1. Introduction

APCE concerns with environmental/ecological problems for sustainable provision of water as an environmental service and ecological component for all people. APCE activities are in line with the main mission of UNESCO in enhancing science, education and culture. In this context, APCE benefits people in general through environmental and ecological management by harnessing science and technology, education and culture.

In its activities, APCE commits to contribute in overcoming current and important issues of national, regional and global interests, such as poverty, climate change adaptation, and disaster risk reduction.

2. Activities

In achieving the objective of the APCE, we will do several activities as listed in Table 1 that also contains time and potential partners for each activity. These activities will benefit from results of past and current research activities conducted by Indonesian Institute of Science (LIPI) and their partners.

1. Activity 1: Research on Sediment Deposition System on Saguling Reservoir, West Java (2011-2012)

- In the first year of the project, we will focus on the selection of the demo-site location **demo-site location Saguling Reservoir**
- Saguling reservoir area is defined into several 1) restricted zone, 2) conservation zone, 3) fishing one, 4) aquaculture zone, and 5) Transportation zone.
- This activity will have an output of a report document, containing details of identified and defined ecological issues and problems in **demo-site location Saguling Reservoir**, Indonesia.
2. **Activity 2: National seminar & workshop**

National Seminar on Ecohydrology, held in Jakarta, 24 March 2011, with the theme: Integrating Ecohydrological Principles for Good Water Governance

The topics discussed: a). Ecohydrology concepts and principles with its development, b). APCE and institutional programs, c). Ecohydrology applications in lake management, d). Concept educational and research necessity on ecohydrology, e). a national policy of water resource management, f). conservation of water resources, g). spatial planning in water resource management, h). sustainable water resource use. Keynote speakers were Prof. Dr. Maciej Zalewski, Director of International Institute of the polish Academy of science, European Regional Centre for ecohydrology under the auspices of UNESCO (ERCE) and Dr. Shahbaz Khan, Chief of Sustainable Water Resources Development & Management Section, UNESCO Division of Water Sciences, Paris, France.

3. **Activity 3: International (Regional) workshop**


Ecohydrology Programme (EHP) demonstration sites aimed to synthesize knowledge gaps for addressing issues related to critical water systems. The International workshop open by Hery Harjono LIPI Deputy Chairperson – and Shahbaz Khan, UNESCO HQ and Giuseppe Arduino, UNESCO Jakarta. The workshop was attended by EHP experts from Poland, Portugal, Germany, Philippines, Argentina, Cina, Australia, Ethiopia, Indonesia and focused on how better knowledge of the interrelationships between the hydrological cycle, livelihoods and ecosystems could be contributed to more cost-effective and environmental-friendly management. The existing projects
related to landscape processes, water issues in cities, rivers, floodplains, wetlands, reservoirs and coastal areas was discussed at the workshop.

The workshop bring together experiences of the following areas of interest in the demo sites:

- Relationships among ecological pattern and hydrological process;
- Disturbance and dynamics in natural and anthropogenic ecology and hydrology;
- Ecohydrological approaches to biodiversity conservation, environmental management, and ecological restoration;
- Integrating hydrology with ecological planning, design, and architecture, or reverse;
- Transdisciplinary studies of regional sustainability from scopes of ecohydrology, ecology, or both.

The activities included a discussion of the key aspects of the selected EH demo projects followed by the steering committee of the program which will elaborate on future plans.

4. Other activities

a. Attend to IHP RSC in Kyoto – Japan, 27 – 28 October 2011
b. Attend to World Delta Summit in Jakarta – Indonesia, 21 – 24 November 2011
c. Attend to Korea International Symposium : "Addressing water quality challenges in Asia/Pacific", in Daejon, Korea, 7 – 9 December 2011
d. APCE Meeting with Deputy of Earth Sciences – Indonesian Institute of Sciences, 22 December 2011 : “Renewal of the composition of the APCE organization committee”
e. Participate in preparing the Indonesia National Committee IHP Response to The Draft Strategic Plan of The Eight Phase of IHP (IHP-VIII, 2014 – 2021), 26 January 2012
f. APCE Meeting with Director General of High Education of National Education Ministry, 31 January 2012
g. Attend to Indonesia National Committee of IHP in Jakarta, 19 January 2012
h. Attend to Meeting of Indonesian Institute of Sciences and Indonesia National Committee for Unesco in Jakarta, 24 January 2012
i. Site Visit to Pondok Pesantren Al-Amanah, Cililin – Bandung, in order to promote a Demo-site Saguling Reservoir, 27 January 2012
j. Site Visit to Saguling Power Plant in order to promote a Demo-site Saguling Reservoir, 05 March 2012
k. Study of sediment deposition system on saguling reservoir, west Java (2011)
l. To Build the official secretary of APCE 1000 M² (APBNP 2012)
o. International Training Program on Technology for Water Management, Belgium, December, 2011
p. 21st IHP Nagoya Training Course in Asia and Pacific Region on Introduction to River Basin Environment Assessment under Climate Change. 8 November – 9 December 2011, Kyoto University, Japan
q. Dr. Gadis Sri Haryani, Prof. J. Sopaheluwakan and H. Pawitan will present a paper entitled “Concept and Application of Ecohydrology in Indonesian Inland Waters
r. Reformation of APCE organizational structure (2012). This is done in order to improve institutional performance including additional structural and personnel

5. Organization Stucture
The new composition of the ASIA PACIFIC CENTRE FOR ECOHYDROLOGY (APCE) is:

Board of Directors:

1. Chairman of The Indonesian Institute of Sciences (IIS)
2. Vice-Chairman of The Indonesian Institute of Sciences
3. Secretary of The Indonesian Institute of Sciences
4. Director of The Unesco Jakarta Office
5. Chairman of Indonesia National Committee for Unesco
6. Deputy Chairman for Earth Sciences - Indonesian Institute of Sciences
7. Deputy Chairman for Natural Sciences - Indonesian Institute of Sciences
8. Deputy Chairman for Scientific Services - Indonesian Institute of Sciences
9. Director General of Water resources – Ministry of Public Works
10. Director of Research Centre for Limnology

Executive Director: Prof. Dr. Hery Harjono, IIS
Executive Secretary: Dr. Ignasius Dwi Atma Sutapa, IIS
Yovita Lambang Isti, IIS
Research Division: Prof. Dr. Hidayat Pawitan (Bogor Agriculture Institute)
Dr. Gadis Sri Haryani, IIS

Division of:
Training and Workshop: Drs. M. Fakhrudin, IIS
Dr. Apip, IIS
Public Awareness: Dr. Munasri, IIS
Dr. Deny Hidayati, IIS
Information System: Prof. Dr. Robert Delinom, IIS
Dr. Luki Subehi, IIS

6. APCE activities in Progress:
1. MOU with Tsukuba University: Activities to promote collaborative scientific projects will be commenced by representatives from both parties, such as the project on studies of Lake Maninjau and other lakes or reservoirs potentially useful for downstream/pollutant-accumulating lake studies.
2. MOU with NordCEE University of Southern Denmark: collaborative studies of the Malili Lakes.
3. MOU with Toulouse University: Impact of anthropogenic activities on fish diversity in Citarum river, (experts exchange).
4. MOU with Katingan Subprovince: Implementation of Peatwater Treatment Plant (IPAG60) as an alternative technology to provide clean water in peatland area.
5. MOU with Soposulung Foundation: sustainable management of Toba lake (Hyacinth control with a biocontrol method).
7. Constructing of APCE secretariat building (April – December 2012)
8. APCE secretariat will be planned to be inaugurated by the President of Republic of Indonesia and the President of UNESCO in April 2013, one of the agenda of the APEC meeting in 2013.
9. Received a visit from children's school and high school: learning relating to the management of sustainable water resources

7. Publications

- Ecohydrology Approach for Rehabilitation of Lake Limboto in Gorontalo, Indonesia (T Chrismadha, GS Haryani, M Fakhrudin, Lukman, I Ridwansyah, PE Hehanussa, Research Center for Limnology, Indonesian Institute of Sciences). Will be Published in Special Edition Journal on Ecohydrology.
- Proceedings of National Seminar on Ecohydrology, 24 March 2011: Integrating Ecohydrological Principles for Good Water Governance”. This Proceedings contain 20 papers which consist of nine papers presented orally and 11 papers were presented in poster session. Those papers derived from various research institutions from both within and outside the country, universities, ministries and other institutions, who have been through the process of review by a team of editors.

8. Meetings hosted by the country
Asia Pacific Centre for Ecohydrology, Indonesian National Committee for IHP-UNESCO, Indonesian Institute of Sciences, Indonesian National Committee of Indonesia conducted International Workshop on New Ecohydrology Demonstration Site Projects “Ecohydrology for Managing Sustainable Water Futures”, in Jakarta, Indonesia, 21 – 23 March 2011

Asia Pacific Centre for Ecohydrology, Indonesian National Committee for IHP-UNESCO, Indonesian Institute of Sciences, Indonesian National Committee of Indonesia, organized National Symposium on Ecohydrology “Integrating Ecohydrological Principles for Good Water Governance” on 24 March 2011 in Jakarta, Indonesia

9. Participation in meetings abroad

- Dr. Gadis Sri Haryani, Dr. Ignasius D Sutapa, Dr. Tri Widiyanto participated UNESCO IHP 19th RSC Meeting in Kyoto – Japan December 2011
- Prof. Peter Hehanussa and Dr. Gadis Sri Haryani, participated UNESCO IHP 18th RSC Meeting for Southeast Asia & The Pacific (SEAP) in Hanoi, Vietnam. in conjunction with the Fifth APHW conference on Hydrological Regime and Water Resources Management in the Context of Climate Change (HWCC 2010) took place in Hanoi, Vietnam 8 – 12 November 2010.
- Dr. Gadis Sri Haryani, Dr. Ignasius D Sutapa, Dr. Tri Widiyanto attend to EXTREM Symposium in Kyoto Japan, December 2011
- Dr. Ignasius D.A. Sutapa attend to Korea International Symposium: “Addressing water quality challenges in Asia/Pacific”, in Daejon, Korea, 7 – 9 December 2011