

# Programme



Hosted by the  
Republic of the Philippines

# eas Congress 2009

## The East Asian Seas Congress 2009

Partnerships At Work:  
Local Implementation And  
Good Practices

**23 – 27 November**

Philippine International  
Convention Center (PICC)  
Manila, Philippines



Department of Environment and  
Natural Resources (DENR) Philippines



Partnerships in Environmental  
Management for the Seas of East Asia



Global Environment  
Facility



United Nations  
Development Programme



United Nations Office for  
Project Services



Coastal Management  
Center

Organized by PEMSEA and the Department of Environment  
and Natural Resources (DENR), Philippines, and  
supported by GEF, UNDP, UNOPS and CMC.

# Table of Contents

<b>Theme 1: Coastal and Ocean Governance</b>	<b>03</b>
Workshop 1: Coastal/Ocean Policy and Legislation: Implementation and New Initiatives	
Workshop 2: Contributions of Marine Economic Sectors to Regional and National GDP in an Uncertain Climate	
Workshop 3: The Continental Shelf: Post-May 2009 Perspectives	
Workshop 4: Addressing Transboundary Issues Through Regional/Subregional Seas Cooperation: Initiatives in East Asia	
Workshop 5: The Science in Ecosystem-based Management	
Workshop 6: Land- and Sea-use Zoning: Challenges and Opportunities	
Workshop 7: Workshop on Mainstreaming Marine and Coastal Issues into National Planning and Budgetary Processes	
Poster Presentations	
<b>Theme 2: Natural and Man-made Hazard Prevention and Management</b>	<b>30</b>
Workshop 1: Government/Industry Partnerships for Effective and Consistent Preparedness and Response to Marine Pollution in East Asia	
Workshop 2: Meeting Challenges of Climate Change at the Local Level through ICM	
Workshop 3: Impacts of Climate Change at the Coastal and Ocean Areas of the East Asian Seas Region	
Workshop 4: Development and Advances on Marine Bio-safety in the Context of the Convention on Biodiversity	
<b>Theme 3: Habitat Protection, Restoration and Management</b>	<b>48</b>
Workshop 1: Networking of Marine Protected Areas: Benefits, Good Practices, Standards and Next Steps	
Workshop 2: Indigenous Approaches to Habitat Protection and Restoration: Experiences in Sato Umi and Other Community Initiatives	
Workshop 3: Innovation in Biodiversity and Habitat Conservation: Lesson Learned	
Poster Presentations	
<b>Theme 4: Water Use and Supply Management</b>	<b>62</b>
Workshop 1: Alternative Energy: A Solution for Energy Security for Islands and Remote Areas	
Workshop 2: Addressing Water Crisis in Rapidly Growing Cities	
<b>Theme 5: Food Security and Livelihood Management</b>	<b>70</b>
Workshop 1: Mainstreaming Sustainable Aquaculture into the ICM Framework	
Workshop 2: Future Role of Fisheries in an Urbanized World	
Workshop 3: Livelihood Management and Sustainable Coastal Tourism	
<b>Theme 6: Pollution Reduction and Waste Management</b>	<b>81</b>
Workshop 1: Transboundary Pollution Reduction in River Basins and Coastal Areas	
Workshop 2: Innovative Policies and Practices in Water Supply, Sanitation and Pollution Reduction	
Poster Presentations	
<b>Special Sessions, Workshops and Meetings</b>	<b>92</b>
Special Session on Disaster Management	
Opportunity for a Sustainable Regional Mechanism for Governmental/Civil Society Collaboration on ICM in the Indian Ocean Region	
Workshop on Local Action, Global Contribution: Best Practices on Community-based Approaches to Sustainable Coastal and Marine Ecosystems Management	
Seminar on Green Ports in the ASEAN Region	
SGP-PEMSEA Partnership Meeting	
Seminar on Ecosystem Approach to Conservation and Fisheries Management	
Workshops on Meeting Human Resources Requirements in Coastal and Ocean Governance: Formal and Informal Training	
Second EAS Youth Forum	

## THEME 1

### Coastal and Ocean Governance

Thematic Keynote Speaker:



**Prof. Tommy Koh**  
Ambassador-at-Large,  
Ministry of Foreign  
Affairs, Singapore

**Date:** 23 November  
**Time:** 1100-1130  
**Venue:** Plenary Hall

Workshops/Seminar Topics:

**Workshop 1: Coastal / Ocean Policy and Legislation: Implementation and New Initiatives**  
**Date: 24 November**

**Workshop 2: Contributions of Marine Economic Sectors to Regional and National GDP in an uncertain Climate**  
**Date: 23 November**

**Workshop 3: The Continental Shelf: Post-May 2009 Perspective**  
**Date: 23 November**

**Workshop 4: Addressing Transboundary Issues Through Regional/Subregional Seas Cooperation: Initiatives in East Asia**  
**Date: 23 November**

**Workshop 5: The Science in Ecosystem-based Management**  
**Date: 25 November**

**Workshop 6: Land and Sea-use Zoning: Challenges and Opportunities**  
**Date: 23 November**

**Workshop 7: Workshop on Mainstreaming Marine and Coastal Issues into National Planning and Budgetary Processes**  
**Date: 25 November**

## THEME 1 Coastal and Ocean Governance

### WORKSHOP 1

#### Coastal/Ocean Policy and Legislation: Implementation and New Initiatives

---

#### CO-CONVENING AGENCIES:



OPINEAR

Ocean Policy Institutes  
Network of the East Asian  
Region

Schedule: **24 November; 1000-1830**  
**Meeting Room 14**

Chair: **Mr. Hiroshi Terashima**  
*Executive Director, Ocean Policy Research Foundation*

Co-Chair: **Dr. Chua Thia-Eng**  
*Council Chair, EAS Partnership Council*

This workshop highlights the importance of coasts and oceans and discusses the various initiatives and efforts at central and local level in developing and implementing ocean and coastal governance. It benefits from the practical implementation, lessons learned and future actions related to coastal and ocean governance.

This workshop has three sessions. Session 1 focuses on the national initiatives, both successes and failures, in developing national coastal/ ocean policy, strategy and legislation. The session looks into the experiences and lessons learned in the implementation of national policies and strategies as well as sharing efforts with new initiatives. Session 2 examines how the planning and management framework of ICM could be effectively applied in an integrated manner for addressing the issues of climate change, marine pollution, biodiversity conservation, food security and freshwater resources depletion. Session 3 is the Legislators' Dialogue which provides a venue for exchange of ideas among legislators and policymakers. The heart of the dialogue will be the next legislative or policy action agenda that will contribute to the enabling environment for coastal and ocean policy development and implementation as well as wider application of the ICM approach for integrated implementation of relevant international conventions.

P R O G R A M M E

**1000-1005**

**Welcome Remarks**

Mr. Masahiro Akiyama, Ocean Policy Research Foundation

**1005-1015**

**Introduction by the Workshop Chair**

Mr. Hiroshi Terashima

**SESSION 1: NATIONAL OCEAN POLICY: IMPLEMENTATION AND NEW INITIATIVES**

**1015-1200**

**The New Initiative on Comprehensive Ocean Policy And The Basic Act on Ocean Policy of Japan**

Mr. Hiroshi Terashima

**Experience and lessons learned from the implementation of the Coastal Zone and Small Island Management Act (2007) of Indonesia**

Dr. Hashim Djalal, Ministry of Maritime Affairs and Fisheries, Indonesia

**China's Sea Area Utilization Law and the Ocean White Paper of the People's Republic of China; Legal Framework, Practices and Achievements**

Dr. Huming Yu, China Institute of Maritime Affairs, PR China

**Adoption of the ICM Concept for Management of Coastal Areas in Singapore**

Dr. Nigel Goh, National Parks Board, Singapore

**Implementation of the Ocean Korea 21, Korea Coastal Zone Management Act and Basic Law on Marine and Fishery Development**

Dr. Sung Gwi Kim, Korean Maritime Institute, RO Korea

### **National Policy of Vietnam on Coastal and Ocean Development**

Dr. Nguyen Chu Hoi, Vietnam Administration for Seas and Islands,  
Ministry of Natural Resources and Environment, Vietnam

### **Malaysia: National Ocean Policy Development**

Mr. Nizam Basiron, Maritime Institute of Malaysia, Malaysia

**1200-1230**

**Open Forum**

**1230-1400**

**Lunch Break**

## **SESSION 2: ENABLING ENVIRONMENT FOR ICM IMPLEMENTATION**

**1400-1530**

### **What is ICM?**

Dr. Chua Thia-Eng, PEMSEA

### **A Review of National and Local Initiatives in Promoting, Implementing and Scaling up ICM Practices in the Philippines in Implementation of EO 533**

Mr. Carlo Custodio, Coastal Marine Management Office, Parks and Wildlife Bureau  
Department of Environment and Natural Resources, Philippines

### **Nested Approach in ICM Implementation**

Dr. Yves Henocque, French Research Institute for the Exploitation of the Sea

### **Integrated Implementation of Relevant International Conventions Using ICM Planning and Management Framework**

Prof. Raphael P.M. Lotilla, PEMSEA

### **Involvement of the Judiciary in the Rehabilitation of Manila Bay**

Atty. Antonio A. Oposa, Philippines

## **Information Management for ICM Policy Planning and Decision-Making**

Prof. Raphael P.M. Lotilla, Ms. Maria Teresita Lacerna\*, Ms. Bresilda Gervacio,  
Ms. Daisy Padayao  
PEMSEA

## **Primary Education in coasts and oceans in Japan**

Mr. Manabu Tamura, National Institute for Educational Policy Research, Ministry of  
Education, Japan

**1530-1600**

### **Open Forum**

**1600-1630**

### **Coffee Break**

## **SESSION 3: LEGISLATORS' DIALOGUE**

**1630-1800**

### **Facilitator: Hon. Pia Cayetano, Member, Philippine Senate**

Discussants:

Cambodia: HE Mrs. Mean Soman

Japan: Goshi Hosono  
Yasutoshi Nishimura

Philippines: Sen. Miguel Zubiri  
Rep. Belma Cabilao  
Rep. Albert S. Garcia

RO Korea: Dr. Je Jong-Geel

Vietnam: Vice Minister Van Duc

**1800-1830**

### **Open Forum**

**THEME 1 Coastal and Ocean Governance****WORKSHOP 2****Contributions of Marine Economic Sectors to Regional and National GDP in an Uncertain Climate**

---

**CONVENING AGENCY:**

Partnerships in Environmental  
Management for the Seas of East Asia

Schedule: **23 November, 1400-1830**  
**Summit Hall C**

Chair: **Dr. Cielito Habito**  
*Professor and Director, Ateneo Center for Economic Research and  
Development, Ateneo De Manila University, Philippines*

The economic contribution of marine activities is considered to be increasingly important part of the economy and international trade within and across East Asian countries. For example, China's marine economy has achieved rapid development in recent years, with the output of major marine industries surging from RMB 6 million in 1978 to RMB 1.7 trillion in 2005, and the ratio of its contribution to the country's GDP growth rising 4% (Gov.CN; May 11, 2006). In a similar vane, in March 2008, addressing the fourth International Exhibition on Shipbuilding, Marine Technology and Transportation, Vietnam's Deputy Prime Minister stated that the marine economy must account for more than 50 percent of gross domestic product by 2020.

How will these marine economic sectors continue to contribute to regional and national GDPs at these levels as the impacts of climate change shape the economics of the region in the coming century? With countries forecasting further development of their marine sectors, the challenging question is not only how will countries achieve their objectives, but also how can they ensure that such development will serve as an enabling vehicle for addressing mitigation and adaptation policies and strategies for global warming.

# P R O G R A M M E

**1400-1405**

## **Introduction of the Workshop Chair**

Dr. Cielito Habito

**1405-1420**

## **The Challenges and Benefits of Measuring the Contribution of the Marine Economy in an uncertain climate**

Dr. Charles Colgan, University of Southern Maine, USA

### **SESSION 1: CONTRIBUTION OF THE MARINE SECTORS IN EAST AND SOUTHEAST ASIAN ECONOMIES**

**1420-1540**

Malaysia: Dr. Nazery Khalid, Center for Marine Economics and Industry

Philippines: Dr. Romulo A. Virola, Secretary General, National Statistical Coordination Board

Vietnam: Mr. Nguyen Khac Duc, Vietnam Administration of Seas and Islands

RO Korea: Dr. Chul-Oh Shin, Korea Maritime Institute

Japan: Dr. Hiroyuki Nakahara, Research Institute for Ocean Economics, Yokohama National University, Japan

Thailand: Dr. Cherdchinda Chotiyaputta, Department of Marine and Coastal Resources, Ministry of Natural Resources and Environment (MONRE), Thailand

PR China: Prof. Liu Ronqzi, China Institute of Marine Affairs, State Oceanic Administration

Indonesia: Dr. Agus Heri Purnomo, Center of Marine and Fisheries Social Economic Research, Ministry of Maritime Affairs and Fisheries (MOMAF), Indonesia

**1540-1600**

## **Facilitated discussion**

- What Have the Studies Got in Common?

- What are the Challenges to Defining and Measuring Marine Sector Contribution?

### **SESSION 2: TOWARDS A COMMON FRAMEWORK FOR MEASURING THE MARINE ECONOMY**

**1630-1645**

## **The APEC Framework for Measuring the Marine Economy**

Prof. Alistair McIlgorm, PEMSEA

**1645-1710**

### **Facilitated discussion**

- How does each national study compare to the APEC profile?
- How can the marine economy profiles be more complete?
- What steps are needed to standardize marine economic profiling across the region?
- What are the potential measures for collaboration to mainstream the marine economic profiling and valuation?

## **SESSION 3: HOW CAN MARINE ECONOMIC VALUATION CONTRIBUTE TO NATIONAL POLICY?**

**1710-1755**

### **How has Measuring the Marine Economy Helped Canada?**

Mr. Sam Baird, Fisheries and Oceans, Canada

### **The Marine Economy and Environmental Values**

Ms. Maria Corazon Ebarvia, PEMSEA

### **How can Valuing the Marine Economy Contribute to Policy and Managing National Wealth in Uncertain Times?**

Prof. Alistair McIlgorm, PEMSEA

**1755-1820**

### **Facilitated Discussion**

- How will marine economic valuation contribute to the sustainable development of the marine sectors, climate change mitigation and adaptation, and the protection of marine environment and resources?
- Is there a national and regional need for future project development to improve framework and methodologies? Who are the potential development partners that can provide support for this project?
- Introduction and review of project proposal for future study/project development to improve framework and methodology

**1820-1830**

### **Workshop Conclusion/Summary**

- Current and potential contributions of the marine economic sector to national GDPs
- Approaches, methodologies and experiences in defining the marine sectors in the various economies across the region
- Developing a common framework and approach to marine economic valuation
- Contribution of marine economic valuation to national policy and actions for the sustainable development of the marine sectors, protection of the marine environment and resources , and climate-proofing of marine sector projects

**Dr. Cielito Habito**

## **THEME 1** Coastal and Ocean Governance

### **WORKSHOP 3**

#### **The Continental Shelf: Post-May 2009 Perspectives**

---

#### **CONVENING AGENCY:**



Partnerships in Environmental  
Management for the Seas of East Asia

Schedule: **23 November 2009; 1400-1830**  
**Summit Hall D**

Chair: **Mr. Galo Carrera**  
*Commission on the Limits of the Continental Shelf*

Co-Chair: **Ms. Valentina Germani**  
*United Nations Office of Legal Affairs/Division for Ocean Affairs and the Laws  
of the Sea (DOALOS)*  
**Prof. Raphael P.M. Lotilla**  
*Executive Director, PEMSEA Resource Facility, PEMSEA*

The session aims to serve as a venue for academic discussions and sharing of information/perspectives on country submissions on an extended continental shelf as of May 2009 and potential cooperative arrangements and opportunities in shared marine areas.

P R O G R A M M E

**1400-1410**

**Introduction to the Workshop and Session 1**

Mr. Galo Carrera

**SESSION 1: SUBMISSIONS ON THE LIMITATIONS OF THE CONTINENTAL SHELF LIMITS AND PROSPECTS FOR COOPERATIVE ARRANGEMENTS IN THE SHARED AREAS**

**1410-1600**

**INTRODUCTION TO SESSION 1**

Ms. Valentina Germani

PRESENTORS:

**Implementation of Annex 1 on the Rules of Procedures**

Mr. Galo Carrera, Commissioner, Commission on the Limits of the Continental Shelf

**Indonesia**

Dr. Hashim Djalal, Ministry of Maritime Affairs and Fisheries, Indonesia

**Japan**

TBC

**Malaysia**

Prof. H.M. Ibrahim, Maritime Institute of Malaysia

**Philippines**

Atty. Jay L. Batongbacal, Philippine Center for Marine Affairs

**Vietnam**

Mr. Nguyen Hong-Thao, University of Hanoi Law Faculty, Vietnam

**1600-1630**

**Coffee Break**

**SESSION 2: OPEN FORUM: MOVING FORWARD**

**1630-1640**

**INTRODUCTION TO SESSION 2**

Prof. Raphael P.M. Lotilla

**1640-1800**

**Discussants:**

**Implementation of Annex 1 on the Rules of Procedures**

**Mr. Galo Carrera**

**Philippines** : Prof. Merlin Magallona, University of the Philippines

**Singapore** : Prof. Robert Beckman, National University of Singapore

**Indonesia** : Dr. Hasjim Djalal

**Malaysia** : TBC

**Thailand** : TBC

**Japan** : TBC

**1800-1830**

**Wrap Up**

## **THEME 1 Coastal and Ocean Governance**

### **WORKSHOP 4**

#### **Addressing Transboundary Issues Through Regional/Subregional Seas Cooperation: Initiatives in East Asia**

---

#### **CO-CONVENING AGENCIES**



Schedule: **23 November, 1400-1830**  
**Summit Hall E**

Chair: **Mr. Ivan Zavadsky**  
*Senior Water Resources Management Specialist*  
*Global Environment Facility*

Since 2003, a number of subregional transboundary projects on marine and coastal environmental management have been progressing or initiated, each with a goal of developing a subregional Strategic Action Plan (SAP), and led by concerned countries, donor agencies, UN organizations, international NGOs, etc.

In reviewing these projects/programmes, the 2nd EAS Partnership Council Meeting (July 2008) noted the need for collaboration between these projects/programmes for creating synergies and sharing knowledge in order to reduce possible duplication of effort, inefficient use of resources, and limited sharing of knowledge, experience, skills and tools. The need for an effective coordination mechanism for the region among the various projects/programmes and implementing agencies/organizations was also noted by the Council.

Hence, the workshop on Addressing Transboundary issues through regional and subregional seas cooperation at the EAS Congress 2009 will serve as a venue to discuss various transboundary environmental issues and their implementing mechanisms, especially on governance, aiming at identifying good practices and areas of collaboration among the stakeholders involved.

P R O G R A M M E

**1400-1410** Introduction by the Workshop Chair

**1410-1430** Overview on regional transboundary initiatives, projects, and programmes (status and funding opportunities)

Dr. Anna Tengberg, UNDP Regional Centre in Bangkok

**PART 1: CASE STUDIES: REGIONAL GOVERNANCE FOR ADDRESSING TRANSBOUNDARY ISSUES**

**1430-1450** Sulu-Sulawesi: Regional governance and good practices

Dr. Romeo Trono, Conservation International Philippines

**1450-1510** Successful Examples on Addressing Transboundary Marine Environmental Problems in the Yellow Sea

Mr. Yihang Jiang, UNDP/GEF Yellow Sea Project

**1510-1530** Addressing the Transboundary Challenge of Marine Litter in East Asia by two UNEP Regional Seas Programmes

Dr. Elik Adler, Coordinating Body on the Seas of East Asia (COBSEA) and Dr. Alexander Tkalin, Northwest Pacific Action Plan (NOWPAP)

**1530-1550** The Coral Triangle Initiative Summit and World Ocean Conference with Highlights on the Arafura and Timor Seas Ecosystem Actions

Dr. Tonny Wagey, Arafura and Timor Seas Expert Forum

**1550-1610** The UNEP/GEF South China Sea Project: Initiatives for Regional Cooperation

Dr. Vo Si Tuan, Vietnam

**1610-1630** Coffee/Tea Break

**1630-1650** PEMSEA: From a Regional Programme to a Sustainable Mechanism

Prof. Tony La Viña, Philippines

**1650-1710** UNDP/GEF/SDA Project on Biodiversity Management in the Coastal Area of China's South Sea

Prof. Zhou Quilin and Mr. Yang Shangyun, PR China

## PART 2: PANEL DISCUSSION AND OPEN FORUM

**1710-1800**

### Panel Discussion

Facilitator: Mr. Ivan Zavadsky

Panelists:

- Prof. Huasheng Hong, Coastal and Ocean Management Institute (COMI), Xiamen University, China
- Mrs. Masnellyarti Hillman, Ministry of Environment (MOE), Indonesia
- Dr. Jihyun Lee, Convention on Biological Diversity (CBD) Secretariat
- Dr. David McCauley, Asian Development Bank

**1800-1830**

### Recommendation/Wrap up

Mr. Ivan Zavadsky

**THEME 1 Coastal and Ocean Governance****WORKSHOP 5****The Science in Ecosystem-based Management**

---

**CO-CONVENING AGENCIES:**

Coastal and Ocean Management  
Institute, Xiamen University



Plymouth Marine Laboratory

Schedule: **25 November, 1000-1830**  
**Summit Hall E**

The East Asian Seas Region is confronted with similar if not more complex environmental management challenges as other regions around the world. It can therefore share its experiences as well as gain benefits from the scientific and management advances of other regions particularly in engaging wider participation of stakeholders in the scientific process and facilitating coastal and ocean policy and management reforms.

In response to the increasing challenges of climate change in the coastal and marine areas, both national and international efforts are gearing towards adopting holistic and ecosystem-based management approaches, which require the integration of scientific information and knowledge as well as utilizing innovative technologies in providing effective science-based management decisions. This session will highlight how the various ocean and coastal sciences, including scientific education, are utilized to improve ocean and coastal governance efficiency. It will also illustrate how various programs that adopt an ecosystem-based approach, which takes into account ecosystem knowledge and uncertainties, transboundary influences and balancing societal and environmental objectives, have contributed to promoting interdisciplinary research, which is essential for sustainable development of coastal seas.

# P R O G R A M M E

## **PART 1: INTEGRATING SCIENCE INTO POLICY AND MANAGEMENT DECISIONS**

Chair: Dr. Stephen de Mora, Plymouth Marine Laboratory (PML), UK  
Co-Chair: Prof. Xiongzhi Xue, Coastal and Ocean Management Institute (COMI),  
Xiamen University, PR China

**0930-0940**

### **Introduction to the Science in Ecosystem-Based Management**

Dr. Stephen de Mora

**0940-1000**

### **Ecosystem-Based Management and the Requirements for a Knowledge Base of Observations**

Dr. Trevor Platt, Partnership for Observation of the Global Oceans (POGO) Secretariat, Plymouth Marine Laboratory (PML), UK

**1000-1020**

### **The Impact of Tsunami on Marine Ecosystems on the Coast of Thailand: Some Implications for Coastal Zone Management**

Mr. Mike A.Kendall\*, PML, UK, and Tsunami Impacts in Laem Son Project; Aryuthaka, Department of Marine Science, Kasetsart University, Thailand, and Tsunami Impacts in Laem Son Project; C.Jitanoon, Department of Marine Science, Kasetsart University, Thailand, and Tsunami Impacts in Laem Son Project; G.L.J.Paterson, The Natural History Museum, UK, and Tsunami Impacts in Laem Son Project

**1020-1040**

### **Ecosystem-Based Management (EBM) and Integrated Coastal Management (ICM): Divergence and Complementarity**

Mr. Jonathan Vause, Prof. Xiongzhi Xue\* and Xin Zhao, Coastal and Ocean Management Institute, Xiamen University, PR China

**1040-1100**

### **Linking Socioecological Adaptability in the Context of Integrated River Basin, Coastal and Ocean Management: The Case of Siak Riau Basin, Riau Province, Indonesia**

Dr. Luky Adrianto\* and Ario Damar, Center for Coastal and Marine Resource Studies Bogor Agricultural University, Indonesia

**1100-1140**

### **Open Forum**

## **PART 2: INNOVATIVE APPROACHES AND METHODOLOGIES**

Chair: Prof. Huasheng Hong, Professor, Xiamen University, PR China  
Co-Chair: Mr. Mike Kendall, Senior Scientist, Plymouth Marine Laboratory, UK

**1140-1150**

**Overview of the session by the Chair**

**1150-1210**

**The Use of Biomarkers and Indicators for Marine Environmental Management**

Dr. Doris W.T. Au\*, Mr. Rudolf S.S.Wu, Mr. Paul K.S. Shin, Department of Biology and Chemistry, City University of Hong Kong

**1210-1230**

**Baseline Determination in Marine Environmental Carrying Capacity**

Mr. Luoping Zhang\*, Coastal and Ocean Management Institute, Xiamen University, China; Junbi Wang, COMI, Xiamen University, China; Mr. Paolo F. Ricci, Environmental Health Sciences, University of Massachusetts, USA

**1230-1400**

**Lunch**

**1400-1420**

**Leveraging on Science to Manage and Monitor Singapore's Living Coastal Resources**

Ms. Karenne Tun\*, Department of Biological Sciences, National University of Singapore (NUS); Prof. Loke Ming Chou, Department of Biological Sciences, NUS; Ole Larson, DHI Water & Environment (S) Pte Ltd; Nigel Goh, National Parks Board, Singapore; Ms. Linda Goh, National Parks Board, Singapore; Mr. Jeffrey Low, National Parks Board, Singapore; Shufen Yang, National Parks Board, Singapore

**1420-1440**

**Nitrogen Pollution and Eutrophication Problem in the Jiulong River Watershed Xiamen Bay: Management Implications**

Chen Nengwang\* and Prof. Huasheng Hong, State Key Laboratory of Marine Environmental Science, Joint Key Laboratory of Coastal Study, COMI, Environmental Science Research Center, Xiamen University, China.

**1440-1530**

**Open Forum**

**PART 3: KNOWLEDGE TRANSFER AND COMMUNICATION**

Chair: Dr. Gil S. Jacinto, Professor, Marine Science Institute, University of the Philippines

Co-Chair: Dr. Trevor Platt, Executive Director, POGO Secretariat, PML, UK

**1530-1540**

### **Overview of the session by the Chair**

**1540-1600**

### **Making Invisible Information Visible: Impacts of the Manila Bay Area Environmental Atlas**

Mr. Herbert Narisma, Environmental Management Bureau, Department of Environment and Natural Resources, Philippines, Ms. Bresilda Gervacio\*, PEMSEA

**1600-1630**

### **Coffee/Tea Break**

**1630-1650**

### **Promoting Interdisciplinary Research: Integrated Environmental Monitoring Program of Manila Bay**

Ms. Elvira Z. Sombrito\*, Philippine Nuclear Research Institute, and Ms. Erlinda A. Gonzales, Department of Environment and Natural Resources, Philippines

**1650-1710**

### **Towards Ecosystem Based Fisheries Management: The Danajon Bank Story**

Mr. Nygiel Armada\*, Mr. Geronimo Silvestre, Mr. William Jatulan, Ms. Rebecca Pestaño-Smith, Mr. Marlito Guidote, and Ms. Aniceta Gulayan, Fisheries Improved for Sustainable Harvests (FISH) Project, Cebu City, Philippines

**1710-1730**

### **Hydrodynamic Changes of Xiamen Bay (1983-Present) and Management Implications**

Prof. Huasheng Hong\*, State Key Laboratory of Marine Environmental Science, Xiamen University, China; Jia Wang, State Key Laboratory of Marine Environmental Science, Xiamen University, China; Yuwu Jiang, State Key Laboratory of Marine Environmental Science, Xiamen University, China; Lumin Zhou, Ocean and Fisheries Bureau of Xiamen, China; Fuxing Zhang, State Key Laboratory of Marine Environmental Science, Xiamen University, China; Zhenwen Wan, State Key Laboratory of Marine Environmental Science, Xiamen University, China; and Jianyu Hu, State Key Laboratory of Marine Environmental Science, Xiamen University, China

**1730-1830**

### **Open Forum**

## **THEME 1** Coastal and Ocean Governance

### **WORKSHOP 6**

#### **Land and Sea-use Zoning: Challenges and Opportunities**

---

#### **CO-CONVENING AGENCY:**



**PEMSEA Network of Local Governments for  
Sustainable Coastal Development**

**Schedule: 23 November, 1400-1830  
Summit Hall F**

**Chair: Dr. Kem Lowry**  
*Department of Urban and Regional Planning,  
University of Hawaii, Manoa, USA*

The session aims to discuss land and sea-use zoning as a strategy in preventing and managing natural disasters brought about by climate change as well as for promoting sustainable use of coastal and marine areas and resources. The session aims to promote a sharing of ideas and strategies on how existing zoning plans can be strengthened and effectively enforced and implemented at the local level.

This workshop aims to answer the following questions:

- How can local governments zone for climate change?
- Can a land and sea-use zoning scheme be used as a market-based instrument for managing coastal and marine areas and resources?
- How are local governments effectively implementing and enforcing land and sea-use zoning schemes?

P R O G R A M M E

**PART 1: SESSION INTRODUCTION AND REVIEW OF LAND AND SEA-USE ZONING PLANS AND IMPLEMENTATION**

**1345-1400**      **Introduction by the Workshop Chair**

**1400-1415**      **Summary presentation: Progress in the Implementation of Land and Sea-Use Zoning Plans**

- Bataan, Philippines
- Bali, Indonesia
- Danang, Vietnam
- Sihanoukville, Cambodia

**PART 2: DEVELOPMENT, IMPLEMENTATION AND ENFORCEMENT**

**1415-1430**      **Ecological Zoning as a Policy Tool for Sustainable Development**  
Dr. Candido A. Cabrido, Jr., UP School of Urban and Regional Planning  
University of the Philippines, Diliman

**1430-1445**      **Zoning in Moreton Bay Marine Park- Strategies and Lessons**  
Mr. Mark Simmons, Queensland Environmental Protection Agency

**1445-1500**      **Integrating Terrestrial Spatial Plan and Sea –Use Zoning Plan: Indonesia’s Experience**  
Mr. Oleh M. Eko Rudianto, Ministry of Marine Affairs and Fisheries, Indonesia

**1500-1515**

**Urban Spatial Expansion and its Effect on Island Ecosystem: A Case Study of the Island City of Xiamen, Southeast China**

Dr. Lin Tao\*, Zhao Qianjun, Cui Shenghui, Shi Longyu, Gao Lijie, Institute of Urban Environment, Chinese academy, Xiamen, China.

**1515-1530**

**Fisheries Use Zoning: A Fish Project Initiative to Enhance Fisheries Resource Management Interventions**

Mr. Nygiel Armada, Rafael Martinez, and Regina Bacalso, Fisheries Improved for Sustainable Harvests (FISH) Project, Tetra Tech E.M., Cebu City, Philippines

**1530-1545**

**Choosing Boundaries to Marine Protected Areas and Zoning the MPAs For Restricted Use And Management**

Dr. Hugh Kirkman, Marine Science and Ecology

**1545-1600**

**Public-Private Partnership Sector Participation in the Development and Implementation of Coastal Land- and Sea-Use Zoning Plan Bataan (CLSUZP), Bataan**

Engr. Alexander M. Baluyot, Bataan Integrated Coastal Management Program, Philippines

**1600-1630**

**Coffee Break**

**1630-1645**

**Open Forum and Discussions**

**1645-1700**

**Impacts of Sea Reclamation on the Coastal Ecosystem**

Dr. Zhang Zhaohui\*, First Institute of Oceanography, State Oceanic Administration of China (SOA), Su Weixiao, Environment Science and Technology School, Ocean University of China, Wang Zongling, First Institute of Oceanography, SOA

**1700-1715**

**Monetary Evaluation on Depletion of Coastal Ecosystem Services Caused by Sea Reclamation: Concept, Methodology and Case Study**

Ms. Xuan Wang, Dr. Weiqi Chen\*, Prof. Luoping Zhang, Coastal and Ocean Management Institute/Environmental Science

**1715-1730**

**Open Forum and Discussion**

### **PART 3: ZONING CONSIDERATIONS FOR CLIMATE CHANGE**

**1730-1745**

#### **Distributional Range of Mangroves in Catanduanes Island, Philippines: Inputs to Biobelting Programs for Tidal Surgers and Tsunamis**

Dr. Jimmy T. Masagca, De La Salle University- Dasmarias, Pacific Island Institute for Pedagogy and Mr. Manrico T. Masagca, De La Salle University, Manila, Philippines

**1745-1800**

#### **Climate Change Adaptation and Zoning in Hawaii**

Dr. Kem Lowry, University of Hawaii, USA

### **PART 4: MOVING FORWARD: EFFECTIVE IMPLEMENTATION AND ENFORCEMENT OF LAND AND SEA-USE ZONING**

**1800-1830**

**Open forum, workshop recommendations**

**THEME 1 Coastal and Ocean Governance****WORKSHOP 7****Workshop on Mainstreaming Marine and Coastal Issues into National Planning and Budgetary Processes**

---

**CO-CONVENING AGENCY:**

Schedule: **25 November, 1000-1830**  
**Banquet Hall 3**

During the Second Intergovernmental Review of the Global Programme of Action for the Protection of the Marine Environment from Land-based Activities (GPA), held in Beijing in October 2006 the Governments asked the UNEP/GPA Coordination Office to provide assistance to countries in assessing how the conservation of marine and coastal ecosystems contributes to poverty alleviation and the achievement of the Millennium Development Goals (MDGs). The UNEP/GPA Coordination Office was also requested to support countries in mainstreaming the sustainable development of oceans and coasts into international development frameworks and national planning and budgetary processes.

In response to this call, the UNEP/GPA Coordination Office has developed an Analytical Framework, Guidelines and Checklist for the Mainstreaming of Marine and Coastal Issues into National Planning and Budgetary Processes, and organised a series of regional meetings to promote this approach.

During the workshop, speakers from Asia, Africa and Wider Caribbean will explore the links between the management of coastal and marine resources, poverty reduction and economic growth, based on their country experiences, with a particular focus on policy development and implementation processes. Countries that have embarked on the development of a coherent policy framework to address these challenges will share their mainstreaming experiences.

P R O G R A M M E

**0830-1000**

**Session 1 - Theme: Policy and Institutional Development Processes**

**1000-1030**

**Coffee/Tea Break**

**1030-1230**

**Session 2 - Theme: Integrated Coastal Zone Management (ICZM) - A Framework and Tool for Planning and Supporting Sustainable Management of Coastal Resources.**

**1230-1400**

**Lunch**

**1600-1700**

**Session 4 -Synthesis, Conclusions and the Way Forward**

**1600-1630**

**Coffee/Tea Break**

# Poster Presentations

## **POSTERS ON COASTAL AND OCEAN GOVERNANCE**

Schedule: 23 November; 1330-1400

Venue: Posters will be on display at the Delegation Building 4th Floor lobby

### **Features of Institutional Framework for Coastal Management in China, Japan and South Korea**

Dr. Yinji Li, Ocean Policy Research Foundation, Japan

### **Participatory and Partnership Approach for Coastal Environmental Protection and Management: The MAAP Experience**

Dr. Angelica Baylon\* and VAdm Eduardo Santos, Maritime Academy of Asia and the Pacific, Philippines

### **To be Fishermen or Fishers of Men? A Framework for Evaluating Impacts of Livelihood Shifts in Philippine Coastal Communities**

Ms. Jeneen Garcia, GKSS Research Center, Germany

### **Analysis of Ocean Industry and Its Countermeasures on Optimization with the Environmental Resources restrict in Dalian**

Ms. Yueyin Cai, Yantai Institute of Coastal Zone Research for Sustainable Development, China

## **POSTERS ON SCIENCE**

Schedule: 25 November; 0930-1000

Venue: Posters will be on display at the Delegation Building 4th Floor Lobby

### **Study on the effects of the mixtures of polycyclic aromatic hydrocarbons (PAHs) and heavy metals on ethoxyresorufin O-deethylase (EROD) activity In Vitro by Tilapia Oreochromis Mossambicus**

Ms. Wang Haiyan, Third Institute of Oceanography, SOA, Xiamen, China

### **A Survey of Natural Areas in Singapore: Relevant Lessons**

Mr. Wilson Chan\*, Cai Yixiong, Rachel Iim, Lin Yanchen, Robin Ngiam, Yang Shufen, Geoffrey Davison, Nigel Goh, National Parks Board, Singapore

### **Management and Prevention Strategies of Sandy Erosion Coast of Liaoning Province in China**

Prof. Wang Yuguang\* and Zhang Yonghua, National Marine Environmental Monitoring Center, China

### **Fuzzy Valuation of Shoal Wetland in Xiamen**

Dr. Wei-deng Wu\* and Chang-kuan Zhang, Hohai University, China

**Rehabilitation of Typical Marine Ecosystems in China - Some Experience and Thoughts**

Prof. Chen Bin\*, Yu Weiwei, and Liu Zhenghua, Third Institute of Oceanography, SOA, Xiamen, China

**Strategic Research on Exploitation and Protection of Tourist Resource in the Coastal Zone of Zhoushan Islands**

Prof. Shuhua Ren\* and Sheng Wang, Zhejiang Ocean University, China

**Fundamental Study on Shore Contamination by Polystyrene of Marine Debris- Investigations of Hachijo-Jima and Chichi-Jima Island in Japan**

Dr. Hideto Sato\*, Nihon University; Katuhiko Saido, Nihon University; Bernardo A. Lejano, De La Salle University, Philippines; and Chih-Ming Ou, Lan Yang Institute of Technology

**Fundamental Study on Planning and Design of Strategic Pictgrams Inducing Actions for Vitalization of Coastal Cities**

Mr. Kazukiyo Yamamoto\*, Takeo Kondo, Tomoe Oikawa, Shinpei Kato, Nihon University, and Takako Kobayashi, Nihon University Misako Yuasa, Hata Architectural Design Co.,Ltd., Japan

**POSTERS ON ZONING AND RECLAMATION**

Schedule: 25 November; 0930-1000)

Venue: Posters will be on display at the Delegation Building 3rd Floor Lobby

**Reclamation Development and Management Countermeasure Research of Liaoning Province**

Prof. Yonghai Yu\*, Yonghua Zhang, and Yuguang Wang, Liaoning. China

**An Overview of the Coastal Land and Sea-Use Zoning Plan of the Mariveles Municipality, Province of Bataan: The Tool for Responsive and Relevant Coastal Governance**

Dr. Angelica Baylon\* and V Adm Eduardo Santos, Maritime Academy of Asia and the Pacific, Philippines; and Mr. Alexander Baluyot, Ms. Maria Carmelita-Reyes-Hina, Ms. Eleonor Tabing, Ms. Karen Jun Balbuena, Bataan Integrated Coastal Management Program, Project Management Office (BICMP-PMO), Philippines

**Theory and Application of Evaluation on Applicability for Reclamation on GIS**

Prof. Yonghai Yu\*, Yonghua Zhang, and Yuguang Wang, Liaoning. China

## THEME 2

# Natural and Man-made Hazard Prevention and Management

Thematic Keynote Speaker:



Dr. Bhichit Rattakul,  
Executive Director,  
Asian Disaster  
Preparedness Center

**Date:** 24 November

**Time:** 1000-1030

**Venue:** Summit Hall C

Workshops/Seminar Topics:

Workshop 1: **Government/Industry Partnerships for Effective And Consistent, Preparedness and Response to Marine Pollution in East Asia**

**Date:** 24 November

Workshop 2: **Meeting Challenges of Climate Change at the Local Level through ICM**

**Date:** 24 November

Workshop 3: **Impacts of Climate Change at the Coastal and Ocean Areas of the East Asian Seas Region**

**Date:** 25 November

Workshop 4: **Development and Advances on Marine Bio-safety in the Context of the Convention on Biodiversity**

**Date:** 25 November

## **THEME 2** Natural and Man-made Hazard Prevention and Management

### **WORKSHOP 1**

#### **Government/Industry Partnerships for Effective and Consistent, Preparedness and Response to Marine Pollution in East Asia**

---

##### **CO-CONVENING AGENCIES:**



International Maritime  
Organization



International Petroleum Industry  
Environmental Conservation Association



Oil Spill Response Limited

Schedule: **24 November 2009; 10:30-18:30**  
**Summit Hall C**

Chair: **Ms. Patricia Charlebois**  
*Head, Pollution Response Section, Sub Division for Pollution  
Response and TC Coordination, Marine Environment Division-IMO*

Co-Chair: **Mr. Richard Sykes**  
*International Petroleum Industry Environmental Conservation  
Association (IPIECA)*

The International Convention on Oil Pollution Preparedness, Response and Co-operation (OPRC Convention) was adopted by the International Maritime Organization (IMO) in 1990 to meet the ongoing need to prevent and minimise the environmental and economic consequences of major tanker accidents and came into force on 13 May 1995. The Convention promotes in its article 10 the bilateral and multilateral co-operation in preparedness and response and, in article 12 (2), requests the Organization to endeavour to strengthen the capacities of States individually or through regional arrangements to prepare for and combat oil pollution incidents.

In East Asia, as in the rest of the world, some areas are at higher risk of oil spills than others. In addition to well-known existing high risk areas such as Malacca Strait, South China Sea and the strait between Korea and Japan, dense traffic of oil tankers and major oil production from Sakhalin and upper Yellow Sea, including Bohai Sea areas, have now to be taken into account.

It is necessary to review the status of oil spill risks in the entire East Asia area on a sub-regional basis and subsequently the strategies relating to oil spill response with a view to drive future actions for improvement of response capability overall, particularly through regional cooperation.

Over this vast region, which encompasses two UNEP “Regional Seas” areas, several multi- and/or bi-lateral regional agreements have been established with the aim of increasing regional capacity for preparedness and response to oil spills and developing mutual assistance and/or joint response operations should a major oil spill occur in the region. Given their diversity, it seems necessary to review the progress of these arrangements, identify success factors and common challenges in order to come up with practical recommendations for strengthening regional co-operation for response to major oil spills.

There are international, regional, and local stakeholders from both government and industry involved in the area of oil spill preparedness and response. There has been good progress since the introduction of OPRC Convention and by the collective efforts of these stakeholders. “Working Together” has been the underpinning principle to the OPRC Convention, this principle can forge greater progress through better integration among these stakeholders.

Finally, in the wake of major tanker incidents in the past few years, the oil spill compensation regime has been dramatically modified. The Bunkers Convention once in force provides much needed coverage for oil pollution arising from bunker spills as the number of such incidents is on the rise. In East Asian countries, the diversity of situations, from compensation coverage to claims management and environmental impacts, demonstrate the need for a session on the recent developments regarding claims and compensation for oil pollution damage.

P R O G R A M M E

**GLOBAL TO REGIONAL**

**1030-1040**

**Introduction by the Workshop Chair**

Ms. Patricia Charlebois

**1040-1100**

**Implementation of the OPRC Convention and the OPRC-HNS Protocol through Regional Agreements**

Ms. Patricia Charlebois, MED-IMO

**1100-1120**

**Update on IPIECA Oil Spill Working Group Activities and the Global Initiative**

Mr. Richard Sykes, IPIECA

**1120-1140**

**Lessons Learned and Challenges in Implementing a Regional Oil Spill Contingency Plan : NOWPAP-MERRAC Experience**

Dr. Jeong-Hwan Oh, Marine Environmental Emergency Preparedness and Response Regional Activity Centre (MERRAC), Northwest Pacific Action Plan (NOWPAP)

**1140-1200**

**Benefits and Challenges in Government-Industry Partnership in Oil Spill Preparedness and Response: Perspective of the International Response Organization**

Mr. Archie Smith\*, Mr. Declan O'Driscoll and Capt. Daniel Chan, Oil Spill Response

**1200-1220**

**Case Study – the Hebei Spirit Incident (Part 1)**

Dr. Mark Whittington, International Tankers Owners Pollution Federation (ITOPF)

**1220-1230**

**Case Study – The Hebei Spirit Incident (Part 2)  
Post-Oil Spill Response of the Government of RO Korea: Implementation of a Comprehensive Restoration Programme and Lessons Learned**

Mr. Suh Woo-Rack\*, Korean Marine Environment Management Corporation (KOEM)

**1230-1400**

**Lunch Break**

## REGIONAL TO LOCAL

**1400-1405**

### **Introduction**

**1405-1425**

### **Partnerships in Oil Spill Preparedness and Response in the Gulf of Thailand: Achievements and Challenges**

Ms. Diane Factuar, PEMSEA and Mr. Pakorn Prasertwong, Thailand Marine Department, Thailand

**1425-1445**

### **Enhancing Local Capacities in Oil Spill Preparedness and Response: Vietnam Experience**

Mr. Nguyen Huy Trong, The National Southern Oil Spill Response Center (WASOS), Vietnam

**1445-1505**

### **Case Study: Working in the Aftermath of the SOLAR 1 Incident in the Philippines**

National Disaster Coordinating Council (NDCC), Philippines

**1505-1525**

### **Open Discussion**

## SPECIAL ISSUES – COMPENSATION AND LIABILITY

**1525-1530**

### **Introduction**

**1530-1615**

### **Claims Handling and Settlement: SOLAR 1 and HEBEI SPIRIT**

Mr. Willem Oosterveen, International Oil Pollution Compensation (IOPC) Funds

**1615-1645**

### **Coffee/Tea Break**

**1645-1720**

## **Open Discussion**

### **THE WAY FORWARD - PANEL SESSION**

**1720-1800**

## **Regional and Sub-regional agreements in Preparedness and Response: Challenges and Opportunities**

- Mr. Victorino Bala, Area Structure Capabilities, Organizations, People and Events (ASCOPE)
- Ms. Heni Agustina, Association of Southeast Asian Nations - Oil Spill Response Action Plan (ASEAN –OSRAP)
- Dr. Elik Adler, Coordinating Body on the Seas of East Asia (COBSEA)

**1800-1830**

## **Development of recommendations to the Ministerial Forum (Workshop)**

Challenges and Opportunities for regional government-industry co-operation for spill response

Lessons learned from various regional arrangements: A common model for the region?

## **Open discussion session**

## **THEME 2** Natural and Manmade Hazard Prevention and Management

### **WORKSHOP 2**

#### **Meeting Challenges of Climate Change at the Local Level through ICM**

---

#### **CO-CONVENING AGENCY:**



United Nations Development  
Programme, Manila

Schedule: **24 November, 1030-1830**  
**Meeting Rm 12**

Chair: **Dr. Gunnar Kullenberg**  
*Professor Emeritus, University of Copenhagen, Denmark,*  
*Senior Fellow, UNITAR*

Co-Chair: **UNDP Philippines**

Climate change is now widely recognized as a cross-cutting issue, which can severely affect various aspects of sustainable development. Coastal populations are particularly at risk from various impacts of climate change such as sea-level rise, coastal erosion, wave surges, and extreme weather events, and must be prepared to meet the challenges to their homes, livelihood and environment.

Recognizing the interconnectedness of environments and activities in the coastal zone, integrated coastal management (ICM) has been advocated by various organizations including the Intergovernmental Panel on Climate Change (IPCC) as an appropriate framework/process to deal with climate change and its potential current and long-term impacts in the coastal zone.

P R O G R A M M E

**1030-1040**

**Introduction by the Workshop Chair**

Dr. Gunnar Kullenberg

**PART 1: IMPACTS OF CLIMATE CHANGE AND VULNERABILITY OF COASTAL AREAS AND MARINE ECOSYSTEMS**

**This session will discuss:**

- Current and potential impacts of climate change at the sub-national/ local levels and the vulnerability of coastal communities and ecosystems
- Costs of climate change and other socioeconomic aspects
- Cost and benefit of adaptation
- The need to enhance adaptive capacity of coastal communities and ecosystems to the impacts of climate change

**1040-1105**

**Climate Change Vulnerability Mapping in Southeast Asia**

Dr. Herminia Francisco and Dr. Arief Anshory Yushuf Economy and Environment Program for Southeast Asia

**1105-1120**

**The Economics of Climate Change in Southeast Asia: A Regional Review**

Asian Development Bank

**1120-1130**

**Open Forum**

**PART 2: CURRENT APPROACHES, STRATEGIES AND TOOLS IN THE CONTEXT OF ICM**

**This session will present examples and good practices in:**

- Enhancing adaptive capacity through ICM;
- Integrating climate change adaptation into local coastal planning and management through ICM
- Strategies, methods and tools that support assessment of vulnerabilities and selection and mainstreaming of adaptation measures

**1130-1145**

**ICM for Climate Change Adaptation and Sustainable Development**

Mr. Stephen Adrian Ross, PEMSEA

**1145-1200**

**Enhancing Multi-Sectoral Coordination and Stakeholder Participation for Sustainable Coastal Development and Climate Change Adaptation in Chonburi, Thailand**

Dr. Praparsiri Kanchanopas-Barnette\*, Burapha University, Thailand, Mr. Chatchai Thimkrajang, Sriracha Municipality, Chonburi, Thailand, and Dr. Kashane Chalermwat, Burapha University, Thailand

**1200-1215**

**Integrated Beach Conservation for Sustainable Tourism Development and Disaster Mitigation Impact in Denpasar Municipality, Bali, Indonesia**

Mr. Ketut Sudiarta, Fisheries and Marine Science Department, Warmadewa University, Indonesia

**1215-1230**

**Addressing Climate Change Concerns in Bataan Province and Manila Bay through Private-Public Partnerships: The Bataan Coastal Care Foundation (BCCFI) Experience**

Dr. Angelica Baylon, Maritime Academy of Asia and the Pacific, Mariveles, Bataan, Philippines

**1230-1400**

**Lunch**

**1400-1415**

**Effectiveness of Integrated Coastal Management Towards Climate Change Adaptation in Danang, Vietnam**

Mr. Nguyen Dieu, Department of Natural Resources and Environment, Danang, Vietnam

**1415-1430**

**Climate Change Adaptation in Batangas, Philippines through ICM**

Ms. Loreta Sollestre, Batangas Provincial Environment and Natural Resources Office, Batangas, Philippines

**1430-1445**

**Climate Change Impacts and Adaptation Measures in the Cambodian Coastal Zone**

**1445-1500**

**Developing the Capacity of Coastal Areas to Adapt to Climate Change through Ecosystem-based Approach**

Prof Quan Wen\* and Zhendong Zhang, National Marine Environmental Monitoring Center, China , Jing Li, Third Institute of Oceanography, SOA, China and Lin Mu, National Marine Data and Information Service, China

**1500-1515**

**Climate Change Adaptation in Coastal Areas Based on Local Issues and Community Participation - Case Study at Demak District, Indonesia**

Dr. Subandono Diposaptono\* and Mr. Firdaus Agung, Ministry of Marine Affairs and Fisheries, Indonesia

**1515-1530**

**Climate Change in Coastal Areas: A Community-based Adaptation Approach**

Dr. Laura David\*, Dr. Porfirio Alino, Mr. Michael Atrigenio, Dr. Cesar Villanoy, Dr. Fernando Siringan, Dr. Miguel Fortes, Atty. James Kho, Dr. Ma. Antonia, Tanchuling, Dr. Annabelle Cruz-Trinidad, Dr. Maria Faith Varona, Dr. Alleta Yniguez, Ms. Emerlinda Celeste, Ms. Kristina Cordero-Bailey, Ms. Olivia Cabrera, Ms. Yvaine Sta. Maria, Mr. Aldwin Almo, Ms. Maritess Magno-Canto, Cleto Nanola, Marine Science Institute, University of the Philippines

**1530-1545**

**Local Climate Change Adaptation Measures in Hawaii**

Dr. Kem Lowry, Department of Urban and Regional Planning, University of Hawaii

**1545-1600**

**Governing resilience building in Thailand's tourism-dependent coastal communities: The role of stakeholder agency**

Mr. Rasmus Klocker Larsen\*, Stockholm Environment Institute, Sweden; Dr. Emma Calgato, Stockholm Environment Institute, Thailand and Department of Environment and Geography, Macquarie University, Australia; and Dr. Frank Thomalla, Stockholm Environment Institute, Thailand and Department of Environment and Geography, Macquarie University, Australia

**1600-1630**

**Coffee/Tea Break**

**PART 3: EMERGING APPROACHES AND NEEDS FOR CLIMATE CHANGE ADAPTATION FOR COASTAL AND MARINE AREAS**

**Session 3 will focus on:**

Approaches and needs for further strengthening assessment and planning for climate change adaptation

\* - Presenter

**1630-1645**

**Nuclear and Isotopic Techniques in Natural Hazards Associated with Climate Change**

Mr. Jae Sol Lee, Regional Cooperative Agreement Regional Office, RO Korea, and Ms. Elvira Sombrito, Philippine Nuclear Research Institute

**1645-1700**

**Climate Trends and Climate Change Projections in the Philippines**

Dr. Flaviana Hilario\*, Ms. Rosalina de Guzman, Ms. Thelma Cinco, Ms. Emma Ares, Dr. Prisco Nilo and Dr. Nathaniel Servando Philippine Atmospheric, Geophysical and Astronomical Services, Philippines

**1700-1715**

**Development of climate change projections in Southeast Asia and applications for adaptation planning**

Dr. John McGregor \*, Dr. Kim Nguyen, Dr. Jack Katzfey, and Dr. Marcus Thatcher The Commonwealth Scientific and Industrial Research Organization (CSIRO), Aspendale, Australia

**1715-1730**

**Open Forum**

**PART 4: INTERACTIVE SESSION AND WRAP UP**

Discussion of:

- The benefits of addressing climate change within the context of integrated coastal management
- Recommendations on further enhancing the effectiveness of ICM in supporting climate change adaptation at the local level
- Policy brief on promoting ICM as an approach for climate change adaptation

Facilitator: Workshop Chair

## **THEME 2** Natural and Manmade Hazard Prevention and Management

### **WORKSHOP 3**

#### **Impacts of Climate Change at the Coastal and Ocean Areas of the East Asian Seas Region**

##### **CO-CONVENING AGENCIES:**



Schedule: **25 November; 1000-1830**  
**Meeting Rm 12**

Chair: **Dr. Björn Kjerfve**  
*President, World Maritime University, Sweden*

Co-Chair: **Prof. Chul-Hwan Koh**  
*Seoul National University, RO Korea*

This workshop is aimed at articulating climate change adaptation and resilience strategies within the context of sustainable development in coastal and marine environment. In particular, the workshop objectives are:

- To understand the types, level and severity of the adverse social and economic impacts of climate change; and
- To outline actions, initiatives or response measures within and outside EAS region related to climate change adaptation and resilience strategies

## P R O G R A M M E

**1030-1035****Introduction**

Dr. Björn Kjerfve, WMU and Director Chul-Hwan Kim, Ministry of Land, Transportation and Maritime Affairs, RO Korea

**PART 1: IMPACTS OF CLIMATE CHANGE IN THE EAST ASIAN SEAS****1035-1050****Global Change and Human Activities in the Coastal Zone: Implications for Sustainable Development in Monsoon Asia**

Prof. Chen-Tung Arthur Chen, National Sun Yat-sen University, Chinese-Taipei

**1050-1105****Emerging Issues of East Asian Fisheries Production in Conjunction with Changes in Climate and Social Systems in the 21st Century**

Prof. Suam Kim, Pukyong National University, RO Korea and Dr. Loh-Lee Low, Alaska Fisheries Science Center, National Marine Fisheries Service, USA

**1105-1120****Shipping and Climate Change in East Asia: The impacts of the opening of the Northeast Passage**

Dr. Hiromitsu Kitagawa, Ocean Policy Research Foundation (OPRF), Japan

**1120-1135****The Arctic Meltdown and its Implications on Shipping**

LTC Joshua Ho and Ms. Juliana Ng, S. Rajaratnam School of International Studies, Nanyang Technological University, Singapore

**1135-1230****Panel Discussion and Open Forum**

Panelist: Dr. Giselle Samonte-Tan, Conservation International (CI)

Panelist: Dr. Jin-Hwan Hwang, Dongguk University, RO Korea

**1230-1400****Lunch**

## **PART 2: CHALLENGES, INTEGRATED RESPONSES, ADAPTATION AND RESILIENCE STRATEGIES**

### **A. Vulnerability Assessment and Planning for Climate Change**

**1400-1415**

#### **Vulnerability Assessment of Coastal Areas in South East Asia**

Dr. Beverly Goh, NSSE Singapore

**1415-1430**

#### **National Climate Change Adaptations: Initiative for Climate Change Adaptation at the Coastal and Ocean Areas in RO Korea**

Dr. Suk-Hui Lee, Korea Marine Environment Management Corporation (KOEM), Prof. Jin Hwan Hwang, Dongguk University, Mr. Sung Woo Park, B&T Solutions, Ki-In Choi, KICET

**1430-1445**

#### **Mainstreaming Resilience Building and Climate Change Adaptation to the National Policy and Planning in the Philippines**

Dr. Rosa Perez, Philippines

**1445-1500**

#### **Climate Change Adaptation in the Philippines**

Dr. Laura David\*, Porfirio Alino, Michael Atrigenio, Cesar Villanoy, Fernando Siringan, Wilfredo Licuanan, James Kho, Eileen Penaflor, Roselle Borja, Kathleen Silvano, Kristina Cordero-Bailey, Victor Ticzon, Ma. Bernadette De Venecia, Rommel Maneja, Samuel Mamauag, Olive Cabrera, Maritess Magno-Canto, Erlinda Salamante, Irene Alabia, Evangeline Magdaong, Yvaine Sta. Maria, Maricar Samson, Vera Christine Horigue

### **B. Resilience Strategies at the Local Level**

**1500-1515**

#### **Local Climate Change Adaptations: Linking Poverty Reduction, Disaster Risk Reduction and Climate Change Adaptation in Coastal Areas: The Case of Albay, Philippines**

Ms. Noraleen Uy, Graduate School of Global Environmental Studies, Kyoto University, Japan

**1515-1530**

#### **The Articulation of Co-governance: Stakeholder Agency in Coastal Development in Vietnam**

Dr. Neil Powell, Ms. Maria Osbeck and Sinh Bach Tam, Stockholm Environment Institute, Sweden and NISTPASS, Ministry of Science and Technology, Hanoi, Vietnam

\* - *Presenter*

**1530-1545**

**Coastal Change and Stakeholders' Realities: A Case Study From Nakhon Si Thammarat Thailand**

Ms. Maria Osbeck, Mr. Neil Powell and Somsak Boromthanasat, Stockholm Environment Institute, Sweden and CORIN Asia, Thailand

**C. Regional Institutions and Their Platforms to Address Climate Change**

**1545-1600**

**Marine Science and Sustainable Development: The MOMSEI (Monsoon Onset Monitoring and its Social and Ecosystem Impact) Project**

Dr. Weidong Yu, IOC-WESTPAC

**1600-1630**

**Coffee Break**

**1630-1645**

**Climate Change Communications: Targeting Media to Debunk the Policy Arguments around Sustainable Coastal Management and Climate Change**

Ms. Minna Epps and Mr. Michael S. Dougherty, IUCN Asia Regional Office

**1645-1700**

**Global Change and Coastal Zone Management Issues for the Asia-Pacific Region: APN's Response in Addressing these Threats**

Mr. Samuel Peñafiel, Asia Pacific Network for Global Change Research (APN)

**1715-1815**

**Panel discussion and Open Forum**

Panelists: Prof. Olof Linden, World Maritime University

Dr. Nireka Weeratunge, WorldFish Center

**1815-1830**

**PART 3: CHAIR/CO-CHAIR WRAP UP**

## **THEME 2** Natural and Manmade Hazard Prevention and Management

### **WORKSHOP 4**

#### **Development and Advances on Marine Bio-safety in the Context of the Convention on Biodiversity**

---

**CO-CONVENING AGENCY:**



International Maritime  
Organization

Schedule: **25 November; 1000-1830**  
**Meeting Rm 14**

Chair: **Dr. Jose Matheickal**  
*International Maritime Organization (IMO)*

The bulk of world trade in tonnage terms is transported by ships. From an environmental standpoint, shipping like all other modes of transport, has its share of negative environmental impacts such as spillage of oil and hazardous chemicals, emission of greenhouse gases and transfer of invasive species through ballast water and biofouling. International efforts to address the environmental impacts of marine pollution resulted in the ratification, adoption and implementation of environmental instruments as well as the adoptions of codes, resolutions and recommendations, including standards. In recent years, the threat of climate change and the translocation and spread of invasive or pathogenic biological species are the focus of international efforts due to potential transboundary and long-term impacts on a planetary scale. For this particular workshop, topics covered will mainly deal with marine biosafety.

Translocation of marine biological species by ships can occur through ballast water exchange and fouling of ship hauls as well as trading of exotic species (marine and estuarine). On ballast water exchange for example, it is estimated that about 10 billion tons of ballast water would contain over 7,000 marine species, mostly microscopic planktons and organisms. The Great Lakes, Caspian Sea, Black Sea and the Pantanal have been affected by invasive species causing havoc to native aquatic species and its environs as well as economic losses to the local fishing industry and coastal tourism. International instruments on ballast water management and antifouling systems have been ratified by several IMO-member States but there is a need to build capacity, enact compatible legislation and apply technology in order to implement the provisions of such instruments at national levels.

East Asia is one of the main sources of translocated species like the mitten crab, *Corbula* (Asian clam) and *Codium* (seaweed) and is also a centre of biological diversity (terrestrial and marine). At present, marine biosafety is an emerging concern in the region, particularly with respect to ballast water management for international shipping. For this international conference session of the EAS Congress 2009, the focus will be on global actions being carried out by international bodies to address the challenges associated with the translocation of biological species with the aim to create awareness and to enhance national efforts on marine biosafety.

P R O G R A M M E

**1030-1045**

**Introduction of the Chair**

**1045-1115**

**Overview on Marine Biosafety and Related International Instruments**

Dr. Adnan Awad, International Ocean Institute- South Africa

**1115-1145**

**The International Convention for the Control and Management of Ship's Ballast Water and Sediments**

Dr. Jose Matheickal, IMO

**1145-1215**

**The GEF/UNDP/IMO GloBallast Partnership Programme**

Mr. Frederik Haag, IMO

**1215-1230**

**Open Forum and Discussion**

**1230-1400**

**Lunch**

**1400-1430**

**Marine Biofouling and Its Impact on Marine Biodiversity with Special Reference to China**

Ms. Xiaoman Xu, MSA-China

**1430-1500**

**Prospects for Research and Technology Development in Marine Biofouling Prevention**

Dr. Serena Lay-Ming Teo, Tropical Marine Science Institute, National University of Singapore

**1500-1530**

**Marine Biosafety Risk Assessment and Risk Management with Special Reference to East Asia**

Dr. Keith Hayes, The Commonwealth Scientific and Industrial Research Organization (CSIRO), Australia

**1530-1600**

**Marine Biosafety in Domestic Shipping in Coastal and Insular East Asia.**

Ms. Cheryl Rita Kaur, Maritime Institute, Malaysia

**1600-1630**

**Coffee/Tea Break**

**1630-1830**

**Discussion, Recommendation to Ministerial Forum and Closing**

## THEME 3

# Habitat Protection, Restoration and Management

Thematic Keynote Speaker:



Dr. Edgardo D. Gomez,  
Professor Emeritus, University of  
the Philippines - Marine  
Science Institute (UP-MSI)

**Date:** 24 November

**Time:** 1000-1030

**Venue:** Summit Hall D

Workshops/Seminar Topics:

**Workshop 1: Networking of Marine Protected Areas: Benefits Good Practices, Standards and Next Steps**

**Date: 24-25 November**

**Workshop 2: Indigenous Approaches to Habitat Protection and Restoration: Experiences in Sato-Umi and Other Community Initiatives**

**Date: 24 November**

**Workshop 3: Innovation in Biodiversity and Habitat Conservation: Lessons Learned**

**Date: 24 November**

## **THEME 3** Habitat Protection, Restoration and Management

### **WORKSHOP 1**

#### **Networking of Marine Protected Areas: Benefits, Good Practices, Standards and Next Steps**

---

#### **CO-CONVENING AGENCIES:**



ASEAN Centre for Biodiversity



Biosphere Connections/Ramsar  
Convention on Wetlands



Department of Environment  
and Natural Resources

Schedule: **Part 1: November 24 and Part 2: 25 November; 1030-1830  
Meeting Rm 9**

Chair: **Mr. Rodrigo U. Fuentes**  
*Executive Director, ASEAN Center for Biodiversity*

Co-Chair: **Dr. Theresa Mundita S. Lim**  
*Director, Parks and Wildlife Bureau (PAWB), Department of  
Environment and Natural Resources (DENR), Philippines*

The Network of Marine Protected Areas Workshop at the East Asian Seas Congress 2009 aims to:

1. highlight the benefits of managing MPAs as a network;
2. showcase good practices and lessons learned in networking of MPAs; and
3. develop recommendations for partnership/collaborative efforts in managing MPA networks

We hope that this will be an opportunity to build cooperation and harmonize across various initiatives, strategies, action plans and working partnerships in MPA networking that have been developed or are being developed in the region. For example, there are concurrently the ASEAN Marine Protected Area and Heritage Park initiatives, the International Coral Reef Initiative, the Coral Triangle Initiative, and the South China Sea Fisheries Refugia initiative among others.

P R O G R A M M E

24 November

**1030-1050**

**Introduction and Review of Recommendations from the Past EAS Congress**

Mr. Rodrigo U. Fuentes

Dr. Theresa Mundita S. Lim

**PART 1: BENEFITS OF MANAGING MPAs AS A NETWORK**

**1050-1150**

**Bio-physical Benefits of Managing MPAs as a Network**

Dr. Nicolas Pilcher, Marine Research Foundation, Malaysia

**MPA Networking in the Philippines Finding Synergy Despite Adversity**

Dr. Porfirio M. Alino, Environmental Governance Project 2, Philippines

**A Financial Management Framework for MPA Networks**

Mr. John D. Claussen and Mr. Stuart J. Green, Conservation and Community Investment Forum, Indonesia

**1150-1230**

**Open Forum**

**1230-1400**

**Lunch**

**PART 2. GOOD PRACTICES IN DEVELOPING NETWORKS OF MPAs**

**1400-1530**

**A Review of Good Practices in Developing Networks of MPAs in the ASEAN**

Dr. Nguyen Chu Hoi, ASEAN Working Group on Coastal and Marine Environment

**Partnerships for Sustainable Coastal and Marine Conservation Efforts in Batangas**

Mr. Luis Awitan and Ms. Loreta Sollestre, Batangas Provincial Government Environment and Natural Resources Office, Philippines

**The Management of MPA networks in Indonesia**

Ms. Ahsanal Kasasiah, Ministry of Marine Affairs and Fisheries, Indonesia

\* - *Presenter*

### **A MPA network approach in China: Status and Challenges**

Dr. Wang Bin, State Oceanic Administration, PR China

**1530-1600**

**Open Forum**

**1600-1630**

**Tea/Coffee Break**

**1630-1730**

### **Management of National and Transboundary Marine Protected Areas in Malaysia**

Ms. Cheryl Kaur, Maritime Institute of Malaysia, Malaysia

### **Cooperation between Marine Protected Area and Integrated Coastal Zone Management In Quang Nam Province, Vietnam**

Dr. Chu Manh Trinh, Cham Islands Protected Area Authority, Vietnam

### **Participatory Approach for Sustainable Natural Resource Management and Coastal Conservation**

Ms. Atjima Meepring, Thailand Environment Institute, Thailand

**25 November**

## **PART 3. COMMON GOALS, TARGETS AND STANDARDS FOR PARTNERSHIP AND COLLABORATION**

**1030-1045**

### **Recap of Part 1 and 2**

Mr. Rodrigo U. Fuentes  
Dr. Theresa Mundita S. Lim

**1045-1200**

### **The Benefits of a Network of Wetlands of International Importance (Ramsar Sites) under the Convention on Wetlands**

Dr. Llewellyn Young, Ramsar Convention Secretariat, Switzerland

### **Initiatives on Gap Analysis for MPAs in the ASEAN Region**

Dr. Filiberto Pollisco Jr., ASEAN Center for Biodiversity, Philippines

### **Review and Potential MPA Management Effectiveness Standards for the Regional/National/Site level**

Dr. Naoko Morimoto, Dr. Mark Tupper and Dr. Kohei Hibino, Japan Wildlife Research Center, Japan and WorldFish Center, Philippines

**1200-1230**

### **Panel Discussion**

Dr. Nguyen Chu Hoi, ASEAN Working Group on Coastal and Marine Environment;  
Dr. Somboon Siriraksophon, Southeast Asian Fisheries Development Center  
(SEAFDEC); Dr. Gabriel Antonius Wagey, Ministry of Marine Affairs and Fisheries,  
Indonesia, Dr. Alan T. White, The Nature Conservancy, USA

Is there a need to harmonize the various MPA networks being developed in the  
Region?

What goals and targets might we want to work together on?

What common standards might we adopt for our targets?

**1230-1400**

### **Lunch**

## **PART 4: CONSENSUS ON A JOINT STRATEGY FOR MPA NETWORKS IN EAST ASIA**

**1400-1445**

### **Small Group Workshop**

How do we propose to achieve our goals?

**1445-1530**

### **Presentation of Small Group Outputs**

Small group representatives

**1530-1600**

### **Facilitated Discussion**

Building consensus on a joint strategy for MPA networks in East Asia

Targets, approaches, timeframes, key players, roles

How do we gain consensus from others back home?

When do we come back together to assess progress?

**1600-1630**

### **Tea/Coffee Break (working break)**

**1630-1730**

### **Facilitated Discussion (continued)**

**1730-1800**

### **Break for Secretariat to finalize main points**

**1800-1830**

### **Conclusion**

#### **Presentation and confirmation of consensus for submission to Theme Coordinator and Ministerial Forum**

Mr. Rodrigo U. Fuentes

Dr. Theresa Mundita S. Lim

## **THEME 3** Habitat Protection, Restoration and Management

### **WORKSHOP 2**

#### **Indigenous Approaches to Habitat Protection and Restoration: Experiences in Sato-umi and other Community Initiatives**

---

#### **CO-CONVENING AGENCY:**



International EMECS Center of Japan

Schedule: **24 November; 1030-1830**  
**Summit Hall D**

Chair: **Professor Osamu Matsuda**  
*Prof. Emeritus, Hiroshima University*

Co-Chairs: **Professor Tetsuo Yanagi**  
*Professor, Institute of Applied Mechanics, Kyushu University*  
**Director Anne McDonald**  
*United Nations University, Institute of Advanced Studies, Japan*

#### **Background**

Communities living along the rivers, coasts and small islands have acquired invaluable indigenous knowledge on how to live in harmony with nature. They have first-hand knowledge of the natural resources in terms of abundance, distribution, the economic benefits derived and the conditions at which these natural resources are produced and interactions within the ecosystems. With long traditional knowledge, these communities are able to sustain the continuous supply of natural resources without compromising the habitats and ecosystems. Unfortunately, rapid economic development and indiscriminate and unregulated exploitation of primary produce and unsustainable consumption over the last several decades have seriously damaged the functional integrity of ecosystems and specific habitats demonstrated by dwindling fish stocks, pollution, biodiversity loss and degraded social well being of these communities.

Indigenous knowledge and community actions have already contributed significantly in protecting and restoring several coastal, riverine and island environment and the natural resources in several countries. In Japan, community-based habitat restoration activities have been gaining momentum in recent years. Sato-umi is one of the well-known traditional Japanese practices of the coastal communities co-existing with nature at which people's livelihood and their culture are deeply involved, productivity sustained, biodiversity protected and conserved while ecosystems are able to function and material cycling is maintained. These community efforts were undertaken through comprehensive and integrated management from land to coastal area. Together with Satoyama that focuses on mountainous area, Sato-umi is expected to develop into a Japanese model of Integrated Coastal Management. Sato-Umi was incorporated into the Strategy for an Environmental Nation in the 21st Century, the National Biodiversity Strategy and the Basic Plan on Ocean Policy of Japan.

Indigenous knowledge can be leveraged with advanced low-cost technology that can be applied by coastal communities to reduce pollution, protect and restore habitats, adapt and respond to natural disasters, increase fish production, etc. to make substantial contribution to the social well being of the coastal areas.

P R O G R A M M E

**1030-1035**

**Introduction by the Workshop Chair**

Professor Osamu Matsuda

**PART 1: THE SATO-UMI CONCEPT AND ITS APPLICATION IN JAPAN: LESSONS AND APPLICATION**

**1035-1300**

**Concept and Practices of Sato-umi in Japan and Lessons Learned**

Prof. Tetsuo Yanagi, Institute of Applied Mechanics, Kyushu University

**Concept and Practices of Satoyama Sato-umi Sub-Global Assessment in Japan**

Director Anne McDonald, United Nations University, Institute of Advanced Studies

**Case of Fushino River Estuary Initiatives in Japan**

Prof. Masao Ukita\*, Yamaguchi University, Japan, Masahiko Sekine and Hajime Yamano, Yamaguchi Prefecture, Japan

**The Ago Bay Management Initiatives in Japan**

Prof. Miyuki Maegawa\* and Hideto Uranaka, Graduate School, Faculty of Bioresources, Mie University, Japan

**Potential of Urban Wetland as a Target of Habitat Restoration and Management**

Dr. Keita Furukawa, National Institute for Land and Infrastructure Management, Japan

**Community-based Sea Grass Bed Restoration and Management in Seto Inland Sea, Japan: Case of Akou Coast in Japan**

Prof. Osamu Matsuda, Hiroshima University

**Supporting activities for the creation of Sato-umi in Japan**

Mr. Yasuhiro Muroishi, Mr. Takuya Yamada, and Mr. Naoto Ogawa, EMECS, Ministry of the Environment, Japan

**1300-1400**

**Lunch**

\* - *Presenter*

## **PART 2: INDIGENOUS KNOWLEDGE AND COMMUNITY BASED APPROACHES IN PROTECTING, RESTORING AND MANAGING KEY HABITATS**

**1400-1640**

### **Implementing an Ecosystem Approach to Coastal Management through Community-based Organizations: An Example from the Andaman Coast of Thailand**

Somsak Soonthornnawaphat\* and Janaka de Silva, IUCN-Thailand Programme

### **Implementation of Tri Hita Karana, a Local Wisdom of Bali to Maintain Agricultural Resources**

Dr. Ir. Dewa Ngurah Suprpta, Pasca Master University of Udayana, Indonesia

### **Developing a Mechanism of Mobilization of Various Human and Material Resources in Planting, Taking Care and Protecting Urban Green Trees in Danang City**

Mr. Truong Cong Hai, Danang Department of Natural Resource and Environment, Vietnam

### **Community Involvement in Coral Reef Restoration Projects in the Gulf of Thailand**

Dr. Thamasak Yeemin\*, Chaipichit Saenghaisuk, Sitiporn Pengsakun, and Makamas Sutthacheep Marine Biodiversity Research Group, Department of Biology, Faculty of Science, Ramkhamhaeng University, Thailand

### **Evaluation of Artificial Reefs in Peninsular Malaysia**

Illisriyani Ismail\*, Kusairi Mohd Noh, Fatimah Mohamed Arshad, and Aswani Farhana Mohd, Noh Universiti Putra Malaysia

### **Community-Based Management Approach at Work in the Muan Wetland Protection Area: Changing Perception, Changing Practice and Changing Policy**

Ms. Ji Young Jang\* and Young Rae Choi, Eco-Horizon Institute, RO Korea

### **When the Cradle Falls: A Case of Management Failure in a Community Marine Reserve in Southern Philippines**

Dr. Asuncion Bina-de Guzman, Mindanao State University

### **Conceptual framework of organizing communities for effective mangrove management**

Ms. Josephine P. Savaris\*, Ms. Rosalie Joven, Mr. Rodney Golbeque, and Mr. Edison Advincola, Zoological Society of London

### **Indigenous Approaches to Access, Control and Protection of Coastal Resources: A review of some Philippine Experiences**

Prof. Elmer Ferrer, University of the Philippines- College of Social Work and Community Development

**1640-1700**

#### **Coffee/Tea Break**

### **PART 3: INTERACTIVE SESSION/WRAP-UP: INSTITUTIONALIZING COMMUNITY-BASED EFFORTS IN HABITAT PROTECTION, RESTORATION AND MANAGEMENT WITHIN AN ICM FRAMEWORK**

**1700-1830**

#### **Panelists:**

**Prof. Tetsuo Yanagi,  
Director Anne McDonald  
Prof. Elmer Ferrer**

## **THEME 3** Habitat Protection, Restoration and Management

### **WORKSHOP 3**

#### **Innovation in Biodiversity and Habitat Conservation: Lessons Learned**

---

#### **CO-CONVENING AGENCY:**



UNDP/GEF Yellow Sea Large Marine  
Ecosystem (YSLME) Project

Schedule: **24 November, 1030-1830**  
**Meeting Rm 10**

Projects from around the Yellow Sea region have been working, often independently, on innovative ways of mitigating the threats that face the biological diversity in our coastal wetlands.

Last year we contacted partners to talk about the best method of sharing our experiences of new ways of tackling some of the problems, and the EAS Congress presents an excellent opportunity to effect this. Many of our partners have made significant progress in finding novel solutions to protect biological diversity in their region. This workshop will provide a forum for partners to review the problems in their area, explain how they responded to these problems and illustrate their success stories. We feel that this type of forum could provide valuable lessons for the region as a whole.

P R O G R A M M E

**1030-1055**

**Introduction to the workshop, and ecosystem-based approach of the YSLME project**

Dr. Mark Walton, UNDP/GEF Yellow Sea Large Marine Ecosystem (YSLME) Project

**1055-1120**

**Biodiversity Loss on a Tidal Mudflat in Ro Korea and Management to Combat It**

Prof. Gyung Soo Park, Anyang University, RO Korea

**1120-1145**

**Living with Black-Faced Spoonbill, the Symbol of Peace in the Yellow Sea: Developing a Programme of Cepa for Black-faced Spoonbill in Ganghwa Island, South Korea**

Mr. Dong-Uk Han, PGA Wetland Ecology Institute, RO Korea

**1145-1210**

**Protection and Rehabilitation of Seagrass Beds in Shandong Province, China**

Prof. Xuelei Zhang, First Institute of Oceanography (FIO), SOA, China

**1230-1400**

**Lunch**

**1400-1425**

**Biodiversity Conservation Actions to Success: Lessons from the Small Grant Program of the WWF/KORDI Yellow Sea Ecoregion Support Project**

Ms. Young Rae Choi, Korea Ocean Research and Development Institute (KORDI), RO Korea

**1425-1450**

**Early Steps Towards the Conservation of the Avian Biodiversity of the Yellow Sea**

Mr. Nial Moores, Birds, RO Korea

**1450-1515**

**Heavy Metal Pollution in the Yancheng Biosphere Reserve, Jiangsu, China**

Dr. Ping Zuo, Nanjing University

**1515-1530**

**Coffee break**

**1530-1555**

**The YSLME and WWF Partnership for Marine Biodiversity Conservation – Scientific, Policy, and Financial Benefits of an Ecosystem-scale Partnership**

Mr. Sadayosi Tobai, World Wide Fund for Nature (WWF)-Japan

**1555-1620**

**Spotted Seals Protections in Liaodong Bay of Bohai Sea**

Mr. Jiabo Han, Liaoning Ocean and Fisheries Science Research Institute

**1620-1645**

**Yalu Estuary Reserve - Protection of Shorebird Habitat in China**

Ms. Jia Na, Management Bureau of Yalu Estuary Reserve, China

**1645-1710**

**Benthic Habitat Restoration along Seawall Under Co-benefit Strategy with Disaster Prevention - Pilot Work and its Restoration Monitoring in Tokyo Bay**

Dr. Yasushi Hosokawa, Waterfront Vitalization and Environment Research Center (WAVE), Japan

**1710-1800**

**Discussion: Strategies for Improved Management**

(led by Mr. Yihang Jiang)

# Poster Presentations

## **Posters on Habitat Protection, Restoration and Management**

**Schedule: 24 November; 0930-1000**

**Venue: Posters will be on display at the Delegation Building 4rd Floor Lobby**

## **Role of Communication for Sustainable Management of Coastal Ecosystem**

Ms. Salina Khalid, Wetlands International-Thailand Office

## **What is the best institutional arrangement for Marine Protected Areas in the Philippines?**

Mr. Jeffrey Manalo, NCPAG, UP Diliman, Philippines

## **Thorns in Time: Acanthaster Planci Outbreaks as told by Mabini and Tingloy Batangueños**

Ms. Marianne Pan, SeaLifeBase Project, The WorldFish Center, Phil. Office

## THEME 4

# Water Use and Supply Management

Thematic Keynote Speaker:

Workshops/Seminar Topics:



Dr. Torkil Jonch Clausen,  
Senior Adviser, Global Water  
Partnership

**Date:** 24 November

**Time:** 1000-1030

**Venue:** Summit Hall E

Workshop 1: **Alternative Energy- A Solution for Energy Security for Islands and Remote Areas**

**Date: 24 November**

Workshop 2: **Addressing Water Crisis in Rapidly Growing Cities**

**Date: 24 November**

## **THEME 4** Water Use and Supply Management

### **WORKSHOP 1**

#### **Alternative Energy – A Solution for Energy Security for Islands and Remote Areas**

---

**CO-CONVENING AGENCY:**



Korea Ocean Research and Development Institute

**Schedule:** **24 November; 1030-1830**  
**Leaders' Hall**

**Chair:** **Dr. Ki Dai Yum**  
*Principal Research Scientist, Korea Ocean Research  
Development Institute (KORDI)*

**Co-Chairs:** **Mr. Alex S. W. Retraubun**  
*Director General for Marine Coasts and Small Islands,  
Ministry of Marine Affairs and Fisheries,  
Indonesia (MOMAF)*  
**Engr. Raul C. Sabularse**  
*Deputy Director,  
Philippine Council for Industry and Energy Research and  
Development (PCIERD)*

"Energy is essential to economic and social development and improved quality of life. Much of the world's energy, however, is currently produced and consumed in ways that could not be sustained if technology were to remain constant and if overall quantities were to increase substantially." As clearly stated above in Chapter 9 of the Agenda 21, the promotion of technology development and the use of alternative energy is one of the key essential elements for sustainable development.

Islands are surrounded by the oceans which are abundant in sources for alternative energy. At the same time, small islands as well as remote areas are facing difficulties in securing energy which is inevitable for the economic and social development and better quality of life. How to secure energy supply in the islands and rapidly developing coastal areas is one of the issues to be addressed in order to achieve sustainable development.

Is introducing alternative energy in small islands and remote areas feasible? This workshop aims to focus on this aspect through the following approaches: 1. Sharing good practices, policies and innovative technologies on alternative energies; 2. Examining the feasibility of various types of alternative energies; and 3. Providing information on alternative energies such as good financing mechanism and available funding.

P R O G R A M M E

**1030-1040**

**Welcome Remarks and Introduction of the Workshop**

Dr. Jung-Keuk Kang, President, KORDI

**PART 1: OVERVIEW OF TRENDS OF POLICY AND TECHNOLOGY ON ALTERNATIVE ENERGY**

**1040-1100**

**Status of the Technology Development on Alternative Energy in the Seas of East Asia**

Dr. Ki Dai Yum, KORDI

**PART 2: STATUS AND FEASIBILITY OF INTRODUCING OCEAN AND COASTAL ENERGIES**

**1100-1230**

**Variety of Alternative Energies and Viability:**

**- Coastal Wave Energy Utilization Coupled with Coastal Protection**

Dr. Paimpillil S. Joseph\* and M. Baba, Center for Earth Research and Environment Management, India

**- Tidal Current Power Development Project in RO Korea**

Dr. Kwang Soo Lee\*, Ki Dai Yum, Jin Soon Park, and Jung Woo Park, KORDI

**- Philippine Initiative in Harnessing Marine Current Energy Resource**

Engr. Albert Mariño, PCIERD, Philippines

**- Shihwa Tidal Power Plant Project, RO Korea**

Dr. Sang-Hoon Kim, Daewoo E&C Co., RO Korea

**Wrap-up by the Co-chair**

**1230-1400**

**Lunch**

## **PART 3: VARIOUS APPROACHES OF UTILIZING ALTERNATIVE ENERGIES THROUGH PARTNERSHIPS AND INNOVATIVE MECHANISMS**

**1400-1600**

### **From Centralized Energy to Distributed Energy From Modern to Post Modern**

Dr. Kotaro Takemura, Japan Water Forum

### **Micro-hydro Power Projects in the Philippines**

Asec. Mario C. Marasigan, Department of Energy, Philippines

### **Development of Alternative Energy on Small Islands in Indonesia**

Mr. Toni Ruchimat, MOMAF, Indonesia

### **Renewable Energy for Island and Other Remote Communities in Mindanao: The Alliance for Mindanao Off-Grid Renewable Energy**

Ms. Cris Cayetano, USAID-Philippines

### **Financial Sustainability of Access to Energy Services for the Poor: Experiences from the Asia Pacific Region**

Dr. Thiyagarajan Velumail, UNDP Regional Center in Bangkok

### **Open Discussion and Wrap-up by the Co-Chair**

**1600-1630**

### **Coffee/Tea Break**

**1630-1830**

### **Biogas Micro-Digester as a Rural Development Program under CDM- How to Utilize Programmatic CDM to Enhance Low Carbon Development Policy**

Dr. Naoki Matsuo, Climate Experts, Ltd./PEAR Carbon Offset Initiative, Ltd., Japan

### **The CDM Project of Absolut Chemicals, Inc., The First in Philippine Manufacturing Industry**

Mr. Gerardo Tan Tee, Absolut Chemicals, Incorporated, Philippines

### **Methane into Markets Utilizing Animal Waste**

Dr. I. N. Suprpta Winaya, Udayana University, Indonesia

### **Evolution of Financing Mechanism from NGO into Corporate Entity for Solar Energy Promotion**

Mr. Akihiro Hara, Ohisama Energy Corporation, Japan

**Facilitated Discussion:**

- How can local governments utilize partnerships for introducing alternative energy?
- What is the benefit of introducing alternative energy for the sustainable development of the islands and coastal areas?

## **THEME 4** Water Use and Supply Management

### **WORKSHOP 2**

#### **Addressing Water Crisis in Rapidly Growing Cities**

---

**CO-CONVENING AGENCY:**



**Schedule:** **24 November; 1030-1830**  
**Summit Hall E**

**Chair:** **Dr. Choi Sang-Ki**  
*Vice President, Korea Environmental Institute (KEI)*

**Co-Chair:** **Dr. Vicente Tuddao**  
*Executive Director, River Basin Control Office (RBCO),  
Department of Environment and Natural Resources (DENR),  
Philippines*

There is an emerging problem of water scarcity in growing cities. This scarcity problem is associated with population growth, pollution, failure in management such as disparities between water supply and demand, weak water use regulation and enforcement, as well as inefficient water use stimulated by inadequate water pricing, among others.

With the anticipated increase in climatic uncertainties, it is more urgent than ever to address these water management problems.

The workshop on "Addressing Water Crisis in Rapidly Growing Cities" will review the current status of water issues in the EAS region and showcase some exemplary cases of water management in rapidly growing cities. As advocated by many international organizations, an integrated approach to water management in coastal cities will be highlighted as a recommended management framework to address water problems.

P R O G R A M M E

**1030-1050**

**Theme Paper Presentation: Water Security and Integrated Water Resources Management in Asia**

Dr. Choi Sang-Ki

**SESSION 1. CASE STUDIES ON ISSUES AND CHALLENGES TO WATER MANAGEMENT**

**1050-1230**

**Economic Valuation of Groundwater in Metro Manila and Adjacent Areas**

Ms. Maria Corazon M. Ebarvia, PEMSEA

**Integrated River Management Strategies in Korea**

Dr. Lee Jin-Hee\* and Ik Jae Kim, Korea Environment Institute, RO Korea

**Status and Perspective on “Water for the Sea” in Japan**

Prof. Satoquo Seino, University of Tokyo, Japan

**Discussion**

Facilitators: Dr. Vicente Tuddao and Dr. Chu Jang-Min

**1230-1400**

**Lunch**

**SESSION 2: WATER RESOURCE MANAGEMENT THROUGH AN INTEGRATED MANAGEMENT APPROACH (ICM)**

**1400-1520**

**Domestic Water Supply Development and Need in Lao PDR**

Mr. Souphasay Komany, Water Resources Coordination Committee Secretariat, Lao PDR

**Securing Water Source of Nampho and Pyongyang through ICM Scaling up in the Taedong River Basin**

Mr. Ri Ki Ho, Ministry of Land and Environment Protection (MLEP), DPR Korea

### **Empirical Appraisal of Small Watershed Management Program: A Case Study of Jiulong River Watershed Management Programme**

Dr. Benrong Peng\*, Coastal and Ocean Management Institute, Xiamen University, PR, and Zhenghua Liu, Third Institute of Oceanography, SOA, PR China China

### **Water for Life Programme of the Municipality of Bani, Pangasinan**

Mayor Marcelo E. Gabriel Navarro, Jr., Bani, Pangasinan Province, Philippines

**1520-1540**

#### **Discussion**

Facilitators: Dr. Vicente Tuddao and Dr. Torkil Jonch Clausen

## **SESSION 3: GOOD PRACTICES AND INNOVATIVE TOOLS FOR WATER MANAGEMENT**

**1540-1600**

### **Water Pricing and Cost Sharing for Water Resource Protection in Korea**

Dr. Hyun-Joo Moon, Korea Environmental Institute, RO Korea

### **Singapore's Marina Barrage and Reservoir in the City**

Mr. William Yeo, Catchment and Waterways Department from PUB, Singapore

**1600-1630**

#### **Coffee/Tea Break**

**1630-1750**

### **Climatic Changes and Wastewater Reuse in Challenges in the Mediterranean Region**

Dr. Nicholas Kathijotes, University of Technology, Cyprus

### **Recent Development of Desalination Technology and its Application to Address Water Problems in Small Communities**

Prof. Kim Joon Ha\* and In S. Kim, Gwangju Institute of Science and Technology

#### **Discussion**

Facilitators: Dr. Vicente Tuddao and Dr. Torkil Jonch Clausen

## **PART 4: OPEN FORUM**

**1750-1830**

#### **Panel Discussion**

### **Open Discussion on Policy Brief**

Panelists:

Dr. Torkil Jonch Clausen, Global Water Partnership

Prof. Zhou Quilin, Third Institute of Oceanography (TIO), SOA, China

Dr. Chu Jang-Min, Korea Environmental Institute

#### **Recommendation and Wrap up**

## THEME 5

# Food Security and Livelihood Management

Thematic Keynote Speaker:



Prof. Michael Crawford,  
Director, Institute of Brain  
Chemistry and Human  
Nutrition, London

**Date:** 25 November

**Time:** 1000-1030

**Venue:** Summit Hall C

Workshops/Seminar Topics:

Workshop 1: **Addressing Food Security through Sustainable Aquaculture**

**Date: 25 November**

Workshop 2: **Future Role of Fisheries in an Urbanized World**

**Date: 24 November**

Workshop 3: **Livelihood Management and Sustainable Coastal Tourism**

**Date: 25 November**

## **THEME 5** Food Security and Livelihood Management

### **WORKSHOP 1**

#### **Addressing Food Security through Sustainable Aquaculture**

---

##### **CO-CONVENING AGENCIES:**



Food and Agriculture Organization of  
the United Nations-Regional Office for  
Asia and the Pacific



Bureau of Fish and Aquatic  
Resources, Philippines



Southeast Asian Fisheries  
Development Center

Schedule: **25 November; 1030-1830**  
**Summit Hall C**

Chair: **Prof. Mohamed Shariff**  
*Universiti Putra Malaysia*

Co-Chairs: **Dr. Sena de Silva**  
*Network of Aquaculture Centres in Asia Pacific (NACA)*

The development of the aquaculture industry has gained importance due to the decline in capture fisheries production and the increasing demand for fish. The development of aquaculture is seen as a solution to issues on food security and employment for over a billion people worldwide. But the trend of aquaculture development is not without negative impacts.

This session aims to: identify means of integrating aquaculture development into the ICM framework; outline good practices in sustainable aquaculture production; showcase small-scale aquaculture applications and practices and access to low cost aquaculture technologies; identify the contribution of aquaculture in food security and alleviation of poverty; and identify means to address emerging and potential issues and concerns (e.g. social, economic, political, environmental) related to the development of aquaculture.

**1030-1035****Introduction by Workshop Chair**

Prof. Mohamed Shariff

**PART 1: THE STATE OF AQUACULTURE IN THE REGION****1035-1115****Aquaculture and Ecosystems**

Dr. Michael Phillips\* and Malcolm Beveridge, WorldFish Center, Malaysia

**Contributions of aquaculture industry to food security and poverty alleviation**

Mr. Miao Weimin, FAO-RAP, Thailand

**PART 2: INNOVATIVE TECHNOLOGIES IN ADVANCING SUSTAINABLE AQUACULTURE PRACTICES****1115-1230****Methodology for the Estimation of Safe Carrying Capacity for Small-Scale Aquaculture in Enclosed Lakes and Bays**

Ms. Jocelyn Hernandez-Palerud, AKVAPLAN-NIVA, Norway

**Development of Integrated Multi-trophic Aquaculture in Sanggou Bay, China**

Fang Jiang-guang\*, Zhang Ji-hong, Jiang Zeng-jie, and Mao Yu-ze, Yellow Sea Fisheries Research Institute, PR China

**Introducing a successful Japanese Marine Ranching Project: Shiraishijima Island's Marine Ranching Project in Okayama**

Mr. Takehiro Tanaka, Fisheries Division, Department of Agriculture, Forestry and Fisheries, Okayama Prefectural Government, Japan

**Food Security through Sustainable Mariculture Park Projects in the Philippines**

Mr. Gil Adora, Bureau of Fisheries and Aquatic Resources, Philippines

**Institutional Capacity Development for Sustainable Aquaculture: Its Role in Integrated Coastal Zone Management**

Dr. Evelyn Grace DJ Ayson, Mr. Renato Agbayani, Dr. Jobert Toledo, Southeast Asian Fisheries Development Center (SEAFDEC)

\* - *Presenter*

**1230-1400**

**Lunch**

**PART 3: GOOD PRACTICES IN SEAWEED-BASED AQUACULTURE**

**1400-1430**

**Developing a Seaweed Species-selection Index for Successful Culture in a Seaweed-based Integrated Aquaculture System**

Dr. Ik Kyo Chung, Pusan National University/ Asia Pacific Phycology Association (APPA)

**Mighty Seaweeds in Integrated Multi-Trophic Aquaculture (IMTA): A Biofiltration System for Mitigating Inorganic Wastes and Carbon Dioxide in the Philippine Context**

Dr. Danilo B. Largo, University of San Carlos/APPA

**PART 4: LOCAL IMPLEMENTATION OF GOOD PRACTICES: SUCCESSES AND CHALLENGES**

**1430-1600**

**Bolinao Fish Kill: A Case Study on the Need for Sustainable Mariculture**

Dr. Malou McGlone, University of the Philippines - Marine Science Institute (UP-MSI)

**Sustainable Coastal Aquaculture to Improve Food Security and Livelihood of Communities in ICM Project, Chonburi Province, Thailand**

Mr. Vitaya Khunplome, Chonburi ICM Project, Thailand

**An Approach for Integrated Aquaculture in Philippine Coastal Communities**

Mr. Ramon Macaraig, Alsons Aquaculture Corporation-General Santos City, Philippines

**Mainstreaming Aquaculture in ICM Development**

Dr. Neviaty Zamani, Bogor Agricultural University, Indonesia

**1600-1630**

### **Coffee/Tea Break and Viewing of Posters**

- **Methods to implement the Ecosystem Approach to small scale aquaculture development to achieve sustainability, maintain environmental integrity and enhance social well being by reducing inter and intra sectoral conflict through the participatory approach/consultation** (AKVAPLAN-NIVA)
- **Preliminary results for the study of the vulnerability of brackishwater pond farmers to the effect of climate change.** (AKVAPLAN-NIVA)
- **The Production and Culture of BEST in Saline Waters Towards Sustainable Aquaculture** (BFAR: Melchor Tayamen)
- **Culture of *Pangasius Hypophthalmus* in Ponds** (BFAR: Adelaida Palma)
- **Abalone (*Haliotis asinine*) Culture in Pens** (BFAR:Jaime Salazar)
- **Shrimp Biodiversity in Pristine and Disturbed Mangrove Areas along the West Coast of Peninsular Malaysia** (Prof. Mohamed Shariff, Universiti Putra Malaysia)

### **PART 5: PANEL DISCUSSION : WAYS FORWARD: MAINSTREAMING AQUACULTURE IN A SUSTAINABLE DEVELOPMENT CONTEXT**

**1630-1830**

#### **Panel discussion**

Panelists: Mr. Miao Weimin, FAO-RAP  
Dr. Jobert Toledo, SEAFDEC  
Mr. Mike Philips, WorldFish Center

## **THEME 5** Food Security and Livelihood Management

### WORKSHOP 2

#### The Future Role of Fisheries in an Urbanized World

##### CO-CONVENING AGENCIES:



Food and Agriculture Organization of  
the United Nations-Asia Pacific Fishery Commission

Schedule: **25 November; 1030-1830**  
**Meeting Rm 11**

Chair: **Dr. Rogelio Juliano**  
*Coastal Management Center*

Co-Chair: **Dr. Rafael D. Guerrero III**  
*National Academy of Science and Technology*

The growth of population shows a parallel demographic trend, which sees migration from rural to urban areas. The urban sprawl has become more intense in coastal areas. Among other impacts with which this phenomenon is accompanied, this workshop will delve into how coastal fisheries are affected and its future contributions to food security in a highly urbanizing world.

The demand for fish has not abated and in urban areas where healthy lifestyles are more pronounced, the demand for healthy options, such as fisheries produce are always at par with those of chicken, beef, pork and vegetables. As consumers demonstrate increased awareness, the demand for safe fisheries produce is heightened.

The context of the fisheries' sector contribution to food security has become two pronged: to provide safe produce and to sustain the fisheries resource. Seafood safety is paramount concern that needs to be interfaced with the supply and demand nexus.

P R O G R A M M E

**1000-1005**

**Introduction by the Workshop Chair**

**PART 1: ADDRESSING ISSUES ON FISH DEMAND AND SUPPLY**

**1005-1045**

**The Place of Fisheries in Markets and Food Security in an Urbanizing World:  
Outlook for East Asian Countries**

Dr. Nireka Weeratunge, WorldFish Center

**Current Status of Coastal Fisheries in the Tropical Regions of South and Southeast Asia**

Dr. Simon Funge-Smith, APFIC FAO Regional Office

**PART 2: FOOD SAFETY IN FISH AND FISH PRODUCTS**

**1045-1230**

**Aquaculture and food safety**

Dr. Yasuo Fukuyo, University of Tokyo

**The ASEAN economic integration and fisheries**

Dr. Suriyan Vichitlekarn, ASEAN Secretariat

**Research on the countermeasures of emergency management of aqua-food safety**

Lu Xiaobing

**Where do I know about this fish? Improving Asia-Pacific fish consumer  
information**

Dr. Meryl Williams, Australia

**The role of IAEA in supporting regional seafood safety**

Dr. Ross Jeffree, International Atomic Energy Agency (IAEA)

**1230-1400**

**Lunch Break**

**1400-1430**

**Panel Discussion and Open Forum**

### **PART 3. CONTRIBUTION OF FISHERIES AND AQUACULTURE TO LIVELIHOODS**

**1430-1510**

#### **Small Time, Big Numbers, Small Attention, Big Task: The Role of Small-scale fisheries and Small-scale Aquaculture in Food Security and Livelihood in Southeast Asia**

Dr. Nerissa Salayo and Dr. Maripaz Perez, SEAFDEC/WorldFish Center

#### **A Regional Fisheries Livelihood Programme for South and Southeast Asia**

Dr. Simon Funge-Smith, Ms. Angela Lentisco, Mr. Jose Parajua, Dr. Don Griffiths, Food and Agriculture Organization of the United Nations Regional Office for Asia and the Pacific

**1510-1600**

#### **Panel discussion and Open Forum**

Dr. Luky Adrianto, Bogor Agricultural University, Indonesia

Dir. Cesario Pagdilao, Philippine Council for Aquatic and Marine Research and Development (PCAMRD)

**1600-1630**

#### **Tea/coffee break**

### **PART 4: PERSPECTIVES ON SUSTAINABLE FISHERIES IN THE ASIAN CONTEXT**

**1630-1730**

#### **Sustainable fisheries development in the Philippines: Key contributions and lessons from the Fisheries Improved for Sustainable Harvest (FISH) project**

Mr. Geronimo Silvestre, Dir. Gil Adora, Atty. Benjamin Tabios, Mr. William Jatulan, Mr. Nygiel Armada, Ms. Rebecca Smith, Mr. Marlito Guidote, and Mr. Asuncion Sia, USAID

#### **Strengthening governance and sustainability of small-scale fisheries in the Philippines: Potential directions for the practical implementation of ecosystem-based fisheries management from four case studies**

Dr. Maripaz Perez and Mr. Len Garces, WorldFish Center

#### **Compliance with the FAO Fisheries Code of Conduct within the Coral Triangle: Private sector engagement and a role for NGOs**

Dr. Geoffrey Muldoon, World Wide Fund for Nature (WWF)

#### **Fisheries education and training in the Philippines**

Dr. Rogelio Juliano, CMC

**1730-1800**

#### **Panel discussion and Open Forum**

Dr. Giselle Samonte-Tan, Conservation International; Prof. Chul Hwan Koh, Seoul National University, RO Korea; and Prof. Suam Kim, Pukyong National University

**1800-1830**

#### **Recommendations to the Ministerial Forum and Closing by Workshop Chair**

\* - Presenter

## **THEME 5** Food Security and Livelihood Management

### **WORKSHOP 3**

#### **Livelihood Management and Sustainable Coastal Tourism**

---

##### **CO-CONVENING AGENCIES:**



Department of Tourism  
Philippines



United Nations Development  
Programme, Manila

Schedule: **25 November; 1030-1830**  
**Meeting Rm 11**

Chair: **Dr. Wong Poh Poh**  
*National University of Singapore*

Co-Chair: **Dr. Miguel D. Fortes**  
*UNESCO-National Committee on Marine Sciences*

Building on the results of the 2006 EAS Congress, the Session on Livelihood Management through Sustainable Coastal Tourism session aims to discuss sustainable coastal tourism as a poverty alleviation mechanism for local communities. Specifically, it will discuss:

- local livelihoods and community benefits from sustainable coastal tourism activities;
- conservation and management initiatives as a mechanism to promote sustainable coastal tourism;
- public-private partnership in promoting sustainable coastal tourism
- international and national initiatives on programs for "Green Tourism"
- impact of climate change on sustainable coastal tourism

P R O G R A M M E

**PART 1: OVERVIEW ON LOCAL LIVELIHOODS AND SUSTAINABLE COASTAL TOURISM**

**1030-1045**

**Workshop Keynote :**

Undersecretary Eduardo Jarque, Department of Tourism, Philippines

**1045-1055**

**Introduction by the Workshop Chair**

Dr. Wong Poh Poh

**1055-1115**

**Pro-Poor Tourism**

Mr. Fabrice Leclercq, International Trade Center, Geneva

**1115-1135**

**'Small is Beautiful but is it Practical?' Small-scale Coastal Tourism**

Dr. Mark Hampton, Kent Business School, University of Kent, UK

**PART 2: CONSERVATION AND LIVELIHOOD OPPORTUNITIES THROUGH COASTAL TOURISM**

**1135-1155**

**Social-Ecological Systems (SES) Approach in Sustainable Coastal Tourism in Biosphere Reserves in East Asia**

Dr. Miguel D. Fortes, UNESCO-National Committee on Marine Sciences

**1155-1215**

**Coastal Resources and Livelihood Management through Ecotourism, Thailand**

Benjamas Chotthong\* and Wilavan Noipa, Thailand Environmental Institute

**1215-1235**

**Integrated Coastal Management as a Tool for Enhancement of Local Community Coastal Resources and Tourism - A Case Study of Munakata Coastal Zone**

Mr. Haruyuki Kojima, Toshiya Kubo, Akira Kinoshita and Hideo Saito, Department of Environmental and Civil Engineering, Kyushu Koritsu University, Japan

**1235-1400**

**Lunch**

**1400-1420**

**Mangrove Management and Eco-tourism Promotion in Cambodia**

Mr. Kim Nong, Participatory Management of Coastal Resources (PMCR), Cambodia

**1420-1500**

**Open Forum and Discussion**

**PART 3: PUBLIC-PRIVATE PARTNERSHIP IN SUSTAINABLE COASTAL TOURISM**

**1500-1520**

**Green Fins Program: A Sustainable Future for the Diving Tourism Industry and the Impacts on Local Communities**

Ms. Chloe V. Hunt\*, Niphon Phongsuwan\*, Mr. James J. Harvey, Kanyarat Kosavisutte, Ms. Anne Miller, Green Fins Programme

**1520-1540**

**Pagudpud Homestay: Building Partnerships to Harness the Strengths of Communities towards Ecotourism Development**

Mayor Marlon Sales, Municipality of Pagudpud, Ilocos Norte, Philippines

**1540-1600**

**Lessons Learned: The North Andaman Community Tourism Network**

Mr. Bodhi Garrett and Janaka De Silva, IUCN, Thailand

**1600-1630**

**Tea / Coffee break**

**1630-1650**

**Bali Experience in Sustainable Coastal Tourism**

Dr. Made Antara, University of Udayana, Bali, Indonesia

**1650-1710**

**Open Forum and Discussion**

**PART 4: CLIMATE CHANGE AND SUSTAINABLE COASTAL TOURISM**

**1710-1730**

**Climate Change and Coastal Tourism**

Dr. Wong Poh Poh, NUS, Singapore

**1730-1750**

**Tourism in a Changing Climate**

Mr. Carlos Libosada, Ecotourism Consultant, Philippines

**1750-1830**

**Open forum, discussion and workshop recommendations**

## THEME 6

# Pollution Reduction and Waste Management

Thematic Keynote Speakers:



Dr. Magda Lovei  
The World Bank

**Date:** 24 November

**Time:** 1000-1030

**Venue:** Summit Hall F

Workshops/Seminar Topics:

Workshop 1: **Transboundary Pollution Reduction in River Basins and Coastal Areas**

**Date:** 25 November

Workshop 2: **Innovative Policies and Practices in Water Supply, Sanitation and Pollution Reduction**

**Date:** 24 November



Prof. Rudolf Wu  
Center for Coastal Pollution and  
Conservation, City University of  
Hongkong

**Date:** 25 November

**Time:** 1000-1030

**Venue:** Summit Hall D

**THEME 6** Pollution Reduction and Waste Management**WORKSHOP 1****Transboundary Pollution Reduction in River Basins and Coastal Areas**

---

CO-CONVENING AGENCY:



Northwest Pacific Action Plan-  
Pollution Monitoring Regional Activity Centre

Schedule: **25 November; 1030-1830**  
**Summit Hall D**

Chair: **Dr. Alexander Tkalin**  
*Coordinator, Northwest Pacific Action Plan (NOWPAP) of UNEP*

Co-Chairs: **Dr. Anatoly Kachur**  
*Director of Pollution Monitoring Regional Activity Center (POMRAC) of NOWPAP*

**Mr. David Nemazie**  
*Associate Vice President for External Affairs of the University of Maryland  
Center for Environmental Science, USA*

**Dr. Zhou Qiulin**  
*Third Institute of Oceanography, State Oceanic Administration of PR China*

Transboundary transport of pollutants through rivers is recognized as one of the main causes of ecological problems in coastal and marine areas. Reduction of pollution inputs from rivers is hence a prerequisite in addressing downstream pollution impacts in receiving coastal and marine waters.

Pollutants can be transported through rivers across jurisdictional boundaries within and across countries, posing a challenge to the effectiveness of separate management efforts among national and sub-national entities, and between river basins and coastal areas. An integrated approach in managing shared water systems and in addressing identified priorities such as pollution, at various levels, is considered an imperative.

**1030-1050**

**Introduction by the Workshop Chair, including an overview of programs addressing transboundary pollution issues in the NOWPAP, East Asian Seas and other regions**

**PART 1: CASE STUDIES ON TRANSBOUNDARY POLLUTION REDUCTION IN RIVER BASINS AND COASTAL AREAS FROM THE NORTHWEST PACIFIC**

**1050-1230**

**International Approaches to the Transboundary Pollution Reduction on Examples of “Amur GEF” and “TumenNet” Projects**

Dr. Anatoly Kachur, NOWPAP POMRAC

**Integrated Coastal and River Basins Management (ICARM) Approach in the Russia Far East Coastal Zones**

Dr. Ivan Arzamastsev, Pacific Geographical Institute, Russia

**National Program on (ICARM) of the Republic of Korea**

Dr. Hyun Taik Oh, National Fisheries Research and Development Institute, RO Korea

**Chinese Experience in the Reduction of Pollution in the Rivers and Coastal Zones using ICARM Approaches**

Dr. Xin Xie \*, Mr. Tingliang Liu and Mr. Ruibin Wang, China National Environment Monitoring Center, PR China

**The Significance of the River Input of Nutrients in Relation to Coastal Eutrophication: Spatial Zoning Examples from the Northwest Pacific**

Dr. Vladimir Shulkin, NOWPAP-POMRAC/Pacific Geographical Institute, Russia

**1230-1330**

**Lunch**

**1330-1350**

**Assessment Framework of Eco-Compatible Integrated Management of River Basin and Coastal Area**

Dr. Shogo Murakami , Dr. Hironori Higashi and Dr. Tetsuro Tsujimoto, National Institute for Environment Studies, Japan

**1350-1405**

**Open Forum**

## **PART 2: CASE STUDIES ON TRANSBOUNDARY POLLUTION REDUCTION IN RIVER BASINS AND COASTAL AREAS FROM THE EAST ASIAN REGION**

**1405-1610**

### **Integrated Management of Jakarta Bay and Ciliwung River**

Ms. Peni Susanti, Environment Board of Jakarta, Indonesia

### **Targets, Strategies, Good Practices, Achievements and Challenges in Reducing Pollution in Pasig River**

Mr. Deogracias J. Tablan, Jr.\* and Mr. Jimbo M. Mallari Pasig River Rehabilitation Commission, Philippines

### **Pollution Reduction in the Selangor and Klang River Systems**

Ms. Norfaezah Binti Shamsuddin\* and Mr. Mazlan Bin Idrus, Selangor Water Management Authority (LUAS), Malaysia

### **Control of land-based pollution in Singapore and Singapore's Experience in the Cleaning up of Singapore River**

Mr. Joseph Hui, Environmental Protection, National Environment Agency, Singapore

### **Transboundary Pollution Reduction in River Basins and Coastal Areas by Watershed Management in China: The Jiulong River Basin-Xiamen Bay Case Study**

Prof. Zhou Quilin\*, Dr. Chen Bin, State Oceanic Administration, PR China

### **Quantifying Land-based Pollutant Loads in the Coastal area with Sparse Data: Methodology and Application in China**

Dr. Jinliang Huang, Mr. Qingsheng Li, Mr. Zhenshun Tu, Mr. Canmin Pan, Dr. Louping Zhang, Mr. Pancras Nyodoke, Ms. Jie Lin, Prof. Huasheng Hong Xiamen University, PR China and, Fujian Institute of Oceanography, PR China

**1555-1610**

### **Open Forum**

**1610-1630**

### **Coffee/Tea Break**

### **PART 3: EXPERIENCE ON TRANSBOUNDARY POLLUTION REDUCTION IN RIVER BASINS AND COASTAL AREAS FROM OTHER REGIONS**

**1630-1710**

#### **Potential presentations:**

#### **Comprehensive Multi-Sector Pollution Reduction Strategies to Restore Chesapeake Bay**

Mr. David Nemazie, University of Maryland Center for Environmental Science, USA)

#### **Danube/Black Sea Strategic Partnership**

Mr. Ivan Zavadsky, GEF Secretariat, USA

**1710-1730**

#### **Open Forum**

### **PART 4: PANEL DISCUSSION/OPEN FORUM AND WRAP UP**

**1730-1815**

#### **Facilitators: Workshop Chair**

#### **Panelists: Co-Chairs**

#### **Suggested focus:**

- Opportunities, challenges and needs in the application of integrated coastal and river basin management approaches to address transboundary pollution
- Potential areas of collaboration among programs and projects dealing with transboundary pollution reduction in river basins and coastal areas
- Good practices and strategies in forging alliances among levels of government and other stakeholders in transboundary pollution reduction

**1815-1830**

#### **Recommendation and Wrap:**

Workshop Chair and participants to prepare a summary of the workshop, highlighting key recommendations

## **THEME 6** Pollution Reduction and Waste Management

### **WORKSHOP 2**

#### **Innovative Policies and Practices in Water Supply, Sanitation and Pollution Reduction**

---

##### **CO-CONVENING AGENCIES:**



The World Bank



Korea Maritime  
Institute

Schedule: **24 November; 1030 – 1830**  
**Summit Hall F**

Chair: **Dr. Magda Lovei**  
*The World Bank, USA*

Co-Chair: **United Nations Industrial Development Organization (UNIDO)**

The East Asian region has been the beneficiary of a number of bilateral and multilateral projects in recent years, which were aimed at developing and demonstrating innovative strategies, policies and practices in water supply, sanitation and reducing the generation and discharge of pollutants from land-based human activities. These projects are beginning to generate information on social, economic and environmental benefits, as well as the potential advantages of replication and scaling up such practices among local governments and private sector operations in the region.

This workshop will review the progress and results of some of these initiatives, including the policies and strategies being adopted by project proponents in order to generate the necessary financing to cover capital and operating costs, as well as to meet the expectations of civil society and users of the facilities and services.

The workshop will also introduce investment projects that are currently under development, and explore areas of potential application of the identified good practices.

P R O G R A M M E

**SESSION 1: KNOWLEDGE SHARING ON INNOVATIVE POLICIES AND PRACTICES**

**1030-1120**

**Optimizing Technology to Suit Local Conditions  
Pollution Reduction Applications for Industry in East Asia**

Dr. Carmela R. Centeno, UNIDO

**Livestock Waste Management in East Asia**

Mr.Arux Chaiyakul, Department of Livestock Development, Thailand

**Low Cost Wastewater Treatment: Ningbo Constructed Wetlands**

Li Hai Sheng\*, GEF/WB Cixi Wetland Project and Yang Xiao Ming, Ningbo Water Environment Management Office

**An Integrated Approach for Septic Tank Management: Yantai Demonstration**

World Bank Investment Fund project

L. Jin\*, Yantai Xin'anhe Wastewater Treatment Co. Ltd., Yantai, Shandong, China;  
J. Zhao, ESD China Ltd. Shanghai, China, and J. Zhou, Southern Illinois University  
Edwardsville, Edwardsville, Illinois, USA

**1120-1130**

**Open Forum**

**1130-1215**

**Demonstrating Partnerships that Work**

**Sustainable Development in the World's Center of Marine Biodiversity:  
Puerto Galera's PPP Experience**

Hon. Hubbert Christopher A. Dolor MD, MPA, Puerto Galera, Philippines

**First Pearl River Delta Urban Environment Project**

Terry Sing Cho, The World Bank

### **Experience in the Development of Water and Sewerage Services in Metro Manila**

Mr. Mark Tom Mulingbayan, Manila Water Company Inc., Philippines

**1215-1230**

**Open Forum**

**1230-1400**

**Lunch**

### **USING SCIENTIFIC SUPPORT IN CLEANING UP RIVERS AND COASTS**

**1430-1515**

#### **Pollution Load Allocation in Semi-enclosed Bays – A Practical Approach in China**

Dr. Qinhua Fang\*, Prof. Luoping Zhang, Junbi Wang, Guihua Wang, Jinliang Huang and Yuwu Jiang, Coastal and Ocean Management Institute  
Xiamen University, PR China

#### **Calculation of Marine Environmental Carrying Capacity in Xiamen, China**

Mr. Yuwu Jiang, Mr. Zhaoyun Chen\*, Fuxing Zhang, Zhenchang Zhang, Enhui Liao, Wei Song, Jinliang Huang and Louping Zhang, State Key Laboratory of Marine Environmental Science, Xiamen University, PR China

### **SESSION 2: MOVING FORWARD – NEW INITIATIVES, CHALLENGES AND OPPORTUNITIES**

**1525-1610**

#### **Bohai Sea: River Basin Pollution Reduction Project**

Dr. Wen Quan, State Oceanic Administration, China

#### **Pollution Load Assessment in the Meycauayan-Marilao-Obando River System-WQMA**

Dr. Carlos Prima David, DENR-JICA Project

#### **Jakarta Bay: Ciliwang River Pollution Reduction Project**

Antung Deddy Radiansyah, River and Lake Degradation Control, Ministry of Environment, Indonesia

**1610-1630**

**Coffee/Tea Break**

### **SESSION 3: SUSTAINING THE MOMENTUM – DEVELOPMENTS IN FINANCING AND INVESTMENTS**

**1630-1730**

#### **Structuring Bankable Projects and Investment Programs Cities Development Initiative for Asia**

Mr. David Villeneuve, Urban Networking Specialist, Cities Development Initiative for Asia, Philippines

#### **Public – Private Infrastructure Advisory Facility**

Mr. Paul Reddel, PPIAF Regional Coordinating Office, The World Bank, Manila

#### **Clean Development Mechanism**

Ms. Maya Villaluz, World Bank Office, Manila, Philippines

#### **Cost-recovery and Ring Fencing of Special Accounts: Promoting Sustainability in Solid Waste Management for Local Governments**

Philippine Environmental Governance Project (DAI-EcoGov)

### **Session 4: Panel Discussion on Financing Options for Sustainable Water and Sanitation**

**1730-1810**

#### **Panel Facilitators**

Mr. Arunkumar Abraham, DAI-EcoGov  
Dr. Kim Jong-Deog, KMI

#### **Panelists:**

World Bank - Dr. Christophe Crepin  
CDIA – Mr. David Villeneuve  
PPIAF – Mr. Paul Reddel  
Private sector – Mr. Juergen Lorenz, Mr. Mark Tom Mulingbayan

**1810-1820**

**Panel Summary**

- Stimulating the demand for water, sanitation and pollution reduction
- Getting policy and institutions right
- Selecting the appropriate technologies
- Accessing financing mechanisms
- Setting the enabling conditions for partnerships and investments

**1820-1830**

**Chair's Wrap Up**

- Situation of water, sanitation and pollution
  - increasing coverages (however there are disparities between rich & poor)
  - increasing investments... but not enough (still a low priority)
  - impacts (to health, economy and environment)
- Challenges, barriers and constraints
- Learning from innovative policies and good practices
- Availability of financing options
- Viability of water, sanitation and pollution reduction projects
- Next steps and priority areas

# Poster Presentations

## **Posters on Pollution Reduction and Waste Management**

**Schedule: 24 November; 13:30-14:00**

**Venue: Posters will be on display at the Delegation Building 3rd Floor Lobby**

### **Characterization of Cebu City Port Water**

Dr. Cecilio Baga, Cebu State College of Science and Technology, Philippines

### **Marine Environmental Pollution Causes and Control Countermeasures in Coastal Water of Liaoning Province, P.R. China**

Mr. Qiang Li, State Oceanic Administration, China

### **Waste management in the marine maintenance and ship repair industry of Metro-Cebu**

Dr. E. Venci and Dr. C. Baga, Cebu State College of Science and Technology, Philippines

### **Survey on Ecological Impact of the Hebei Spirit Oil Spill**

Mr. Jong Kwan Choi, Korea National Park Service, RO Korea

## Special Sessions, Workshops and Meetings

### Special Session on Disaster Management

---

#### CO-CONVENING AGENCY:



International Geographical  
Union

Schedule: **23 November; 1400-1830**  
**Room 9**

Chair: **Dr. Shigeko Haruyama,**  
*International Geographical Union (IGU)*  
**Dr. Cherdasak Virapat,**  
*Executive Director, International Ocean Institute (IOI)*

Disaster management is getting more attention nowadays as a result of disasters becoming more and more frequent and catastrophic. In the East Asian Seas region, coastal communities and small islands are particularly vulnerable, as evidenced by the impact caused by the 2004 Indian Ocean Tsunami among others.

The importance of knowing how to prepare and respond to disasters has also led to the evolution of disaster management from an almost ad-hoc response to nature's disturbances to a holistic system of preventing and mitigating risks and adaptation. New ways of addressing disasters have taken advantage of the advances in information and communication technology. It has also integrated various disciplines and concerns including stakeholder involvement, governance and policy issues at the local and national level and the threat of climate change, which puts a global perspective on an otherwise local concern.

This workshop aims to review the current status of disaster management capacities of various localities within and outside the East Asian Seas region. Specifically it aims to meet the following objectives:

- Take stock of whatever resources are available that can be optimized to create a more effective disaster management framework with due consideration to the unique settings of each locality/country;
- Assess the effectiveness and determine the value of applying science and technology as a tool for disaster management; and,
- Share information on the new ways of collaborating among various sectors of the society.

P R O G R A M M E

**1430-1435** Introduction of the Session

**PART1: SCIENCE AND TECHNOLOGY FOR MARINE DISASTER PREVENTION AND MANAGEMENT**

- 1435-1550**
- **Development of DSS for Environment Protection in Cases of Marine Incidents**  
Dr. Mladineo Nenad, University of Split, Croatia
  - **Experimental Research on the Development of Inorganic Coagulant for the Removal of Wreck Oil by Oil Spill Accident: Oil Removal Examination at the Philippines Guimaras Island**  
Prof. Kenji Hotta, Nihon University, Japan
  - **Present Situation of China for Prevention and Management Against Marine Disasters**  
Mr. Li Jun, China Institute for Marine Affairs, China
  - **Risk Assessment of Shipping Traffic in the Straits of Malacca**  
Prof. Dr. H.M. Ibrahim and Mansoureh Shahryari, MIMA, Malaysia
  - **Development of PSSA in the Straits of Malacca**  
Capt Rakish Suppiah and K. Thulasi, MIMA

**1550-1600** Wrap up by Co-Chairs

**1600-1630** Coffee Break

**PART 2: GOOD GOVERNANCE ON DISASTER MANAGEMENT**

- 1630-1815**
- **Partnership Building for Mitigation of Disaster**  
Dr. Shigeku Haruyama, Graduate School of Mie University and The University of Tokyo, Japan
  - **Flood and Sediment Management in Philippines, In View of Cooperation**  
Mr. Minoru Kamoto, Japan International Cooperation Agency

- **Development of Participatory Risk Communication Method using Disaster Risk Scenario**  
Dr. Hiroaki Tsubokawa, National Research Institute for Earth Science and Disaster Prevention (NIED)
- **Good Governance and Effective Collaboration Towards Flood Mitigation**  
Ms. Dolores M. Hipolito, Department of Public Works and Highways, Philippines
- **Numerical Analyses of Flood Control Basin Capability in the Middle Part of the Amur River**  
Dr. Mizue Murooka, Researcher, Abashiri Fisheries Experiment Station, Japan
- **Tropical Cyclone 'Nargis': The Worst Natural Disaster to Strike the Southern Ayeyarwady River Delta of Myanmar in Early May 2008**  
Prof. Maung Maung Aye, University of Yangon, Myanmar
- **International Collaboration and Coordination-The Government of Thailand Adaptive Learning in Disaster Management for Community Awareness and Resilience: A Case Study**  
Dr. Cherdak Virapat, IOI

**1815-1830**

**Brief Discussion and Wrap up by Co-Chairs**

## Special Sessions, Workshops and Meetings

### Opportunities for a Sustainable Regional Mechanism for Governmental/Civil Society Collaboration on ICM in the Indian Ocean Region

---

#### CO-CONVENING AGENCIES:



International Union for Conservation of  
Nature – Asia Regional Office



Mangroves for the Future

Schedule: **25 November; 1400-1830**  
**Summit Hall F**

Chair: **Ms. Anna Tengberg**  
*United Nations Development Programme*

Multiple agencies are working on various aspects of integrated coastal management (ICM) in the Indian Ocean region. These agencies' programmes and projects reflect their individual institutional mandates and at the same time address similar issues. The 2004 tsunami underscored the challenges experienced by governments and civil society in preparing for and responding to disasters. In the aftermath of the tsunami, regional institutions and international partners began to explore the potential to develop more effective ways for governments and civil society to prepare for and cope with eventual future catastrophes.

In response, the Mangroves for the Future initiative (MFF) undertook a rapid assessment of the programmes of institutions working in the field of ICM in the region. The purpose of the regional assessment, which was conducted in 2007-08, was to determine: (1) the intersections of the programmes of these institutions; (2) the degree to which these institutions are currently collaborating with each other; and (3) the degree to which they are currently cooperating with civil society. The workshop will present the findings of this assessment, which has been updated recently by the institutions involved, and engage participants in discussing key issues that emerged from the study, with the aim of securing concrete recommendations for action.

P R O G R A M M E

**PART 1: THE MFF REGIONAL GOVERNANCE ASSESSMENT**

**1400-1410**

**Opening Remarks** *Anna Tengberg*

**Introduction to the Workshop** *Don Macintosh, MFF Coordinator*

**1410-1430**

**MFF Regional Assessment Report - Presentation of the Main Findings**

*Patricia Moore*

**1510-1515**

**Further Update with Comments from the Participating Organizations**

[FAO/APFIC, NACA, UNEP/COBSEA/SACEP, PEMSEA, SEAFDEC]

**1510-1515**

**Brief Presentation of the Outcomes of the T1:4 Workshop: Addressing Transboundary Issues Through Regional/ Subregional Seas Cooperation: Initiatives in East Asia**

*Anna Tengberg*

**PART 2: GROUP DISCUSSIONS (IN PARALLEL SESSIONS) FOLLOWED BY PRESENTATIONS IN PLENARY**

**1530-1700**

**GROUP 1: Promoting Government/Civil Society Collaboration**

Facilitated by COBSEA, MFF, SEAFDEC and SEI

**GROUP 2: Communications Needs and Information Sharing**

Facilitated by MFF, SACEP, UNEP ROAP and WMU

**GROUP 3: Strengthening Mechanisms for Regional Cooperation**

Facilitated by COBSEA, FAO, IUCN, SENSEA and UNDP

**Coffee/Tea Break**

**PART 3: WRAP UP**

**1700-1745**

**Group Presentations in Plenary**

**1745-1820**

**Open Forum and Agreed Summary of Recommendations**

**1820-1830**

**Workshop Conclusion and Vote of Thanks**

*Chair/co-chairs*

\* - *Presenter*

## Special Sessions, Workshops and Meetings

### **Workshop on Local Action, Global Contribution: Best Practices on Community-based Approaches to Sustainable Coastal and Marine Ecosystems Management**

---

**CO-CONVENING AGENCY:**



Schedule: **23 November; 1400-1800  
Room 11**

Communities have proven to be an effective force of change. While local actions may seem to have minimal, isolated impacts, the changes at the local or community level are usually those that make significant and visible impacts on people's lives and on communities.

In an effort to promote the participation of community-based groups and highlight the best practices on community-based approaches to sustainable coastal and marine ecosystems management, this workshop presents projects that showcase how the local communities have been a rich source of creative and productive experiences in managing coastal and marine ecosystems. These case models have been chosen from a number of projects implemented by NGOs/ POs/ CBOs and other community constituents within the SGP Country Programmes in East Asian Seas. They employ various strategies and modalities that include conservation and sustainable use of resources, restoring and rehabilitating damaged ecosystems, protecting habitats, abating waste and pollution, etc. While these initiatives were mainly directed to contribute to global environmental benefits, they help as well the communities in uplifting themselves economically and socially.

This workshop is open to anyone registered in the International Conference of the EAS Congress.

**1400-1415****Introduction by the Chair****PART 1: PRESENTATION OF CASE MODELS OF COMMUNITY-BASED INITIATIVES****1415-1435****From Survival to Sustainable Development****A community-based approach to coastal and marine management in Stung Hav, Preah Sihanouk, Cambodia**

Ms. Ngin Navirak, UNDP GEF SGP Cambodia and Prak Visal, Project Management Office  
Preah Sihanouk

**1435-1455****Effective Strategy on Community Approaches To Sustainable Coastal and Marine Ecosystems Management; based on case study of the Coral Reef Restoration Program in Belitung Island**

Ms. Catharina Dwiastarini, UNDP Small Grants Programme and Mr. Budi Setiawan,  
NGO-Kelompok Peduli Lingkungan Belitung (KPLB), Indonesia

**1455-1515****Community-Based Marine Sanctuary Management and Livelihood Project: The Case of Maliliit na Mangingisda ng Caramay Multipurpose Cooperative (MMCMC), Roxas, Palawan**

Mr. Joel Valdez, MMCMC Project Manager

**1515-1535****Income generation through Conserving and Sustainable Use of Coastal Resources – A Case Model from Thailand**

Mr. Poonsin Sreesangkom, UNDP GEF SGP, Thailand and Samarn Rungruang, Chaolao  
Community Fishing Group, Thailand

**1535-1555****Vietnam Case Study**

Ms. Nguyen Thi Kim Anh, UNDP GEF SGP Vietnam

**1600-1630****Coffee Break****1630-1700****Multi-Partnership Building for Sustainable Coastal Resources Management in Balayan Batangas  
Mr. Filmoore Gadon, Mr. Rodelio Bagunas, ANAK-Balayan, Philippines****1700-1730****Panel Discussion and Open Forum****1730-1800****Workshop Recommendations and Summary**

## Special Sessions, Workshops and Meetings

### Seminar on Green Ports in the ASEAN Region

---

#### CONVENING AGENCY:



Partnerships in Environmental  
Management for the Seas of East Asia

Schedule: **23 November 2009; 1400-1830**  
**Banquet Hall 3**

Chair: **Atty. Oscar Sevilla**  
*General Manager, Philippine Ports Authority*

The port industry has been faced with government regulations to achieve regulatory compliance including safety, security and environmental requirements. Still many perceive that these requirements are added costs and hampers port productivity.

On the other hand, the port sector in North America and Europe has demonstrated positive results in implementing environmental programs and anti-pollution measures. Those ports have taken steps in implementing laws, environmental programs and green technology.

With this in view, this seminar will examine various efforts and examples of environmental practices and initiatives of ports within and outside the region, review results of implementation of port management systems to address safety, security and environmental requirements and discuss the drivers for investments in environmental initiatives.

P R O G R A M M E

**1400-1410**

**Introduction of the Chair**

Atty. Oscar Sevilla

**INTERNATIONAL INITIATIVES**

**1410-1440**

**Revised Recommendations on the Safe Transport of Dangerous Cargoes and Related Activities in Port Areas**

IMO

**1440-1510**

**US EPA's Strategy for Sustainable Port Operation**

Ms. Kathleen Bailey Environmental Protection Agency, USA

**REGIONAL INITIATIVES**

**1510-1530**

**GTZ Approach for Promoting Sustainable Port Development in the ASEAN Region**

Mr. Uwe Breitling, GTZ

**1530-1550**

**Integrated Management System for Ports**

PEMSEA

**1550-1610**

**Open Discussion**

**APPLICATION OF INSTRUMENTS, METHODOLOGIES AND TECHNOLOGIES**

**1610-1650**

**Green Harbours: Hongkong and Shenzen-Reducing Marine and Port-related Emissions**

Ms. Veronica Booth, Civic Exchange, Hongkong

**1650-1710**

**Green Initiatives in the Port of Singapore**

MPA Singapore

**1710-1730**

**Application of PSHEMS in Improving Safe Transport and Handling of Dangerous Cargoes in Port AreasL Bangkok Port's Experience**

Bangkok Port, Thailand

**1730-1750**

**Case Study: Improving Environmental Performance in US Ports**

TBD

**1750-1810**

**Open Discussion**

**1810-1830**

**Summary/Workshop Recommendations**

## Special Sessions, Workshops and Meetings

### SGP - PEMSEA Partnership Meeting

---

#### CO-CONVENING AGENCY:



Schedule: **26 November 2009; 1330-2000**  
**Meeting Rm 12**

In 2005, two GEF supported programmes, the Small Grants Programme (SGP) and the Partnership in the Environmental Management for the Seas of East Asia (PEMSEA) signed the Joint Communique that aims to strengthen the role of NGOs/ POs/ CBOs in the implementation of the Sustainable Development Strategy for the Seas of East Asia (SDS-SEA) in the local communities. This partnership was initially implemented in Cambodia, Indonesia, Philippines, Thailand and Vietnam. Representatives of these countries convened in Haikou, Hainan, China in November 2006 to firm up the partnership and flesh out its implementation. The recent opening of new SGP Country Programmes in other countries such as China and Laos is expected to expand further the implementation of the Joint Communique in these areas.

## Special Sessions, Workshops and Meetings

### Seminar on Ecosystem Approach to Conservation and Fisheries Management

#### CONVENING AGENCY:



Partnerships in Environmental  
Management for the Seas of East Asia

Schedule: **23 November; 1400-1830**  
**Room 12**

Chair: **Dr. Angel C. Alcala**  
*Silliman University – Angelo King Center for Research and  
Environmental Management*

Co-Chair: **Dr. Michael D. Pido**  
*Center for Strategic Policy and Governance, Palawan State University*

The ecosystem approach (EA) to management has long been recognized as a fundamental principle in instruments like the 1992 UN Convention on Biological Biodiversity (CBD) and the 1995 FAO Code of Conduct for Responsible Fisheries. In 2002, in Johannesburg, world leaders have committed to the application of EA by 2010.

But the principle encompasses diverse, often interacting concepts that have left practitioners and stakeholders intimidated and grappling with how it is to be implemented. However, it is recognized that the CBD framework is an overarching one which can marry with a strengthened, sectoral approaches like an EA to fisheries. This is because both consistently follow a set of principles. To this end, a planning process and management approaches like an integrated coastal management or co-management, but with EA as its central framework, can be instrumental to a successful implementation.

This seminar thus presents a menu of processes and tools towards an EA to conservation and fisheries management, aiding to a milieu that allows a clearer way of what an EA is and how is it's applied on coastal or on ocean areas.

# P R O G R A M M E

**1400-1405**

## **Chair's Introduction**

### **MARINE RESOURCES CONSERVATION**

**1405-1420**

#### **Socioeconomic and Institutional Considerations for Marine Conservation: Lessons Learned from the Calamianes Islands, Philippines**

Dr. Giselle PB. Samonte-Tan, Conservation International, Arlington, Virginia, U.S.A, Mr. Benjamin S. Francisco, USAID-Fisheries Improved for Sustainable Harvests (FISH) Project, Philippines, Mr. William P. Jatulan, USAID-FISH Project, Philippines, Dr. Nygel B. Armada, USAID-FISH, Philippines, Ms. Kathleen Sylvano, USAID-FISH, Philippines, Ms. Evelyn T. Deguit, USAID-FISH, Philippines, Mr. Geronimo Sylvestre, USAID-FISH, Philippines, Dr. Alan T White, The Nature Conservancy, Honolulu, Hawaii, U.S.A.

**1420-1435**

#### **Evaluating the Management Effectiveness of the Marine Protected Areas Network in the Calamianes Islands, Palawan Province, Philippines: Key Results and their Implications**

Mr. Len R. Garces, WorldFish Center, Malaysia, Dr. Mark Tupper, WorldFish Center, Malaysia, Dr. Michael D Pido, Palawan State University, Mr.Geronimo T. Silvestre, USAID-FISH Project, Philippines

**1435-1450**

#### **Community-based Biodiversity Threats Analysis and Mapping of the Balabac Strait Corridor, Palawan, Philippines**

Prof. Ronald. E.A. Ona, Dr. Patrick A. Regoniel, Engr. Omar T. Alfonso, Dr. Michael D. Pido, Palawan State University-Center for Strategic Policy and Governance, Engr. Ryan T. Fuentes, Mr. John F.A. Pontillas, Mr. Apollo V. Regalo, Palawan Council for Sustainable Development

**1450-1505**

#### **Community Participation In the Establishment And Management of Cu Lao Cham Islands Marine Protected Area, Quang Nam Province, Vietnam**

Mr. Chu Manh Trinh, Cham Islands Protected Area Authority, Vietnam

**1505-1520**

#### **Participatory seagrass monitoring using an integrated approach that combines scientific and local knowledge: An example from Southern Thailand**

Ms. Petchrung Sukpong and Ms. Sathika Phaokanta, IUCN-Thailand Programme, Thailand

\* - *Presenter*

## FISHERIES MANAGEMENT

**1520-1535**

### **Successful Protection and Indigenous Knowledge-Based Fishing Ban of Spinefoot Rabbit Fish, *Siganus Fuscescens* (Siganidae, Perciformes) Do Make Sense: Biological Evidence from Davao Oriental, Philippines**

Bernadette Jumawan-Nanual, Mitchelle Cuevas and Dr. Ephrime B. Metillo, Department of Biological Sciences, Mindanao State University-Iligan Institute of Technology, Iligan City, Philippines

**1535-1550**

### **Simulating the Effect of Seasonal Fishing Moratorium on the Fisheries in the Pearl River Estuary Coastal Ecosystem for Fisheries Strategies Exploration**

Dr. Lijie Duan, School of Environmental Science and Engineering, Sun Yat-sen University, China; Dr. Shiyu Li, School of Environmental Science and Engineering, Sun Yat-sen University, China; Yu Liu, School of Environmental Science and Engineering, Sun Yat-sen University, China; Dr. Ying Wang, School of Environmental Science and Engineering, Sun Yat-sen University, China; Dr. Pierre Failler, bCentre for the Economics and Management of Aquatic Resources (CEMARE), University of Portsmouth, United Kingdom; Dr. Villy Christensen, Sea Around Us Project, Fisheries Centre, University of British Columbia, Vancouver, BC, Canada; Dr. Jacques Moreau, Laboratoire d'Ecologie fonctionnelle UMR, France

**1550-1605**

### **Fishers-Based Environmental Watershed Management in Lake Saroma, Japan**

Mr. Shimpei Iwasaki, Graduate School of Global Environmental Studies, Kyoto University, Japan

**1605-1630**

### **Tea/Coffee Break**

**1630-1645**

### **Development of Tools to Assess Ecosystem and Economic Impacts Due to Ocean Fertilization Technologies**

S. Tabeta, T. Kinoshita, H. Yoshimoto, Y. Shimizu, Y. Matsuda, Department of Environment Systems, Graduate School of Frontier Sciences, University of Tokyo, Japan

## ICM/CO-MANAGEMENT

**1645-1700**

### **Integrated Coastal Management & Small-Scale Coastal Fisheries**

Dr. Aiko Endo, Policy Research Department, Ocean Policy Research Foundation, Tokyo, Japan

**1700-1715**

### **Ecosystem Approach in Practice - A Comparative Analysis and Implications for Multilateral Cooperation**

Ms. Ayako Okubo, Research Center for Advanced Science and Technology, the University of Tokyo, Tokyo, Japan

**1715-1730**

### **Examining the Assumptions of Integrated Coastal Management: Diverging Stakeholder Agendas and Elite Cooption in Babuyan Islands, Philippines**

Mr. Rasmus Klocker Larsen, Stockholm Environment Institute (SEI), Stockholm, Sweden; Ms. Jo Marie Acebes, Asia Research Centre, School of Social Sciences and Humanities, Murdoch University, Australia; Mr. Alejandro Belen, Bureau of Fisheries and Aquatic Resources (BFAR), Region 2, Philippines

## Special Sessions, Workshops and Meetings

### WORKSHOPS ON MEETING HUMAN RESOURCES REQUIREMENTS IN COASTAL AND OCEAN GOVERNANCE: FORMAL AND INFORMAL TRAINING

#### WORKSHOP 1: Meeting the Demands of Short-Term Training and Education in Coastal and Ocean Governance in East Asia

---

CONVENING AGENCY:



Association of Southeast  
Asian Nations (ASEAN) Foundation

Japan-ASEAN Solidarity Fund

Schedule: **26 November; 1330-1830**  
**Meeting Room 14**

A follow-on workshop on the Discussion Group Meeting on Capacity Development on Coastal and Ocean Governance held in 2006. This meeting/workshop will focus on the recent initiatives undertaken related to capacity development in the region. Discussions will include:

- efforts to maximize regional intellectual capital towards coastal and ocean development;
- short-term informal training initiatives;
- contribution of regional and international initiatives in promoting capacity development;
- human resource requirements of the region and available services

## Introduction of the Workshop Chair

### PART 1: CAPACITY BUILDING EXPERIENCES AROUND THE WORLD

**IOI** (G. Robin South: IOI's capacity building program IOI-OceanLearn)

**LOICZ** (Juergen Weichselgartner: Capacity building activities: Experiences of a global project)

### PART 2: CAPACITY BUILDING IN PARTICULAR SECTOR AND ISSUE

**APN** (Laura David: CAPaBLE Scientific Capacity Building and Enhancement for Sustainable Development in Developing Countries: Climate Change)

**RCARO** (Ron Szymczak: Management of discharges to the marine environment from nuclear activities in the Asia-Pacific region – a coordinated regional approach)

**UNIDO** (Fukuya Ino and Evangeline Santiago: POPs analysis capacity development and monitoring in 10 Asian countries)

### PART 3: DONORS' PRACTICES IN CAPACITY BUILDING

**ASEAN Foundation** (Dr. Filemon Uriarte)

**ADB** (Dr. David McCauley)

**Tea Break and launching of PEMSEA's ICM Manuals**

### PART 4: HARNESSING PEMSEA PARTNER INSTITUTIONS IN BUILDING CAPACITIES IN THE EAST ASIA

**PEMSEA** (Overall PEMSEA strategy in capacity development: Meeting the training needs of East Asia)

**Partner institutions** (SENSA, AMETEC, MERIT Technology, IOC/WESTPAC, IUCN-ARO, Others: EMECS, PML, KEI, KMI, KORDI, ACB)

### PART 5: ROUND TABLE DISCUSSIONS

- **Have we met the demands of training and education in coastal and ocean governance in East Asia?**
- **Are the current initiatives sufficient enough to address capacity needs?**
- **What are the current opportunities for training?**
- **A “matching exercise” of articulated training needs of the countries in the region vis-à-vis available supply provider**
- **Way forward: Packaging trainings so that donors can readily come in**

## Special Sessions, Workshops and Meetings

### WORKSHOPS ON MEETING HUMAN RESOURCES REQUIREMENTS IN COASTAL AND OCEAN GOVERNANCE: FORMAL AND INFORMAL TRAINING

#### WORKSHOP 2: PEMSEA Workshop on Post-Graduate ICM Curriculum (long-term initiative)\*

##### CONVENING AGENCY:



Partnerships in Environmental  
Management for the Seas of East Asia

Schedule: **23 November; 1400-1830**  
**Meeting Room 14**

There is no ICM degree programme per se anywhere in the world. Degree courses in Marine Affairs programme have evolved through time and have been the closest track to catering to the demands of an integrated coastal management approach. An integrated and interdisciplinary Marine Science courses have also been attempted, but these too remain loosely structured and thus are not useful with the present needs in the coasts.

Renewed efforts to create a post-graduate ICM degree programme have been initiated in recent years. Japan, through The Nippon Foundation, sees this as a long-term effort while the Tokyo University, Yokohama University, Nihon University in Japan; Xiamen University in China; the University of the Philippines in the Philippines, the National University of Singapore in Singapore; and the Bogor University in Indonesia have shown keen interests and have made initial assessments towards this goal.

**Introduction of the Workshop Chair**

**PART 1: REVIEW OF TRAINING NEEDS ASSESSMENT SURVEY RESULTS**

**PEMSEA: TNA survey results**

**PART 2: POST-GRADUATE ICM CURRICULUM**

**Post-graduate ICM curriculum**

**PART 3: ROUND TABLE DISCUSSIONS**

**Way forward**

# 2nd EAS YOUTH FORUM

22-27 November 2009

Sponsors/Co-convenors:



Association of Southeast  
Asian Nations (ASEAN) Foundation

Japan-ASEAN Solidarity Fund



Swedish Environmental  
Secretariat for Asia

**List of Speakers/panelists:**

**Atty. Antonio Oposa Jr.**, Environmental Lawyer  
**Dr. Filemon Uriarte Jr.**, ASEAN Foundation  
**Dr. Felino Lansigan**, UPLB  
**Dr. Beverly Goh**, NIE Singapore  
**Dr. Juergen Weichselgartner**, LOICZ  
**Dr. Laura T. David**, UP-MSI  
**Dr. Subandono Dipoaptano**, MMAF, Indonesia  
**Dr. Neviaty Zamani**, Bogor Agricultural University, Indonesia  
**Mr. Manuel Cira**, WON

**Facilitator:** **Dr. Donna Paz Reyes**, Environmental Studies Institute, Miriam College, Philippines

Over the years, the unchecked and unmitigated human activities have turned the seas of East of Asia into an alarming global hotspot. This condition may be worsened by the potential impacts of climate change. As inheritors of the planet, the youth has the most at stake, but could also play a significant role in securing their future and that of generations to come, if only their potentials could properly be channeled. Existing efforts for the sustainable development of our oceans and coasts could only be sustained over time if younger generations get involve in environmental and resource management.

The 2nd East Asian Seas (EAS) Youth Forum, one of the special events of the EAS Congress 2009, is a venue for young people in the region to learn more about pressing concerns in the marine and coastal areas including climate change as well as their role in ocean and coastal management. It also hopes to provide them with some practical skills that they can apply when they go back to their own country.

Specifically, the 2nd EAS Youth Forum aims to:

- a. Promote awareness among the youth on the issue of climate change and its potential impacts to marine and coastal areas in the East Asian Seas region;
- b. Identify actions/activities that the youth can take part as contribution to mitigating/adapting to climate change;

- c. Provide participants with practical knowledge, skills and materials for climate change mitigation/adaptation;
- d. Create synergy with the accomplishments of the 1st EAS Youth Forum participants;
- e. Establish and develop mechanisms to sustain the EAS Youth Network (EASYNNet); and
- f. Encourage the participation of more youth and youth organizations in EASYNNet.

The outputs for the 2nd YF are as follows.

- a. Youth Statement which identifies specific activities and timeline that they will implement in their respective countries in contribution to climate change mitigation/adaptation.
- b. 2nd YF Handbook which will serve as the menu of activities and the guiding document for the conduct of the Forum.
- c. Proceedings and articles regarding the conduct and key achievements/results of the 2nd EAS Youth Forum will be developed and published in the special EAS Congress issue of PEMSEA's magazine Tropical Coasts, for distribution to all participants and countries in the region.

## Inform

### Day 1 (22 November)

**0800-1200**

#### **Arrival of participants**

Registration of participants

**1300-1320**

#### **2nd Youth Forum Opening Ceremony**

**1320-1340**

#### **Video showing about the previous EAS Congress**

**1340-1400**

#### **Video showing about PEMSEA**

**1400-1730**

#### **Team building, mural making and setting-up of youth exhibit**

**1730-1900**

#### **Informal Reception for Participants (PEMSEA)**

**1900-2100**

**Sharing of experiences/Accomplishments on the Youth Agenda**

Ms. Sally Nay, EAS 2006 Youth Forum Participant

**Interactions among 2006 and 2009 YF participants**

**Introduction of Activity 1** (Interview of Congress Participants)

## Inform

**Day 2 (23 November)**

**0830-0930**

**Opening Ceremony**

**0930-1000**

**Opening Ceremony Keynote 1**

**1000-1030**

**Opening Ceremony Keynote 2**

**1030-1100**

**Photo Session**

**1100-1130**

**Tea/Coffee Break** (in front of Reception Hall)

**1130-1200**

**Plenary Keynote 1**

**1200-1230**

**Exhibit Opening** (Reception Hall)

**1230-1400**

**Lunch**

**1400-1430**

**Keynote Speech for the Youth Forum**

Atty. Antonio Oposa Jr., Environmental Lawyer, Philippines

**1430-1500**

**Open Forum**

**1500-1530**

**Discussion 1: Warmer or Cooler Earth? (The Facts and Myths of Climate Change)**

Dr. Felino Lansingan, University of the Philippines - Los Banos, Philippines

**1530-1600**

**Discussion 2: SDS-SEA, ICM and Climate Change**

Dr. Neviaty Zamani, Department of Marine Science, Bogor Agricultural University, Jakarta, Indonesia

**1600-1630**

**Break**

**1630-1900**

**Workshop 1 (Panelists: Dr. Felino Lansigan, UPLB Phil., and Dr. Beverly Goh, Natural Science and Science Education- NIE in Singapore)**

- Creative information dissemination
- Sharing of experiences on small acts that create big impacts
- The Youth and the Handbook for climate change

**1900-2100**

**Reception Dinner (DENR)**

## Inspire and Involve

**Day 3 (24 November)**

**0830-0900**

**Plenary Keynote on Sustainable Development and Climate Change Adaptation**

**0900-0930**

**Open Forum**

**0930-1000**

**Coffe/Tea Break**

**1000-1230**

**Workshop 2 (Panelist: Dr. Juergen Weichselgartner, Senior Science Coordinator, IHDP/IGBP Core Project LOICZ Institute for Coastal Research of the GKSS Research Center, Germany)**

- Activity Management primer for Youth Organizations
- Leading and Involving Others
- Managing Sustainability

**1230-1400**

**Lunch**

**1400-1630**

**Attend International Conference Workshops**

(T2:1; T2:2; T2:3; T3:1; T3:2; T4:1; T4:2)

**1630-1800**

**Legislators' Dialogue**

**1800-1900**

**Your Hour with Legislators**

**1900-2000**

**Dinner**

**Discussions about Experiences on the International Conference (Discussion of Activity 1)**

## Inspire and Empower

**Day 4 (25 November)**

**0830-0930**

**World Ocean Network Experience** (Mr. Manuel Cira, World Ocean Network)

**0930-1000**

**Break**

**0900-1030**

**Engaging Youth the ASEAN Way** (Dr. Filemon Uriarte, Jr., ASEAN Foundation)

**1030-1100**

**Open Forum**

**1100-1300**

**Panel Discussions on Sectoral Efforts towards Climate Change and Engaging Youth in Addressing Climate Change**

Dr. Laura T. David, Marine Science Institute, University of the Philippines, Dr. Ir. Subandono Diposaptono, MEng., Director of Coastal and Ocean Affairs, Ministry of Marine Affairs, and Fisheries, Indonesia

**1200-1400**

**Lunch**

**1400-1700**

**Develop Youth Statement**

**1700**

**Submit youth statement for review**

**Day 5 (26 November)**

- |                  |   |
|------------------|---|
| <b>0830-0930</b> | <b>Reporting on Conference Outcomes</b>   |
| <b>0930-1000</b> | <b>Closing Ceremony of the International Conference and Congress Flag Turn-over</b> |
| <b>1000-1030</b> | <b>Tea/Coffee Break</b>   |
|                  | <b>Ministerial Forum Opening Ceremony</b>   |
| <b>1100-1130</b> | <b>Keynote Speech</b>   |
| <b>1130-1300</b> | <b>Lunch</b>  |
| <b>1300-1530</b> | <b>Sharing of Experiences of 2009 YF Participants</b>                               |
| <b>1530</b>      | <b>Free Time</b>  |

**Day 6 (27 November) EAS CONGRESS FIELD TRIP**

- |                  |   |
|------------------|---|
| <b>0700-1030</b> | <b>Mangrove Planting at Las Pinas-Paranaque, in collaboration with MBEMP and DENR-NCR</b> |
| <b>1030-1100</b> | <b>Break</b>  |
| <b>1100-1400</b> | <b>Ship Visit at T/S Spirit of MOL</b>  |
| <b>1400-1700</b> | <b>EAS Congress Field Trip (Manila Tour)</b>  |

**Day 7 (28 November) Departure of Participants**