



*Technical Sessions  
June 23, 2009*

*Titles are listed with only the presenters' names. For a complete listing of all authors, please consult the digital files received during registration.*

***Session I (11:00 AM until 12:40 PM)***

***Climate Change and Challenges to Ecological and Economic Sustainability***

***Duong Van Ni, Chair***

**11:00 AM: Response of Nutrient Levels in a Mangrove Tidal Creek at Can Gio Mangrove Biosphere Reserve, Vietnam**

Pham Quynh Huong, Department of Botany and Evolutionary Biology, University of Sciences, Ho Chi Minh City

**11:20 AM: Combined Use of a Storm Model and Multi-Satellite Remote Sensing for Assessing Ecosystem Impacts of Tropical Cyclone Sidr on Coastal Mangroves of the Ganges Delta**

Abdullah F. Rahman, Department of Geography, Indiana University

**11:40 AM: Northern Gulf of Mexico Landscape Change and Natural Hazards**

John Brock, U.S. Geological Survey

**12:00 Noon: The Use of Vegetation Indices to Track Marsh Changes Following Hurricane Disturbances**

Brady Couvillion, U.S. Geological Survey

**12:20 PM: The Longterm Influence of Three Different Water Levels on Wetland Flora Diversity and Production at Hoa An Research Center**

Tran Duy Phat, Can Tho University

***Session II (11:00 AM until 12:40 PM)***

***Envisioning New Approaches to Managing Great Deltas, Great Rivers, and Great Lakes***

***Richard Lowerre, Chair***

**11:00 AM: Energy Choices in Mekong Delta Vietnam**

Vo My Linh, Chevron Vietnam

**11:20 AM: Comparing Undeveloped and Heavily Developed Delta Floodplain Systems of Northern Australia: Lessons for Future Development**

Damien Burrows, Australian Centre for Tropical Freshwater Research, James Cook University

**11:40 AM: Impacts of River Impoundments: The Case of Hydro Power Projects on Omo River of Lake Turkana**

William Ojwang, Kenya Marine & Fisheries Research Institute



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GREAT DELTAS,  
GREAT RIVERS,  
AND GREAT LAKES  
2009**

**12:00 Noon: Spatial Modeling for Decision Support in Selecting the Most Suitable Areas of Inland Valley Wetland Cultivation to Support Africa's Green and Blue Revolution**

Prasad S. Thenkabail, U.S. Geological Survey

**12:20 PM: Macrophytes of the River Nyando Delta, Lake Victoria – Kenya**

Reuben Omondi, Kenya Marine & Fisheries Research Institute

***Session III (11:00 AM until 12:40 PM)***

***Connecting People and the Ecosystems That Support Them***

*Sansanee Choowaew, Chair*

**11:00 AM: Strategic Impact Assessment and Policy Conflicts in Coastal Regulatory Zones of Deltaic Sunderbans in India - A Case Study**

Dipayan Dey, South Asian Forum for Environment

**11:20 AM: Effects of Economic Crisis on Shrimp Producers in the Mississippi and Mekong Deltas**

Brian Marks, Department of Geography and Regional Development, University of Arizona

**11:40 AM: Improving Mekong Water Allocation**

John Dore, AusAID Mekong Region Water and Infrastructure Unit, Australian Embassy

**12:00 Noon: Linking Cranes, People and Wetlands in the Mekong Delta**

Tran Triet, Vietnam National University and Southeast Asia Program, International Crane Foundation

**12:20 PM: Impacts on Carbon Sequestration and Water Availability at the Continental Scale**

Steven McNulty, U.S. Forest Service, Southern Global Change Program

***Session IV (11:00 AM until 12:40 PM)***

***Reducing the Mekong Delta's Climate Change Vulnerability Through Regional Cooperation and Local Adaptations***

*Geoffrey Blate, Chair*

**11:00 AM: Mekong Delta at Risk**

Ruth Mathews, WWF Vietnam Country Programme

**11:15 AM: Climate Change in the Mekong River Delta and Key Concerns on Future Climate Threats**

Le Anh Tuan, DRAGON Institute – Mekong, Can Tho University

**11:30 AM: Potential Effects of Dams, Dikes, and Sea Level Rise on Agriculture and Local Adaptations to Hydrological Changes in the Mekong Delta**

Nguyen Van Kien, The Australian National University

**11:45 AM: Linking and Addressing the Combined Effects of Lower Mekong Main Stem Dams and Climate Change on the Mekong Delta**

Geoffrey Blate, WWF Greater Mekong Programme



**12:00 Noon: Panel Discussion**

***Session I (1:30 PM until 5:00 PM)***

***Climate Change and Challenges to Ecological and Economic Sustainability***

***Juhani Platt, Chair***

**1:30 PM: Semi-Dyke Alternative: An Implication for Climate Change Adaptation Strategy for the Mekong Delta**

Nguyen Hieu Trung, DRAGON Institute – Mekong, Can Tho University

**1:50 PM: The Function of Mangrove Density and Diversity in Environmental Protection in Vinh Chau, Soc Trang Province**

Truong Thi Nga, DRAGON Institute – Mekong, Can Tho University

**2:10 PM: Flow Variations Responses to Climate Change in the Mainstream of the Upper Mekong River**

Li Shaojuan, School of Urban Management and Resources Environment, Yunnan University

**2:30 PM: Impact of Climate Change on Carbon Storage and Burial in Mangrove Ecosystems**

Barry Clough, DRAGON Institute – Mekong, Can Tho University

**2:50 PM: Break**

**3:20 PM: Impact of Climate Change on Mangroves in the Mekong Delta**

Barry Clough, DRAGON Institute – Mekong, Can Tho University

**3:40 PM: Hydrological Changes and Possible Transboundary Impacts in Lancang (Upper Mekong) Mainstream**

He Daming, Asian International Rivers Center, Yunnan University

**4:00 PM: An Example of Active Restoration of a Degraded Wetland in Tram Chim National Park**

Nguyen Hoanh Minh Hai, Can Tho University

***Session II (1:30 PM until 5:00 PM)***

***Envisioning New Approaches to Managing Great Deltas and Great Rivers***

***Richard Lowerre, Chair***

**1:30 PM: The Use of Remote Sensing for the Characterization of Large River Basins: Studies Pertaining to Water Use, Water Productivity, Wetlands, and Agricultural Cropland Changes**

Prasad S. Thenkabail, U.S. Geological Survey

**1:50 PM: Integrating *Melaleuca cajuputi* with Rice in an Agro-Forestry Trial on the Seasonal Flooded Wetlands of the Mekong Delta, Vietnam**

Duong Van Ni, DRAGON Institute – Mekong, Can Tho University

**2:10 PM: Role of Wetland and Constructed Wetland in Wastewater Treatment**

Le Quoc Tuan, Department of Natural Resources and Ecotourism, Nong Lam University

**2:30 PM: Development of a Geographic Information System for Sustainable Natural Resource Management of the Mekong Delta**

Nguyen Hieu Trung, DRAGON Institute – Mekong, Can Tho University

**2:50 PM: Break**

**3:20 PM: Vulnerability-Exposure-Sensitivity-Resilience (VESR): A Geospatial Vulnerability Assessment Methodology and Its Application in the Lower Mekong River Basin**

Chris Chiesa, Pacific Disaster Center

**3:40 PM: The Role of Sustainable Fisheries Management: Fish and the Poor, the Case of Cambodia**

Chaunn Aun Tob, Inland Fisheries Research and Development Institute

**4:00 PM: Water Quality Assessment at Klong U-Tapao Wetland, Southern of Thailand by the MIKE 11 Model**

Piyakarn Teartisup, Faculty of Environment and Natural Resource Studies, Mahidol University

**4:20 PM: Sediment Transport Characteristics and Trends in the Lower Mississippi and Atchafalaya Rivers**

Charles Demas, U.S. Geological Survey

**Session III (1:30 PM until 5:00 PM)**

*Connecting People and the Ecosystems That Support Them*

*Sansanee Choowaew, Chair*

**1:30 PM: Current Production and Effects of Feed Source and Feeding Time on the Growth and Carcass Values of *Crocodylus siamensis* in the Mekong Delta of Vietnam**

Nguyen Van Thu, Department of Animal Sciences, Can Tho University

**1:50 PM: The Mangrove - Shrimp System and Coastal Sustainable Development in the Mekong Delta, Vietnam**

Bui Thi Nga, DRAGON Institute – Mekong, Can Tho University

**2:10 PM: Water and Poverty in the Coastal Region of the Mekong Delta, Vietnam**

Dang Kieu Nhan, Mekong Delta Development Research Institute, Can Tho University

**2:30 PM: Flood Adaptation in Cambodian and Vietnamese Mekong Deltas: A View from Local Institutional and Livelihood Approaches**

Nguyen Van Sanh, Mekong Delta Development Research Institute, Can Tho University

**2:50 PM: Break**

**3:20 PM: Using Role-Playing Game for Learning and Mitigating Land Use Conflict Between Herders and Foresters in Upper Nan Watershed, Northern Thailand**

Pongchai Dumrongrojwattana, Agricultural Technology Programme, Chulalongkorn University



**3:40 PM: An Investigation of Production Models and Characteristics of Growth and Reproductivity of Bocourts Water Snake (*Enhydryis bocourti*) in the Mekong Delta of Vietnam**

Nguyen Van Thu, Department of Animal Sciences, Can Tho University

**4:00 PM: Toward Hybrid Science: Integrating Indigenous Knowledge and Geographic Information Systems**

Mark Palmer, Department of Geography, University of Missouri-Columbia

**4:20 PM: An Evaluation of Stakeholder Involvement in Wetlands Used in Kampong Chhnang Province**

Kim Soben and Heng Chamroen, Royal University of Agriculture

**4:40 PM: The Fishery of Blue Swimming Crab *Portunus pelagicus* Linnaeus, 1758, By Using Collapsible Crab Traps at Kung Krabaen Bay, Chanthaburi Province, Thailand**

Chutapa Kunsook, Department of Biology, Chulalongkorn University

**Session IV (1:30 PM until 5:00 PM)**

*“The First Rule of Intelligent Tinkering Is To Save All the Parts”*

*Phiphakhavong Lammai, Chair*

**1:30 PM: One New Species of Earthworms (Oligochaeta: Megascolecidae) of the Nam Xam NBCA, Laos**

Khamla Inkhavilay, Department of Biology, National University of Lao

**1:50 PM: Breeding Habits of the Eastern Sarus Crane (*Grus antigone sharpii*) in Yok Don National Park, Vietnam**

Nguyen Hoai Bao, Vietnam National University

**2:10 PM: Rapid Assessment of Natural Wetland for Eastern Sarus Crane Reintroduction to Thailand**

Bhuvadol Gomontean, Department of Biology, Mahasarakham University

**2:30 PM: Biological Characteristics of *Mimosa pigra* L. in Wetland Ecosystems in Thailand**

Komgrit Wongpakum, Walai Rukhavej Botanical Research Institute, Mahasarakham University

**2:50 PM: Break**

**3:20 PM: Study on Ground Water/Surface Water Hydrochemical Interactions Under Baseflow Conditions Within a Headwater Tropical Catchment, Houya Pano, Lao PDR**

Sisomphone Southavong, Champasack University

**3:40 PM: Biodiversity of Freshwater Bryozoans and the Applications as Bioindicator in Assessing Water Quality in Songkram River**

Patana Anurakpongsatorn, Department of Environmental Science, Kasetsart University



**Session V (1:30 PM until 5:00 PM)**

***Large Lakes, Deltas, and Transboundary Partnerships: Fostering Science, Cooperation, and Sound Management***  
***Chheng Phen, Chair***

**1:30 PM: The Ecology and Management of Poyang Lake, China**

Jeb Barzen, International Crane Foundation

**1:50 PM: Two Great Lakes of North Asia: Lake Baikal and Lake Taymyr**

Dmitry Pavlov, Institute of the Biology of Inland Waters, Russian Academy of Sciences

**2:10 PM: Ayeyawady Delta after Cyclone Nargis**

Tran Triet, Vietnam National University and Southeast Asia Program, International Crane Foundation

**2:30 PM: Wetlands and State of Fisheries in the Russian River Deltas**

Dmitry Pavlov, Institute of the Biology of Inland Waters, Russian Academy of Sciences

**2:50 PM: Break**

**3:20 PM: Ecology of Large Lakes**

Richard Nyeko, Lake Victoria Fisheries Organization

**3:40 PM: Fishery Management of the World's Large Lakes: Commonalities, Contrasts, and Challenges**

Charles Krueger, Great Lakes Fishery Commission

**4:00 PM: Governance of Large Lakes**

Marc Gaden, Great Lakes Fishery Commission

***POSTERS***

**Enhancing Adaptive Capacity to Climate Change of Vulnerable Communities in the Mekong Delta of Vietnam**

Vo Thanh Danh, DRAGON Institute – Mekong, Can Tho University

**An Introduction on DRAGON Institute - Mekong - CanTho University**

Le Anh Tuan, Nguyen Hieu Trung, Nguyen Thi Nhu Ngoc, and Le Quang Tri, DRAGON Institute – Mekong, Can Tho University

**The Fate of Mekong Fish and Fisheries**

Bin Kang, Asian International Rivers Center, Yunnan University

**START Activities and Networks in the Mekong River Basin (MRB) and Greater Mekong Subregion (GMS)**

Anond Snidvongs, Southeast Asia START Regional Center



**DRAGON Asia Summit**  
*Connecting*

**Great Deltas, Great Rivers, and Great Lakes**

