



International Conference on Zoology 2021

Himalayan Biodiversity in the Face of Global Change

29 Nov – 01 Dec 2021
Kathmandu, Nepal

Organizers



Supporters



Program Schedule

Day I: 29 November 2021

Hall: Rhino

Opening ceremony 9:30 – 10:30

10:30-10:40 Break

Technical Host: Purnaman Shrestha

Day I- November 29- Session I

Session Chair : Khadga Basnet

Rapporteur: Bishnu Prasad Bhattari

Technical Host: Purnaman Shrestha

Hall: Annapurna

Time	Presenter	Title
10:40-11:20	Zhibin Zhang (Keynote address) Chinese Academy of Sciences, Beijing, CHINA.	Impacts of global change on population dynamics of small rodents in Inner Mongolia grassland of China
11:20-11:45	Ram Pandit The University of Western Australia, Perth, AUSTRALIA	Biodiversity conservation and ecosystem services in the changing context: Some observations on science- policy integration
11:45-12:10	Madhu Rao Address: IUCN World Commission on Protected Area, MALAYSIA	Protected and Conserved Areas are core mechanisms to safeguard biodiversity with climate mitigation and adaptation co-benefits

12:10-13:00 Lunch break

Day I- November 29- Session 2**Hall: Annapurna**

Session Chair: Madhav Karki

Rapporteur: Laxman Khanal

Technical Host: Purnaman Shrestha

Time	Presenter	Title
13:00-13:40	Christian Körner (Keynote address) University of Basel, SWITZERLAND	A Global Framework of Mountain Ecology
13:40-14:05	Hongxuan He Chinese Academy of Sciences, Beijing, CHINA	Control of Wildlife Epidemic Diseases and Protection of Biodiversity in Qinghai-Tibet Plateau
14:05-14:15	Break	

Day I- November 29- Session 3A**Hall: Annapurna****Theme: Biodiversity and Ecosystem services**

Session Chair: Tek Bahadur Gurung

Rapporteur: Kishor Pandey

Time	Presenter	Title
14:15-14:40	Samiran Chakrabarti University of Kalyani, Kolkata INDIA	Diversity of aphids (Hemiptera: Aphidomorpha: Aphididae) in the Himalaya
14:40-15:00	Aijaz Ahmad Wachkoo Govt. Degree College, Jammu and Kashmir INDIA	Ants (Hymenoptera: Formicidae) in Jammu and Kashmir
15:00-15:10	Divyangi Patel Vithalbai Patel & Rajratna P.T.Patel Science College, Vallabh Vidyanagar INDIA	Diversity of order lepidoptera (butterflies) in Anand, Gujarat
15:10-15:20	Manisha Karki Tribhuvan University, NEPAL	Distribution and Habitat Utilization of Himalayan Goral (<i>Nemorhaedus goral</i>) in Dailekh District, Karnali Province, Nepal
15:20-15:30	Humira Nesar Aligarh Muslim University, Aligarh, INDIA	Stabilities of soil nematode communities with different vegetation types in Dachigam National Park, India.
15:30-15:40	Khalid A. E. Eisawi University of East Kordofan, SUDAN	Role of ants (Hymenoptera: Formicidae) in the predation of <i>Belenois solilucis</i> eggs in organic agriculture production systems at Rashad, Sudan
15:40-15:50	Break	

Day I- November 29- Session 3 B**Hall: Khaptad Theme: One health**

Session Chair :Mahendra Maharjan

Rapporteur: Rajendra Prasad Parajuli

Technical Host: Krishna Maharjan

Time	Presenter	Title
14:15-14:40	<u>Martin Gilbert</u> Cornell University, Ithaca, NY USA	Canine distemper virus in tigers and leopards – a threat to big cats in the Himalayan region?
14:40-15:00	<u>Biplab Mandal</u> Vidyasagar University, West Bengal, INDIA	Vector borne disease and its control strategy
15:00-15:10	<u>Jamuna Kafle</u> Tribhuvan University, NEPAL	Seasonal variation in ectoparasitic mite <i>Tropilaelaps mercedesae</i> Anderson and Morgan, 2007 in Apistan treated and untreated colonies of <i>Apis mellifera</i> in Kathmandu, Nepal
15:10-15:20	<u>Menuka Aryal</u> Tribhuvan University, NEPAL	Morphological and Molecular Characterization of Gastrointestinal Parasites of Wild Water Buffalo of Chitwan National Park
15:20-15:30	<u>Dina Nath Dhakal</u> Tribhuvan University, NEPAL	Prevalence of gastrointestinal parasites in bovines along the elevation gradients of Chitwan Annapurna Landscape, Nepal
15:30-15:40	<u>Siyaram Prasad Sah</u> Tribhuvan University, NEPAL	Study of Physico-Chemical and Protozoan detection of tap and well water quality in Baneshwor, Chhetrapati and Tripureshwor, Kathmadu valley

15:40-15:50 Break

Day I- November 29- Session 4

Hall: Annapurna

Session Chair: Narendra Man Babu Pradhan

Rapporteur: Indra Prasad Subedi

Technical Host: Purnaman Shrestha

Time	Presenter	Title
15:50-16:30	Davnah Urbach (<i>Keynote address</i>) University of Bern, Altenbergrain 21, 3013 Bern, SWITZERLAND	Mountain biodiversity under global change: state of knowledge and research opportunities

Day 2: 30 November 2021

Day 2- November 30- Session 1

Hall: Annapurna

Session Chair : Mahendra Shrestha

Rapporteur: Narayan Prasad Koju

Technical Host: Purnaman Shrestha

Time	Presenter	Title
9:00-9:40	Paul Beier (<i>Keynote address</i>) Northern Arizona University, USA	Conserving Nature's Stage: A Strategy to Conserve Biodiversity in a Changing Climate
9:40-10:05	Daniel C. Taylor Future Generations University, Franklin, WV USA	Biodiversity Protection Across the Mt. Everest Ecosystem
10:05-10:30	Kailash Chandra Zoological Survey of India, Kolkata, INDIA	Faunal diversity of selected conservation areas in Indian Himalayan landscape

10:30-10:40 Break

Day 2- November 30- Session 2A

Hall: Annapurna

Theme: Biodiversity and Ecosystem services

Session Chair: Eben Goodale

Rapporteur: Arjun Thapa

Technical Host: Purnaman Shrestha

Time	Presenter	Title
10:40-11:05	David P. Gillette University of North Carolina Asheville, USA	Identifying imperiled fishes in the Eastern Himalaya Biodiversity Hotspot: Analysis of species ranges over 30 years in the Kaligandaki-Narayani River
11:05-11:25	Maniram Banjade Jeju National University, Jeju-si 63243, SOUTH KOREA	Molecular identification and phylogenetic relationship of alien deer species in Jeju Island, South Korea
11:25-11:35	Dibya Raj Dahal Tribhuvan University, NEPAL	Distribution records of Dormer's bat <i>Scotozous dormeri</i> (Dobson, 1875) in Nepal
11:35-11:45	Kishor Chandra Ghimire Tribhuvan University, NEPAL	Abundance and Species Richness of Bumblebees in Budigandaki River valley of Central Nepal

11:45-11:55	<u>Pit Bahadur Nepali</u> Tribhuvan University, NEPAL	Species diversity of reptiles in Palpa, Nepal
11:55-12:05	<u>Indra Prasad Subedi</u> Tribhuvan University, NEPAL	Expanding our knowledge of Nepalese ants: new records and worker-based keys for the predatory subfamily Dorylinae

Day 2- November 30- Session 2B

Hall: Khaptad

Theme: Global Change

Session Chair: Martin Gilbert

Rapporteur: Pradeep Adhikari

Technical Host: Krishna Maharjan

Time	Presenter	Title
10:40-11:05	<u>Bhaiya Khanal</u> Nepal Bioheritage Forum for Resources Conservation, NEPAL	Diversity, distribution and significances of <i>Gazalina</i> species (Lepidoptera: Notodontidae) in Nepal
11:05-11:25	<u>Kanchan Thapa</u> WWF Nepal, Baluwatar, Kathmandu, NEPAL	Carbonated tiger: the relationship between above-ground biomass carbon stock and tiger population density and occupancy in the Terai Arc Landscape, Nepal.
11:25-11:35	<u>Ganesh Pant</u> Ministry of Forests and Environment, Kathmandu, NEPAL	Scanning the horizon: Planning for greater one-horned rhinoceros (<i>Rhinoceros unicornis</i>) conservation in the face of climate change
11:35-11:45	<u>Binod Bhattarai</u> Tribhuvan University, NEPAL	Effects of Habitat Structure and Invasive Alien Plant Species on Bird Assemblages in Jalthal Forest, Eastern Nepal
11:45-11:55	<u>Rajendra Basaula</u> Tribhuvan University, NEPAL	Effects of the invasive water hyacinth on globally threatened waterbird abundance and diversity at Lake Cluster of Pokhara Valley, Nepal
11:55-12:05	<u>Sanjan Thapa</u> Guangzhou University, Guangzhou, CHINA	Current and future predicted distribution range of Indian Flying Fox <i>Pteropus medius</i> Temmink, 1825 roosting colonies in Nepal

Day 2- November 30- Session 2C

Hall: Rara

Theme: Human Dimension/Conservation approach

Session Chair :Dr.Himender Bharati

Rapporteur: Kul Prasad Limbu

Technical Host: Hari Basnet

Time	Presenter	Title
10:40-11:05	R. K. Sriyani Dias University of Kelaniya, SRI LANKA	The journey through <i>Aneuretus simoni</i> Emery habitats in Sri Lanka: 1999-2017
11:05-11:25	<u>Bisu Singh</u> Sikkim University, Gangtok, Sikkim, INDIA	Study of HLA gene polymorphism among the Indian Kami population from sub-Himalayan region of West Bengal, India
11:25-11:35	Jitse Bijlmakers	Environmental drivers of grassland in Bardia National Park: historic and annual remotely sensed imagery shows changes in the habitat of megafauna.
11:35-11:55	<u>Chet Raj Bhatta</u> USA	Meliponiculture Industry in Nepal: Challenges and Opportunities
11:55-12:05	<u>Jagan Nath Adhikari</u> Tribhuvan University, NEPAL	Land use/ land cover changes in the Chitwan Annapurna Landscape, Nepal

Hall: Annapurna

Session Chair : Ghanashyam Gurung

Rapporteur: Puspa Raj Acharya

Technical Host: Purnaman Shrestha

Time	Presenter	Title
13:00-13:40	H.O. Pörtner (Keynote address) Alfred Wegener Institute, Bremerhaven, GERMANY	Climate and Biodiversity, Overcoming the Current Crises
13:40-14:20	Serge Morand (Keynote address) Montpellier University, Montpellier, FRANCE	One Health Approach and Biodiversity Conservation

14:20-14:30 Tea Break

Day 2- November 30- Session 4A

Parallel session

Hall: Annapurna

Theme: Biodiversity and Ecosystem services

Session Chair : Dinesh Raj Bhujju

Rapporteur: Pitamber Dhakal

Technical Host: Purnaman Shrestha

Time	Presenter	Title
14:30-14:55	<u>Francisco Javier Peris-Felipo</u> Geneva Natural History Museum, Geneva, SWITZERLAND	Effect of the altitudinal gradient on the generic composition of Alysiinae (Hymenoptera, Braconidae) in the Swiss mountains (Alps, Switzerland)
14:55-15:15	<u>Md Niraul Islam</u> Aligarh Muslim University, Aligarh, INDIA	Morphological and molecular characterization of <i>Tylencholaimus notrus</i> with first reports of its male and comments on the geographical distribution of the genus <i>Tylencholaimus</i> (Dorylaimida: Tylencholaimoidea)
15:15-15:35	Narayan Prasad Koju Pokhara University, NEPAL	Morphometric analysis to understand the diversity and evolution of genus pika (<i>Ochotona</i>)
15:35-15:45	<u>Punam Ghimire</u> Tribhuvan University, NEPAL	Distribution, abundance and habitat evaluation of Asian vultures in Kaligandaki Corridor, Western Nepal
15:45-15:55	<u>Shubhas Chandra Bastola</u> Tribhuvan University, NEPAL	Diversity and habitat association of birds in Seti River basin, Tanahun Nepal
15:55:16.05	<u>Urmila Dyola</u> Tribhuvan University, NEPAL	Species Distribution Modelling (SDM) of Wild Bee Species: A Case Study in Shivapuri – Nagarjun National Park (SNNP), Nepal
16:05-16:30	<u>Kadarkarai Murugan</u> University of Science and Technology, Meghalaya INDIA	Host plant association and biodiversity conservations of butterflies in Western Ghats, Southern India
16:30-16:55	Rinjan Shrestha World Wildlife Fund, CANADA	Climate integrated conservation planning in the Himalayas: an innovative approach for identifying climate refugia

Day 2- November 30- Session 4B

Hall: Khaptad

Theme: Global Change/Conservation Approach

Session Chair : Buddhisagar Poudel

Rapporteur: Janak Raj Subedi

Technical Host: Krishna Maharjan

Time	Presenter	Title
14:30-14:55	<u>Feng Dong</u> Chinese Academy of Sciences, Kunming, CHINA	Potentially dramatic community turnover of Himalayan birds during the Late Pleistocene
14:55-15:20	Liping Zhou Chinese Academy of Sciences, CHINA	Mixed-species bird flocks of the Hengduan mountains: Community structure and conservation
15:20-15:40	<u>Pradeep Adhikari</u> Hankyong National University, SOUTH KOREA	Assessment of the spatial invasion risk of intentionally introduced alien plant species under environmental change in South Korea
15:40-16:00	S Banik Tripura University, Tripura West, INDIA	Population density of <i>Chitala chitala</i> fry in relation to the Physico-chemical parameters of Muhuri River of Tripura, North-east India
16:00-16:10	<u>Ramji Gautam</u> Tribhuvan University, NEPAL	Behavior analysis and modeling of White-rumped Vulture (<i>Gyps bengalensis</i>) by using Markov chain modeling
16:10-16:20	<u>Sandesh Gurung</u> Himalayan Nature, Kathmandu, NEPAL	Home Ranges and Habitat use of Mountain Hawk Eagle in the Himalayas of Central-West Nepal
16:20-16:30	<u>Somika Pathak</u> Tribhuvan University, NEPAL	Effects of Agricultural Land Use Pattern on Amphibians in Rapti Municipality, Chitwan, Nepal

Day 2- November 30- Session 4C**Hall: Rara****Human Dimension/Conservation approach/Ecosystem services**

Session Chair : Jhamak Bahadur Karki

Rapporteur: Jagan Nath Adhikari

Technical Host: Hari Basnet

Time	Presenter	Title
14:30-14:55	<u>Ajay Kumar Pandey</u> National Bureau of Fish Genetic Resources, Lucknow INDIA	Fish Diversity of Ramgarh and Bakhira Lake: Present Status for Conservation and Sustainable Exploitation
14:55-15:20	<u>Binay Kumar Chakraborty</u> Bangladesh Agricultural University, BANGLADESH	Diversification of Aquaculture and Fisheries management in Bangladesh and Impact of COVID 19 on Aquaculture and Fisheries
15:20-15:45	<u>Tek Bahadur Gurung</u> Agriculture and Forestry University, NEPAL	Fish diversity of Tarai Nepal: Need of conservation and sustainable use of native species
15:45-15:55	<u>Ambika Tiwari</u> Tribhuvan University, NEPAL	Human-Elephant Conflict in the adjoining areas of Koshi Tappu Wildlife Reserve, Eastern Nepal
15:55-16:05	<u>Jamuna Prajapati</u> Tribhuvan University, NEPAL	People's perception towards livestock depredation by Snow Leopard <i>Panthera uncia</i> (Schreber, 1775) in Lower Mustang, Annapurna Conservation Area, Nepal
16:05-16:25	Metevinu Kechu Nagaland University, Nagaland, INDIA	Traditional practices and use of indigenous knowledge in fisheries management among selected tribes of Nagaland, India
16:25-16:35	<u>Siddha Raj Pant</u> Tribhuvan University, NEPAL	Diversity and Abundance of Water Birds Species at Rani Tal in Shuklaphanta National Park of Sudurpaschim Province Nepal

Day 3: 01 December 2021

Day 3- December 2021-Session 1

Hall: Annapurna

Session Chair: Dr. Ram Pandit

Rapporteur: Urmila Dyola

Technical Host: Purnaman Shrestha

Time	Presenter	Title
9:00-9:40	David Hik (<i>Keynote address</i>) Simon Fraser University in Burnaby, BRITISH COLUMBIA.	Plant-herbivore interactions in warming Arctic and mountain environments
9:40-10:05	Nigel C. Hughes University of California, Riverside, USA	Ancient Himalayan biodiversity as a tool for understanding Earth's evolution, and as an educational outreach opportunity
10:05-10:30	R. Muniappan Virginia Tech, 526 Prices Fork Road, Blacksburg, USA.	Recent Invasive Species in Nepal and a Proposal for their Management
10:30-10:45 Break		
10:45-11:10	Xiaoming Wang Natural History Museum of Los Angeles Los Angeles, USA	Vertebrate Palaeontology of the Tibetan Plateau

12:00-13:00 Lunch break

Parallel session

Day 3- December 2021-Session 3A

Hall:

Annapurna

Theme: Biodiversity and ecosystem services

Session Chair: R. K. Sriyani Dias

Rapporteur: Indra Prasad Subedi

Technical Host: Purnaman Shrestha

Time	Presenter	Title
13:00-13:25	Jasper Griffioen Utrecht University, NETHERLANDS	How vulnerable are grasslands in the Terai and the Duars as tiger habitat for climate change and hydrological disturbances?
13:25-13:50	Bidhan Chandra Das University of Rajshahi, BANGLADESH	Impact of the shrinking Himalayas on the world largest mangrove forest Sundarbans
13:50-14:10	Madhu Chetri Inland Norway University of Applied Sciences, NORWAY	Mammalian diversity and conservation challenges in Gaurishankar Conservation Area, Nepal
14:10-14:30	Pushpa Raj Acharya Mid-West University, NEPAL	Wandering Flying Fox Colonies Require Priority in Biodiversity Conservation Programs of Nepal
13:30-13:50	Yam Prasad Aryal Kyungpook National University, Daegu, SOUTH KOREA	Functional and structural regeneration of hard tissues based on developmental principles
14:50-15:10	Md Monwar Hossain Jahangirnagar University, BANGLADESH	Molecular phylogeny of Swallowtail butterflies (Lepidoptera: Papilionidae) based on mitochondrial cytochrome c oxidase I (COI) gene from Bangladesh

Day 3- December 2021-Session 3B**Hall: Khaptad****Theme: One Health**

Session Chair: Ranjana Gupta

Rapporteur: Rajendra Prasad Parajuli

Technical Host: Krishnam Maharjan

Time	Presenter	Title
13:00-13:20	Deb P. Pandey University of Newcastle, Wales, AUSTRALIA	A prospective study of snakebite in a Tertiary Care Hospital in Southwestern Nepal
13:20-13:40	Haiyan Gong Chinese Academy of Agricultural Sciences, Shanghai, CHINA	Ticks and tick-borne pathogens in China
13:40-14:00	Rajarshi Banik Tripura University, Tripura West, INDIA	Biochemical analysis of Hilsa fish <i>Tenualosa ilisha</i> (Hamilton, 1822) in relation to Multivariate regression analysis: a review
14:00-14:20	Shah H. A. Mahdi University of Rajshahi, BANGLADESH	Investigation on population abundance and diversity of soil-dwelling arthropods in Rajshahi University Campus (RUC), Bangladesh
14:20-14:30	Krishna Prasad Maharjan Tribhuvan University, NEPAL	Assessment of heavy metal concentrations in water and fish of Bagmati River, Nepal.
14:30-14:40	Puja Jaiswal Tribhuvan University, NEPAL	Evaluation of Antagonistic Activity of <i>Trichoderma</i> spp. against <i>Meloidogyne</i> spp.
14:40-14:50	Shahid Afzal Aligarh Muslim University, Aligarh, INDIA	Soil nematodes as indicator of change in land use, for replacement of native temperate forests cover with derived land use in Pir-Panjal mountain range of Western Himalayas
14:50-15:00	Sunil Sapkota Royal University of Bhutan, Punakha, BHUTAN	Human factors contributing to the death of King Cobra – <i>Ophiophagus Hannah</i> (Cantor, 1836) Kaski, Nepal

Day 3- December 2021-Session 3**Hall: Annapurna****15:30-16:30 Closing ceremony**