikasinthorn and Veera Vilasri</p>
14.00 – 14.15	<p>Ferns and Lycophytes of Gerenai-long Mekaba, Sarawak: with Medicinal and Ornamental Use Potential</p> <p>Avelinah Julius and Andi Maryani A. Mustapeng</p>	<p>An Updated Checklist of Hypselostomatid Snails from Southern Thailand</p> <p>Tawan Subanjui and Pongrat Dumrongrojwattana</p>	<p>A Preliminary Result on Image Classification of Fourteen Species of Sharks in Thailand</p> <p>Chaiwoot Boonyasriwat, Tassapon Krajangdara and Jenjit Khudamrongsawat</p>
14.15 – 14.30	<p>Coffee break: Hall in front of Saeng Deuan-Sang Thian Seminar Room</p>	<p>Coffee break: Hall in front of Saeng Deuan-Sang Thian Seminar Room</p>	<p>Coffee break: Hall in front of Saeng Deuan-Sang Thian Seminar Room</p>



	Session 4: Museum Collection and Specimen Conservation	Session 5: Taxonomy and Biodiversity (Invertebrate Zoology II)	Session 6: Taxonomy and Biodiversity (Vertebrate Zoology II)
14.30 – 14.45	<b>Saeng Deuan-Sang Thian Seminar Room</b> The Central Storage of National Museums: Sustainable Management and Collections Care	<b>Sailom Seminar Room</b> Unravelling the Ants of Singapore: Museum Collections Reveal Unexpected Diversity	<b>Saifon Seminar Room</b> Spatial Ecology and Density of the Indochinese Leopard ( <i>Panthera pardus delacourii</i> ) and its Prey in Kaeng Krachan Forest Complex, Thailand
14.45 – 15.00	<b>Kannasamon Bhutham</b> The National Science Museum's RE-ORG Project of the Dry Collection Storage Room (Bones, Antlers, Horns, Tusks and Fossils)	<b>Wendy Y. Wang, Eunice J.Y. Soh, Gordon W.J. Yong and Seiki Yamane</b> Behavioral Investigation of Virgin Dealate Queens of <i>Harpegnathos venator</i>	<b>Manoon Piosungnoen</b> Species Diversity and Abundance of Birds in Different Habitats at Kasetsart University, Bang Khen Campus
15.00 – 15.15	<b>Wachara Sangunsombat and Cholawit Thongcharoenchaikit</b> Oddy Test of Storage Materials for Natural History Specimens	<b>Sunitra Aupanut, Mizuno Riou and Fuminori Ito</b> Range Extensions of Endemic Butterflies in Western Mindanao, Philippines	<b>Pattida Uwichain and Patchara Danaisawadi</b> Fishes and Fisheries in the Flood Plain of the Mun–Chi Sub–basin
15.15 – 15.30	<b>Wanwisa Woraward</b> The Preparation of Readiness for Natural History Archives, References, and Information Management of the Natural History Museum, National Science	<b>Leizel Mae R. Abijay, Eddie P. Mondejar, Olga M. Nuñez and Jade Aster T. Baddon</b> Preliminary Study of Crab Larvae in the MaeKlong Estuary, Samut Songkram	<b>Jarungjit Grudpan and Chaiwit Grudpan</b> The First Preliminary Observational Field Survey on the Diversity and Ecology of Fishes in the Ma Basin, Laos PDR
15.30 – 15.45	<b>Wisan Trakoolrangi and Pattraporn Pimlor</b> Suggestions for the Improvement of Displaying the Natural History Specimens in the Temporary Exhibition Room at the Natural History Museum of National Science	<b>Kittikhun Suksamai, Tanatorm Tienpothong and Koraon Wongkambaeng</b> Distribution, Ecology, and Conservation Status of Aquatic Fireflies in Thailand	<b>Somphanh Philavong, Jarungjit Grudpan and Chaiwit Grudpan</b>
15.45 – 16.00	<b>Puangporn Srisomboon</b> Coffee break: Hall in front of Saeng Deuan-Sang Thian Seminar Room	<b>Nattawat Sareein, Supisara Suwanprasert, Songyot Kullasoot, Pitak Sapewisut, Rut Kasitikasikhram, Nopparat Yingmuangmarn, Kotchakorn Rattanama, Jittapat Choruengwiwat and Chitchol Phalaraksh</b> Coffee break: Hall in front of Saeng Deuan-Sang Thian Seminar Room	<b>Coffee break: Hall in front of Saeng Deuan-Sang Thian Seminar Room</b>
16.00 – 17.30	Poster session: Hall in front of Saeng Deuan-Sang Thian Seminar Room	Poster session: Hall in front of Saeng Deuan-Sang Thian Seminar Room	Poster session: Hall in front of Saeng Deuan-Sang Thian Seminar Room
17.30 – 20.00	Welcome party at Thailand Forest Ecosystem Exhibition Zone	Welcome party at Thailand Forest Ecosystem Exhibition Zone	Welcome party at Thailand Forest Ecosystem Exhibition Zone



22 <sup>nd</sup> December 2023	
Time	Events
09.00 – 09.30	Registration: 2 <sup>nd</sup> Floor Rama 9 Museum
09.30 – 10.15	2 <sup>nd</sup> Floor: Saeng Deuan-Sang Thian Seminar Room Keynote Speaker 2: Dr. Chaiyan Kasomdorkbua Red-headed Vulture: Population Recovery in Thailand
10.15 – 10.30	Coffee Break: Hall in front of Saeng Deuan-Sang Thian Seminar Room



	Session 7: Taxonomy and Biodiversity (Invertebrate Zoology III) Saeng Deuan-Sang Thian Seminar Room	Session 8: Museum Education and Public Programs Sailom Seminar Room	Session 9: Taxonomy and Biodiversity (Vertebrate Zoology III) Saifon Seminar Room
10.30 – 10.45	Quantification and Mapping of Invasive Alien Ants Using the GIS/GPS Approach at the Songkhram River Basin  Puvadol Dooyee, Weeyawat Jaitrong and Tadsana Jeenthong	Photo Contest: A Platform where Scientists and Citizens Meet Nature  Kaewnapha Pothi	The <i>Varanus merremi</i> , 1823 (Monitor Lizard) Species of Thailand  Michael Cota
10.45 – 11.00	Darkling Beetle (Tenebrionidae Latreille, 1802) Infestation and Susceptibility of <i>Falcataria falcata</i> in Barangay Rogongon, Iligan City, Philippines  Deery Joy G. Quiban and Eddie P. Mondejar	How Natural History Museums Benefit from Virtual Reality (VR) Technology to Make Learning Media More Memorable  Pornphan Pichai	Diversity and Habitat Utilization of Reptiles at Taksin Maharat National Park, Tak Province  Peerapat Channoj, Sattreerat Pramkasem and Patchara Danaisawadi
11.00 – 11.15	Species Composition and Distribution of Tetrigidae in Brgy. Rogongon, Iligan City, Philippines  Aiko Tabig and Eddie Mondejar	Public Engagement with Flood Risk Management in Bangkok: A Case of Thai Public Visitors to a Large Science Museum in Thailand  Supa Tamprasertkun	Species Diversity and Habitat Utilization of Anurans at Taksin Maharat National Park, Tak Province  Prissana Khaengrit, Sattreerat Pramkasem and Patchara Danaisawadi
11.15 – 11.30	Taxonomy of the Ant Genus <i>Meranoplus</i> Smith, 1853 in Thailand (Hymenoptera: Formicidae: Myrmicinae)  Kuntima Yodprasit, Weeyawat Jaitrong and Wattanachai Tasen	The Results of Implementing the “Plant Rangers” Educational Resource Set in Schools across Thailand  Sirapraph Srisupan, Napat Malathum and Jittikan Intamong	Distribution Modeling of Spotted Forest Skinks ( <i>Sphenomorphus maculatus</i> complex) Inferred from Morphological and Genetic Data  Tanagrit Sumpantapae, Noppadon Kitana, Pichani Saengtharati, Chanisara Klinthuran and Panupong Thammachoti Charunrochana
11.30 – 11.45	Species Diversity of Caddisfly (Order Trichoptera Kirby, 1813) Adults in a Stream Contaminated by Mine Acid Drainage in Northeast Thailand  Kittisak Kumtanom, Narin Chomphuphuang, Weeyawat Jaitrong and Kanyakorn Piraonapicha	National Science Museum (NSM) Augmented Reality (AR): Adventure in the Science Museum; New Application Developed Through Concepts Combining Science and Scientific Communication  Apichaya Nuchino, Chanin Sarigaputi, Pawita Likitdacharoj, Nuchjarim Yensueng, Anupap Sakulniam and Umoporn Kruekamwang	Diversity and Habitat Selection of Amphibians in the Central Panay Mountain Range, Antique, Philippines  Gerrie Mae A. Flores, Armi G. Torres, Jaime Q. Guihawan, Andrie Bon. A. Flores, Philip Godfrey C. Jakosalem and Hilly Ann Roa-Quiaoit
11.30 – 11.45	Lunch: The Scientist Lodge	Lunch: The Scientist Lodge	Lunch: The Scientist Lodge





# 22<sup>nd</sup> December 2023

	Session 10: Young Scientists	Sailom Seminar Room	Session 11: Utilization of Natural Resources	Saifon Seminar Room
13.00 – 13.15	The Morphological Study of the Stone Loach, <i>Schistura cf. nicholsi</i> (Cypriniformes: Nemacheilidae) from Salad–Dai Waterfall		Spider–Parasitic Fungi: The Diversity of Their Morphologies, Bioactive Compounds and Potential Applications	
13.15 – 13.30	Identifying Dinosaur–like Creatures in the Mural Paintings of the Temple of the Emerald Buddha: An Implication to Study Paleontological Knowledge in Thailand	Salawin Thepsupornkul and Salinee Khachonpitsitsak	Jennifer Luangsa–ard, Suchada Mongkolsamrit, Kanoksri Tasanathai, Donnaya Thanakitpattana, Artit Khonsanit and Wasana Noisriroom	
13.30 – 13.45	External Morphological Study of <i>Carebara diversa</i> (Jerdon, 1851) (Hymenoptera: Formicidae: Myrmecinae) from Thailand and Laos	Saranpat Ouilapan and Cholawit Thongcharoenchaikit	Potential Drylands Restoration: An Investigation of Biocrust Microbial Dynamics Changes after Water Activation	Nuttapon Pombubpa, Teerat Kaewjon, Nicole Pietrasiak, Paul De Ley and Jason E. Stajich
13.45 – 14.00	Diversity of the Mayfly Nymphs in Ton Ya Plong Waterfall, Songkhla Province	Sahusphum Boonchuelue, Priyakorn Tengkamkij, Phatchara Gosapun and Salinee Khachonpitsitsak	Microbial Resources: Bridging Discovery, Engineering, and Sustainable Applications	Aiyada Aroonsri, Chanwit Suriyachadkun, Chayaphat Wongsombat, Thapanee Pruksatrakul, Umaporn Uawisetwathana, Taridaporn Buajareern, Chawanee Thongpanchang and Vanicha Vichai
14.00 – 14.15	Diversity of Signal Flies at Ton Ya Plong Waterfall, Songkhla Province	Netdao Anusan, Tanatda Chanasri, Trin Sukrek and Nawee Noon–anant	Diversity, Ecology and Evolution of Entomopathogenic Fungi and Their Potential as Biopesticides and Biostimulants	Noppol Kobmoo, Nuntanat Arnammart, Artit Khonsanit, Wasana Noisriroom, Suchada Mongkolsamrit, Alongkorn Annuaykanjanasin and Janet Jennifer Luangsa–ard
14.15 – 14.30	Coffee break: Hall in front of Saeng Deuan–Sang Thian Seminar Room	Nattapapasr Panmongkol, Trin Sukrek and Nawee Noon–anant	Evaluation of <i>Lauraea sarmentosa</i> (Willd.) Sch. Bip. ex Kuntze Crude Extracts for Wound Healing Patch Development	Wanwisa Ramangthong, Nattapong Chanchula and Pariya Na Nakorn
14.30 – 16.00	Closing Ceremony: Saeng Deuan–Sang Thian Seminar Room		Closing Ceremony: Saeng Deuan–Sang Thian Seminar Room	



# Poster Session:

Hall in front of Saeng Deuan-Sang Thian Seminar Room

Stand No.	Stand No.
1	Color Enhancement of Gemstones with Nuclear Radiation Technology for the Addition of Value in the Gems and Jewelry Industry  <b>Waratchanok Suwanmanee</b>
2	Cyatheaceae Study in Malaysian Borneo: Herbarium and Field Collections  <b>Andi Maryani A. Mustapeng and Monica Suleiman</b>
3	Nutrition and Antioxidant Activities of Some Edible Mushrooms, Genus <i>Russula</i> Extracts  <b>Orathai Sertsri, Areerat Saisong, Thanawan Chantarayang and Khwanyuruan Naksuwankul</b>
4	Preliminary Study on Lichen Diversity at the Sakaerat Environmental Research Station  <b>Areerat Saisong, Orathai Sertsri, Khwanyuruan Naksuwankul and Surachit Wangsothorn</b>
5	Host Plants of Bark Beetle Species Occuring in Barangay Rogongon, Iligan City, Philippines: Insights to Understand Taxa (Coleoptera: Curculionidae: Scolytinae)  <b>Kristyl Elaine S. Obugia and Eddie P. Mondejar</b>
6	Anatomy of <i>Succinea</i> (Pulmonata: Succineidae) from some locations of Thailand  <b>Narathon Monchaithanaphat and Pongrat Dumrongrojwattatna</b>
7	Crab Community under Habitats Changes due to Human Impact on Sandy and Rocky Beaches around Mu Ko Tao, Surat Thani Province  <b>Kamonchanok Wongissarakul, Puntip Wisespongpan, Wachirah Jaingam and Thalvimol Muktha</b>
8	Morphological Identity of Three Rice-field Crabs Species in Northern Thailand  <b>Kamonchanok Wongissarakul, Ratchaneewarn Sumitrakij, Wanchai Sukkasem, Puntip Wisespongpan and Rueangrit Promdam</b>
9	Study of Alien Ant Species (Hymenoptera: Formicidae) in the Western Forest Complex, Thailand  <b>Netnapa Phosrithong, Kaewpawika Rattanachan and Weeyawat Jaitrong</b>
10	Rearing Method of <i>Sclerotia aquatilis</i> (Coleoptera, Lampyridae) in the Laboratory for Its Conservation Approach in Urban Ecosystems  <b>Supisara Suwanprasert, Chitchol Phalaraksh, Songyot Kullasoot, Pitak Sapewisut, Rut Kasithikasikham, Nopparat Yingmuangmarn, Kotchakorn Rattanama, Jittapat Choruengwiwat and Nattawut Sareein</b>
11	Species Diversity of <i>Pachyrhynchini weevils</i> (Coleoptera: Curculionidae: Entiminae) in Selected Areas of Northern and Western Mindanao, Philippines  <b>Princess Mae Ebal and Eddie Mondejar</b>





Stand No.	Stand No.
12	Direct Chromosomal Preparation Technique from Southeast Asia Tarantula (Araneae, Theraphosidae) <b>Paveen Piyatrakulchai, Alongklod Tanomtong and Narin Chomphuphuang</b>
13	Species Diversity of Butterflies in Wang Takrai Park, Central Thailand <b>Tadsanai Jeenthong and Weeyawat Jaitrong</b>
14	Fishes and Fisheries in the Flood Plain of the Mun–Chi Sub–basin <b>Jarungjit Grudpan and Chaiwut Grudpan</b>
15	The First Preliminary Observational Field Survey on the Diversity and Ecology of Fishes in the Ma Basin, Laos PDR <b>Somphanh Philavong, Jarungjit Grudpan and Chaiwut Grudpan</b>
16	Bat Species Diversity in Wangtakrai Park, Nakhon Nayok Province <b>Dome Pratumthong and Amonpong Khlaipet</b>
17	Genetic Diversity of Captive Serows in Phang–Nga Wildlife Breeding Center <b>Tucksaoon Bhummakasikara, Salintorn Thongsahuan and Warisara Phalapannyawongsa</b>
18	Hematologic Reference Interval of Captive Serows in Phang–nga Wildlife Breeding Center <b>Salintorn Thongsahuan, Tucksaoon Bhummakasikara and Sorawat Thongsahuan</b>
19	Species with Data–Deficient Status: The Survey of Herpetological Collection at Natural History Museum of Thailand <b>Pattarapon Promnun, Kanokporn Panpong, Parinya Pawangkhanant, Veera Vilasri and Jenjit Khudamrongsawat</b>
20	Ichthyological Collection of the Kagoshima University Museum: Establishment, Development, and Utilization <b>Hiroyuki Motomura</b>
21	Potential Use of Insect Frass as a Fertilizer: Impact on Germination and Growth of Chili pepper ( <i>Capsicum frutescens</i> ) <b>Pornpawee Truatnok Aroonsiri Khuanlay and Papitchaya Teawkul</b>
22	Recycling Spent Mushroom Substrate into Animal Feed via Black Soldier Fly Larvae <b>Aroonsiri Khuanlay, Pornpawee Truatnok and Papitchaya Teawkul</b>
23	Antibacterial and Anti–inflammatory Properties of Crude Extracts from White and Yellow Chrysanthemums <b>Yayoi Shindo, Nattapong Chanchula, Worawat Surarit and Pariya Na Nakorn</b>