



The 9th International Symposium of Integrative Zoology

Theme: Response and adaptation of animals to extreme environments

27-31 August 2017, Xining, Qinghai Province, China
(Third Announcement)

Preface by Zhibin Zhang, President, ISZS

The International Society of Zoological Sciences (ISZS, website: <http://www.globalzoology.org>), together with its hosts, the Northwest Institute of Plateau Biology (NWIPB), Chinese Academy of Sciences (CAS) and the Zoological Society of Qinghai, organizes the 9th International Symposium of Integrative Zoology (9th ISIZ), 27-31 August 2017, Xining, Qinghai province, China. The theme of the symposium is “Response and adaptation of animals to extreme environments.”

Xining is the capital of Qinghai province which located in the Qinghai-Tibet plateau. The Qinghai-Tibet plateau, also called as the Third Pole or “water tower”, contains the headwaters of the drainage basins of most of the streams in surrounding regions. It owns the unique geological, climatic and biological components of the world. The impacts of climate warming and extreme environments in the Qinghai-Tibet plateau are great interests to the scientists and public.

I would like to take the opportunity to thank the following hosts and supporters for their support to organizing this symposium: BCGC program, International Union of Biological Sciences (IUBS); The State Key Laboratory of Integrated Pest Management, IOZ, CAS; Asia Pacific Forest Invasive Species Network (APFISN); Asia-Pacific Wildlife Diseases Network (APWDN); Centre for Ecological and Evolutionary Synthesis (CEES), University of Oslo, Norway; Chinese National Committee for International Union of Biological Sciences (CCIUBS); Institute of Zoology (IOZ), Chinese Academy of Sciences (CAS); Bureau of International Cooperation, CAS; Department of International Affairs, China Association for Science and Technology; Division of Life Science, National Natural Science Foundation of China; and John Wiley & Sons, Inc.

Welcome to attend the 9th ISIZ and enjoy your stay in Xining.



Dr Zhibin Zhang

Chair, the 9th International Symposium of Integrative Zoology
President, International Society of Zoological Sciences (ISZS)
Editor-in-Chief, *Integrative Zoology*



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International Society of Zoological Sciences (ISZS)
The Northwest Institute of Plateau Biology (NWIPB), CAS
Zoological Society of Qinghai Province

Supports and Partners

BCGC program, International Union of Biological Sciences (IUBS)
The State Key Laboratory of Integrated Pest Management, IOZ, CAS
Institute of Zoology (IOZ), Chinese Academy of Sciences (CAS)
Asia Pacific Forest Invasive Species Network (APFISN)
Asia-Pacific Wildlife Diseases Network (APWDN)
Centre for Ecological and Evolutionary Synthesis (CEES), University of Oslo, Norway
Bureau of International Cooperation, CAS
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Program Schedule

22-24 August 2017	Pre-meeting Training Course: Noninvasive Monitoring Techniques in Xilinhaote, Inner Mongolia, China Venue: Research Station on Animal Ecology on Grassland Chair: Guoliang Li
	Yvon Le Maho , <i>Noninvasive monitoring techniques</i> Haifeng Gu , <i>Seed-rodent interaction monitoring technique at individual level</i>
Sat 26 Aug 2017	Symposium Registration
	Lobby, Xining Tianniange Hotel Address: 16 Xinning Lu, Xining, Qinghai, China; Zip: 810008 Tel: +86-0971-51281111 5128222 天年阁饭店大堂 地址: 中国青海西宁新宁路 16 号; 邮编: 810008 电话: +86-0971-51281111 5128222
Sun 27 Aug 2017	Plenary and Symposia
0900-1000	Opening Venue: Meeting Room A, F1, Building 1, The Northwest Institute of Plateau Biology (NWIPB), CAS Chair: Zhibin Zhang
	Opening remarks by Representatives
	ISZS & INZ Reports
	ISZS Young Scientist Award Presentation
	Launch of CAST/ISZS 'Young Elite Scientists Sponsorship Program
1000-1030	Group Photo & Break
1030-1150	Plenary Lectures I (35 minutes for oral presentation, 5 minutes for discussion) Venue: Meeting Room A, F1 Building 1, NWIPB, CAS Chair: John Buckeridge
1030-1110	Ya-Ping Zhang , <i>Population genomics of dog and chicken</i>
1110-1150	Nils Christian Stenseth , <i>A unified biology during the 21st century and its impact on our lives and our environment</i>
1200-1400	Lunch
1400-1510	Plenary Lectures II (30 minutes for oral presentation, 5 minutes for discussion) Venue: Meeting Room A, F1, Building 1, NWIPB, CAS Chair: Yvon Le Maho
1400-1435	Anthony Barnosky , <i>Solving the Anthropocene Extinction Crisis</i>

1435-1510	Larry Young , <i>Why voles fall in love</i>
1510-1520	Break
1520-1915	Session 1: Wildlife Disease and Climate Change The 10th Asia-Pacific Conference for Wildlife-borne Diseases (The 10th APCWD) 第十届亚太地区野生动物疫病区域监测与研究国际研讨会 (15 minutes for oral presentation, 5 minutes for discussion) Venue: Meeting Room A, F1, Building 1, NWIPB, CAS Chair: Hongxuan He
1520-1540	Jon Jeffrey Root , <i>Avian influenza virus associations in wild mammals</i>
1540-1600	Hua Ding , <i>Surveillance, prevention and control of Brucellosis</i>
1600-1620	Parntep Ratanakorn , <i>Establishment of National Wildlife Health Center (NWHC) to fulfill One Health in Thailand</i>
1620-1640	Meng Li , <i>MicroRNA-17-92 attenuates the morbidity and mortality for mice associate with H5 subtype influenza viruses</i>
1640-1700	Susan Shriner , <i>Avian influenza virus in spillover hosts</i>
1700-1720	Zheng Huang , <i>Effect of habitat fragmentation on animal disease risk</i>
1720-1730	Break
1730-1750	Jinping Chen , <i>Identification and isolation of pathogens in crocodile lizard</i>
1750-1810	Pam Whiteley , <i>Wildlife health surveillance of ecosystems in Victoria, Australia, by a university veterinary faculty.</i>
1810-1830	Hamidreza Attaran , <i>Control of avian influenza in Iran</i>
1830-1850	Siamak Masoudi Zanjani , <i>Report of prevention and controlling contagious diseases in wildlife of Iran</i>
1850-1910	Jing Luo , <i>Active surveillance of avian influenza in wild birds</i>
1910-1915	Summary
1520-1830	Session 2: Neurobiology of Motivated Behaviors (20 minutes for oral presentation, 5 minutes for discussion) Venue: Meeting Room B, F1, Building 1, NWIPB, CAS Co-Chairs: Zuoxin Wang, Mohamed Kabbaj
1520-1545	Sonoko Ogawa , <i>Mechanisms of Steroid Hormone Action on the Neural Network for Social Behavior</i>
1545-1610	Fadao Tai and Bo Wang , <i>Effects of Reproductive Experiences on Paternal Behaviors and Relevant Neuroendocrine Parameters</i>
1610-1635	Alexander G. Ophir , <i>Not all who wander are lost: the importance of Socio-spatial Memory in Monogamy and Alternative Reproductive Tactics</i>

1635-1650	Break
1650-1715	Takefumi Kikusui , <i>Oxytocin Forms Inter-individual Relationship</i>
1715-1740	Aaryn Mustoe and Jeffrey A. French , <i>Oxytocin Regulation of Social Motivation in Primates: Cells to Behavior</i>
1740-1805	Wu Nan and Yanjie Su , <i>The Genetic Basis of Human Prosocial Behavior</i>
1805-1830	Mohamed Kabbaj , <i>Sex Differences in Ketamine's Antidepressant-Like Effects</i>
1520-1850	Session 3: Eco-physiology (20 minutes for oral presentation, 5 minutes for discussion) Venue: Meeting Room C, F1, Building 3, NWIPB, CAS Co-Chairs: Dehua Wang, Abraham Haim
1520-1545	Abraham Haim , <i>Testing the Nexus Environmental Changes, Hormone Secretion, Epigenetic Modification and Cellular Function</i>
1545-1610	Nina Vasilyeva , <i>Reproduction in captivity as a model of adaptation to environmental change: desert hamster (Phodopus roborovskii) as an example"</i>
1610-1635	Rogovin K.A. , <i>Non-invasive assessment of stress in the population of Great gerbil, Rhombomys opimus Licht: Effects of social environment, resources and predation</i>
1635-1700	Michael Scantlebury , <i>Disease affects behavior but not energy expenditure in the European badger</i>
1700-1710	Break
1710-1735	Dehua Wang , <i>Thermal Physiology and Thermoregulation of Plateau Pikas in Qinghai-Tibetan Plateau</i>
1735-1800	Anastasia Khrushchova , <i>Torpor in Campbell's hamster (Phodopus campbelli) and desert hamster (Phodopus roborovskii): a comparative analysis</i>
1800-1825	Jiapeng Qu , <i>Integration of behaviour and physiological traits in a wild small herbivore supports the two-tier hypothesis</i>
1825-1850	Feoktistova N.Yu. , <i>Reproductive isolation and speciation in eversmann hamster (Genus allocricetulus Argyropulo, 1932)</i>
1520-1805	Session 4: Eco-microbiology (20 minutes for oral presentation, 5 minutes for discussion) Venue: Meeting Room D, F3, Building 3, NWIPB, CAS Co-Chairs: Guoliang Li, Kevin Kohl
1520-1545	Chuanfa Liu , <i>Gut Microbiota Variation of Yaks (Bos grunniens) Under Artificial Selection</i>
1545-1610	Kevin Kohl , <i>House Sparrows (Passer domesticus) exhibit rapid plasticity of digestive enzymes and the gut microbiota during development</i>

1610-1635	Haibo Fu , <i>Sympatric yaks and plateau pikas promotes digestion by mutual utilization of gut flora</i>
1635-1650	Break
1650-1715	Liangzhi Zhang , <i>The microbial community's characteristics of wild and domestic yak feces reveal major differences in carbohydrate and pyruvate metabolism</i>
1715-1740	Zhenyu Wang , <i>Analysis of bacterial diversity in the intestine of five sympatric rodent species based on 16s rDNA gene sequences</i>
1740-1805	Xianfeng Yi , <i>Acorn chemistry explains the gut microbiome of Curculio larvae</i>
1830-2000	Dinner
Mon 28 Aug 2017	Plenary and Symposia
0830-0940	Plenary Lectures III (30 minutes for oral presentation, 5 minutes for discussion) Venue: Meeting Room A, F1, Building 1, NWIPB, CAS Chair: Anthony Barnosky
0830-0905	Yvon Le Maho , <i>How to get undisturbed control animals in field investigations</i>
0905-0940	Raymond B. Huey , <i>Thermal Sensitivity of Terrestrial Ectotherms in a Warming World</i>
0940-0950	Break
0950-1155	Session 5: How to Track Wild Animals without Disturbance and Subsequent Bias (20 minutes for oral presentation, 5 minutes for discussion) Venue: Meeting Room B, F1, Building 1, NWIPB, CAS Co-Chairs: Yvon Le Maho, Marcel Holyoak
0950-1015	Marie-Amelie Forin-Wiart , <i>The implantation of loggers to answer new questions in undisturbed wild animals</i>
1015-1040	Rory P Wilson , <i>Perspectives on stress for tagged animals</i>
1040-1105	Emily LC Shepard , <i>Animal tracking without tags</i>
1105-1130	Caroline Habold , <i>How to investigate the loss of farmland biodiversity?</i>
1130-1155	Damien Chevallier , <i>The challenge of tracking sea turtles without jeopardizing their survival</i>

0950-1155	Session 6-1: Rewilding, Resilience and Restoration Ecology: Issues in Conservation Management and Community Dynamics (20 minutes for oral presentation, 5 minutes for discussion) Venue: Meeting Room D, F3, Building 3, NWIPB, CAS Co-Chairs: Roger Pech, Charles Krebs
0950-1015	Richard B. Harris , <i>Incentivizing habitat protection of wild ungulates in Tibetan alpine steppe habitats</i>
1015-1040	Weihong Ji , <i>When native species become invasive — challenges in sea grass ecosystem restoration in coastal human inhabited area</i>
1040-1105	Andrew Smith , <i>The keystone role of plateau pikas (Ochotona curzoniae) in the Qinghai-Xizang Plateau ecosystem</i>
1105-1130	Bill Harrower , <i>Using the Rewilding Index to assess climate change impacts on Canadian montane grasslands</i>
1130-1155	Xinhai Li , <i>Spatiotemporal dynamics of a recovering population of the crested ibis (Nipponia nippon) in central China</i>
0950-1155	Session 7-1: Plant-Animal Mutualisms: Their Impact in Terrestrial Ecosystems (20 minutes for oral presentation, 5 minutes for discussion) Venue: Meeting Room A, F1, Building 1, NWIPB, CAS Co-Chairs: Hongmao Zhang, Michael Steele, Xianfeng Yi
0950-1015	Michael Steele , <i>Are acorns adapted for tolerance to seed predation? The multiple roles of acorns as food for predators, fruit for dispersal and fuel for growth.</i>
1015-1040	Shucun Sun , <i>Asymmetric antagonistic networks may improve species coexistence by suppressing community dominants than subordinates</i>
1040-1105	Michał Bogdziewicz , <i>Plant invasions and indirect interactions: apparent competition may slow down invasion of red oaks in Poland</i>
1105-1130	Raul Bonal , <i>The complex determinants of acorn predation by insects in temperate oak forests: from multi-trophic interactions to environmental stochasticity</i>
1130-1155	Xianfeng Yi , <i>Improved spatial memory promotes scatter-hoarding of food-caching animals</i>
1200-1400	Lunch
1400-1435	Plenary Lectures IV (30 minutes for oral presentation, 5 minutes for discussion) Venue: Meeting Room A, F1, Building 1, NWIPB, CAS Chair: Charles Krebs
	Elizabeth Hadly , <i>On top of the world: The evolutionary and ecological tool kits of Himalayan pikas</i>

1435-1445	Break
1445-1600	Session 6-2: Rewilding, Resilience and Restoration Ecology: Issues in Conservation Management and Community Dynamics (20 minutes for oral presentation, 5 minutes for discussion) Venue: Meeting Room D, F3, Building 3, NWIPB, CAS Co-Chairs: Roger Pech, Charles Krebs
1445-1510	Jinzhe Qi & Guangshun Jiang , <i>Land sharing and land sparing reveal social and ecological synergy in big cat conservation</i>
1510-1535	Charles Krebs , <i>Food web dynamics in a boreal forest ecosystem subject to natural rewilding</i>
1535-1600	Roger Pech , <i>Predicted long-term persistence of an indigenous species, Apodemus agrarius, in a rapidly changing agricultural system</i>
1445-1805	Session 7-2: Plant-Animal Mutualisms: Their Impact in Terrestrial Ecosystems (20 minutes for oral presentation, 5 minutes for discussion) Venue: Meeting Room A, F1, Building 1, NWIPB, CAS Co-Chairs: Hongmao Zhang, Michael Steele, Xianfeng Yi
1445-1510	Harmony Dalglish , <i>Environmental variation shifts the relationship between trees and scatterhoarders along the continuum from mutualism to antagonism</i>
1510-1535	Alberto Muñoz , <i>Individual variation in seed dispersal by scatter-hoarding rodents</i>
1535-1600	Bo Wang , <i>Effects of forest fragmentation on rodent-plant interaction</i>
1600-1625	Aluri Jacob Solomon Raju , <i>Influence of changing environment on bird-flower interaction</i>
1625-1635	Break
1635-1700	Michal Segoli , <i>Nitrogen fixation for a third party: Do microbial symbionts of insects contribute to nitrogen intake by plants?</i>
1700-1725	Nathanael Lichti , <i>Theoretical perspectives on lifetime reproductive success in scatter-hoarded plants from a dynamic animal foraging model</i>
1725-1750	Haifeng Gu , <i>Scatter-hoarding favors cache owners: a study on a rodent community using infrared camera tracking</i>
1750-1815	Josep M. Espelta , <i>Plant-animal interactions in expanding “new forests”: Assembly rules, consequences and perspectives</i>
1815-1840	Matt D. Biddick , <i>Pollination paradox: the role of bird-pollinators in the floral biology of islands</i>
1840-1905	Hongmao Zhang , <i>Does masting benefit seedling establishment through predator satiating or dispersal?</i>

1445-1650	Session 8-1: Biological Buffers and the Impacts of Climate Change (20 minutes for oral presentation, 5 minutes for discussion) Venue: Meeting Room B, F1, Building 1, NWIPB, CAS Co-Chairs: Raymond B. Huey, Lauren Buckley, Wei-Guo Du
1445-1510	Michael Angilletta , <i>How biologists model ecological and evolutionary impacts of climate change</i>
1510-1535	Susana Clusella-Trullas , <i>Buffers and amplifiers: behavioural thermoregulation as a key moderator of climate change impacts</i>
1535-1600	Michael Ray Kearney , <i>A high temperature diapause at the egg stage buffers exposure to thermal extremes in a morabine grasshopper</i>
1600-1625	Mark Denny , <i>Predicting survival in a changing climate: Unexpected consequences of Individual variation in body temperature and thermal physiology</i>
1625-1650	Chunsen Ma , <i>Buffering extreme climate through ontogeny variation in thermal tolerance</i>
1800-2000	Dinner
1900-2100	Workshop on Conservation Biology Venue: Meeting Room, Tianniang Hotel Chair: Fuwen Wei
1900-2100	Workshop on Protected Areas (PA): How to promote wildlife monitoring for improving PA management? Venue: Meeting Room, Tianniang Hotel Co-Chairs: Yan Xie, Anthony Barnosky
	<p>Participants: Any participant to the symposium. You are welcome to provide any comment, observation or suggestion on the topic.</p> <p>Background: Healthy wildlife population is the best indicator to healthy ecosystem and also the success of Protected Area (PA) management. Although there are flagship species as giant panda, tiger and elephant, have been monitored, however, in general, wildlife monitoring has not yet been included as an important and routine work benefiting PA management.</p> <p>Since 2016, ISZS has supported the International Alliance of Protected Areas (IAPA) which became an ISZS affiliation since the third General Assembly (GA) of IAPA in Sept. 2016. By July 2016, there are 61 PA organization members joined in IAPA. Important tasks of the IAPA are to promote species survey and monitoring in member PAs and promote trans-regional endangered species</p>

	<p>conservation and monitoring actions jointly taking by member PAs.</p> <p>Taking the advantage of IAPA platform of PA members worldwide, we organized the discussion panel on “How to promote wildlife monitoring for improving PA management” during the 9th International Symposium of Integrative Zoology and sincerely invite you to participate the discussion and we are greatly appreciate your invaluable comments and promote wildlife monitoring in PAs in the world.</p> <p>The fourth IAPA GA will be held in Tangjiahe National Nature Reserve, 20-25th October, Sichuan, China. The output of the discussion panel will be used in the training workshop during the GA in Tangjiahe.</p> <p>IAPA was proposed by Changbai Mountain National Nature Reserve in 2013 and is officially established in 2016 and affiliated to the ISZS during the third General Assembly (GA) of IAPA in Sept. 2016. The IAPA unites all kinds of protected areas (PA) in the world to promote more effective management and conservation. The IAPA will promote coordination, collaboration and cooperation among PAs at national, regional and international levels, via closely working with existing organizations endeavored to PA conservation. The IAPA will strive to attain a rational and ethically balanced relationship between humanity and nature.</p>
Tue 29 Aug 2017	Plenary and Symposia
0830-0940	<p>Plenary Lectures V (30 minutes for oral presentation, 5 minutes for discussion)</p> <p>Venue: Meeting Room A, F1, Building 1, NWIPB, CAS</p> <p>Chair: Marcel Holyoak</p>
0830-0905	John Buckeridge , <i>Conservation and the status of non-endemic taxa</i>
0905-0940	Xinquan Zhao , <i>Management of Three Rive Source National Park: balancing between wildlife conservation and livestock production</i>
0940-0950	Break

0950-1100	Special Session CAST/ISZS ‘Young Elite Scientists Sponsorship Program Venue: Meeting Room D, F3, Building 3, NWIPB, CAS Co-Chairs: Hongmao Zhang, Jiqi Lu
0950-1015	Yingze Xiong , School of Life Sciences, Central China Normal University, China: <i>Effects of plant-pollinator interaction on reproductive isolation within sympatric orchids</i>
1015-1040	Jundong Tian , School of Life Sciences, Zhengzhou University, China: <i>Adaptation to high-latitude environment in Taihangshan macaques: based on the meta-genomic and meta-transcriptomic analyses</i>
1040-1100	Discussion
0950-1150	Session 8-2: Biological Buffers and the Impacts of Climate Change (20 minutes for oral presentation, 5 minutes for discussion) Venue: Meeting Room B, F1, Building 1, NWIPB, CAS Co-Chairs: Raymond B. Huey, Lauren Buckley, Wei-Guo Du
0950-1015	Luc De Meester , <i>Importance and limitations of genetic adaptation as a buffer to climate change</i>
1015-1040	Ary Anthony Hoffmann , <i>Buffering climate change effects through evolutionary adaptation: can gene pool mixing help?</i>
1040-1100	Caroline Williams , <i>Energetic and life history consequences of cold adaptation in Drosophila melanogaster</i>
1100-1125	Liang Ma , <i>A global test of the cold-climate hypothesis for the evolution of viviparity</i>
1125-1150	Barry Sinervo & Qi Yi , <i>Extinction of Phrynocephalus lizards due to climate change: from the hottest to the coldest places in the world</i>
0950-1205	Session 9-1: Research and Conservation of Marine Mammals in Asia-Pacific Waters (20 minutes for oral presentation, 5 minutes for discussion) Venue: Meeting Room 1, F1, Building 1, NWIPB, CAS Co-Chairs: Ding Wang, Guang Yang, Songhai Li
0950-1015	Paul E. Nachtigall , <i>Four odontocete species change hearing levels when warned of impending loud sound</i>
1015-1040	Tomonari Akamatsu , <i>Acoustic mapping of finless porpoises’ distribution</i>
1040-1105	Ding Wang , <i>Saving the porpoise in a heavily disturbed river: what had been done and where to go?</i>
1105-1140	Guang Yang , <i>Genetic basis of high milk fat and protein content in marine mammals</i>
1140-1205	Wenhua Liu , <i>A preliminary result on cetaceans in Chaozhou-Shantou (Chaoshan) waters, China</i>

1200-1400	Lunch
1400-1435	Plenary Lectures VI (30 minutes for oral presentation, 5 minutes for discussion) Venue: Meeting Room A, F1, Building 1, NWIPB, CAS Chair: Alexey Surov
1400-1435	Susan Healy , <i>Animal cognition in 2017</i>
1435-1445	Break
1445-1625	Session 9-2: Research and Conservation of Marine Mammals in Asia-Pacific Waters (20 minutes for oral presentation, 5 minutes for discussion) Venue: Meeting Room A, F1, Building 1, NWIPB, CAS Co-Chairs: Wang Ding, Guang Yang, Songhai Li
1445-1510	Tao Chen , <i>Distribution and abundance of Indo-Pacific humpback dolphins (Sousa chinensis) in the Moyang River Estuary: the western boundary of the world's largest population of humpback dolphins</i>
1510-1535	Songhai Li , <i>Potential impacts of shipping noise on Indo-Pacific humpback dolphins and implications for regulation and mitigation</i>
1535-1600	Alexander Huang , <i>Resilience of Indo-Pacific humpback dolphins, Sousa chinensis, in anthropogenic habitat changes</i>
1600-1625	Daoping Yu , <i>One potential factor for the functional extinction of the Baiji: the loss of foraging areas in winter</i>
1445-1750	Session 10: Animal Cognition (20 minutes for oral presentation, 5 minutes for discussion) Venue: Meeting Room B, F1, Building 1, NWIPB, CAS Co-Chairs: Susan Healy, Jiani Chen
1445-1510	Debbie Kelly , <i>The effects of compass error on spatial search by Clark's nutcrackers</i>
1510-1535	Lauren Guillelte , <i>Social learning in nest-building zebra finches: a video playback experiment</i>
1535-1600	Andrea Griffin , <i>Inference by exclusion in the Australian red tailed black cockatoo</i>
1600-1625	Maria Cristina Tello-Ramos , <i>Hummingbirds travelling through space and time</i>
1625-1635	Break
1635-1700	David Sherry , <i>Spatial Memory and the Hippocampus of Brood Parasitic Cowbirds</i>
1700-1725	Natalie Hempel di Ibarra , <i>Seeing and moving: how flight affects visual learning in bees</i>
1725-1750	Susan Healy , <i>The future of animal cognition</i>

1445-1840	Session 11: General Session (20 minutes for oral presentation, 5 minutes for discussion) Venue: Meeting Room D, F3, Building 3, NWIPB, CAS Co-Chairs: Sarita Maree, Menghua Li
1445-1510	Jacob D. Wickham , <i>Identification of pheromones of the potentially invasive cerambycid beetles Callidiellum villosulum and Allotraeus asiaticus</i>
1510-1535	Gang Song , <i>Complete taxon sampling of the avian genus Pica (magpies) reveals ancient relictual populations and synchronous Late-Pleistocene demographic expansion across the Northern Hemisphere</i>
1535-1600	Hongfeng Zhao , <i>Identification of encephalic photoreceptors in the avian brain</i>
1600-1625	Archana Naithani , <i>Bird community structure in relation to landscape types in Northeastern Thailand</i>
1625-1635	Break
1635-1700	Simin Chai , <i>Convergent evolution at hearing-related genes provides insights into echolocation in the European common shrew</i>
1700-1725	Di Sun , <i>Comparative Genomic Reveals Insights into Secondary Aquatic Adaptation of Bone Microstructure</i>
1725-1750	Fabian Fassnacht & Li Li , <i>Cultural landscape of the eastern Qinghai-Tibetan Plateau protecting both avian diversity and endemism</i>
1750-1815	Amara Akhtar , <i>Catalase characterization in metal mixture (Pb+Cr) exposed Labeo rohita</i>
1815-1840	Yonghua Wu , <i>Reconstructing diel activity pattern of ancestral mammals using a molecular phyloecological approach</i>
1800-2000	Dinner
1900-2100	ISZS EC Meeting & INZ Editorial Board Meeting Venue: Meeting Room 1, 414, F4, Zonghelou Building, the Qinghai Institute of Salt Lakes, CAS Chair: Zhibin Zhang
Wed 30 Aug 2017	After-meeting training or Field Trip
0830-1200	After-meeting training 1: Bio-informatics Lectures in Xining, Qinghai Venue: Meeting Room D, F3, Building 3, NWIPB, CAS Co-Chairs: Yanming Zhang & Chunxu Han

0830-0920	John Buckeridge: <i>The species concept: are we currently moving toward taxonomic anarchy?</i>
0920-1010	Ary Anthony Hoffmann, <i>Using population genomic approaches to approach biological issues: mosquito control and biology</i>
1010-1020	Break
1020-1110	Guang Yang: <i>Comparative genomics and secondary aquatic adaptation</i>
1110-1200	Alexey Surov, <i>The biggest and the smallest hamsters: Genetic structure, range history and global change</i>
1200-1400	Lunch
1400-1500	Menghua Li, <i>Statistical approaches for genome-wide selection tests by incorporating environmental variables</i>
1500-1600	Michael Ray Kearney, <i>Mechanistic Niche Models of Climatic Constraints on Animals</i>
1600-1615	Break
1615-1730	Workshop on writing scientific papers (<i>intended for graduate students and post-doctors</i>) Venue: Meeting Room D, F3, Building 3, NWIPB, CAS Chair: Raymond Huey
Thu 31 Aug 2017	After-meeting training or Departure
0900-1200	After-meeting training 2: Bio-informatics Lectures in Xining, Qinghai Venue: Meeting Room D, F3, Building 3, NWIPB, CAS Co-Chairs: Yanming Zhang & Chunxu Han
0900-1000	Qi Wu, <i>Linux basics in Bio-informatics</i>
1000-1100	Zhijin Liu, <i>Genome re-sequencing analysis</i>
1100-1110	Break
1110-1200	Shengkai Pan, <i>Transcriptome analysis</i>
Posters Sessions (poster size: 114cm in height and 80 cm in width) Venue: Lobby, F1, Building 1, NWIPB, CAS	
Fei Tong, <i>Preparation of exenatide-loaded linear poly(ethylene glycol)-brush poly(L-lysine) block copolymer: potential implications on diabetic nephropathy</i>	
Hyunjun Cho, <i>Genetic diversity, phylogeography and population demography of the finless porpoise (<i>Neophocaena asiaeorientalis</i>) of in East Asia</i>	
Blanca Moncunill-Solé, <i>How insular regimes affect to the size of small mammals? A paleontological perspective</i>	
Hai-Yan Nie, <i>Geographic distribution pattern and dispersal route of Urodela in China</i>	

Chen Gu , <i>Effects of maternal stress induced by a predator odor during pregnancy on behavioral and physiological responses of offspring in Brandt's vole (Lasiopodomys brandtii)</i>
Haifeng Gu , <i>Monitoring seed-rodent interaction at individual level by using seed tagging and IR Camera trapping methods</i>
Minmin Chen , <i>Man-made riverbanks seriously affect the distribution of the Yangtze finless porpoise</i>
Xifu Yang , <i>Methods of mapping the seed-rodent interaction networks</i>
Heng Bao , <i>Effects of interspecific interaction-linked habitat factors on moose resource selection and environmental stress</i>
Heng Bao , <i>Moose winter diet components from feces and field feeding signs: consistency and variability related to forage availability and nutritional requirements</i>

Note: Oral presentation PowerPoint slides should be loaded to the symposium computer beforehand in order to save time. Look for symposium volunteers if you need any help.

30 Aug 2017	Field Trip
<p>The field trip is a day-trip to Ta'er Monastery & Qinghai Lake. Please do your enrolment when doing your registration in the lobby, Xining Tianniang Hotel on 26 Aug. The price is US\$80 (460 CNY), including bus, entrance ticket, insurance, English-speaking guide, a bottle of water and lunch. The field spots include:</p> <ul style="list-style-type: none"> ● Passing through the Huangyuan Valley (Qinghai-Tibet Throat), Huangyuan County (Plateau Commercial City) and Daotanghe (Anti-flow River). The water in the river is said coming from Princess Wencheng's tears. Princess Wencheng (628–680) was a member of the royal clan of the Chinese Tang dynasty. In 641, she was granted to King Songtsan Gampo of Tibet for marriage. ● 40-minute visit to Riyue Shan (The Sun and Moon Mt), where Princess Wencheng smashed her Mirror of the Sun and Moon. Also, the mountain is the boundary range between Loess Plateau and Qinghai-Tibet Plateau in China; ● 2-hour visit to Qinghai Lake. The largest inland salt lake in China. (Neither Battery car nor ferry included); ● 1-hour visit to Jinyintan (the grassland with yellow and white flowers) ● 2-hour visit to Ta'er Monastery, famous for its frescoes, duixiu (crafting patchwork barbola) and butter sculptures. (Battery car and ferry is included). <p>Tips: The highest point during the trip is 3520 meters above sea level and the temperature on plateau may vary dramatically. Please avoid severe exercise and do take warm clothes with you during the trip.</p>	

Participant Instructions

Venue

The Venue of the symposium is at the Northwest Institute of Plateau Biology (NWIPB), CAS; Address: 23, Xinning Lu, Xining, Qinghai, China 810008; Tel: +86-971-6143530 Fax: +86-971-6143282. 中国科学院西北高原生物研究所; 地址: 青海省西宁市城西区新宁路 23 号 邮政编码: 810008; 电话: +86-971-6143530; 传真: +86-971-6143282

The NWIPB, CAS is located at the western part of Xining city and most of the symposium events will take place at NWIPB, CAS, except the 2 workshops on the evening 28 Aug, which are at the meeting rooms in Tianniange Hotel.



The Location of NWIPB in Xining

Accommodation Information

The recommended hotels are set out as below:

1. Xining Tianniange Hotel (4-Star, US\$80 with breakfast)

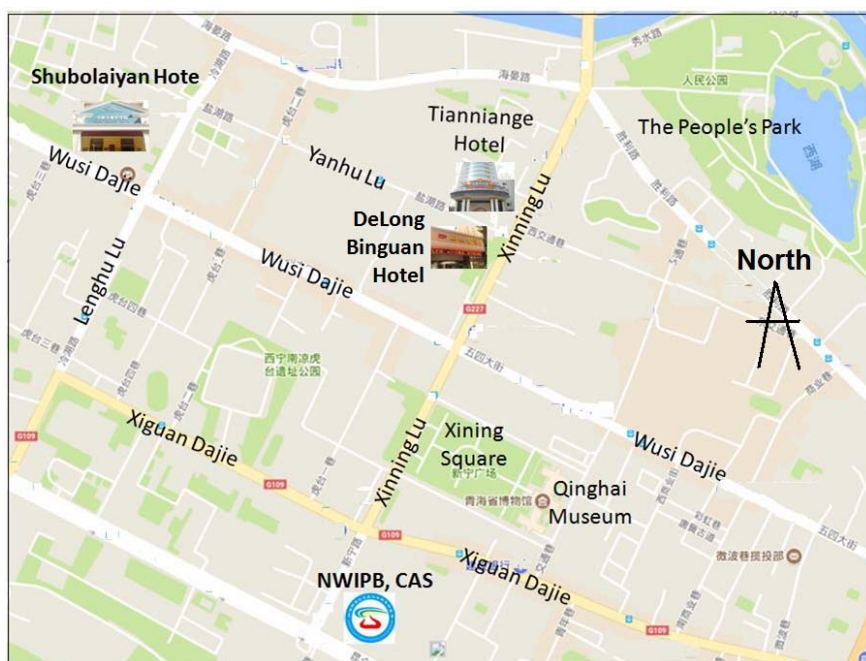
Address: 16 Xinning Lu, Chengxi District, Xining, Qinghai, China; Zip: 810008; Tel: +86-0971-51281111 or 5128222. 天年阁饭店: 地址: 中国青海西宁城西区新宁路 16 号; 邮编: 810008; 电话: +86-0971-51281111 或 5128222

2. Xining Shubolaiyan Hotel (US\$70 with breakfast)

Address: 36, Wusixilu, Chengxi District, Xining, Qinghai, China; Zip: 810008; Tel: +86-0971-6320888. 舒泊来雁小酒店: 地址: 中国青海西宁城西区五四西路 36 号; 邮编: 810008; 电话: +86-0971-6320888

3. DeLong Binguan Hotel (US\$40 with breakfast)

Address: 18 Xinning Lu, Chengxi District, Xining, Qinghai, China; Zip: 810008; Tel: +86-0971-5368616 or 5368618. 德龙宾馆: 地址: 中国青海西宁城西区新宁路 18 号; 邮编: 810008; 电话: +86-0971-5368616 或 5368618



Map of Hotels

Registration

The registration desk will be set up at the Lobby, Tianniange Hotel. The address is 16 Xinning Lu, Chengxi District, Xining, Qinghai, China; Zip: 810008; Tel: +86-0971-51281111 or 5128222. If you take a taxi, please show your taxi driver these characters in Chinese: 天年阁饭店: 地址: 西宁城西区新宁路 16 号; 邮编: 810008; 电话: +86-0971-51281111 或 5128222

Participant's Badge: The participant's badge may be collected from the Registration Desk. This badge is available only to the invited plenary speakers, ISZS EC Members, and those who have paid the registration fee.

Registration Fee: The registration fee is US\$200 for ordinary attendees and US\$150 for ISZS members, students or accompanying guests. Extra fees will be charged for those who wish to exhibit products or devices during the symposium. The registration fee does not cover local accommodation or insurance (but does cover the lunch and supper during the symposium). Registration fee for ISZS EC and AC members, INZ board members, invited plenary and session speakers, ISZS Working Group members is to be waived.

Ordinary Attendee	ISZS Members, Students or Accompanying Guests
US\$200	US\$150

Payment: Please pay your registration at the Registration Desk, Lobby, Tianniange Hotel.

Refund Policy: The Secretariat incurs costs immediately upon the registration of a participant. If no other costs are incurred, there will be a processing fee (20% of the registration fee you paid) for a refund. There will be no refunds after 15 July 2016. Questions regarding refunds may be sent to the Secretariat at: iszs@ioz.ac.cn or fax +86-10-6480-7295.

Insurance

All insurance during the meetings and while traveling in China must be self-arranged.

Financial support

ISZS will cover the local costs (including registration fee, hotel accommodation and meals) of ISZS EC and AC members, invited speakers, ISZS Working Group Members and guests, as individually arranged with the Secretariat in advance.

Working Language

The working language of the symposium and training course is English.

ISZS Membership

Attendees of the symposium will become ISZS members and enjoy related (unpaid) membership benefits. For details on ISZS membership benefits, please visit the website at: <http://www.globalzoology.org/Membership/MembershipBenefits.aspx>.

Note that if an Individual Member would like to enjoy voting rights at the ISZS General Assembly (the next is in 2020), they are required to pay 40 Euros (RMB300) per 4-year term and Institutional Members pay 500 Euros per 4-year term. You can pay your membership fee at the Registration Desk, Lobby, Tianniang Hotel. If voting rights are waived, your membership is free.

Transportation to Hotels

Airport pick-up: Pick-up buses will be organized at Xining Airport on 26 August 2017. The time table for the buses is set out as below:

Date	Time	Destination
26 Aug 2017	10:30	From Airport to Tianniang Hotel
	14:30	From Airport to Tianniang Hotel
	20:30	From Airport to Tianniang Hotel
	22:30	From Airport to Tianniang Hotel

Note: Symposium Volunteers will be placed at Xining Airport, Sat 26 Aug 2017. Please look for the CONFERENCE VOLUNTEERS holding the ISZS Logo at Exit, Xining Airport.



ISZS Logo

Public means of transportation from Xining Airport to Tianiang Hotel: Take Airport Bus at Xining Airport. Get off at Yinlong Hotel (银龙酒店) in Xining City. Then take a taxi or public bus to Tianniang Hotel.

The Airport Bus starts 30 minutes after each flight arrives at the Xining Airport. The price for the airport bus is 21 CNY (US\$4) per person and the price for a taxi from Yinlong Hotel in the city to Tianniang Hotel is about 10 CNY (US\$2).

Note: Symposium Volunteers will be placed at Yinlong Hotel (银龙酒店) Sat 26 Aug 2017. Please look for the CONFERENCE VOLUNTEERS holding the ISZS Logo when you get off the at Yinlong Hotel (银龙酒店).

If you take a bus, please take Bus No9 or 16 at Wucha Lukou (五岔路口) Stop which is just 5-minute walk from Yinlong Hotel. Get off at Wusi Xilukou (五四西路口) Stop. Walk towards the traffic lights cross on your right. Turn left at the traffic lights cross at Xining Lu. It takes 5 minutes to walk to Tianniang Hotel on your left. The bus fare is just 1 CNY (US\$0.2).

If you take a taxi from the Xining Airport to Tianniang Hotel, the price is approximately 120 CNY (US\$20).

Please show the following Chinese characters to your taxi driver when you are in your taxi:

请送我到西宁天年阁酒店 (**Pronunciation: Qing song wo dao tian nian ge jiu dian**)

Meaning: Please take me to Tianniang Hotel

From Railway Station to Tianniang Hotel: Take Bus No9 or 16 at the bus terminal at Xining Railway Station and get off at Wusi Xilukou (五四西路口) Stop. Walk towards the traffic lights cross on your right. Turn left at the traffic lights cross at Xining Lu. It takes 5 minutes to walk to Tianniang Hotel on your left. The bus fare is just 1 CNY (US\$0.2). If you take a taxi at the Railway Station, the price is approximately 60 CNY (US\$10)

From hotels to venue, NWIPB, CAS

From Tianniang Hotel: Walk right along Xining Lu in front of Tianniang Hotel. Pass 2 traffic lights cross. NWIPB, CAS is on the left side of Xining Lu.

From Delong Binguan Hotel: Turn right at the hotel gate. Walk along Xining Lu. Pass 2 traffic lights cross. NWIPB, CAS is on your left side of Xining Lu.

From Shubolaiyan Hotel: Turn left at the hotel gate. Walk along Wusi Xilu. Turn right at the traffic lights at Xining Lu cross. Pass 1 traffic lights cross. NWIPB, CAS is on your left side of Xining Lu.

Please show the following Chinese characters when you asking your way:

请告诉我怎么去中科院生物研究所 (**Pronunciation: qing gao su wo zen mo qu zhong ke yuan sheng wu yan jiu suo**)

Meaning: Please tell me how to go to NWIPB, CAS.

Currency, Credit Cards and ATM

The Chinese currency is the Chinese yuan, known as CNY or RMB. One CNY consists of 10 jiao (dimes) or 100 fen (cents; these are seldom seen). Denominations available in bank notes are 1, 5, 10, 20, 50 and 100 CNY. Participants can exchange currencies at airports, banks and major hotels in China. The exchange rate is provided daily by the Bank of China. Currently, 1 USD is equivalent to approximately 6.66 CNY. All currency exchange receipts should be saved in order to change RMB back to your own currency as banks may request to see the original exchange receipt. You must have your passport when exchanging money.

Visa, MasterCard, American Express, Diners Club, and JCB are accepted in larger department stores and hotels. ATMs are available for you to obtain RMB with your credit or debit cards. The amount deducted from your account will vary due to fluctuations in the exchange rate.

Internet Access

Internet service should be available in your hotel room, the airport and some areas around the city.

Oral presentation up-load:

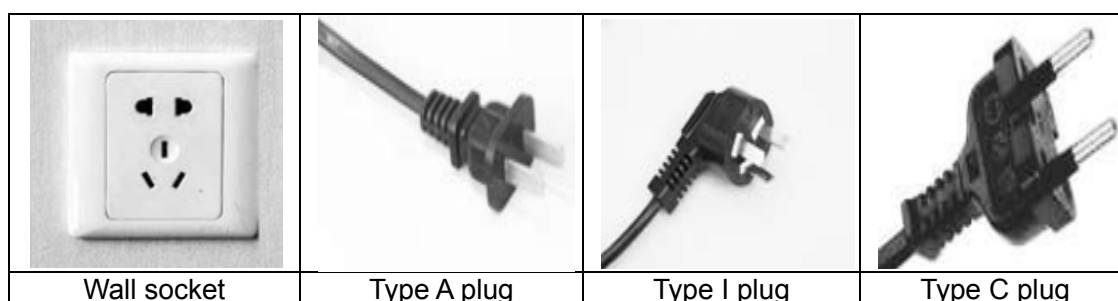
Oral presentation PowerPoint slides should be loaded to the symposium computer beforehand in order to save time.

Water

It is not recommended to drink tap water in China. If you want to drink cold water, it is best to purchase bottled water. It also is recommended that you avoid ice cubes. Hotels usually provide an electric kettle to boil water in your room. Consider using a reusable water bottle to protect our environment.

Voltage, Socket and Plugs

The electrical current in China is 220-volts, 50Hz A/C. Hotels usually provide wall sockets in every room, accommodating both the standard "Flat blade attachment plug (Type A)" and common "Oblique flat blades with ground (inverted V) plug (Type I)", as well as the not-so-common "Round pin attachment plug (Type C)" as shown in following photographs.

**Hotline Phone Numbers**

110 Police
114 Local Telephone Number I Inquiries
116 Domestic Long Distance Inquiries
117 Time Inquiries
119 Fire
120 Ambulance
121 Weather Forecast
122 Traffic Police

Help Us to Minimize Our Footprint

- The cooling of all venues will be set at 26°C. Please dress comfortably and casually.
- Feel free to return any unwanted conference materials.
- We have organized non-disposable plates and cups during breaks and meals. Please help by using only what you need.

Contacts**ISZS Beijing Office**

Address: Room C-506, Institute of Zoology, Chinese Academy of Sciences, 1 Beichen West Road, Chaoyang District, Beijing 100101, China

Tel: +86-010-6480-7295; Fax: +86-010-6480-7295; iszs@ioz.ac.cn; Website:

www.globalzoology.org

For symposia, donation and advertisement: Mr Chunxu Han (English and Chinese; iszs2@ioz.ac.cn)

Official Conference Website

The official website for the symposium is updated regularly and available at:

<http://isiz9.csp.escience.cn>.

Information on Xining

Xining (Chinese Name: 西宁; Pronunciation: xī níng), the capital city of Qinghai province, is located in the northeast of Qinghai–Tibet Plateau, the transitional zone between Loess Plateau and Qinghai-Tibet Plateau. With its population over one million and a total area of 7665 km², the city is the center of politics, economy, culture, transportation, education and health care of Qinghai province in China.



Location of Xining in China

Lying in the east of Qinghai province, midstream of Huangshui Valley, Xining is also the eastern gateway of Qinghai-Tibet Plateau and known as “The key to the west” and “Qinghai-Tibet Throat” even since ancient times. The average temperature in summer is 18.3°C which is very comfortable. As a result, the city enjoys a reputation as “Summer Resort” in China.

Climate data for Xining (1971–2000)					
Month	Jun	Jul	Aug	Sep	Year
Average high °C (°F)	22.6 (72.7)	24.6 (76.3)	23.9 (75)	19.0 (66.2)	13.8 (56.8)
Daily mean °C (°F)	15.3 (59.5)	17.3 (63.1)	16.6 (61.9)	12.3 (54.1)	6.1 (43)
Average low °C (°F)	9.5 (49.1)	11.5 (52.7)	11.1 (52)	7.5 (45.5)	0.4 (32.7)
Average precipitation (inches)	59.2 (2.331)	88.2 (3.472)	74.0 (2.913)	54.4 (2.142)	373.8 (14.717)
Average relative humidity (%)	60	65	66	68	55.2
Source: China Meteorological Administration					

Close to the Qinghai–Tibet Plateau (also know and functioning as the Third Pole or “water tower” in the world), Xining is rich in natural sceneries and wildlife precise. The Qinghai lake, meaning “green blue sea,” is just about 80 km away from the city, and the typical wildlife species among others are Tibetan antelope (*Pantholops hodgsonii*) and plateau pika (*Ochotona curzoniae*).



Qinghai Lake (left) and water birds (right) swimming on the lake



Tibetan antelope(left) and plateau pika (right) on Qinghai–Tibet Plateau



IUBS/ISZS International Research Program: Biological Consequences of Global Change (BCGC)

Program Co-ordinator :

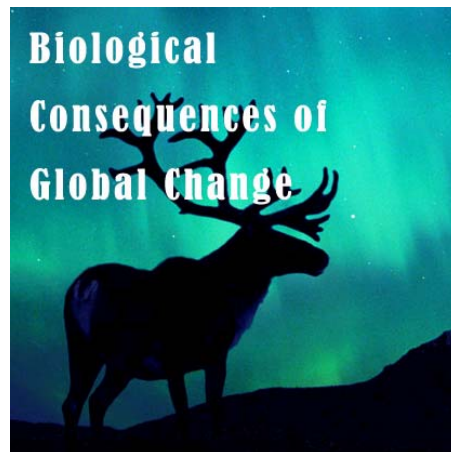
Zhibin Zhang (zhangzb@ioz.ac.cn)

Program committee members:

John Buckeridge (Australia), Nils Stenseth (Norway), Yury Dgebuadze (Russia), Alain Roques (France), Hari Sharma (India), David Wake (USA), Fuwen Wei, Jianghua Sun, Yan Xie, Xinhai Li (China), and many others.

Background

Global change is now one of the most discussed topics in the world. Indeed, our earth is facing great challenges of global change, such as global warming and human disturbance. Understanding the impact of global change is extremely important for the sustainable development of our society. Unfortunately, the biological consequences of global change have been largely ignored. There is urgent need to strengthen researches on the biological consequences of global change.



It was due to these circumstances that the ISZS initiated an international research program called BCGC in 2008, first supported by the CAS. In 2009, ISZS organized a symposium on BCGC in Beijing and about 130 participants attended the symposium. Also in 2009, BCGC was adopted by IUBS as a new international research program, led by Zhibin Zhang, Yury Yu Dgebuadze and Hari Sharma. In Jun 2010 and Jul 2012, *INZ* published two special issues on BCGC, edited by Nils Chr. Stenseth and Zhibin Zhang respectively. The third issue is in press for the conference, as we speak! Currently, there are over 20 scientists from the USA, Australia, Chile, China, France, Germany, India, Israel, Norway, Russia and South Africa in the program.

The focus of the BCGC program is to organize a diverse group of international experts, with expertise in many scientific disciplines, to develop an understanding of the biological consequences and the mechanisms on biological structures, endangered species and biological disasters under both global climate change and human activities. BCGC has become a core scientific program of IUBS according to a recent review by IUBS.

The IUBS/ISZS sponsored BCGC program provides an excellent platform for scientists around the world to collaborate in exploring the impact of global change on biodiversity, ecological infectious diseases, agricultural pests, invasive species and many other topics of interest. In future, BCGC should expand its research networks to include more sciences from different places around the globe. This will help to reveal regional differences in response to biological aspects of global change. BCGC will continue to improve its website and database quality which will further promote idea exchanges and accurate modeling studies. BCGC will also improve public awareness about its research output, which may help in the policy-making of governments for managing our biological resources.

Questions addressed by the project:

- Outbreaks of biological disasters, such as disease pest outbreaks
- Biological invasion of alien species
- Abundance and range shifts of endangered species

- Community structure and biodiversity of different ecosystems
- Nonlinearity and interactions of biological populations

Goals:

- To promote understanding of BCGC and improve the management of our earth
- To promote international collaborations
- To promote the influence and leadership of the BCGC program and the IUBS/ISZS

Action plan (2012–2016):

- Program network expansion: to attract more scientists and partners to join the BCGC international network and to increase the international research working force so as to promote the influence of the program and strengthen its current research capability
- Database consolidation: to set up an information exchange mechanism and to build up an open access database to promote data sharing among scientists internationally
- International symposia/workshops: to organize at least two international symposia or workshops, with emphasis on range shift of species and population dynamics under global warming and responses of biodiversity change to human disturbances
- Publications: to publish 2 special issues of BCGC in the SCI-indexed journal, *Integrative Zoology*
- International training course on BCGC: to organize 2 international training classes under the BCGC theme

Contact the ISZS

T/F: +86-010-64807295

E: iszs@ioz.ac.cn

www.globalzoology.org

Chunxu Han (English and Chinese; iszs2@ioz.ac.cn)

Wenhua Xiong (English and Chinese; inz@ioz.ac.cn)



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International Union of Biological Sciences (IUBS)

The International Union of Biological Science (IUBS) is a non-governmental non-profit organization established in 1919. Its goals are to promote the study of biological sciences; to initiate, facilitate and coordinate research and other scientific activities necessitating international, interdisciplinary cooperation; to ensure the discussion and dissemination of the results of cooperative research, particularly in connection with IUBS scientific programs; and to support the organization of international conferences and assist in the publication of their reports.

IUBS Paris Office

Dr Nathalie Fomproix, Executive Director

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91 405 Orsay Cedex, France

Tel +33 (0)1 69 15 50 27

E-mail: nfomproix@iubs.org

Website: www.iubs.org



International Society of Zoological Sciences (ISZS)

The International Society of Zoological Sciences (ISZS) is a nonpartisan, nonprofit membership-based organization of professionals and aims to promote zoology by improving communication between zoologists and zoological organizations; increase the availability of resources needed to conduct zoological research; and promote co-ordination, collaboration and co-operation between different fields of zoology.

By representing a broad cross-section of zoologists and other interested in animals, the ISZS provides a unified voice for zoologists across the world while elevating zoology to the global stage. The Society strives to attain a rational and ethically-balanced relationship between humanity and nature.

The core business of ISZS is to organize the International Congress of Zoology every four years (started in Paris in 1889), publishing a multidisciplinary scientific journal–*Integrative Zoology* (SCI-Indexed), organizing International Symposia of Integrative Zoology in non-Congress years, and facilitating international research programs such as Biological Consequences of Biological Sciences (BCGC).

ISZS currently has 126 Institutional Members (whom in turn represent over 30 000 individuals) and 1238 Individual Members. ISZS members can be found on every continent in the world and they are academies of science, universities, NGOs, nature reserves, zoos and other professional societies. ISZS is directed by an executive committee elected during its General Assembly.

To become an ISZS member or subscribe the journal, please contact Dr Wenhua Xiong (xiongwh@ioz.ac.cn). For BCGC and further information, please contact Chunxu Han (iszs2@ioz.ac.cn).

ISZS Secretariat Beijing Office

Address: Room C-506, Institute of Zoology, CAS, 1 Beichen West Road, Chaoyang District, Beijing, 100101, China
Fax: 86-010-64807295;
Tel: 86-010-64807295
E-mail: iszs@ioz.ac.cn
Website: www.globalzoology.org



The Northwest Institute of Plateau Biology, CAS

The Northwest Institute of Plateau Biology (NWIPB), established in 1962, is engaged in basic and applied research on plateau ecology, biological resources and plateau eco-agriculture.

Its scientific research areas include the alpine meadow ecosystem, mammals, agriculture, and biological resources of the Qinghai-Tibetan Plateau, among others. Over the past half century, NWIPB has recorded over 350 important scientific achievements and has won 138 prizes at the national, CAS and provincial levels in China, respectively. So far, NWIPB has published 135 monographs and 4,144 papers. It has also developed 41 new crop varieties and has been granted 76 patents.

The current research facilities at the institute include four field research stations, the CAS Key Laboratory of Adaptation and Evolution of Plateau Biota, the CAS Key Laboratory of Tibetan Medicine, four Qinghai provincial key laboratories and two engineering research centers. The institute offers doctoral and postdoctoral programs in ecology and biology as well as master's programs in ecology, botany, zoology and Chinese pharmacology.

NWIPB attaches great importance to cooperating with scientists around the world. Currently, it has established long-term cooperative relationships with researchers in the US, UK, Germany, Sweden, Russia and Australia, amongst many other countries in the world. With a focus on Plateau Biology, the institute is keen on seeking international cooperation and collaboration, especially in the following areas:

- 1) Alpine plant evolution and adaptation;
- 2) Ecosystem processes/functions under global climate change;
- 3) Germplasm creation and breeding of high-yield alpine crops and forage grasses;
- 4) Sustainable utilization and product development of plateau bioresources;
- 5) Development and introduction of sustainable alpine ecosystem models and technologies.

The Northwest Institute of Plateau Biology, CAS

Add: 23 Xinning Lu, Xining, Qinghai, China 810008

Tel: +86-971-6143530 Fax: +86-971-6143282

Website: <http://english.nwipb.cas.cn/au/bi/>