

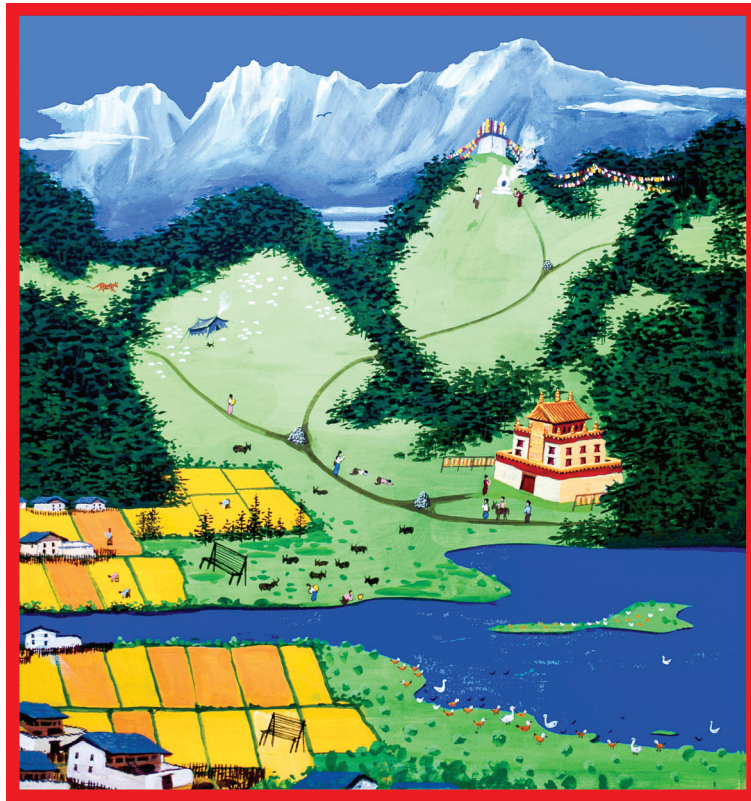
# ECOHHEALTH

INTERNATIONAL ASSOCIATION FOR ECOLOGY & HEALTH

Sustaining Ecosystems, Supporting Health

The 4<sup>th</sup> Biennial Conference of  
International Association for Ecology and Health

15–18 October 2012, Kunming, P.R. China



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## EcoHealth Documentaries and Art Exhibition

*Xu JianChu*

*Yan Mei*

*Yang JianKun*

## Special Thanks

*Chen HuaFang*

*Ed Grumbine*

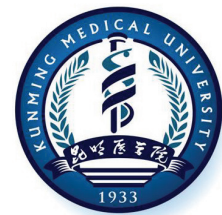
*Dharma R. Maharjan*



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## Conference co-organizers



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# Welcome



Greetings!

It is my great pleasure to welcome you to the 4th Biennial Conference of the International Association for Ecology and Health. The EcoHealth community is a transdisciplinary gathering coming together from almost all continents. We have more than 450 participants from 62 countries registered here and we are honored to host this significant meeting in Kunming.

Our conference theme, “Sustaining Ecosystems, Supporting Health”, speaks to global, regional

and local landscape and human health. According to Gaia Theory, Earth behaves as a single, self-regulating system with physical, chemical, biological, and human linkages. But now our planet is faced with great challenges: economic turbulence, cross-scale environmental pollution and the increasing extremes of climate change. Maintaining connections and sustainable conditions for all life-- ecosystem health, human health-- appears to have an uncertain future.

Globalization has fundamentally transformed Asia. Never in human history has a region experienced such dynamic economic growth, dramatic social change, and rapid ecological degradation. Regional and global integration have brought new economic opportunities, but they have also raised profound challenges as we attempt to navigate toward a sustainable and healthy future.

At EcoHealth Kunming, we want to call particular attention to vulnerable peoples who live on the critical ecological and socioeconomic margins of globalization. In their communities, these people strive to use, nurture and sustain landscapes on which they have lived and depended upon for generations. Now with the continued expansion of national, regional and international markets supported by government policies, their livelihoods and health are at increasing risk and their capacity to cope with change is compromised.

The Kunming EcoHealth Conference provides a unique opportunity to build bridges between all those who care about the health of the world-- local peoples, professional practitioners, policy makers. And there is plenty of work to do move our





transdisciplinary vision of ecological and social health further into the mainstream. This will require continuing innovation and practical solutions to confront ongoing and emerging health challenges throughout Asia and the world. For all of us-- academics, practitioners, decision makers - there are great tasks that we must tackle together within our communities and across the planet.

I sincerely believe that EcoHealth Kunming will be a forum where you engage new friends and colleagues, create partnerships, and envision innovative approaches that lead to practical actions to support a healthy planet and sustainable societies.

I wish you a most successful conference.

**Xu Jianchu, Professor**

Kunming Institute of Botany, Chinese Academy of Sciences  
Principle Ecologist, World Agroforestry Centre  
Conference Chair

# Welcome to EcoHealth2012!



The 4th biennial conference of the International Association for Ecology & Health is the culmination of several years of planning by our Conference Chair Jianchu Xu, supported by the Kunming Institute of Botany, Chinese Academy of Sciences, Kunming Medical University and World Agroforestry Centre. The extensive, integrative efforts of the Kunming organizing team have been supported by contributions from across our international membership and sponsors. We are thankful to the Conference Steering Committee, International Advisory Committee and a dedicated team of Association members whose efforts have helped bring EcoHealth2012 to life.

Since the establishment of the Association in 2006, our biennial conferences have provided a source of consolidation for the field of ecohealth, offering a distillation of innovations in ecohealth research, education and practice and a snapshot of the excellence, integration and impact for which the field is increasingly well-known. This year we are again delighted by the range and quality of the plenary and parallel sessions. We are looking forward to the rich learning and exchange that will enhance individual and collective insights regarding the important conference themes of Transdisciplinarity; Vulnerable Populations, Vulnerable Ecosystems, and Health; and Capacity Building and Action.

EcoHealth conferences offer a point of reference within a continuum of past, present and future efforts – that are especially important for a field as rapidly evolving as ecohealth. In addition to a memorable conference issue of EcoHealth, EcoHealth2012 is offering a range of new approaches to conference engagement and member interaction – including input into the Association’s first Conference Statement, new options for web-based and distance engagement (WEB-ADE), and responding to a growing demand for ‘ecohealth-live’ initiatives.

The combination of integration, innovation and implementation being profiled at EcoHealth2012 bodes well for the future of our increasingly international community of ecohealth researchers, practitioners, educators and learners. Along with others involved with establishing the Association, it is deeply encouraging to conclude my



three terms on the Board with this exciting conference and high hopes for the future of the Association and its mission: to strive for sustainable health of people, wildlife and ecosystems by promoting discovery, understanding and transdisciplinarity.

Best wishes for an enjoyable and productive few days in Kunming,

**Margot Parkes**

Canada Research Chair in Health, Ecosystems & Society,  
University of Northern British Columbia, Canada.  
President, International Association for Ecology & Health

# Conference Overview

The 4th biennial EcoHealth Conference will be held in Kunming, Yunnan Province, China. Guided by the theme of the conference, Sustaining Ecosystems, Supporting Health, and three central imperatives, the conference will provide a platform to advance and share research, and improve the health of humans and the environment in long-lasting, pragmatic, and sustainable ways. The cross-cutting imperatives are Transdisciplinarity; Vulnerable Populations, Vulnerable Ecosystems, and Health; and Capacity Building and Action, and are distinct from topics, in that they are “big picture” concepts capable of illuminating paths to both solutions and preventions of the complex problems that plague the environment and human health.

The topics of focus are:

- ▶ Climate Change, and Disaster Preparedness and Adaptation
- ▶ Education, Training and Skill-building
- ▶ Land Use, Agriculture and Food Production
- ▶ Non-communicable diseases, Globalization and Urbanization
- ▶ OneHealth, and Emerging, Re-emerging and Resurging Infectious Diseases
- ▶ Reflexivity, Systems Thinking and Complexity in Ecosystem Approaches to Health
- ▶ Vulnerable Population’s Health
- ▶ Water-based Ecosystems, Water Use, and Health



# Program at a Glance

## MONDAY, October 15 - Pre-Conference Meetings and Workshops

\*Workshops are organized and funded independently and will all be held at the conference venue.

09:00-12:00	Meet the <i>EcoHealth</i> Editors / Writeshop (Location: Room C)	NSF- Meta-genomic analysis of microbial pathogen communities (pre-registration required, Location: Room D)	IDRC - EcoHealth: Why Build a Field (Location: Room B)
12:00-13:30	<b>Lunch</b> (Not provided) <b>Pre-conference IAEH Board Meeting</b> - (Location: Room E)		
13:30-16:30	EcoHealth Journal Writers Workshop (Location: Room C)	NSF- Meta-genomic analysis of microbial pathogen communities (pre-registration required, Location: Room D)	IDRC - Sharing and Collaborating in the Development of EcoHealth Teaching Capacity (Location: Room B)
17:00-18:00	<b>Welcome Reception for Delegates</b> - (Location: Pool-side Buffet)		
18:00-21:00	Pre-conference receptions and dinners organized independently by participating/organizing groups	<b>IAEH Student Section Social</b> (7-9 PM, Pool-side Buffet)	

## Day One - TUESDAY, Oct. 16 - Theme: Transdisciplinarity

07:00-08:00	<b>Breakfast</b> (Provided at your hotel)		
08:30-10:30	<b>Opening Ceremonies</b> - (Location: TianHe Function Hall) <ul style="list-style-type: none"> <li>■ <b>Xu JianChu</b> (Kunming Institute of Botany, China) - Conference Welcome</li> <li>■ <b>Yang YongPing</b> (Deputy Director, Kunming Institute of Botany, Chinese Academy of Sciences)</li> <li>■ <b>Jiang RunSheng</b> (President, Kunming Medical University, China)</li> <li>■ <b>Felix Li</b> (Public Health Agency of Canada)</li> <li>■ <b>Margot Parkes</b> (President, International Association for Ecology &amp; Health, University of Northern British Columbia, Canada)</li> <li>■ <b>Group photo</b></li> </ul>		
10:30-11:00	<b>Tea Break</b> (Provided)		
11:00-12:00	<b>EcoHealth in 2012</b> <b>Addressing health and sustainability challenges of the 21st century Plenary Panel</b> - (Location: TianHe Function Hall) <ul style="list-style-type: none"> <li>■ <b>Valerie Brown</b> (Australian National University, Australia)</li> <li>■ <b>Jakobo Finkelman</b> (Pan American Health Organization/World Health Organization, Brazil)</li> </ul>		





12:00-12:05	<b>EcoHealth Art Exhibition Introduction</b> – (Location: TianHe Function Hall) <ul style="list-style-type: none"> <li>■ <b>Kerry Araben</b> (School of Indigenous Health, Monash University, Australia)</li> </ul>
12:05-13:15	<b>Lunch Break</b> (Provided)
13:15-14:00	<b>Poster Session</b> – (Location: TianHe Function Hall)
14:00-15:30	<b>Parallel Session 1</b>
15:30-16:00	<b>Tea Break</b> (Provided)
16:00-17:30	<b>Parallel Session 2</b>
17:45-18:15	<b>Non-communicable Diseases and Development Plenary Presentation</b> – (Location: TianHe Function Hall) <ul style="list-style-type: none"> <li>■ <b>Yang GongHuan</b> (China CDC)</li> </ul>
19:00-21:00	<b>EcoHealth 2012 Opening Banquet &amp; Awards</b> – (Location: Off-site, transportation provided) <ul style="list-style-type: none"> <li>■ <b>Duane Gubler</b> (Duke-NUS Graduate Medical School, Singapore).</li> </ul>
<b>Day 2 - WEDNESDAY, Oct. 17 – Theme: Vulnerable Populations, Vulnerable Ecosystems, and Health</b>	
07:00-08:00	<b>Breakfast</b> (Provided at your hotel) IAEH Student Section Biannual General Meeting (Location TBC).
08:30-08:45	<b>EcoHealth Documentary – Plenary Showing</b> (Location: TianHe Function Hall)
08:45-10:00	<b>Vulnerable Populations, Vulnerable Ecosystems, &amp; Health Plenary Panel</b> – (Location: TianHe Function Hall) <ul style="list-style-type: none"> <li>■ <b>Bassirou Bonfou</b> (West Africa Swiss Centre for Scientific Research, Côte d'Ivoire)</li> <li>■ <b>Laurie Chan</b> (University of Ottawa, Canada)</li> <li>■ <b>Jürg Utzinger</b> (Swiss Tropical and Public Health Institute, Switzerland).</li> <li>■ <b>Maria Carlota Monroy</b> (San Carlos University, Guatemala)</li> </ul>
10:00-10:30	<b>Tea Break</b> (Provided)
10:30-12:00	<b>Parallel Session 3</b>
12:00-13:30	<b>Lunch</b> (provided) EcoHealth2012 Speakers & Students Mixer (Location: Pool-side Buffet)
13:30-14:15	<b>Poster Session 2</b> – (Location: TianHe Function Hall)
14:15-15:45	<b>Parallel Session 4</b>
15:45-16:15	<b>Tea Break</b> (Provided)
16:15-17:15	<b>EcoHealth Perspectives from Indigenous, Tribal and Ethnic Communities Plenary Panel</b> – (Location: TianHe Function Hall) <ul style="list-style-type: none"> <li>■ <b>Yang FuQuan</b> (Yunnan Academy of Social Sciences, China)</li> <li>■ <b>Kerry Arabena</b> (School of Indigenous Health, Monash University, Australia)</li> <li>■ <b>Margo Greenwood</b> (National Collaborating Centre for Aboriginal Health, Canada)</li> </ul>
17:30-19:00	<b>IAEH Biennial General Meeting &amp; Election</b> – (Location: TianHe Function Hall)
19:00-20:00	<b>Dinner</b> (not provided)

19:30–21:00	<p><b>Global Processes linking Ecology &amp; Health - What role for EcoHealth? International Discussion Forum</b> (Location: Room C - Moderator: Margot Parkes, IAEH President)</p> <ul style="list-style-type: none"> <li>■ Pierre Horwitz (Edith Cowan University, Australia)</li> <li>■ Jonathan Patz (University of Wisconsin-Madison, USA)</li> <li>■ Carlos Corvalan (Pan American Health Organization, live from Brazil)</li> <li>■ Contribution from Convention on Biological Diversity 11th Conference of Parties (Live from COP meeting in Hyderabad, India)</li> </ul>
<b>Day 3 - THURSDAY, Oct. 18 - Theme: Capacity Building and Action</b>	
07:00–08:00	<b>Breakfast</b> (Provided at your hotel)
08:30–10:00	<p><b>Capacity Building for EID research and action in Asia - Lessons and Experience from the Field - Plenary Panel</b> - (Location: TianHe Function Hall)</p> <ul style="list-style-type: none"> <li>■ Dennis Carroll (USAID's Pandemic Influenza and other Emerging Threats Unit, USA)</li> <li>■ Parntep Ratanakorn (Mahidol University, Thailand)</li> <li>■ Le Vu Anh (Hanoi School of Public Health, Vietnam)</li> <li>■ Wang Li Bin (College of Humanities and Development Studies China Agricultural University, China)</li> <li>■ Purvi Mehta-Bhatt (International Livestock Research Institute, India)</li> </ul>
10:00–10:30	<b>Tea Break</b> (Provided)
10:30–12:00	<b>Parallel Session 5</b>
12:00–13:15	<p><b>Lunch Break</b> (Provided)</p> <p>New IAEH Board &amp; Journal Meeting</p>
13:15–14:45	<b>Parallel Session 6</b>
14:45–15:15	<b>Tea Break</b> (Provided)
15:15–16:45	<p><b>Field Building the Future - Final Closing Panel</b> - (Location: TianHe Function Hall)</p> <ul style="list-style-type: none"> <li>■ Dominique Charron (Ecosystems and Human Health Program, International Development Research Centre, Canada)</li> <li>■ Fang Jing (Kunming Medical University, China)</li> <li>■ Mario Henry Rodriguez (Instituto Nacional de Salud Pública, México)</li> <li>■ Jakob Zinsstag (Swiss Tropical and Public Health Institute, Switzerland)</li> </ul>
16:45–17:30	<b>Closing Ceremonies</b> - (Location: TianHe Function Hall)
17:30–18:30	<b>EcoHealth 2012 Closing Mixer &amp; Celebration</b> - (Location: Poll-side Buffet)
19:00–20:30	<b>Dinner</b> (not Provided)

# Plenary Biographies



## **Kerry Arabena**

**Oct 17 (Day 2) Plenary Panel 2 (16:15 - 17:15)**  
**EcoHealth Perspectives from Indigenous, Tribal and Ethnic Communities**

A descendant of the Meriam people of the Torres Strait, Professor Kerry Arabena's years of work have brought her to the forefront of indigenous affairs in Australia. A former social worker with a doctorate in human ecology, Kerry has an extensive background in public health, administration, community development and research, working in senior roles in indigenous policy and sexual

health.

Kerry's work has made contributions across many states and territories, in areas such as gender issues, social justice, human rights, violence, access and equity, service provision, harm minimisation and citizenship rights and responsibilities. She has represented Australia in international forums on HIV/AIDS and climate change. Kerry was nominated in the 'Smart 100' Australians in the *Bulletin Magazine* in 2004, was an Australian of the Year Finalist in 2010, and was a recipient of the prestigious JG Crawford Prize for Academic Excellence at the Australian National University in 2011.



## **Bassirou Bonfoh**

**Oct 17 (Day 2) Plenary Panel 1 (08:45 - 10:00)**  
**Vulnerable Populations, Vulnerable Ecosystems, and Health**

Professor Bassirou Bonfoh is Regional Coordinator of the West Africa, Swiss Centre for Scientific Research, Abidjan, Côte d'Ivoire. Professor Bonfoh holds a DVM Msc and Ph.D. in Biology (option epidemiology) from Dakar University in Senegal studying the epidemiology of nematodes in small ruminants and poultry, reared in extensive production systems.

Dr. Bonfoh has worked with numerous organizations including the International NGO Vétérinaires Sans Frontières in West Africa, the Swiss Tropical Institute and the Swiss Federal Institute of Technology, Zurich. Dr. Bonfoh became a professor of African



Francophone Universities in July 2007. He has also appeared as a guest lecturer at different universities (Côte d'Ivoire, Togo, Senegal). Since July 2009, Dr. Bonfoh is the Managing Director of the Centre Suisse de Recherches Scientifiques en Côte d'Ivoire ([www.csrs.ch](http://www.csrs.ch)), Regional Coordinator of the NCCR in West Africa, ([www.north-south.unibe.ch](http://www.north-south.unibe.ch)) and Director of the Consortium Afrique One ([www.afriqueone.net](http://www.afriqueone.net)).



### **Valerie A. Brown**

**Oct 16 (Day 1) Plenary Panel 1 (11:00 - 12:00)**  
**EcoHealth in 2012: Addressing Health and Sustainability Challenges of the 21st Century**

Valerie A. Brown is Emeritus Professor at University of Western Sydney and Visiting Fellow and Director, Local Sustainability Project at the Fenner School of Environment and Society, The Australian National University.

In 1999 she was appointed an Officer of the Order of Australia for international and national contributions to public health and environmental health. Professor Brown was a member of Australia's senior medical and scientific councils and in 2000 was appointed an Officer of the Order of Australia for national and international policy development for sustainable development. She has recently co-edited the book, *Tackling Wicked Problems: Through the Transdisciplinary Imagination*, which *Nature* called, "...a timely volume that deserves a wide, global readership."



### **Dennis Carroll**

**Oct 18 (Day 3) Plenary Panel 1 (08:30 - 10:00)**  
**Capacity Building for EID Research and Action in Asia - Lessons and Experience from the Field**

Dr. Dennis Carroll currently serves as the Director of the U.S. Agency for International Development's (USAID) Pandemic Influenza and other Emerging Threats Unit. Dr. Carroll is responsible for providing strategic and operational leadership for the Agency's programs addressing new and emerging disease threats, including

leading the Agency's response to the H5N1 avian influenza and H1N1 pandemic viral threats. He is presently coordinating the roll-out of USAID's new Emerging Pandemic Threats program, a global effort to combat new disease threats.

Dr. Carroll has a doctorate in biomedical research with a special focus in tropical infectious diseases from the University of Massachusetts at Amherst. He was a Research Scientist at Cold Spring Harbor Laboratory where he studied the molecular

mechanics of viral infection. Dr. Carroll has received awards from both CDC and USAID, including the 2006 USAID Science and Technology Award for his work on malaria and avian influenza, and the 2008 Administrator's Management Innovation Award for his management of the Agency's Avian and Pandemic Influenza program.



### **Laurie Chan**

**Oct 17 (Day 2) Plenary Panel 1 (08:45 - 10:00)  
Vulnerable Populations, Vulnerable Ecosystems, and Health**

Dr. Laurie Chan is currently Professor and Canada Research Chair in Toxicology and Environmental Health and the Director of the Centre for Advanced Research in Environmental Genomics at the University of Ottawa in Canada. He received his Ph.D. in 1990 from the University of London.

Dr. Chan has studied the impact of environmental changes on the health of the Arctic ecosystems for the last two decades. His research in environmental and nutritional toxicology ranges from developing new techniques for contaminant analysis, to participatory research in the community on the risk and benefits of traditional foods and food security. Dr. Chan has served as an advisor for international and national governments and organizations and numerous Aboriginal communities on environmental health issues.



### **Dominique Charron**

**Oct 18 (Day 3) Plenary Panel 2 (15:15 - 16:45)  
Field Building the Future - Final Closing Panel**

Dominique Charron leads IDRC's Ecohealth program, which examines the links between the environment and human health in the developing world. Dr. Charron holds a PhD in epidemiology and a Doctor of Veterinary Medicine from the University of Guelph.

Before joining IDRC, Dr. Charron developed and managed research programs on climate change and infectious diseases at the Public Health Agency of Canada. She has conducted research in Canada, including in the Arctic, and in the Caribbean. Charron has taught epidemiology and ecosystem health at the graduate and undergraduate levels at various universities; currently, she is an adjunct faculty member in the Department of Population Medicine at the Ontario Veterinary College, University of Guelph.







### **Fang Jing**

**Oct 18 (Day 3) Plenary Panel 2 (15:15 - 16:45)  
Field Building the Future - Final Closing Panel**

Fang Jing earned her Ph.D. at the Institute of Development Studies (IDS), Sussex University, UK in 2006. Before that, she was the Deputy Director of Yunnan Reproductive Health Research Association (YRHRA), a NGO based in Yunnan China. From 2006-2009, she worked at the International Centre for Integrated Mountain Development (ICIMOD), an independent

intergovernmental organization based in Kathmandu, Nepal, as an EcoHealth specialist and led a project entitled “land use change and human health in eastern Himalaya: an adaptive ecosystem approach.”

Dr. Fang is currently a professor at the Kunming Medical University and acts as the director of the Institute for Health Sciences. She is a member of the Gender and Health Equity Network (GHEN), a member of the Gender and Rights Advisory Panel (GAP), a member of the editorial board of the journal *EcoHealth*, and, among other things, an advisory committee member of the Forum for Health, Environment and Development in China.



### **Jacobo Finkelman**

**Oct 16 (Day 1) Plenary Panel 1 (11:00 - 12:00)  
EcoHealth in 2012: Addressing Health and Sustainability  
Challenges of the 21st Century**

Dr. Jacobo Finkelman received his MD from the National University of Mexico and his MPH from the School of Public Health of Mexico. His former positions include Head of the Epidemiology Surveillance Unit of the Panamerican Health Organization/World Health Organization (PAHO/WHO) in Washington DC, and Director of the Panamerican Center of Human Ecology

and Health, PAHO/WHO in Metepec, Mexico.

He has also served as the country representative for PAHO/WHO in Guatemala, Brazil and Mexico. His scientific interest is in governance of environmental health and global public health. He has published over a hundred papers, book chapters and books. He has served as a member of editorial and advisory boards of several national and international scientific journals and organizations. Currently, he is working as an independent consultant on environment and public health.



### **Margo Greenwood**

**Oct 17 (Day 2) Plenary Panel 2 (16:15 - 17:15)  
EcoHealth Perspectives from Indigenous, Tribal and  
Ethnic Communities**

Dr. Margo Greenwood, is the Academic Leader of the National Collaborating Centre for Aboriginal Health and Associate Professor in both the First Nations Studies and Education programs at the University of Northern British Columbia. She is an indigenous scholar of Cree ancestry with more than 25 years' experience in the health of indigenous children, families and communities.

Dr. Greenwood is recognized regionally and internationally for her work in early childhood care and education of indigenous children and public health. She has worked with UNICEF, the United Nations, and the Canadian Reference Group to the World Health Organization Commission on Social Determinants. In 2010, she was recognized in as the 'Academic of the Year' by the Confederation of University Faculty Associations' of B.C. for her research contributions to the wider community. Most recently she was honoured with the National Aboriginal Achievement Award for Education in 2011.



### **Duane J. Gubler**

**Oct 16 (Day 1) EcoHealth opening Banquet & Awards  
(19:00 - 21:00)  
Keynote Address**

Duane J. Gubler is Professor and Director of the Signature Research Program in Emerging Infectious Diseases, Duke-NUS Graduate Medical School in Singapore. Dr. Gubler is also Adjunct Professor at Johns Hopkins Bloomberg School of Public Health. He has spent his entire career working on tropical infectious diseases with an emphasis on dengue and dengue haemorrhagic fever. He has extensive field experience in Asia, the Pacific, tropical America and Africa, and has published extensively on dengue and other vector-borne infectious diseases.

Dr. Gubler has served on numerous WHO committees and study groups, and currently serves on the Scientific Advisory Boards (SAB) of the Novartis Institute of Tropical Diseases, Inviragen, ADITEC, The Mesoamerican Health Initiative, The Institute Pasteur, Cambodia, and Genetic Strategies for Control of Dengue Virus Transmission. He served as Chair of the Pediatric Dengue Vaccine Initiative (2002-2009), on the SAB of the Singapore Environment Health Institute (2004-2008) and The Emerging Diseases in a Changing European Environment (2005-2010). He is a Fellow of the Infectious Disease Society of America and the American Association for the Advancement of Science.





### **Le Vu Anh**

**Oct 18 (Day 3) Plenary Panel 1 (08:30 – 10:00)  
Capacity Building for EID Research and Action in Asia -  
Lessons and Experience from the Field**

Le Vu Anh is a Professor of Epidemiology and founding Dean of Hanoi School of Public Health (HSPH). Dean Anh was trained as a medical doctor at Hanoi University of Medicine and obtained his MSc. Degree on Community Health in Developing Countries from the London School of Hygiene and Tropical Medicine. In 1995 he joined the Hanoi School of Public Health as deputy dean and in 1998 became its dean.

Under his leadership, the School became the first independent university of public health in Vietnam in 2001. Dean Anh is also editor-in-chief of the Vietnam Journal of Public Health and a member of the National Examination Committee on epidemiology and public health. In 2005 he worked as a WHO consultant, is an Advisory Committee member for the Ford Foundation on the fellowship program, and Advisory Board member for National Policy for Injury Prevention. More recently, he has initiated an interventional program on active aging in Tien Hai district, Thai Binh province.



### **Purvi Mehta-Bhatt**

**Oct 18 (Day 3) Plenary Panel 1 (08:30 – 10:00)  
Capacity Building for EID Research and Action in Asia -  
Lessons and Experience from the Field**

Dr. Purvi Mehta-Bhatt is the Head of Asia for the International Livestock Research Institute ([www.ilri.org](http://www.ilri.org)). She is also the head of capacity development for ILRI and brings with her over 16 years of experience working on developmental issues. She is closely involved with the EcoZd project in South East Asia supported by IDRC and has been instrumental in setting up Eco Health Resource Centres (EHRC); multi stakeholder, multidisciplinary Eco health platforms at UGM (Indonesia) and CMU (Thailand).

Dr. Mehta has also served as a co-project investigator for PENAPH (Participatory Epidemiology Network for Animal and Public health), and a co-leader of Stone Mountain global capacity development group. With over 40 publications and two books to her credit, Dr. Mehta has given talks and lectures around the world and is highly regarded as a development expert, especially in the agriculture and livestock sectors.



### ***Maria Carlota Monroy Escobar***

**Maria Carlota Monroy Escobar**

**Oct 17 (Day 2) Plenary Panel 1 (08:45 - 10:00)**

**Vulnerable Populations, Vulnerable Ecosystems, and Health**

Maria Carlota Monroy Escobar is a Guatemalan biologist with a Masters degree in Medical Microbiology from the Karolinska Institute, Sweden, and a Ph.D. in Medical Entomology from Uppsala University. Dr. Monroy has 30 years of experience in research on vector-transmitted diseases and is a leading expert on Chagas disease. With over 50 peer-reviewed publications, she was awarded by the Guatemalan Congress the “National Medal of Science and Technology,” the first Guatemalan woman to obtain such a distinction.

She is the founder and senior researcher of the Laboratory of Applied Entomology and Parasitology ([www.lenap-usac.org](http://www.lenap-usac.org)), a training facility for young undergraduate students on tropical diseases research. Dr. Monroy has worked with international institutions such as the Japanese Cooperation Agency (JICA), The International research Cooperation Agency (IDRC) of Canada, The Central American Network for Research Cooperation (NETropica), WHO and PAHO.



### ***Parntep Ratanakorn***

**Oct 18 (Day 3) Plenary Panel 1 (08:30 - 10:00)**

**Capacity Building for EID Research and Action in Asia - Lessons and Experience from the Field**

Parntep Ratanakorn D.V.M., PhD is Dean and Professor of Veterinary Science, Mahidol University, Thailand. Dean Ratanakorn has worked on a range of animal health issues and projects with a focus on responding to zoonotic disease emergences in South East Asia and developing One Health tools to address emerging global health issues. Dean Ratanakorn is recognised for his commitment to implementing One Health initiatives in the region and for his work in capacity building through academic institutions and universities, such as helping to build the South East Asian OneHealth University Network (SEAOHN).





### **Mario Henry Rodriguez**

**Oct 18 (Day 3) Plenary Panel 2 (15:15 – 16:45)  
Field Building the Future – Final Closing Panel**

Dr. Mario H. Rodriguez received his Master's and Ph.D. degree in Medical Parasitological from the London School of Hygiene and Tropical Medicine, and continued post-doctorate training at the Harvard School of Public Health. Dr. Rodriguez directed the Center for Malaria Research, in Tapachula, Chiapas (1987-1995), joined the Center for Research on Infectious Diseases as its Director (1995- 2006),

and was the Director General of the National Institute of Public Health (2006 -2012). He was a member of the Steering Committee on Malaria Field Research (FIELDMAL), WHO (1990-93), member of the Expert Advisory Panel on Vector Biology and Control of the World Health Organization (2005-2007), and since 2011 is Chair of the TDR Scientific and Technical Advisory Committee.

Dr. Rodriguez's expertise includes the biology of diseases transmitted by vector, including vector-parasite interactions and genetic manipulation. He is author and co-author of more than 150 articles on vector-borne related issues and public health.



### **Jürg Utzinger**

**Oct 17 (Day 2) Plenary Panel 1 (08:45 - 10:00)  
Vulnerable Populations, Vulnerable Ecosystems, and Health**

Jürg Utzinger is Professor of Epidemiology at the Swiss Tropical and Public Health Institute, Basel, Switzerland. Dr. Utzinger obtained his MSc degree in Environmental Sciences, Zurich and his Ph.D. in Epidemiology from the University of Basel. After completing his postdoctoral research at Princeton University in the United States, Dr.

Utzinger returned to the Swiss Tropical Institute where he heads the Ecosystem Health Sciences Unit within the Department of Public Health and Epidemiology.

His research, teaching and training focuses on the epidemiology and control of neglected tropical diseases with an emphasis on schistosomiasis, food-borne trematodiasis and soil-transmitted helminthiasis. Dr. Utzinger has published over 200 articles. He is deputy editor of *PLoS Neglected Tropical Diseases* and *Geospatial Health*, and serves on the editorial board of *Acta Tropica* and *Expert Opinion on Pharmacotherapy*.





### **Wang Libin**

**Oct 18 (Day 3) Plenary Panel 1 (08:30 – 10:00)  
Capacity Building for EID Research and Action in Asia -  
Lessons and Experience from the Field**

Dr. Wang Libin is a professor at the College of Humanities and Development Studies (COHD) at the China Agricultural University. She is also the Director of the International M.Sc and Ph.D Program on Development Studies with COHD. She received her Ph.D. from University of Illinois at Urbana-Champaign. Her

research focuses on the impact assessment on development interventions, gender in development, and civil society and governance.

She has worked for more than twenty different international organizations on development projects and has published more than forty journal papers and five books. She is the team leader for two comparative research projects: “Socio-economic Impacts of HPAI Outbreaks and Control Measures on Small-scale and Backyard Poultry Producers in Asia,” and “Eco-Health Assessment on Poultry Production Clusters (PPCs) for the Livelihood Improvement of Small Producers in Asia” funded by IDRC, CIDA, and AUSAID.



### **Xu Jianchu**

**Oct 16 (Day 1) Opening Ceremonies (08:30 – 10:30)  
Conference Welcome**

Xu Jianchu is Professor, Kunming Institute of Botany and the Executive Director, Principle Scientist and Country Representative of the World Agroforestry Centre in Kunming, China. His research focuses on river basin biodiversity and local livelihoods throughout the Greater Himalaya.

Professor Xu has seventeen years of extensive field research in southwest China in ethnobotanical inventories, biodiversity conservation and biological resources management. A key component of his research program has been participatory research and planning with ethnic minority groups in the greater Mekong region.

### **Yang Fuquan**





**Oct 17 (Day 2) Plenary Panel 2 (16:15 - 17:15)  
EcoHealth Perspectives from Indigenous, Tribal and  
Ethnic Communities**

Dr. Yang Fuquan holds a Ph.D. in Chinese ethnic history and culture and is a leading expert on Chinese ethnic history with a focus on Naxi studies. He is currently Professor and Vice President at the Yunnan Academy of Social Sciences.

Dr. Yang's research focuses on the problems of identification, cultural conflict, and cultural change among the Naxi people. He has received numerous awards including an Outstanding Talent of Science and Technology Award in Yunnan Province in 1996 and a provincial scholarship leader award in 1997.



**Yang Gonghuan**

**Oct 16 (Day 1) Plenary Presentation (17:45 - 18:15)  
Non-communicable Diseases and Development Plenary  
Presentation**

Dr. Yang Gonghuan is a professor of epidemiology of chronic disease and public health at Peking Union Medical College and a former deputy director general of China CDC. She is now the Director of the China branch of Global Tobacco Control at Peking Union Medical College.

Dr. Yang graduated from the West-China Medical University in 1982 with a degree in medicine. She worked in the Chinese Academy of Medical Sciences (1982-1987), and later studied epidemiology at the Harvard School of Public Health. She also worked for the World Bank (1987 to 1990), and the Tobacco Free Initiative of the WHO (1990-2000), and was given the World Health Organization Award in recognition of outstanding contribution to tobacco control in 2006.



**Jakob Zinsstag**

**Oct 18 (Day 3) Plenary Panel 2 (15:15 - 16:45)  
Field Building the Future - Final Closing Panel**

Jakob Zinsstag graduated with a doctorate in veterinary medicine on from the Veterinary Faculty of the University of Berne in 1986. From 1990 to end of 1993 he led a livestock helminthosis project for the University of Berne at the International Trypanotolerance Centre in The Gambia. From 1994 to 1998 he directed the Centre Suisse

de Recherches Scientifiques in Abidjan, Côte d'Ivoire. Since 1998 he leads a research group at the Swiss Tropical and Public Health Institute (Swiss TPH) in Basel on the interface of human and animal health with a focus on the health of nomadic people and control of zoonoses in developing countries under the paradigm of "one health".

He holds a PhD in Tropical Animal Production from the Prince Leopold Institute of Tropical Medicine of Antwerp, Belgium. Since 2010 he is Professor of Epidemiology at the University of Basel and since 2011 deputy head of department of Epidemiology and Public Health at the Swiss TPH . He is a diplomate of the European College of Veterinary Public Health (ECVPH) and member of the scientific advisory board of the Prince Leopold Institute of Tropical Medicine of Antwerp, Belgium. He is a member of the transdisciplinarity board of the Swiss Academise of Sciences and vice-president of the International Association of Ecology and Health.



# Daily Schedule

Day One: Tuesday, October 16th Overview	
Theme: Transdisciplinarity	
07:00–08:00	<b>Breakfast</b> <i>(Provided at your hotel)</i>
08:30–10:30	<b>Opening Ceremonies</b> – <i>(Location: TianHe Function Hall)</i> <ul style="list-style-type: none"> <li>■ <b>Xu JianChu</b> <i>(Kunming Institute of Botany, China)</i> – Conference Welcome</li> <li>■ <b>Yang YongPing</b> <i>(Deputy Director, Kunming Institute of Botany, Chinese Academy of Sciences)</i></li> <li>■ <b>Jiang RunSheng</b> <i>(President, Kunming Medical University, China)</i></li> <li>■ <b>Felix Li</b> <i>(Public Health Agency of Canada)</i></li> <li>■ <b>Margot Parkes</b> <i>(President, International Association for Ecology &amp; Health, University of Northern British Columbia, Canada)</i></li> <li>■ <b>Group photo</b></li> </ul>
10:30–11:00	<b>Tea Break</b> <i>(Provided)</i>
11:00–12:00	<b>EcoHealth in 2012: Addressing health and sustainability challenges of the 21st century Plenary Panel</b> – <i>(Location: TianHe Function Hall)</i> <ul style="list-style-type: none"> <li>■ <b>Valerie Brown</b> <i>(Australian National University, Australia)</i></li> <li>■ <b>Jakobo Finkelman</b> <i>(Pan American Health Organization/World Health Organization, Brazil)</i></li> </ul>
12:00–12:05	<b>EcoHealth Art Exhibition Introduction</b> – <i>(Location: TianHe Function Hall)</i> <ul style="list-style-type: none"> <li>■ <b>Kerry Araben</b> <i>(School of Indigenous Health, Monash University, Australia)</i></li> </ul>
12:05–13:15	<b>Lunch Break</b> <i>(Provided)</i>
13:15–14:00	<b>Poster Session</b> – <i>(Location: TianHe Function Hall)</i>
14:00–15:30	<b>Parallel Session 1</b>
15:30–16:00	<b>Tea Break</b> <i>(Provided)</i>
16:00–17:30	<b>Parallel Session 2</b>
17:45–18:15	<b>Non-communicable Diseases and Development Plenary Presentation</b> – <i>(Location: TianHe Function Hall)</i> <ul style="list-style-type: none"> <li>■ <b>Yang GongHuan</b> <i>(China CDC)</i></li> </ul>
19:00–21:00	<b>EcoHealth 2012 Opening Banquet &amp; Awards</b> – <i>(Location: Off-site, transportation provided)</i> <ul style="list-style-type: none"> <li>■ <b>Duane Gubler</b> <i>(Duke-NUS Graduate Medical School, Singapore).</i></li> </ul>

## Parallel Session 1 – 14:00 – 15:30

### Symposium: Ecosystem Approaches to the Better Management of Zoonotic Emerging Infectious Diseases project in SE Asia: Collating Research Outputs and Lessons Learned

**Chair: Jeff Gilbert**

**Room: TianHe Function Hall**

**Jeff Gilbert:** Ecosystem Approaches to the Better Management of Zoonotic Emerging Infectious Diseases in SE Asia (EcoZD): Inputs, Throughputs and Outputs

**Yang Guorong:** Steps to overcome institutional challenges when implementation of an Eco Health for the control of zoonosis in Yunnan Province, China

**Tongkorn Meeyam:** Building EcoHealth Capacity in the South East Asia Region through Resource Centers in Thailand and Indonesia

**Rainer Assé:** Strategies for adopting EcoHealth theory and practice: lessons from action-research on zoonotic diseases in Southeast Asia

**Chongchit Sripun Robert:** Transdisciplinary Communication: Impacts On Health And Vulnerability Of Highland Ethnic Communities In Thailand

**Korapin Tohtubtiang:** The Lessons Learned from a Journey of Outcomes: a capacity building process through the application of Outcome Mapping in an EcoHealth Project.

### Symposium: One Health and Ecohealth: Enhancing convergence

**Chair: Jakob Zinsstag**

**Room: A**

**Jia Li:** Coupling Healthy Ecosystem and Healthy Human beings

**A.E.T.H. Wahyuni:** Anthrax in Animal and Human in Indonesia

### Symposium: Education for Environment, Health and Development: Experience from China and Europe

**Chair: Fang Jing**

**Room: C**

**Kathinka Furst:** Integrating environment, health and development studies: an analysis of programs in the UK and the Netherlands

**Jennifer Holdaway:** Building Interdisciplinary Networks and Knowledge for Environment and Health in China: Challenges and Opportunities

**Fang Jing:** EcoHealth capacity building programs in Asia

**Zhou YongZhang:** Faculty and Curriculum Development for Environment, Health and Development in China

### Reflexivity, Systems Thinking and Complexity in Ecosystem Approaches to Health

**Room: D**

**Aline Philibert:** A transdisciplinary research-methods loop' in an iterative process of research for development

**Kaitlin Weedmark-Kish:** Findings on the Use of Soft Systems Methodologies for Increased Understanding on the Impacts of Urban Environmental Change on Individual Health and Well-Being in Shanghai





**Karen Morrison:** Ethical Issues and Experience in Global North-South Population Health Research: Implications for Ecohealth

**Mieghan Bruce:** The impact of brucellosis in Albania: a systems approach

**Johannes Sommerfeld:** Vector-Borne Diseases: Opportunities and Challenges for Trans-disciplinarity through Eco-Bio-Social Research

### OneHealth, and Emerging, Re-emerging and Resurging Infectious Diseases

**Room: E**

**Worapol Aengwanich:** Eco-Health Assessment on Poultry Production Clusters (PPCs) for the Livelihood Improvement of Small Producers (Case Report in Thailand)

**Durga Datt Joshi:** Ecosystem Approach to Japanese Encephalitis (JE) Control in Nepal

**Kate Baker:** Assessing the threat of zoonotic transmission of paramyxoviruses from African fruit bats

**Sophie Vanwambeke:** The concept of landscape as a framework for investigating vector-borne and zoonotic diseases

**Robert Fyumagwa:** Rift Valley Fever Epidemics and Its Socio-Economic Impacts in Tanzania

### Vulnerable Populations and Ecosystems

**Room: F**

**Aline Philibert:** Birth seasonality as a response to a changing rural environment (Kayes' region, Mali)

**Julius Keyyu:** Health of vulnerable populations and community knowledge on human and animal diseases including zoonoses in the Serengeti ecosystem, Tanzania

**Horacio Riojas-Rodriguez:** Impact of an Efficient Biomass Stove (Patsari) Intervention on Children's Respiratory Health

**Ursula King:** Is hunting healthy? Emerging lessons from the Nunavik Inuit health survey: Qanuippitaa?

**Paul Watts:** Marine ecological footprint of the Canadian Inuit: a call for university level ethnoecology programming on food security

### Land Use, Agriculture, and Food Production

**Room: G**

**Vreni Jean-Richard:** Mobile health demographic surveillance of pastoralists and their livestock in Chad

**Robyn Alders:** Food security, poverty alleviation, women's empowerment and wildlife conservation: the benefits of Newcastle disease control in village chickens in Southern Africa

**Eva M. De Clercq:** The spread of the invasive tick *R. microplus* and cattle herding practices: a case study in Benin

**Nguyen Do Anh Tuan:** Eco-Health Assessment on Poultry Production Clusters (PPCs) for the Livelihood Improvement of Small Producers: An Insight into Vietnam

**Amiel Nazer Bermudez:** Baseline Assessment of Food Insecurity and Coping Strategies in Households in the Santa Rosa Sub-watershed Area, Laguna Lake, Philippines

## Parallel Session 2 – 16:00 – 17:30

### Symposium: Ecosystem Approaches to the Better Management of Zoonotic Emerging Infectious Diseases project in SE Asia: Collating Research Outputs and Lessons Learned

**Chair:** Jeff Gilbert

**Room:** TianHe Function Hall

**Khieu Borin:** Assessment for Prevention and Control of Zoonotic Causes of Acute Bloody Diarrhoea in rural Cambodia through an EcoHealth Approach

**Duong nguyen Khang:** Applying participatory approach to study zoonoses in provinces of South Vietnam: experiences and lessons learned

**Phouth Inthavong:** A participatory Ecohealth study of smallholder pig system in upland and lowland of Lao PDR

**Andri Jakitusumah:** Relating Dog Ecology to Disease Transmission: Rabies in Bali, Indonesia

**Krishna Agung Santosa:** The Student Adoption Of Ecohealth Concept Through Student Study-Service Activities In Universitas Gadjah Mada

### Symposium: “Ecohealth One”: Trans-Regional Networking for Research and Training in Ecohealth

**Chair:** Johannes Sommerfeld

**Room:** A

**Pattamaporn Kittayapong:** Ecohealth in Southeast Asia: Research, Training, Networking and Proposed Trans-Regional Movement

**Pattamaporn Kittayapong:** Establishing Link for Trans-Regional Networking of the Existing Ecohealth Networks in South Asia

**Pattamaporn Kittayapong:** An Initiative to Build Leadership in Ecohealth for Vector-Borne Diseases Control and Prevention in Latin America and the Caribbean

**Pattamaporn Kittayapong:** Promoting the Ecohealth Concept Through Networking: ECOHESA Joins the Movement

**Berna van Wendel de Joode:** Community of Practice in Ecosystem Approaches to Health in Latin America and the Caribbean (CoPEH-LAC): building on existing capacities

**Pattamaporn Kittayapong:** Promoting the EcoHealth in West and Central Africa

### Education, Training, and Skill-building

**Room:** B

**Dinh Xuan Tung:** Learning to Do Ecohealth Research: the Experience of the Asian Partnership on Emerging Infectious Diseases Research

**Katharine Pelican:** Universities as One Health/EcoHealth ‘Game Changers’: Demonstrating How Public-Private-Academic Partnerships Can Advance Transdisciplinary Approaches

**Nguyen Viet Hung:** South East Asia One Health University Network (SEAOHUN): A regional network for One Health capacity building

**Francis Ejobi:** Developing One Health Practitioners Through Applied, Problem Based Training: A ‘One Health Residency’ Model



**Annalee Yassi:** Community-based training for antibiotic stewardship: A Canadian-Ecuadorian collaboration to sustainably control infectious diseases using an ecosystem approach

### Symposium: The Economics and Politics of Ecohealth and Watersheds

**Chair:** Karla Zubrycki

**Room:** C

**Martin Bunch:** Characterizing Resilience in Socio-Ecological Systems Using Agent-Based Modeling: An application to the Maitland River watershed, Ontario, Canada

**Karen Morrision:** Ecohealth and watersheds: Results from a study of watersheds as settings for health and well-being in Canada

**Margot Parkes:** A new generation of intersectoral approaches to health: Getting our hands 'wet and dirty' in watersheds as settings for health in Northern BC, Canada

### Reflexivity, Systems Thinking and Complexity in Ecosystem Approaches to Health

**Room:** D

**Peter Black:** Foresight and the internal dimensions of EcoHealth

**Andrea Caprara:** Potential Breeding Sites and Urban Complexity: An Eco-Bio-Social Research on Dengue in Fortaleza, Brazil

**Kevin Bardosh:** Conceptualising socio-ecological and technical systems: what practical value for global public health?

**Richard Kock:** Is industrial husbandry an ecosystem disservice driving pathogen emergence? And can sovereign conservation agriculture fix the problem?

**David Hall:** The Role of Ecohealth in Reducing Risk of Emerging Infectious Disease in Bangladesh.

### Workshop: Barriers and Bridges to integrating Eco-health into policy applications: A "global reality check" workshop

**Chair:** Jerry Spiegel

**Room:** E

**Jerry Spiegel:** Integrating Eco-health into policy applications: A framework for considering Barriers and Bridges

**Brama Kone:** Integrating Eco-health into policy applications: A West and Central African perspective

**Rima Habib:** Health Research and Policy in the Arab World: Dealing with a Changing Political Landscape

**Paul Hoole:** The short term and long terms response to natural disaster: Tsunami in Sri Lanka

**Mario Caffera:** Arising bioclimatic issues for assessing dengue early warnings and related procedures at the southern boundaries of Aedes Aegypti in a Climate Change and Variability era

### Land Use, Agriculture, and Food Production

**Room:** F

**Ding ShiJun:** Understanding animal diseases in intensifying livestock systems in rural China: perceptions from local stakeholders

**Sirikachorn Tangkawattana:** Lawa Model: Eco-Health Impact of Fascioliosis on Livestock Production and Economic Loss

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**Michael Jahne:** Genetic Characterization and Quantitative Microbial Risk Assessment of Bioaerosols Generated During the Land Application of Livestock Manure

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**Delia Grace:** Agriculture for nutrition and health

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**Bruce Wilcox:** Agroforestry and Health: Principles, Problems and Prospects

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### OneHealth, and Emerging, Re-emerging and Resurging Infectious Diseases

**Room: G**

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**Kate Baker:** Henipavirus infection dynamics in a captive population of African straw-coloured fruit bats

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**Marcel A. Müller:** Type I Interferon Reaction to Viral Infection in Interferon-Competent, Immortalized Cell Lines from the African Fruit Bat *Eidolon helvum*

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**Sumodan P K:** Status of Rubber (*Hevea brasiliensis*) plantations as ideal ecosystems for Aedes-borne diseases in Asia: Evidence from Kerala, India

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**Jan Felix Drexler:** Bats host major mammalian paramyxoviruses

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**Hung Nguyen-Viet:** Framing the Problem of Emerging Zoonotic Disease Risk Using a One Health Approach

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## Day Two: Wednesday, October 17th Overview

### Theme: Vulnerable Populations, Vulnerable Ecosystems, and Health

07:00–08:00	<b>Breakfast</b> ( <i>Provided at your hotel</i> ) IAEH Student Section Biannual General Meeting ( <i>Location TBC</i> ).
08:30–08:45	<b>EcoHealth Documentary – Plenary Showing</b> ( <i>Location: TianHe Function Hall</i> )
08:45–10:00	<b>Vulnerable Populations, Vulnerable Ecosystems, &amp; Health Plenary Panel –</b> ( <i>Location: TianHe Function Hall</i> ) <ul style="list-style-type: none"> <li>■ <b>Bassirou Bonfou</b> (<i>West Africa Swiss Centre for Scientific Research, Côte d'Ivoire</i>)</li> <li>■ <b>Laurie Chan</b> (<i>University of Ottawa, Canada</i>)</li> <li>■ <b>Jürg Utzinger</b> (<i>Swiss Tropical and Public Health Institute, Switzerland</i>).</li> <li>■ <b>Maria Carlota Monroy</b> (<i>San Carlos University, Guatemala</i>)</li> </ul>
10:00–10:30	<b>Tea Break</b> ( <i>Provided</i> )
10:30–12:00	<b>Parallel Session 3</b>
12:00–13:30	<b>Lunch</b> ( <i>provided</i> ) EcoHealth2012 Speakers & Students Mixer ( <i>Location: Pool-side Buffet</i> )
13:30–14:15	<b>Poster Session 2 –</b> ( <i>Location: TianHe Function Hall</i> )
14:15–15:45	<b>Parallel Session 4</b>
15:45–16:15	<b>Tea Break</b> ( <i>Provided</i> )
16:15–17:15	<b>EcoHealth Perspectives from Indigenous, Tribal and Ethnic Communities Plenary Panel</b> ( <i>Location: TianHe Function Hall</i> ) <ul style="list-style-type: none"> <li>■ <b>Yang FuQuan</b> (<i>Yunnan Academy of Social Sciences, China</i>)</li> <li>■ <b>Kerry Arabena</b> (<i>School of Indigenous Health, Monash University, Australia</i>)</li> <li>■ <b>Margo Greenwood</b> (<i>National Collaborating Centre for Aboriginal Health, Canada</i>)</li> </ul>
17:30–19:00	<b>IAEH Biennial General Meeting &amp; Election –</b> ( <i>Location: TianHe Function Hall</i> )
19:00–20:00	<b>Dinner</b> ( <i>not provided</i> )
19:30–21:00	<b>Global Processes linking Ecology &amp; Health - What role for EcoHealth? International Discussion Forum</b> ( <i>Location: Room C - Moderator: Margot Parkes, IAEH President</i> ) <ul style="list-style-type: none"> <li>■ <b>Pierre Horwitz</b> (<i>Edith Cowan University, Australia</i>)</li> <li>■ <b>Jonathan Patz</b> (<i>University of Wisconsin-Madison, USA</i>)</li> <li>■ <b>Carlos Corvalan</b> (<i>Pan American Health Organization, live from Brazil</i>)</li> <li>■ <b>Contribution from Convention on Biological Diversity 11th Conference of Parties</b> (<i>Live from COP meeting in Hyderabad, India</i>)</li> </ul>

## Parallel Session 3 – 10:30 - 12:00

### Workshop: Population EcoHealth Vulnerabilities and Emerging Food-Borne and Zoonotic Parasitic Diseases in Asia

**Chair:** Zhou XiaoNong

**Room:** TianHe Function Hall

**Zhou XiaoNong:** Ecohealth to the rescue: Emerging food-borne parasitic diseases in Southeast Asia

**Lydia Leonardo:** Environmental Issues and Health Literacy in the Control of Schistosomiasis in the Philippines

**Kun Yang:** The globalization in the transmission of food-borne diseases in China

**Lin Ai:** The geospatial variation of population genetics and bio-ecosystem patterns related to the transmission of food-borne diseases in China

**Yang GuoJing:** Impact of climate change and water transferring project on schistosomiasis transmission in China

### Symposium: Adaptation to climate change impacts on water and health security in North and West Africa – first research experiences from an ecohealth perspective

**Chair:** Guéladio Cisse

**Room:** A

**Mohamed Kouni Chahed:** Addressing Zoonotic Cutaneous Leishmaniasis in Tunisia's changing climate

**Leïla Houti:** Impact of the socio-cultural context on Ecohealth programs: case of cutaneous leishmaniasis in two homes in Algeria

**Ahmed Farouk:** Community-Based Research on Adaptation to Climate Change (Poverty Reduction) West of the High Dam Lake, Aswan, Egypt

**Michael Wilson:** Climate change and eco-health approach to the control of onchocerciasis in the River Volta Basin of Ghana

### Symposium: Application of an Eco-Bio-Social Approach to Emerging Infectious Diseases in Southeast Asian Global Outreach Hotspots: A Preliminary Baseline Study

**Chair:** Pattamaporn Kittayapong

**Room:** B

**Johannes Sommerfeld:** Social science research for eco-health: Issues, challenges and perspectives for capacity building and trans-disciplinarity

**Pattamaporn Kittayapong:** Application of an Eco-Bio-Social Approach to Emerging Infectious Diseases on Koh Chang, Thailand: A Preliminary Baseline Study

**Susilowati Tana:** Application of an Eco-Bio-Social Approach to Emerging Infectious Diseases in Bali, Indonesia: A Preliminary Baseline Study

**Fe Esperansa Espino:** Application of an Eco-Bio-Social Approach to Emerging Infectious Diseases in Palawan, Philippines: A Preliminary Baseline Study

**Tran Vu Phong/Vu Sinh Nam:** Application of an Eco-Bio-Social Approach to Emerging Infectious Diseases on Cat Ba Island, Vietnam: A Preliminary Baseline Study





### Symposium: OneHealth, and Emerging, Re-emerging and Resurging Infectious Diseases

**Chair: Jon Epstein**

**Room: D**

**WenGui Li:** Prevention Prevention and Control of Zoonotic Diseases in Yunnan Province, China-Current Status and Challenges

**Jon Epstein:** Understanding the ecology of Nipah virus in frugivorous bats in Bangladesh

**Ke ChangWen:** The Development of Surveillance System for Emerging Infectious Diseases in Guangdong China 2006-2011

**David Hall:** Controlling Rabies in Bali, Indonesia: Developing Solutions through Understanding of Complexity

**Hume Field:** Hendra virus in Australia - ecology and health perspectives

### Symposium: The roles of the medical profession in promoting sustainable ecosystems - lessons learnt across the globe

**Chair: Grant Blashki**

**Room: C**

**Alan Abelsohn:** Challenges and lessons in educating health professionals about air pollution and climate change in Canada

**Fang Jing:** Using EcoHealth project to train master students of public health: the experience of Kunming Medical University

**Erica Bell:** What role do rural doctors have in helping their communities adapt to a climate-changing world? A new tool for making the translation

**Hafeez Jamal:** Two Docs, Global Medic, and a Systems Approach to Community Health in Cambodia

### Symposium: Thailand's Ethnic Minority Highlander Communities: An Integrative Health Research Need and Opportunity

**Chair: Manoj Potapohn**

**Room: E**

**Chalisa Kallayanamitra:** Assessing Hill-Tribe Zoonotic Disease Risk Associated with Livestock Production

**Kyaw Min Soe:** The Geography of HIV/AIDS in Highlander Ethnic Minorities in Chiang Rai, Thailand

**Manoj Potapohn:** Borderland Highlander Ethnic Minorities of Northern Thailand in Transition: Livelihoods, Livestock and Human Health

### OneHealth, and Emerging, Re-emerging and Resurging Infectious Diseases

**Room: F**

**Sen Li:** Landscape heterogeneity and tick-borne disease: understanding the spatial dynamics of vector-borne zoonoses using cellular automata models

**Marcel A. Müller:** Antibody prevalence study for human pathogenic viruses in bats and rodents

**Wayan Tunas Artama:** Spatial Analysis and Risk Factors of Toxoplasmosis at Yogyakarta Through Ecohealth Approaches

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**Roberto Rosa:** Effect of deer density on tick-borne encephalitis dynamics: empirical results vs. theoretical predictions

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**Guillaume Fournié:** Global spread of emerging swine pathogens

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### Issues of Water, Practice and Policy

**Room: G**

**Linda Amaral-Zettler:** The Plastisphere and Pathogen Pollution: Microbes on plastic marine debris

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**Audil Rashid:** Transdisciplinarily approach using ARIMA modelling to link health and ecosystem and its implications for policy regulations

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**Amiel Nazer Bermudez:** Managing environmental risks for sustainable food and health security in watershed planning in Lake Laguna Region - Phase 1: Development and pilot-testing of data collection tools

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**Vi Nguyen:** Scenario Building for Community Development in Vietnam - A New Tool for Ecohealth?

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**Frédéric Mertens:** Transdisciplinary collaborative network structures in the Field of Ecohealth and Vector Borne Diseases in Latin America and the Caribbean (LAC)

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### Parallel Session 4 - 14:15 - 15:45

#### Workshop: Population EcoHealth Vulnerabilities and Emerging Food-Borne and Zoonotic Parasitic Diseases in Asia

**Chair: Zhou XiaoNong**

**Room: TianHe Function Hall**

**Somphou Sayasone:** How can an ecohealth approach improve control of schistosomiasis and opisthorchiasis in Lao PDR

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**Shan Lv:** Outbreaks of food-borne helminthiasis related to the social-ecosystem in China

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**Johannes Sommerfeld:** Eco-bio-social perspectives on food-borne parasitic zoonoses (FBPZ) in Asia

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**Banchob Sripa:** Lawa model: Integrated Opisthorchiasis Control in the Northeast Thailand

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#### Symposium: Adaptation to climate change impacts on water and health security in North and West Africa - first research experiences from an ecohealth perspective

**Chair: Guéladio Cisse**

**Room: A**

**Aissata Camara:** Resurgence of schistosomiasis in the context of climate change in the Forest region of Guinea

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**Abderrahmane Ait Ihaj:** Small dams as Climate Change Adaptation tools in Morocco: options for optimization and challenges in implementation

**Brama Kone:** Adaptation to climate change in water and health sectors in 4 secondary cities in West Africa: ecohealth approach in face of flooding events

### Symposium: Application of an Eco-Bio-Social Approach to Emerging Infectious Diseases in Southeast Asian Global Outreach Hotspots: A Preliminary Baseline Study

**Chair:** Pattamaporn Kittayapong

**Room:** B

**Somphone Soulahy /Bounlay Phommasack:** Application of an Eco-Bio-Social Approach to Emerging Infectious Diseases in Vang Vieng, Lao PDR: A Preliminary Baseline Study

**Sok Touch/Teng Srey:** Application of an Eco-Bio-Social Approach to Emerging Infectious Diseases in Siem Reap, Cambodia: A Preliminary Baseline Study

**Wengui Li:** Ecosystem Approaches for a Better Management of Toxoplasmosis in Yunnan Province, China

**Gabriel Carrasquilla:** Eco-bio-social approach for the design and implementation of a sustainable strategy for dengue vector control in Colombia

**Luechai Sringernyuang:** Social Scientists in the Trans-disciplinary Team: Experiences and Lessons Learned from Koh Chang's EcoHealth Project, Thailand

### Symposium: Eco-Health Assessment on Poultry Production Clusters (PPCs) for the Livelihood Improvement of Small Producers in South-east Asia

**Chair:** Wang LiBin

**Room:** C

**Edi Basuno:** Ecohealth Assessment on Poultry Production Cluster (PPC): A Case Study on Biosecurity Level in West Java, Indonesia

**Worapol Aengwanich:** Eco-Health Assessment on Poultry Production Clusters (PPCs) for the Livelihood Improvement of Small Producers (Case Report in Thailand)

**Nguyen Do Anh Tuan:** Eco-Health Assessment on Poultry Production Clusters (PPCs) for the Livelihood Improvement of Small Producers: An Insight into Vietnam

**Libin Wang:** Eco-Health Assessment on Poultry Production Clusters (PPCs) for the Livelihood Improvement of Small Producers: Policy Review in China

**Nyak Ilham:** Poultry Production Clusters (PPC) and its Eco-Health Assessment in Small Scale Farmers in Indonesia

### Symposium: Water, sanitation and health: more integrative approaches needed to address the basic needs of humans

**Chair:** Nguyen Viet Hung

**Room:** D

**Tuan Nguyen Dang:** An intervention study to reduce the faecal (E. coli) contamination of household drinking water in a mountainous area, Lao Cai province, Vietnam

**Quynh Le:** Community participation and transdisciplinary collaboration in the national rural clean water supply & sanitation policies and programs

**Phuc Pham-Duc:** Interdisciplinary approach to environmental health research related to wastewater and excreta use in agriculture in Vietnam

**Vi Nguyen:** Case Study of Health and Environmental Sanitation in Hanam, Vietnam: Identifying Enablers and Impediments of Ecohealth

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**SY Ibrahima:** Water, sanitation and health in Sahelian semi-arid urban context: eco-health approach in Nouakchott (Mauritania)

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**Daniel Martin Salas Veizaga:** Diversity of enteric pathogens causing diarrhea in forest-borne water used for consumption for indigenous communities at Apolo-Bolivia

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**Brama Kone:** Rapid urbanization, waste management and health in Côte d'Ivoire: the case of the district of Yopougon

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### Symposium: Sub Saharan Africa (SSA) Workshop

**Chair:** Édouard Kouassi and Paul Watts

**Room:** E

**Paul Watts:** Social Process and an Ecohealth Practitioner network in Kenya: response to food security challenge and images of the future

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**Brama Koné:** Adaptation to climate change in water and health sectors in 4 secondary cities in West Africa: ecohealth approach in face of flooding events

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**Benjamin Fayomi:** Promoting the EcoHealth in West and Central Africa

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**Marius Kêdoté:** Ecosystem approach and Human health, development tools in West Africa

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**Edouard Kouassi:** Pedagogical value of the position of young researchers on ecohealth training and research

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### Vulnerable Populations and Ecosystems

**Chair:** TBD

**Room:** F

**William Helenbrook:** 'Til death do they part': host-parasite relationships of New World monkeys and the anthropogenic disturbances that influence them

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**Valerie McKenzie:** Your health and your microbes: symbiotic microbial communities and their role in host pathogen tolerance

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**Riad Essolh Baouab:** Low noise circulation of West Nile antibodies virus in wild Moroccan Passerine Birds

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**Najmul Haider:** Unusual waterfowl mortality due to highly pathogenic avian Influenza A/H5N1 clade 2.3.2.1 in Netrokona, Bangladesh, June-July 2011

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**Nitish C Debnath:** One Health Practices in Bangladesh: Ideas to Action

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### Climate Change and Human and Land Health

**Room:** G

**Jasmin Logg-Scarvell:** Interdisciplinary research linking climate change and health: Learning across theory and practice

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**Bastian Seidel:** Will climate severity ever lead to climate action? Implications for adaptation policy and practice

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**Horacio Riojas-Rodríguez:** The Impact of climate variability and change on human health in Central America: state of the art

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**Samuel Adewuyi:** Effect of Climate Change on Food Crop Production and Vulnerability Assessment in Oyo State, Nigeria

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**Horacio Riojas-Rodríguez:** Association between temperature, ozone and hospitalizations for respiratory diseases in children from Mexico City

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## Day Three: Thursday, October 18th Overview

### Theme: Capacity Building and Action

07:00–08:00	<b>Breakfast</b> <i>(Provided at your hotel)</i>
08:30–10:00	<b>Capacity Building for EID research and action in Asia - Lessons and Experience from the Field - Plenary Panel</b> – <i>(Location: TianHe Function Hall)</i> <ul style="list-style-type: none"> <li>■ <b>Dennis Carroll</b> <i>(USAID's Pandemic Influenza and other Emerging Threats Unit, USA)</i></li> <li>■ <b>Parntep Ratanakorn</b> <i>(Mahidol University, Thailand)</i></li> <li>■ <b>Le Vu Anh</b> <i>(Hanoi School of Public Health, Vietnam)</i></li> <li>■ <b>Wang LiBin</b> <i>(College of Humanities and Development Studies China Agricultural University, China)</i></li> <li>■ <b>Purvi Mehta-Bhatt</b> <i>(International Livestock Research Institute, India)</i></li> </ul>
10:00–10:30	<b>Tea Break</b> <i>(Provided)</i>
10:30–12:00	<b>Parallel Session 5</b>
12:00–13:15	<b>Lunch Break</b> <i>(Provided)</i> New IAEH Board & Journal Meeting
13:15–14:45	<b>Parallel Session 6</b>
14:45–15:15	<b>Tea Break</b> <i>(Provided)</i>
15:15–16:45	<b>Field Building the Future - Final Closing Panel</b> – <i>(Location: TianHe Function Hall)</i> <ul style="list-style-type: none"> <li>■ <b>Dominique Charron</b> <i>(Ecosystems and Human Health Program, International Development Research Centre, Canada)</i></li> <li>■ <b>Fang Jing</b> <i>(Kunming Medical University, China)</i></li> <li>■ <b>Mario Henry Rodriguez</b> <i>(Instituto Nacional de Salud Pública, México)</i></li> <li>■ <b>Jakob Zinsstag</b> <i>(Swiss Tropical and Public Health Institute, Switzerland)</i></li> </ul>
16:45–17:30	<b>Closing Ceremonies</b> – <i>(Location: TianHe Function Hall)</i>
17:30–18:30	<b>EcoHealth 2012 Closing Mixer &amp; Celebration</b> – <i>(Location: Poll-side Buffet)</i>
19:00–20:30	<b>Dinner</b> <i>(not Provided)</i>

### Parallel Session 5 – 10:30 - 12:00

#### Symposium: Scaling up policy influence and interventions in Ecohealth

**Chair:** Nguyen Viet Hung

**Room:** TianHe Function Hall

**Elena Ogusuku:** Ecosystem Approach to Vector Control of Malaria in the North Coast of Peru: Challenges for scaling up intermittent rice irrigation and sustainable agricultural practices

**Maria Carlota Monroy:** Scaling Up the Implementation of an Ecohealth Approach for the Control of a Native Vector of Chagas Disease in Central America

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**Gabriel Carrasquilla:** Scalling-up of successful health related projects: challenges and opportunities for ecohealth approach

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**Jonathan Kingsley:** "If the land is healthy ... it makes the people healthy": applying the connection between Country and health for Aboriginal Victorian people into practice and policy

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**Mohamed Kouni Chahed:** Supporting community-based responses to Zoonotic Cutaneous Leishmaniasis in Tunisia, through ecosystem approach

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### Symposium: Pedagogical Approaches to Ecohealth

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**Chair: Suzanne McCullagh**

**Room: A**

**Laura Magaña Valladares:** Competency-based curricula to train target groups in the Ecohealth Leadership for Vector-Borne Diseases in Latin America and the Caribbean Initiative

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**Suzanne McCullagh:** What kind of ecohealth teaching is an adequate pedagogical response to complex problems?

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**Karen Morrision:** Ecohealth Pedagogy at the Ontario Veterinary College: Three Examples, Future Plans

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**Edouard Kouassi:** Pedagogical value of the position of young researchers on ecohealth training and research

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### Symposium: USAID-PREDICT: Developing a global early warning system for emerging pandemics

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**Chair: Peter Daszak**

**Room: B**

**Peter Daszak:** Mapping global vulnerability to pandemics, and an economic approach to their prevention

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**Andrew Clements:** Investing in Capacities to Predict and Detect the Emergence of Pandemic Threats

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**Damien Joly:** The role of trade in live wild animals in the evolution and emergence of infectious diseases

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**Jonna Mazet:** Using a One Health Approach to Identify the Emergence and Mitigate the Spread of Potentially Pandemic Zoonoses

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**Stephen Morse:** Looking to the Future

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### Symposium: Community-based EcoHealth Intervention

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**Chair: Xu JianChu**

**Room: C**

**Peter Kunstander:** Indigenous perspectives on health - ethno-linguistic minorities and international migrants in Thailand

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**Wang LiBin:** Identification of Animal Health Issues and Intervention Strategies via EcoHealth Approach

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**Sulav Shrestha:** Agricultural skills development training for remote and marginalized community in Nepal as a tool to strengthen local ecosystem health

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**Li Qing:** Eco-agriculture – Community based EcoHealth intervention

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### Symposium: Student contributions to field-building in EcoHealth

**Chair:** Lindsay Beck

**Room:** D

**Roundtable discussion:** Maya K. Gislason, Micah Hahn, Katie Ham

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### Vulnerable Populations and Ecosystems

**Room:** E

**Horacio Riojas-Rodriguez:** Environmental Health in Alpuyecá, México. An Ecosystem Approach

**Delia Grace:** Mapping the interface of poverty, emerging markets and zoonoses

**Céline Surette:** Developing a “Web of Action” for Children’s Environmental Health

**Jerry Spiegel:** Strengthening analysis of social determination of health within an Eco-Bio-Social approach: Lessons from a dengue study pilot application in Machala, Ecuador

**Myriam Fillion:** Food insecurity is compounded by increased mercury and lead exposure among Inuit in the Canadian Arctic

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### OneHealth, and Emerging, Re-emerging and Resurging Infectious Diseases

**Room:** F

**David Hall:** Common Themes and Missed Opportunities of One Health and Ecohealth Case Studies in Asia and the EU

**Okello-Onen Joseph:** Epidemiology of important vectors and vector-borne diseases in the rangeland ecosystem of Uganda

**Craig Bonnington:** The effect of conflict on human-animal interactions, the implications for Emerging Infectious Diseases (EIDs) and their control in a changing Karen State, Eastern Burma

**Katherine Smith:** The Global Disease-Scape: Drivers of Outbreak Geography and Reporting

**Sandra Junglen:** An insect nidovirus emerging from a primary tropical rainforest

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### Education, Training and Skill-building

**Room:** G

**Aris Purwantoro:** Zoonotic Diseases and Livestock Waste Programmes Based on Peri-Urban Community Empowerment Through Kuliah Kerja Nyata (KKN)

**Lukas Parker:** Encouraging responsible environmental behavior within the family unit in Vietnam

**Pam Whiteley:** State-wide collaborative wildlife health program based at a Veterinary Faculty

**Robinson Mdegela:** Education, Training and Skills Building Platforms Towards Realization of One Health Concept in East and Central African Region

**Charles Muchunguzi:** Application of Outcome Mapping to Assess Eco-health Projects: Theory and Practices from the Zoonotic Diseases Project in the Uganda Cattle Corridor

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### Land Use and Disease

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**Room: H**

**Khan Ashiq Ahmad:** Pakistan: Reflections of the loss of the ecological health in some of the natural ecosystems on the socio-economic health of the local people

**Berna van Wendel de Joode:** Pregnant women living in banana areas with aerial mancozeb spraying are exposed to ethylenethiourea and manganese: Results from the Infants' Environmental Health Study (ISA).

**Céline Surette:** Fish, contaminants and health : How are exposure to contaminants and local ecosystems linked?

**S.W. Rogers:** Prevalence of zoonotic disease agents shed by free-ranging white-tailed deer is spatially correlated to manure and human waste biosolids applied to land

**Audil Rashid:** Eco-health reflection for petroleum hydrocarbon pollution in urban environment and related health impacts

**Day Three: Thursday, October 18th**

**Parallel Session 6 – 13:15 - 14:45**

**Symposium: Scaling up policy influence and interventions in Ecohealth**

**Chair: Nguyen Viet Hung**

**Room: TianHe Function Hall**

**Suwit Chotinun:** An Integrative Approach to Sanitary and Disease Prevention for Small Scale Poultry Slaughterhouse in Thailand and Vietnam

**Suwit Chotinun:** The Economic status, hygienic practices and challenges for improvement of Small Scale Poultry Slaughterhouses to meet Standard Poultry Slaughterhouse Regulation in Northern Thailand

**Rachel Bezner Kerr:** Agroecological approaches to improving human health, food security and addressing climate change through farmer-led research: Lessons from Malawi

**Fang Jing:** Land use change and human health in Eastern Himalayas---an EcoHealth research and the challenges for scaling up

**Symposium: Education and innovations in the global field of Ecohealth**

**Chair: Sonia Fèvre**

**Room: A**

**Rima Habib:** Ecohealth learning by doing in the MENA region

**Sonia Fèvre:** Collaboration and field building for Ecohealth education in Southeast Asia

**Marius Kedoté:** Ecosystem approach and Human health, development tools in West Africa

**Carlos Jose Sousa Passos:** CoPEH-LAC: Tailoring EcoHealth Training to Country Expertise and Educational Contexts in Latin America and the Caribbean Region

**Johanne Saint-Charles:** Transforming an Ecohealth Graduate Short Course into a Modular Teaching Manual, by Community of Practice for Ecohealth in Canada (CoPEH-Canada)

**Laura Magaña Valladares:** The importance of networking and technology: The case of Ecohealth Leadership for Vector-Borne Diseases in Latin America and the Caribbean Initiative



### Symposium: USAID-PREDICT: Developing a global early warning system for emerging pandemics

**Chair:** Peter Daszak

**Room:** B

**Catherine Machalaba:** Engaging the wildlife and environmental sectors in protecting human health

**Joseph Fair:** Early Detection of Novel Biothreats Through International Scientific Engagement and Medical Diplomacy

**Carlos Zambrana:** Floresta Profunda: A preliminary analysis

### Symposium: Industrialization, environment and health in China and India

**Chair:** Jennifer Holdaway

**Room:** C

**Jennifer Holdaway:** New Approaches to Environment, Health and Development China and India

**Anna Lora-Wainwright:** Citizens' responses to pollution: patterns of social and political embeddedness in two Chinese villages

**Ajiang Chen:** How Do Villagers Defuse Environmental Health Risks?

**Fiona Marshall:** Pathways for addressing environmental health challenges in peri-urban India

**Ravi Agarwal:** Activating Environmental and Health linkages: The case of Bio Medical Waste in India

### Symposium: Water and Health in China from the Perspective of Non-Government Organizations

**Chair:** Sun Shan

**Room:** D

**Sun Shan:** Hotspot Identification for Water Conservation in Southwest China

**Tian Kun:** Drought Impact on Wetland Ecosystem

**Li Lican:** Drinking water status and water pollution in rural China

**Yun Jianli:** Drinking water pollution with Han River and Health Issues for South-North water transfer project in China

### OneHealth, and Emerging, Re-emerging and Resurging Infectious Diseases

**Moderator:** YBD

**Room:** E

**Sandra Junglen:** Identification of the sylvatic origin of St Louis encephalitis virus and phylogeographic mapping of the exodus of cosmopolitan strains to North- and South America

**Sarah Dickin:** Community-level vulnerability mapping of target sites for dengue control in Seremban and Putrajaya, Malaysia

**Sarah Budischak:** The causes and consequences of parasite community composition

**Parnali Dhar Chowdhury:** An analysis of dengue risk perception in Bangladesh by using Ecohealth approach

**Dohyeong Kim:** Value of information in decision-analytic modeling for malaria control

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## OneHealth, and Emerging, Re-emerging and Resurging Infectious Diseases

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### Room: F

**Jordan Sky Oestreicher:** Landscape change and mercury movement in the Tapajos River region of the Brazilian Amazon: An historical and mixed-methods approach (275)

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**Bastian Seidel:** Climate change and rural child health: Results and new directions from an international collaboration

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**Andrew Cunningham:** Conservation threats and opportunities of the Chinese giant salamander farming industry

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**Barbara Shock:** Ecology and characterization of a novel Babesia found in the endangered Florida puma (*Puma concolor coryi*)

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**Whitney Kistler:** Surveillance for various pathogens and lead in American black ducks (*Anas rubripes*) from the northeastern and mid-Atlantic United States

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## OneHealth, and Emerging, Re-emerging and Resurging Infectious Diseases

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### Room: G

**Gabriela Rios-Sotelo:** Uncovering the Origin of Pathogenic Fungus *Bathrachytrium dendrobatidis*: The First Retrospective Historical Survey of Amphibian Disease Chytridiomycosis in Asia

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**Parichat Saenna:** Food Safety and Emerging Foodborne Disease in Thailand and Vietnam

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**Carsten Richter:** Zoonotic Disease Threats in the Greater Mekong Subregion: An Ecological Perspective

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**Esther Schelling:** Rift Valley Fever: Prevention and control options from transdisciplinary and multi-sector processes

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**Raul Figueroa:** Vectors of Chytridiomycosis in Chinese Pet and Food Trade

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## Non-communicable Diseases, Globalization and Urbanization

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### Room: H

**Wang XiWei:** Impact of Urbanization on Health Care Delivering Systems in Ningbo Area, South East China

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**Dossou Gilbert Avode:** Impact of socio-cultural factors on the management of neurological diseases in Africa.

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**Meredith Barrett:** Exploring asthma “riskscapes” with spatially explicit, real-time data: application of a novel health technology to assess the effect of climate change on asthma

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**Wang XiWei:** Lung Cancer Incidence is Changing in Health Area Ningbo , China

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**Horacio Riojas-Rodríguez:** Exposure to dioxins/furans associated to genotoxic damage in pregnant women in Puebla Mexico and their risk perception

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# Poster Sessions

Day One : Poster Session 1	
Tuesday, October 16th - 13:15-14:00	
Poster Session 1	No.
<b>Jose Arias-Bustamante:</b> Climate change and Indigenous knowledge: identifying for Indigenous knowledge-based adaptation management guidelines	61
<b>Abdul Rani Bahaman:</b> Leptospirosis in Malaysia: A Model Disease for the One Health Concept	83
<b>Lindsay Beck:</b> Connections Between the Land & Wellbeing: Perspectives of First Nations Youth in Central Interior British Columbia (BC), Canada	43
<b>Amiel Nazer Bermudez:</b> A Baseline Description of the Dietary Diversity of Sentinel Households in the Santa Rosa Sub-watershed Area, Laguna Lake, Philippines	156
<b>Amiel Nazer Bermudez:</b> The Geospatial Distribution of Soil-Transmitted Helminth Infections in Public Elementary School Children in Two Villages in the Santa Rosa Sub-Watershed Area, Laguna Lake, Philippines	160
<b>Jeff Boutain:</b> On the Origin of Hops ( <i>Humulus</i> , Cannabaceae): Ethnobotany, phylogeny, and next-generation hops in China	238
<b>Kai Chen:</b> Comprehensive spatial assessment of urban health risk- A case study of Nanjing, China	135
<b>Anna S. Dean:</b> A One Health Approach to the Ecology of Zoonotic Diseases in Togo	63
<b>Alexis Delabougliise:</b> An interdisciplinary approach to assess the social and economic constraints related to avian influenza surveillance at local level in Vietnam and Thailand	119
<b>Thulasi Mala Dhurvan:</b> Epidemiological status in Chennai City, India: An Interventionist Approach to control and Eradication	58
<b>Jan Felix Drexler:</b> Amplification of emerging RNA viruses associated with formation and parturition in a bat maternity roost	146
<b>Jonathan Dyal:</b> Cryptococcal Meningitis in Pune, India: Season and Gender Matter	187
<b>Leana Garraway:</b> Knowledge to Action: Using Research with First Nations for Community Benefit	208
<b>Hongwei Jiang:</b> Human outdoor defecation in endemic area of liver fluke: a case study in a village in Savannakhet province, Lao PDR	391
<b>Alain Richi Kamga - Waladjo:</b> Seroprevalence and risk factors of toxoplasmosis and neosporosis in domestic carnivores and women received in antenatal consultation in the region of Kaolack - Senegal	20

Day One: Poster Session 1 Cont...

<b>Ajit Kumar Karna:</b> Socio-Ecological Determinants of Japanese Encephalitis in Mid and Higher Hills of Nepal: Ecosystem Understanding	205
<b>Jordan Kueneman:</b> Probiotics as an Emerging Tool to Prevent and Mitigate the Impacts of Infectious Disease	179
<b>Aparna Lal:</b> The effects of global climate and local weather on the incidence of enteric diseases in New Zealand	91
<b>Toshifumi Minamoto:</b> Monitoring of fish pathogenic viruses in freshwater environments	136
<b>Alejandro Molina-Garcia:</b> <i>Vibrio parahaemolyticus</i> and Seafoodborne Illness in 2009-2011 with Temperature and Rainfall during April 1950-2000 and 2030, 2050 Climate Scenarios in Michoacan, Mexico.	33
<b>Karen Morrison:</b> Instituting Ecohealth at the Regional Level: Structure, Findings and Recommendations of the Caribbean Ecohealth Programme (2007-2012)	326
<b>Hung Nguyen-Viet:</b> Field Building Leadership Initiative: Advancing Ecohealth in Southeast Asia	164
<b>Sumeet Saksena:</b> Role of Integrated Agriculture-Aquaculture in Environmental Dissemination of Avian Influenza in Vietnam	183
<b>Gagak Donny Satria:</b> Challenges in Changing the Traditional Culture of People Residing Javanese Island Suburbs to Improve Health	99
<b>Minu Sharma:</b> Knowledge, attitude and risk factors associated with JE among pig farmers in Kathmandu, Nepal	42
<b>Jerry Spiegel:</b> Establishing a community of practice of researchers, practitioners, policy-makers and communities to implement an ecosystem approach to health in a network of Ecuadorian universities	235
<b>Ethi Sudarnika:</b> Improvement of Biosecurity and Poultry Health on Broiler Farms Through the use of District Livestock Service Advisors in Subang, Indonesia	152
<b>Agik Suprayogi:</b> A View of Bogor's Weather Related to The Emerging Diseases Anthrax and Avian Influenza from January 2004 to February 2005	113
<b>Céline Surette:</b> From conceptual to effective interdisciplinarity: a mercury research network case study	173
<b>Apiporn Suwannatrai:</b> Prevalence of <i>Opisthorchis viverrini</i> Infection in <i>Bithynia</i> Snails in Opisthorchiasis Endemic Areas, Khon Kaen Province, Northeast Thailand	220
<b>Dinh Xuan Tung:</b> Sustaining a regional EID research network through a trust based approach (Asia Partnership on Emerging Infectious Disease Research)	131
<b>Paul Watts:</b> Participatory Curriculum Development for Marine Ecohealth scaled to a Philippine Marine Bioregion	284
<b>Christine Zolnik:</b> Genetic differentiation of disease vector populations along an urban-rural gradient	202





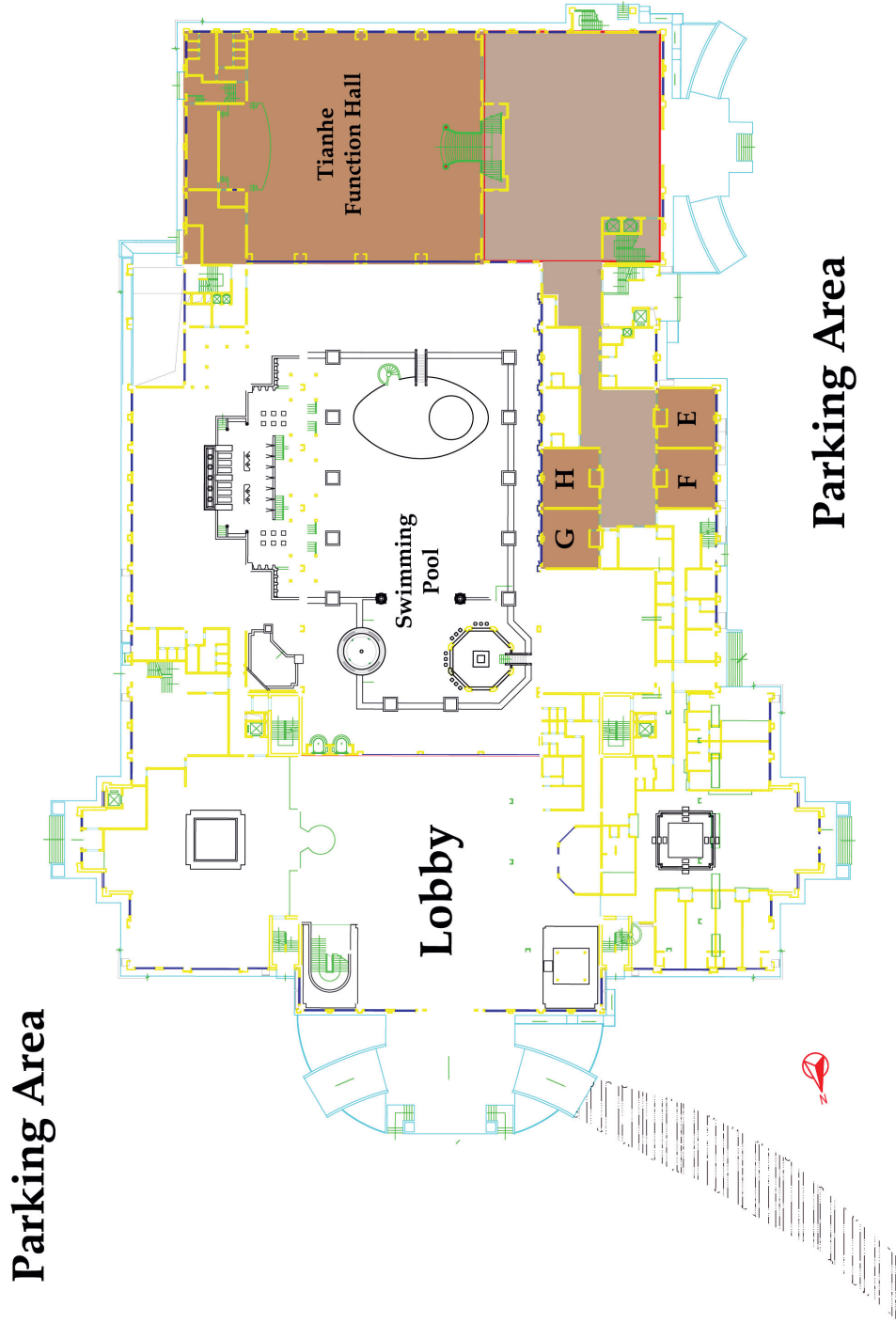
Day Two: Poster Session 2	
Wednesday, October 17th – 13:30-14:15	
Poster Session 2	No.
<b>Ana Lisette Arellano:</b> Microbe and parasite spillover and spillback between domestic and wild canines at the wildland-urban interface on Colorado's Front Range	295
<b>Chaerul Basri:</b> Socio-cultural Study of Perceptions Towards Dogs, Patterns of Dog Ownership and Practices for Rabies Control in Bali, Indonesia	349
<b>Amiel Nazer Bermudez:</b> Changes in the Quantity, Quality and Variety of Fishes and Vegetables Sold in Markets in Lakeshore Villages in the Philippines	162
<b>Amiel Nazer Bermudez:</b> Occupation-related health risks and effects on farming practices of environmental changes in selected lakeshore villages in the Laguna Lake Region, Philippines	161
<b>Leana Garraway:</b> Building Resilience in Vulnerable Populations in Ayacucho, Peru through a Transdisciplinarity Focused Organization (Equipo Peruano de Antropologia Forense (EPAF))	445
<b>Heng Gui:</b> Influence of N-fixing trees on soil health in monoculture systems	444
<b>David Hall:</b> National water related policies and its implications for the health of farmers, animals, and the environment	137
<b>Mai Van Hiep:</b> Strategies for adopting EcoHealth theory and practice: lessons from action-research on zoonotic diseases in Southeast Asia	289
<b>Andri Jatikusumah:</b> Dog Behavior and Ecology in Bali, Indonesia and Implications for Rabies Transmission and Spread	299
<b>Hongwei Jiang:</b> Variations in malaria incidence by household positions within a community in high risk region	331
<b>Alain Richi Kamga Waladjo:</b> Seroprevalence of bovine brucellosis and human infection risk in Senegal	27
<b>Alain Richi Kamga Waladjo:</b> Seroprevalence and risk factors of toxoplasmosis and neosporosis in domestic carnivores and women received in antenatal consultation in the region of Saint Louis-Senegal	21
<b>Per Karlsson:</b> Royal Veterinary College Student Research Team: Better Management Practices in Indonesian Shrimp Farming	298
<b>Ajit Kumar Karna:</b> Agricultural skills development training for remote and marginalized community in Nepal as a tool to strengthen local ecosystem health	186
<b>Supaluk Khaklang:</b> Mosquito Vector Diversity, Blood Meal Preference and Flavivirus Infection across Different Ecotopes on Koh Chang, Thailand, A Global Outreach Hotspot	334
<b>Anne Madden:</b> The effect of chronic stress on the gut microbial community of wild-caught House Sparrows, <i>Passer domesticus</i>	309
<b>Robiana Modjo:</b> Occupational Health Surveillance of Waste Management Unit Merdeka 2 Depok in 2011	381

Day Two: Poster Session 2 Cont...

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<b>Varapon Montrivade:</b> Tourism and Vulnerability of Disease Emergence: A Preliminary Anthropological Study on Koh Chang, Thailand	435
<b>Ronald E. Morales Vargas:</b> Post Natural Disaster Emergency Pest Control In Thailand: an Academia-Private-Public-NGO Effort	403
<b>Suwannapa Ninphanomchai:</b> GIS Mapping of Vector-Borne Disease Incidences in Relation to Land Use Settings on Koh Chang, Thailand, A Global Outreach Hotspot	333
<b>Sujatha P:</b> Vulnerable population in chennai city-a focus on health risk	432
<b>Ngoc Pham Thi:</b> Hygienic practices and microbial contamination of small-scale poultry slaughterhouses in peri-urban areas, Hanoi, Vietnam	252
<b>Paradee Plodpai:</b> Undocumented Migrants and Vulnerability of Disease Emergence: A Preliminary Anthropological Study on Koh Chang, Thailand	436
<b>Pitcha Ratanawong:</b> Perception and Prevention of Vector-Borne Diseases among Tourists Visiting Koh Chang, Thailand	335
<b>Jessica Rowland:</b> A Dynamic Model of Japanese Encephalitis Virus to Improve Surveillance Strategies	371
<b>Esther Schelling:</b> Vaccination - a key tool in public health, animal and wildlife health - but there should be more exchange on failures and successes	395
<b>Yogendra Shah:</b> Expansion of Dengue Virus in Western Terai Region of Nepal	363
<b>Lertrak Srikitjakarn:</b> A case study on the influence of community participation on reporting and control of Avian Influenza epizootic in backyard chicken	356
<b>Bumpei Tojo:</b> Map creation for evaluation of risk from liver fluke infections using DEM and satellite imageries	384
<b>Vivian Valencia:</b> Farmer's management of tree biodiversity to optimize the delivery of desired ecosystem services in shade coffee agroecosystems	261
<b>Paul Watts:</b> Social Process and an Ecohealth Practitioner network in Kenya: response to food security challenge through images of the future	277
<b>Maria Digna Winda Widyastuti:</b> Dog Demography in Relation to the Persistence of Rabies on Bali - Indonesia	342
<b>Pengpeng Ye:</b> The association between medication use and direct heat-related hospitalizations in Adelaide, Australia	357



# Conference Venue Maps



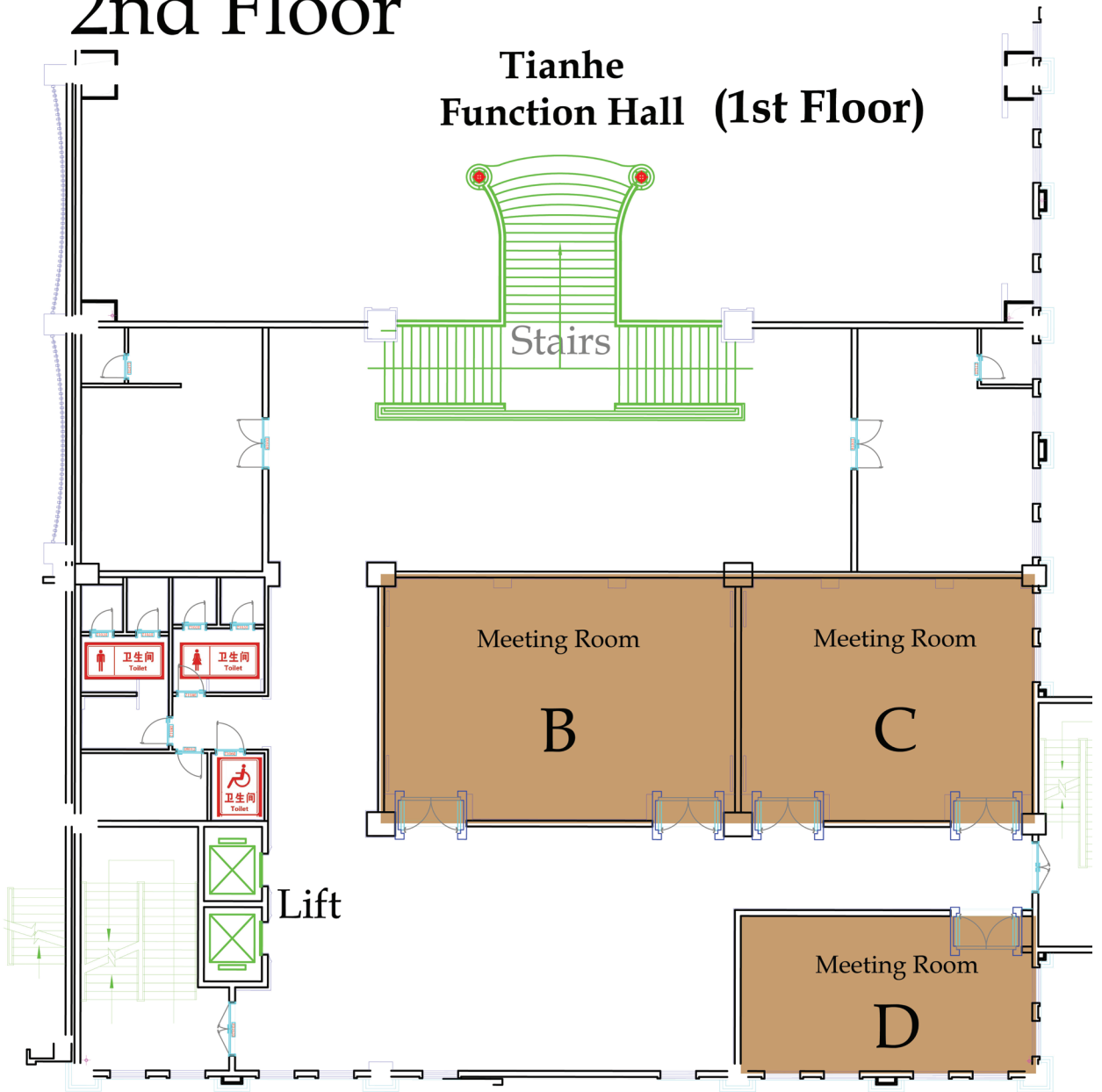


# The 1st floor

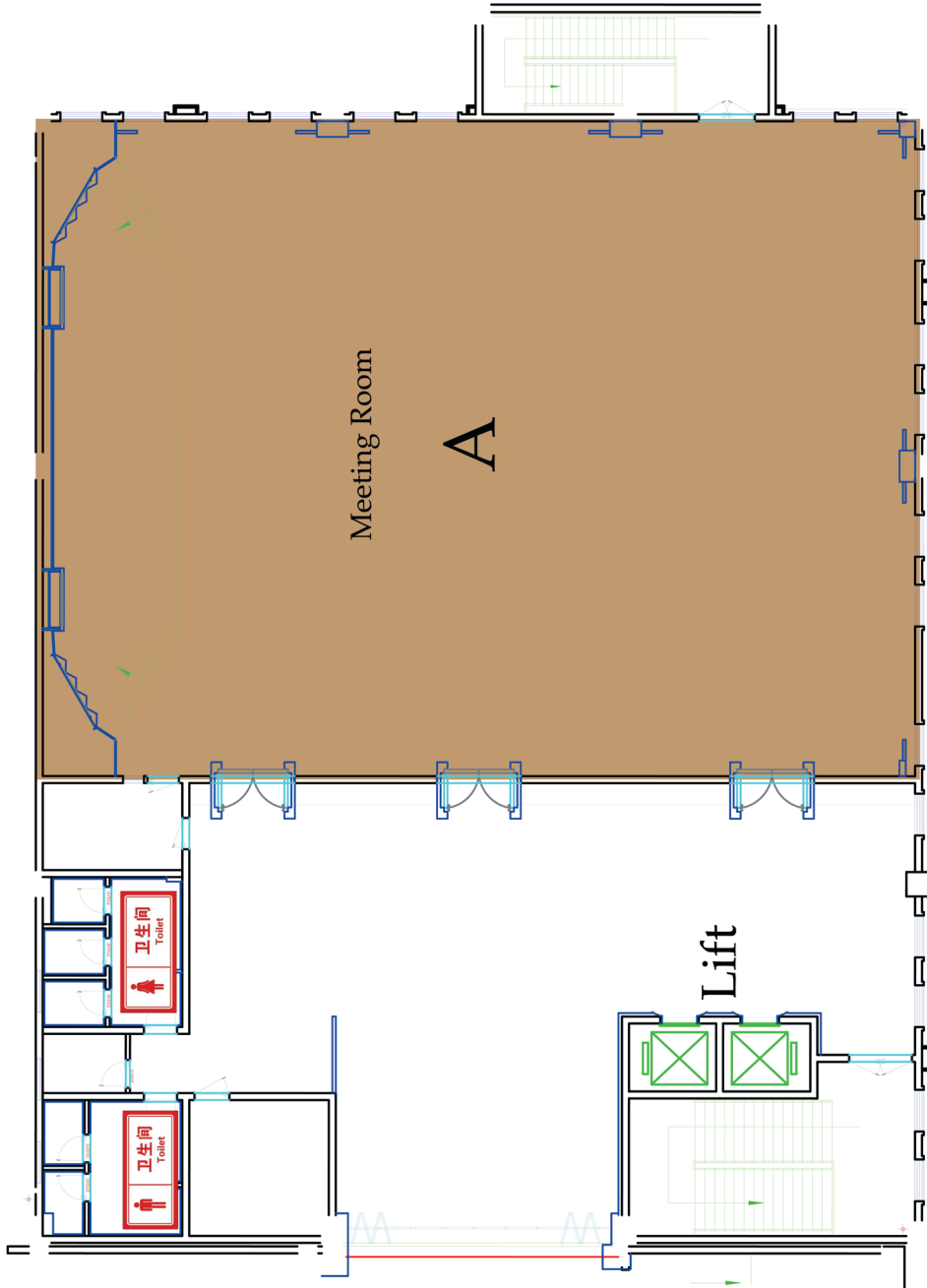


# 2nd Floor

## Tianhe Function Hall (1st Floor)



# 3rd Floor





# The International Association for Ecology & Health

The International Association for Ecology & Health is a member-governed organization dedicated to advancing research, education, policy and practice that recognizes ecology and the health of all species as inter-related. The Association focuses its work at the nexus of ecosystem sustainability, resilience and health – for humans and all species.

The Association's mission is to strive for sustainable health of people, wildlife and ecosystems by promoting discovery, understanding and transdisciplinarity. The specific objectives of the Association toward are to:

- Serve a diverse international community including scientists, educators, policy makers, practitioners and the general public;
- Provide mechanisms and forums to facilitate international and interdisciplinary discourse through publication of the journal *EcoHealth* by holding biennial conferences and promoting additional activities in line with the mission;
- Encourage development of transdisciplinary teaching, research and problem-solving that cut across many fields of scholarship (including natural, social and health sciences, and the humanities) and draws upon multiple types of knowledge.

The International Association for Ecology & Health is governed by an elected board:

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**EcoHealth** is the Official Journal of International Association for Ecology & Health

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