Side Event

Workshop on “Human-Environmental Security in Asia-Pacific Ring of Fire: Water-Energy-Food Nexus”

1:00 pm
March 5th, 2014
at Mountain Laurel

Convener
The Research Institute for Humanities and Nature (RIHN)

Co-convener
Project On Sustainability Transformation beyond 2015 (POST2015)

Presenters

Kenshi BABA
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Research Institute for Humanity and Nature

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Hokkaido University

Jason GURDAK
San Francisco State University

Masahiko IGUCHI
Tokyo Institute of Technology

Jun SHOJI
Hiroshima University

Casey STEVENS
United Nations University-Institute of Advanced Study of Sustainability

Masachika SUZUKI
Kansai University

Makoto TANIGUCHI
Research Institute for Humanity and Nature
Climate change and economic development are causing increased pressure on water, energy, and food resources, presenting increased levels of tradeoffs and conflicts among these resources and stakeholders. The need to maximize human-environmental security (minimize the risk) by choosing policies and management structures that optimize water-energy-food connections in Asia-Pacific region is crucial. Because these resources are inter-connected, policy development and resource management require careful consideration of the complex interconnections between nature and society. A balance between risk and resilience is critical for achieving human and environmental security, particularly in Asia, a region within the Ring of Fire.

The event introduces the project on water-energy-food nexus led by the RIHN. We also invite POST 2015 project to contribute to MDGs and SDGs from nexus perspective. Themes for this project include, for example, conflicts and tradeoffs between geothermal power generation and the hot spring business (water-energy nexus), water uses on land vs environmental flow from land to the ocean for coastal ecosystem (water-food (fishery resources) nexus), and resource development vs water use and contamination (water-energy nexus), among others. The project takes interdisciplinary and transdisciplinary research approaches.

Event Description

Part I
Chair: J. Gurdak  13:00-13:34

How to maximize human environmental security from water-food(fisheries)-energy nexus point of view?

- 13:00-13:05  A. Endo
  Introduction

- 13:05-13:13  J. Shoji
  Water-food NEXUS in coastal ecosystems

  Groundwater Engineering Toward Sustainability of the Water-Food Nexus in Coastal California

  Feasibility and current barriers in developing stable renewable energy in Japan

- 13:29-13:34  Question & Answer

Part II
Chair: J. Gurdak  13:34-14:03

How to implement the transdisciplinary approaches from the aspect of management, policy and governance for human environmental security?

- 13:34-13:42  K. Baba
  How do Joint Fact-Finding Approaches work in NEXUS Issues? Perspective and Application to Japanese Cases

  Developing integrated index for water-energy-food nexus

  Identifying Nexus in the POST2015 (Project on Sustainability Transformation beyond 2015)

- 13:58-14:03  Question & Answer

Part III
Chair: M. Taniguchi & C. Stevens  14:03-15:00

How to reflect nexus perspective to achieve the MDGs, processes or/and measurements?

- 14:03-14:18  M. Taniguchi
  Human-Environmental Security in Asia-Pacific Ring of Fire: Water-Energy-Food Nexus

- 14:18-14:33  C. Stevens
  Governance 'of' and 'for' Sustainable Development Goals

- 14:33-15:00  Open forum