

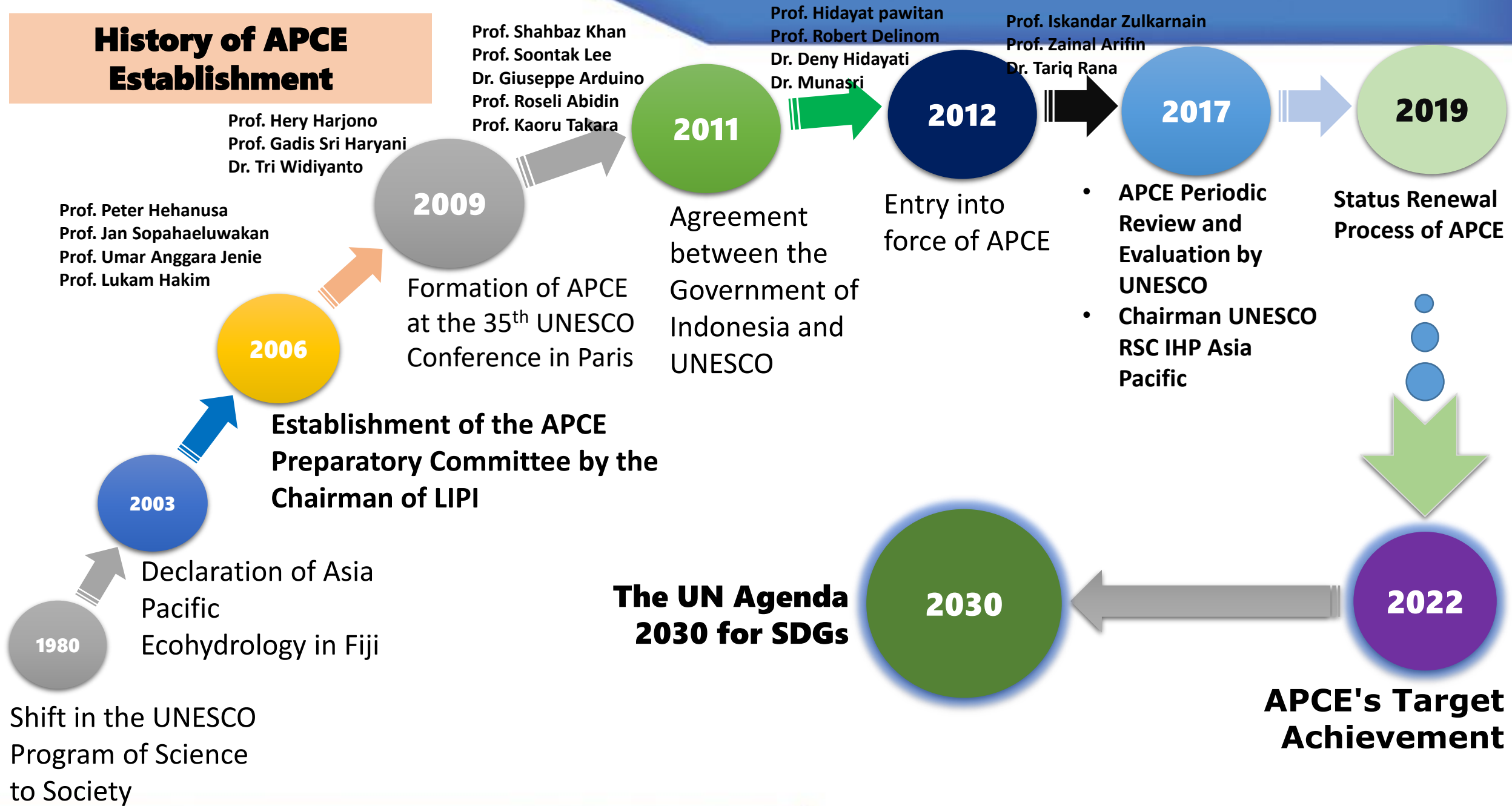


Asia Pacific Centre for Ecohydrology (APCE) – UNESCO C2C

UNESCO C2C International Symposium in Kuala Lumpur – Malaysia, 15 – 17 May 2024

***Prof. Dr. Ignasius D.A. Sutapa, MSc.
Executive Director***

History of APCE Establishment



Task & Function of APCE as Category II Centre of UNESCO

- 1. Scientific Research:** Create the Research Program & Coordinating the Collaborative Research Projects in the Field of Ecohydrology in the Asia Pacific Region
- 2. Training & Capacity Building:** Create and Conduct the Training Program and Public Awareness related Ecohydrology Field in the Asia Pacific Region & International
- 3. Networking:** Participate and Organize the Scientific Community Meetings and Initiating Ecohydrology Field-based Collaborative Works
- 4. Scientific Reference:** Publications

UNESCO C2C MANDATES

- SCIENTIFIC RESEARCH
- CAPACITY-BUILDING
 - KNOWLEDGE-SHARING
 - RAISING PUBLIC AWARENESS
- NETWORKING

4 STRATEGIC GOALS

- ☐ To promote local resources based on ecohydrological research
- ☐ To strengthen local capacity to adopt ecohydrological concepts and approach
- ☐ To provide easy access to local resources based on ecohydrological information and knowledge
- ☐ To enhance public awareness of local resources based on ecohydrological practices

Focus Areas of Concern

TRADITIONAL IRRIGATION SYSTEM

- Local Knowledge
- Traditional Irrigation System
- Water Resource Management
- Soil-Water-Culture Conservation

ARID & SEMI ARID ZONES

- Short Period of Rainy Season
- Rainfall Harvesting
- Limited Water Resources
- Water Resource Management
- Soil & Water Conservation
- Irrigation System

URBAN

- Heat Island
- Urban Flood
- Clean Water & Sanitary
- Organic & Unorganic Waste
- Water Pollution
- Drainage System
- Social-related Problem

WATERSHED SYSTEM/LAKES & RESERVOIRS

- Global to Local Climate Change Impacts
- Rapid Land Use Change
- Land Degradation
- Flood, Drought, High Erosion & Sedimentation Rates
- Water Quality & Eutrophication
- Loss of Biodiversity
- Social Problem
- Water Security

PEATLAND

- Rapid Peat Forest Area Conversion
- Extreme Water Table Fluctuation
- Loss of Biodiversity
- CO2 Sink
- Peat Fires & Haze

SMALL ISLANDS

- Limited Freshwater Resources
- Sanitary
- Salt Water Intrusion
- Water Quality & Clean Water
- Sea Level Rise & Climate Change

Recent Activities

Collaboration & Networking

- Different themes of the webinar were organized in collaboration with:
 - Ministry of Health
 - Ministry of Communication and Informatics
 - BSSN
 - Lemhanas
 - Universities
 - RSPAD Gatot Subroto
 - UNESCO
 - HTC-KL, Malaysia
 - RC-IRBM, Abuja - Nigeria

Contribution to UNESCO IHP IX

1. Vice Chairman of UNESCO IHP IX Working Group on Ecohydrology and Water Quality.
2. Leader of Priority Area 4.6. Ecosystem Services
3. Core Members of UNESCO HQ Ecohydrology Scientific Advisory Committee

Regional and International Meetings

- The 29th IHP Regional Steering Committee Meeting for Asia and the Pacific (RSC-AP), 21– 24 February 2023 in Tsukuba, Japan.
- UNESCO HQ Ecohydrology Scientific Advisory Committee Meeting. Beijing – China, 15 September 2023.
- Stakeholders Consultation Meeting of WWF 2024, 11 – 13 October 2023 in Denpasar – Bali, Indonesia.
- The 30th IHP Regional Steering Committee Meeting for Asia and the Pacific (RSC-AP), 8 – 10 November 2023 in Putrajaya, Malaysia.
- UNESCO National Committees Meeting 7 – 8 May 2024 in Jakarta - Indonesia
- International Symposium of the C2C and Institutes under Auspices of UNESCO 15 – 17 May 2024 in Kuala Lumpur – Malaysia.
- 10th WWF Bali Indonesia 18 – 25 May 2024

Contribution to 10th WWF 2024 in Bali - Indonesia

- Chairperson of the Session T2A2: “Water Pollution Dilemma: Accelerating Water Quality Improvement – Avoid, Reduce, Recycle, and Reuse to solve the water pollution enigma.”
- Speaker of the Session 2A: “Water Quality Improvement”
- Speaker of the Session T2B3:” Evidence for and valuation of water-related Nature-based Solutions”
- Speaker of the Session CC06:” The case for water investments that deliver improved local human, societal and nature-based outcomes”
- Speaker of the Session SE44:” Finance applied to water projects”

Flyers of the Sessions in WWF 2024

**10TH WORLD WATER FORUM**
18 - 24 May 2024 | Bali, Indonesia

**Ministry of Agriculture and Forestry of Türkiye**
Turkish Water Institute (SUEN)
European Commission
Joint Research Centre (EC JRC)

MODERATORS

**Patrick Lavarde**
World Water Council (WWC)
Co-Lead of the Forum Thematic Process

**Prof. Bilge Alpaslan Kocamemi**
Turkish Water Institute (SUEN)
Marmara University, Env. Eng. Dept.
Wastewater Surveillance Project Coordinator
Senior Project Advisor

**Dr. Bernd Manfred Gawlik**
European Commission Joint Research Centre (EC JRC)
Directorate D – Sustainable Resources
Unit D.02 Ocean and Water

CLOSING KEYNOTE

**Ruth Mathews**
Stockholm International Water Institute (SIWI)
Senior Manager / Coordinator
Action Platform for Source-to-Sea Management (S2S Platform)

**Eunice Ubomba-Jaswa**
Water Research Commission (WRC)
Research Manager

**Prof. Ignasius Sutapa**
Asia Pacific Centre for Ecohydrology (APCE) UNESCO C2C
Executive Director of APCE-UNESCO C2C

**Alex Pires**
United Nations Environment Programme (UNEP)
Wastewater global team leader
Source to Sea Pollution Unit

**Ismahane Remonnay**
Veolia
Head of Prospective & Risk

**Prof. Ahmet Mete Saatci**
Turkish Water Institute (SUEN)
World Water Council (WWC)
Former Governor of SUEN
Former Governor of WWC

**Dr. Andrew Engeli**
Ginkgo Biosecurity Boston, MA
Senior Director
Strategy and Partnerships

**Session T2A2**
Water Pollution Dilemma

"Accelerating Water Quality Improvement: Avoid, Reduce, Recycle, and Reuse to Solve the Water Pollution Enigma"
The Future of Water

Bali International Convention Centre, Indonesia
10th WWF Bali, 18-25 May 2024

Chairpersons

**Ismahane REMONNAY**
Senior VP Foresights & Partnerships R&I
VEOLIA

**Prof. Ignasius D.A. Sutapa**
Executive Director, APCE - UNESCO C2C
Asia Pacific Centre for Ecohydrology

Date: 22 May 2024
Time: 08.15 - 10.15 AM

Speakers & Topics

**Richard A. Berman**
University of South Florida, USA
"The Story of Water"

**Ngoc-Bao PHAM**
reduce for Global Environment Studies, Japan
"The Challenges"

**Chethika Wadumestirige Dona**
Hortico for Future Initiatives W.O. The University of Tokyo - Japan
"The Future"

**Jitendra Kumar Singh**
Asian Development Bank (ADB), Philippines
"The Economic & Regulatory Challenges"

**Sungwon Jung**
Sungwon C&E Korea
"The Best Practices"

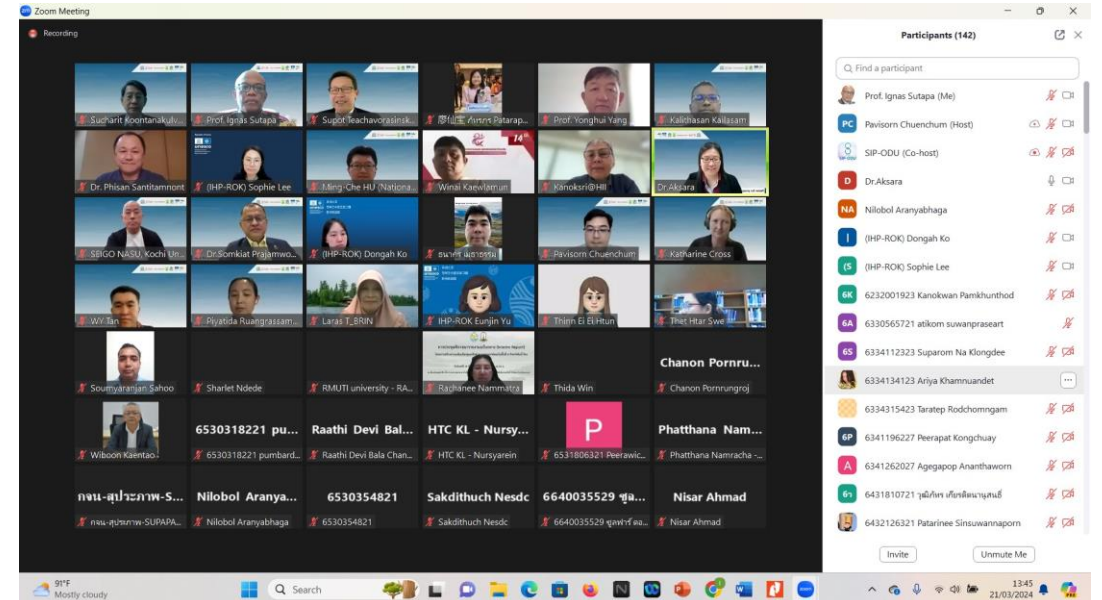
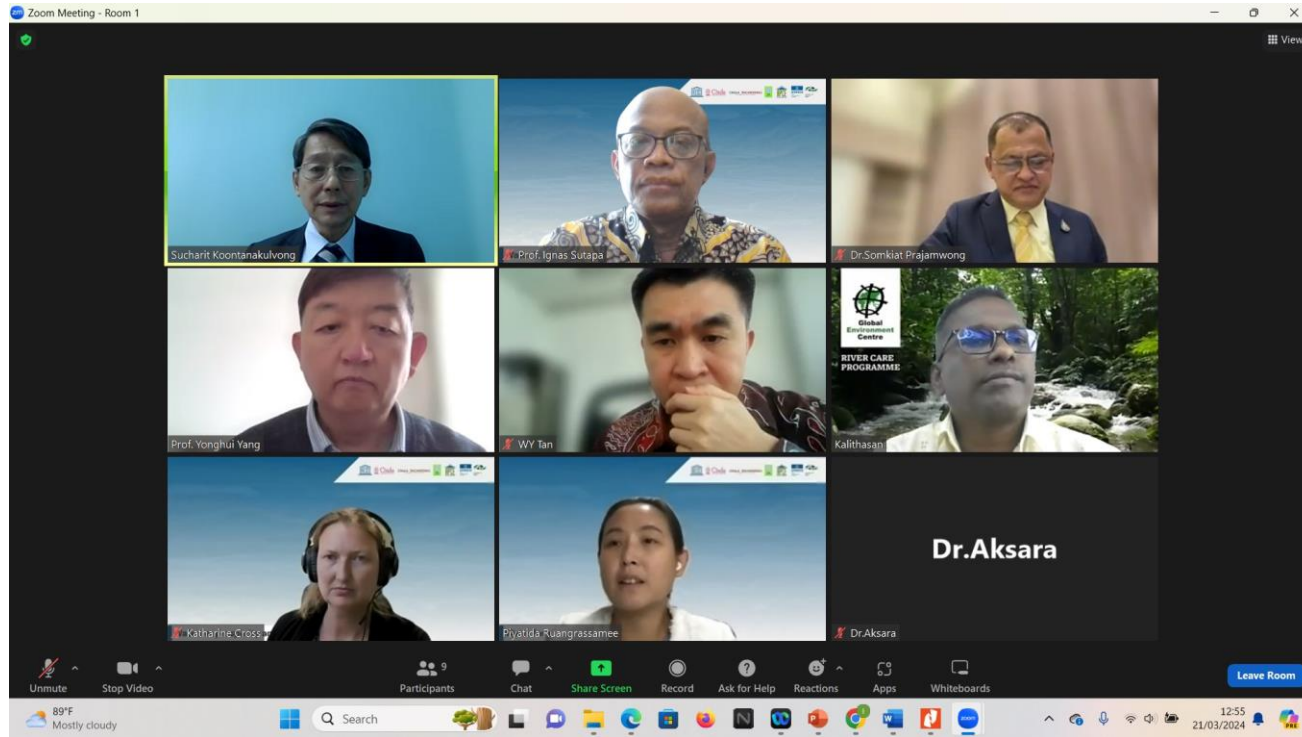
**Dominique Presse**
VEOLIA - Eau, France
"The Technologies"

**Prof. Luis Chicharro**
University of Almeria, Spain
"City - Future"
"The Measures"

**Kshemaahna Nagi**
Youth Parliament, India
"The Youth Perspectives"

Introducing Ecohydrology in Asia Pacific Region

Join Webinar for WWD Celebration, 21 March 2024



Join Webinar with SCU 7 May 2024



SCU for Indonesia

Strategi Mitigasi dan Pemulihan Bencana Banjir: Pembelajaran dari Jawa Tengah

Selasa, 7 Mei 2024 | 09.00-13.00 WIB | Webinar Daring



Abdul Malik Sadat Idris, ST, M.Eng.



Prof. Dr. Ignasius DA Sutapa, M.Sc.



Widi Hartanto, S.T., M.T.



Dr. Aris Ismanto



Dr. Ir. Robert Riyanto W., M.T., IAI



Dyah Wulandari, S.Si., Ph.D.



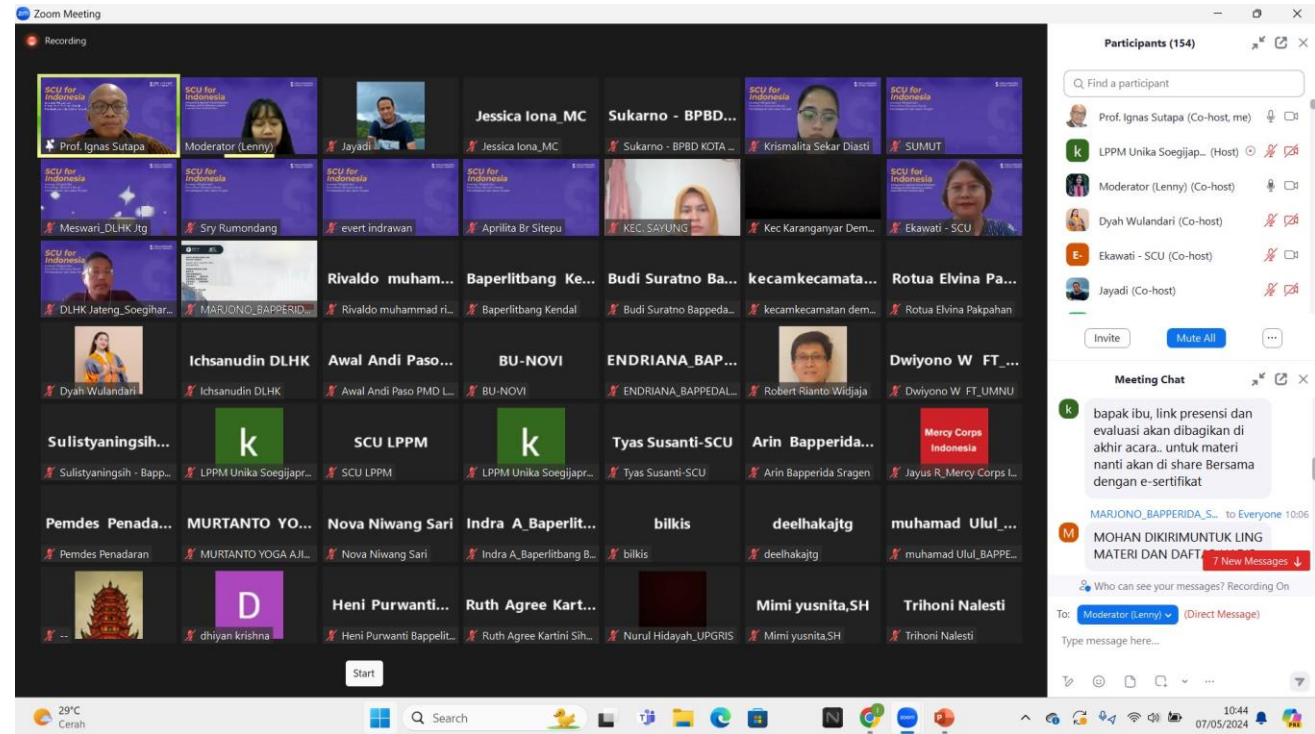
Maria Arum Juwitaning Tyas



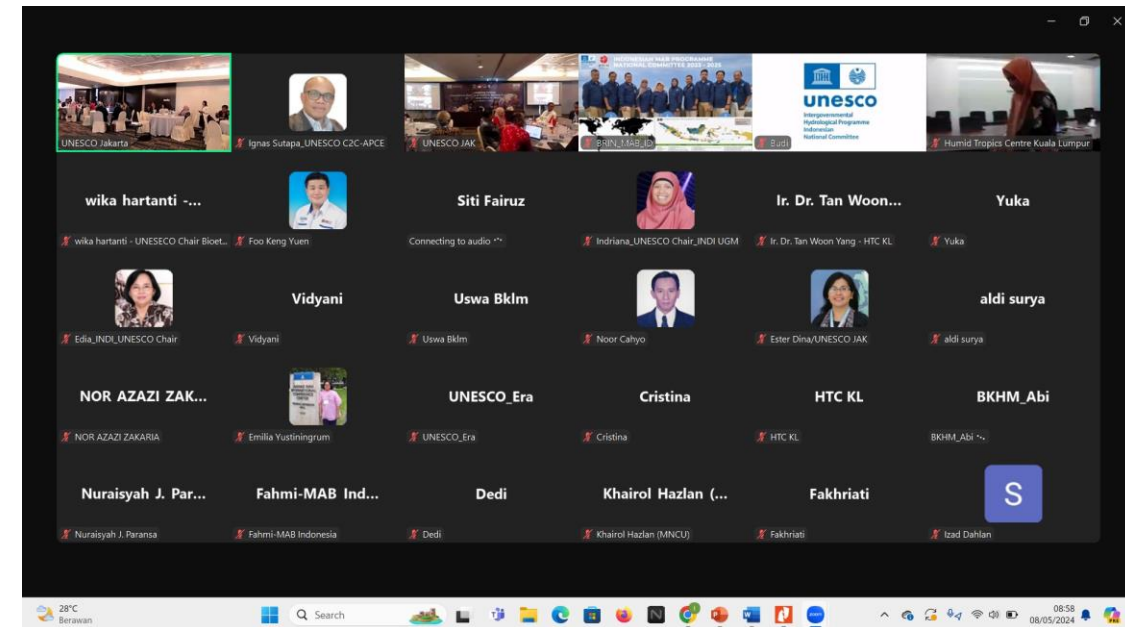
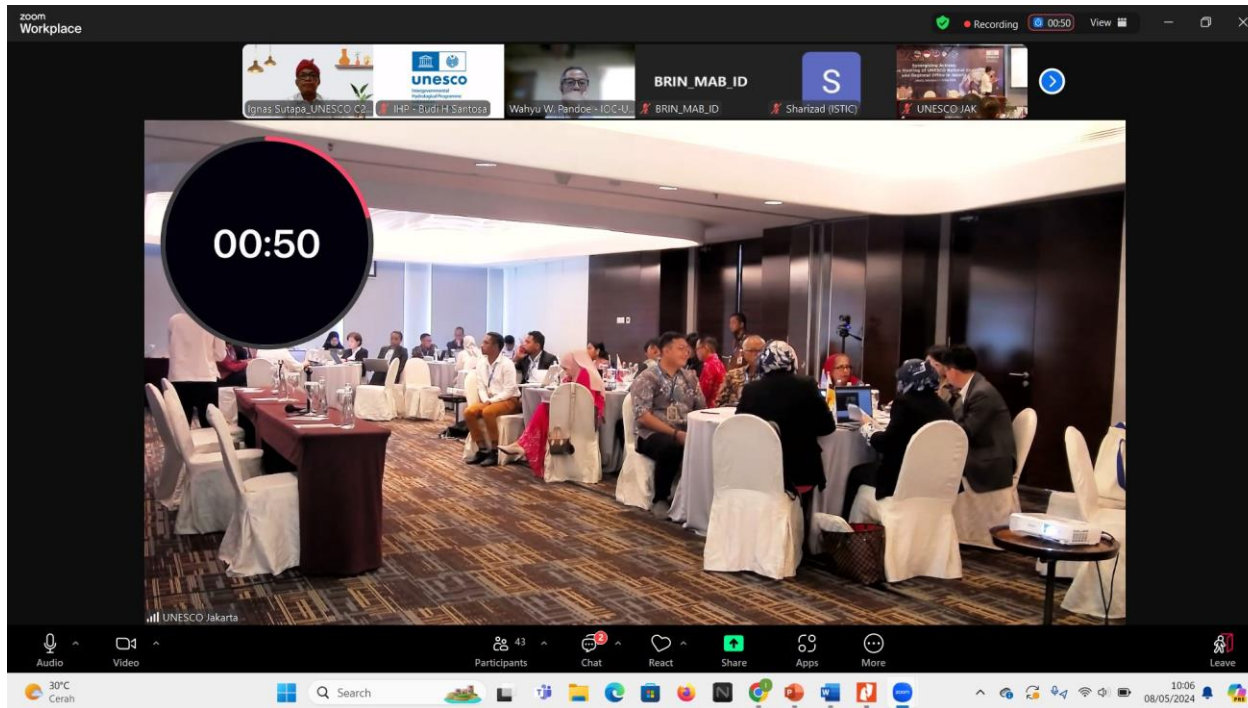
Pendaftaran:
<https://linktr.ee/WebinarFloodDisaster>

TOPIK:

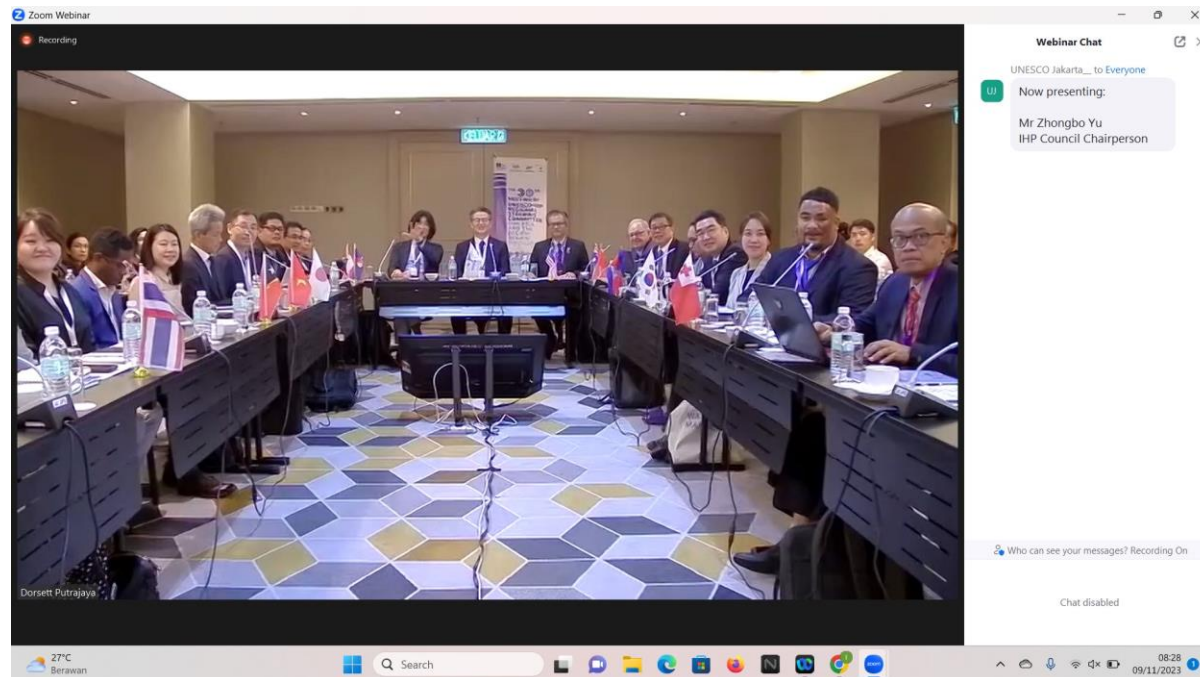
- Strategi Kebijakan Pembangunan Berkelanjutan untuk Wilayah Terdampak Banjir
Abdul Malik Sadat Idris, ST, M.Eng. (Director of Regional I BAPPENAS RI)
- Pengelolaan Sumber Daya Air yang Berkelanjutan untuk Mencegah Bencana Banjir
Prof. Dr. Ignasius DA Sutapa, M.Sc. (Vice Chairman of UNESCO IHP IX on Ecohydrology and Water Quality)
- Penanganan Banjir Jawa Tengah Bulan Februari 2024 oleh Pemerintah Provinsi Jawa Tengah
Widi Hartanto, S.T., M.T. (Kepala Dinas Lingkungan Hidup dan Kehutanan Provinsi Jawa Tengah)
- Peran Geographic Information System untuk Menghadapi Tantangan Banjir di Era Perubahan Iklim
Dr. Aris Ismanto (Dosen Universitas Diponegoro)
- Desain Rumah Apung untuk Resistansi Banjir di Kabupaten Demak
Dr. Ir. Robert Riyanto Widjaja, M.T., IAI. (Pusat Studi Manusia, Lingkungan, dan Teknologi SCU)
- Praktik Baik dalam Manajemen Persiapan Penanggulangan Bencana
Dyah Wulandari, S.Si., Ph.D. (Pusat Studi Wanita SCU)
- Dukungan Psikososial bagi Pengungsi Banjir Demak
Maria Arum Juwitaning Tyas (Center for Trauma Recovery SCU)



UNESCO National Committee Meeting 7-8, May 2024



UNESCO RSC IHP for Asia Pacific Region, November 2023



Join the Webinar with SCU 25 October 2023

SOEGIJAPRANATA CATHOLIC UNIVERSITY 

WEBINAR NASIONAL PROGRAM DOKTOR ILMU LINGKUNGAN
Strengthening Sustainable Water Resources to Support Quality of Life Improvement

bersama

Alexander Aur, SS., M. Hum
Dosen UPH, Mahasiswa Program Doktor Ilmu Lingkungan



Prof. Dr. Ignasius Dwi Afmana Sutapa, M. Sc
Vice Chairman of UNESCO IHP IX on Ecohydrology and Water Quality, Dosen Fakultas Ilmu dan Teknologi Lingkungan



Purwanta, ST
BBWS Pemali Juana, PUPR



Kondisi & Pengelolaan Air Bersih di Indonesia Timur. Tantangan Pengelolaan Air. Pengelolaan Air di Wilayah Kedungombo.

Rabu, 25 Oktober 2023
Pukul 09.00 WIB

Pendaftaran:
<https://tinyurl.com/daftarwebinarpdil251023>

Free e-Sertifikat!

www.unika.ac.id

Zoom Meeting

SOEGIJAPRANATA CATHOLIC UNIVERSITY

Unika SOEGIJAPRANATA
Tahap pertama dan kedua

WEBINAR NASIONAL PROGRAM DOKTOR ILMU LINGKUNGAN
Strengthening Sustainable Water Resources to Support Quality of Life Improvement

Participants (43)

Q. Find a participant

- Prof. Ignas Sutapa (Co-host, me)
- webinar22 Unika Soe... (Host)
- Alexander Aur_PDIL-U... (Co-host)
- Hs Sulistyanto (Co-host)
- operator (Co-host)
- PURWANTA (Co-host)

Invite Mute All

Meeting Chat

webinar22 Unika Soegijap... to Everyone 10:47

Materi narsum 2 (bp Alex)

webinar22 Unika Soegijap... to Everyone 10:47

Kondisi Air Bersih di Indon... 25.92 MB

Who can see your messages? Recording On

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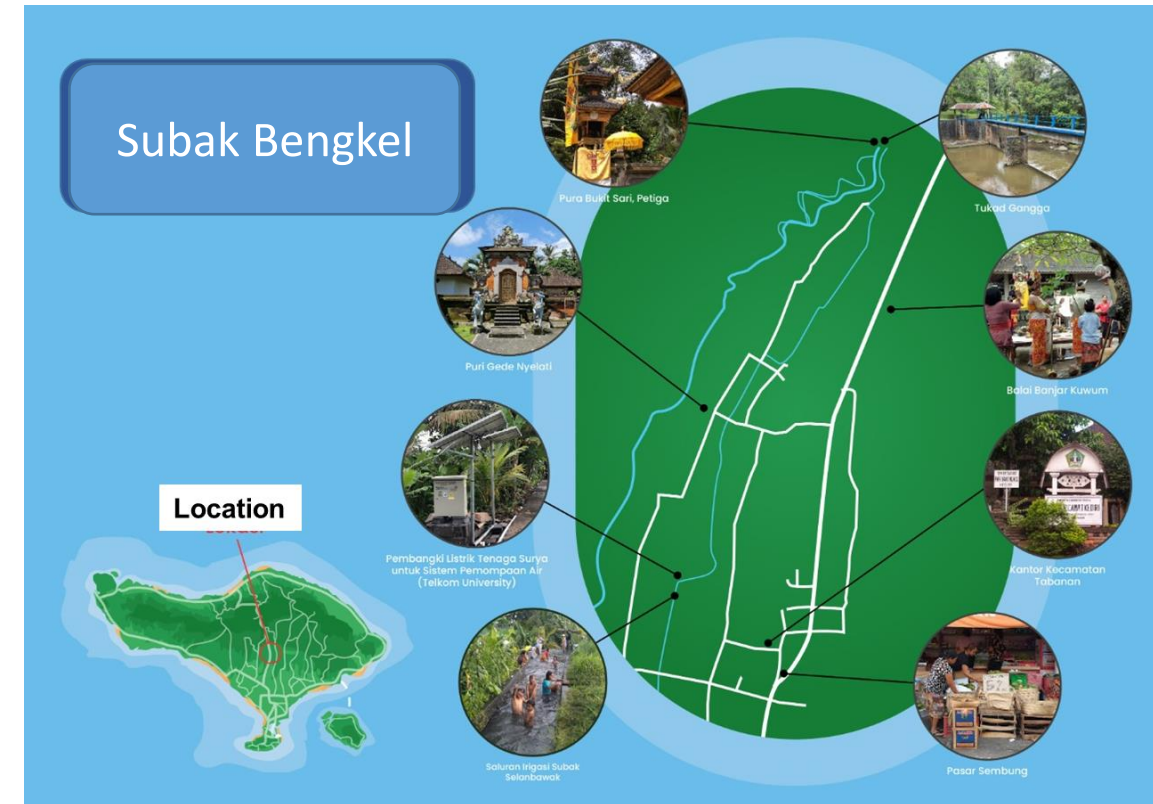
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Recent Activities

Subak Bengkel Tabanan towards UNESCO Ecohydrology Demonstration Site

- Subak is the water management system for the paddy fields and was enlisted as a World Cultural Heritage. One of the unique traditions and cultures still preserved in Bali island.
- Subak, nowadays, has severe challenges:
 - The use of chemicals affecting soil fertility;
 - Tourism activities encouraging land conversion;
 - Upstream development declining water quality;
 - The potential for natural disasters;
 - Climate change triggering rainfall fluctuation.
- Promoting Subak Bengkel Tabanan – Bali Province, Indonesia as a New UNESCO Ecohydrology Demonstration Site through:
 - Synergizing different resources inside Subak Bengkel Tabanan in an integrated farming system.
 - Managing land suitability for different plants and times throughout the year.
 - Using technologies for smart agriculture.
 - Replacing gradually the use of chemical fertilizers with eco-friendly and organic fertilizers
 - Integrating Subak management with Edu and ecotourism.



Subak Irrigation System



Water Inlet



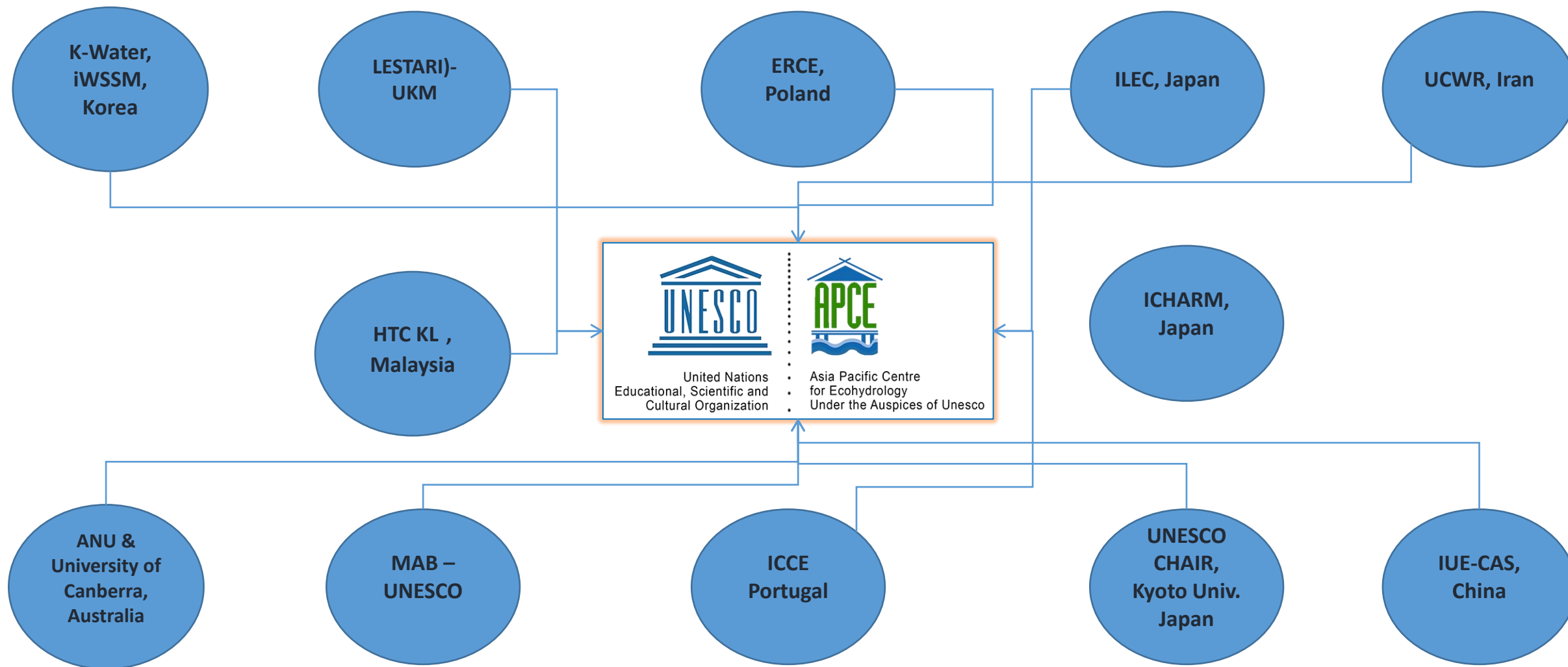
Organic Paddy Field



Established Networking of APCE among Others

Institutions	Host of International Events/Activities	Visibility
<div><div>1. HTC KL Malaysia</div><div>2. RCURBM Nigeria</div><div>3. Qanat Centre Iran</div><div>4. ICHARM Japan</div><div>5. ICCE Portugal</div><div>6. UNU Tokyo</div><div>7. Unesco Chair Wendi Kyoto</div><div>8. UTM Malaysia</div><div>9. USM Malaysia</div><div>10. UNIMOR</div><div>11. UPR</div><div>12. UGM</div><div>13. ULM</div><div>14. IPB</div><div>15. Kemenlu</div><div>16. KNIU</div><div>17. Indonesia Power</div><div>18. Balittra – Kementan</div><div>19. Balai Rawa – PUPR</div><div>20. BRG</div><div>21. GNRSI</div></div>	<div><div></div><div><div>1. International Webinar on Water, Food and Energy Security was held on July 2020</div><div>2. Join International Training on Water Resources Management for Young Professionals, in Laos on May 2019</div><div>3. International Training and Workshop on Water Quality and Emerging Pollutants was held in Jakarta, Indonesia on December 2018</div><div>4. International Training Course of Ecohydrology was held in Yogyakarta, Indonesia on August 2018</div><div>5. The 16th Word Lake Conference The 16th Word Lake Conference was held in Bali, Indonesia on November 2017</div><div>6. Hosting International Conference on Ecohydrology in conjunction with the 22nd IHP-RSC Meeting on November 11-14, 2014</div><div>7. International Workshop on New Ecohydrology Demonstration Site Projects. Jakarta, Indonesia, 21 – 23 March 2011.</div></div></div>	<div><div><div></div><div>Attend to 39th General Conference of UNESCO in Paris</div></div><div><div><div>Attend to Regional Steering Committee IHP Meeting</div><div></div></div></div></div>

APCE Collaboration with other Category II Centres and Chairs of UNESCO



Future Plan and Activities

- Facilitate training and capacity building on the ecohydrology concept related to six (6) focus areas: urban, watershed, peatland, traditional irrigation system, small island, arid and semi-arid zone.
- Support and promote establishing an ecohydrology demonstration site in six (6) focus areas.
- Facilitate research and publication activities and collaborations among UNESCO Water Family in the Asia Pacific Region.

Thank You...!