

DAY 1 (Dec. 1, 2011, Thursday)

Workshop/Registration/Welcome Reception
(Detailed program to be announced.)

DAY 2 (Dec. 2, 2011, Friday)

9:00-10:15	<p>Opening Ceremony Welcome Remarks Prof. Kazuo Yamamoto, Environmental Science Center, The University of Tokyo Dr. Monthip Sriratana Tabucanon, Senior Advisor, Senate Commission on Natural Resources and Environment, Parliament of Thailand</p> <p>Keynote Lectures Water Quality and Related Climate Change Issues Dr. Wijarn Simachaya, Inspector General, Ministry of Natural Resources and Environment Adaptation for Climate Change -Wise management of water now and future- Prof. Taikan Oki, Institute of Industrial Science, The University of Tokyo</p>
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10:15-10:45 Coffee Break

	Room A	Room B	Room C	Room D
10:45-12:00	<p>A1: Pollution with toxic compounds</p> <p>A1_1 C. Tushara A1_2 M. A. Pratama A1_3 B.T. Nga (L.V. Khoa)</p>	<p>B1: Challenges for sustainable water management <i>(supported by APIEL)</i></p> <p>B1_1 N. Gunasekara B1_2 P.S. Datta B1_3 K.M. Hassan</p>	<p>C1: Hydro-meteorological monitoring and prediction to climate change I <i>(supported by IMPAC-T)</i></p> <p>C1_1 D.P.Y. Suseno C1_2 K. Ono C1_3 K. Suwanprasert</p>	<p>D1: Wastewater systems</p> <p>D1_1 N. Nakagawa D1_2 A. Amano D1_3 S.J. Khan (S. Fatima)</p>

12:00-13:15 Lunch

13:15-14:30	<p>A2: Lake environment</p> <p>A2_1 M. Sakai A2_2 A. Satya A2_3 S.K. Weragoda</p>	<p>B2: Public awareness of water issues <i>(supported by APIEL)</i></p> <p>B2_1 I. Inagaki B2_2 M.R.A. Moghaddam B2_3 R. Palanca-Tan</p>	<p>C2: Anthropogenic interventions on water quantity and quality <i>(supported by IMPAC-T)</i></p> <p>C2_1 C. Ekkawatpanit C2_2 D. Komori C2_3 K. Hagiwara</p>	<p>D2: Membrane technologies and water reuse 1</p> <p>D2_1 C. Ratanatamskul D2_2 M.S. Jami D2_3 A.A. Khan</p>
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14:30-15:00 Coffee Break

15:00-16:40	<p>A3: Water environment</p> <p>A3_1 S. Shrestha A3_2 D.T. Nga A3_3 A.B. Santoso</p>	<p>B3: Habitation and water systems <i>(supported by APIEL)</i></p> <p>B3_1 P. Sudjono B3_2 T. Chaosakul B3_3 K. Harriden</p>	<p>C3: Hydro-meteorological monitoring and prediction to climate change II <i>(supported by IMPAC-T)</i></p> <p>C3_1 S. Ritphring C3_2 A. Sudradjat C3_3 A. Kawamura C3_1 T. Oki</p>	<p>D3: Membrane technologies and water reuse 2</p> <p>D3_1 V. Boonyaroj D3_2 L. Bautista-Patacsil D3_3 T.T.V. Nga, D3_4 S. Chitapornpan</p>
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16:40-18:00 Poster Session

18:00-18:30 Break

18:30- Symposium Dinner

DAY 3 (Dec. 3, 2011, Saturday)

8:30-10:10	<p>A4: Groundwater pollution</p> <p>A4_1 M. Kumar A4_2 T. Nakamura A4_3 Y. Wijayanti A4_4 W. Nailly</p>	<p>B4: Wastewater treatment</p> <p>B4_1 A. Gopakumar B4_2 R. Rajagopal B4_3 P. Mondal (C. B. Majumder) B4_4 B. Andreas</p>	<p>C4: Hydrological models</p> <p>C4_1 D.N. Khoi C4_2 K. Temur C4_3 S. Manandhar C4_4 S. Wahyuni</p>	
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10:10-10:30 Coffee Break

10:30-12:10	<p>A5: Health related microorganisms</p> <p>A5_1 J. Price A5_2 T. Imai A5_3 S. Threedeach A5_4 R.R. Dash (R.R. Dash)</p>	<p>B5: Phytoremediation</p> <p>B5_1 A.R. dos Reis B5_2 M. Milintawisamai B5_3 R.A. Kristanti B5_4 H. Matsuzawa</p>		
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12:10-12:30 Break

► **A1 Pollution with Toxic Compounds**

- A1_1 Evaluation of Pharmaceutical and Personal Care Products (PPCPs) in Downstream of Chao Phraya and in Raw Sewage in Thailand**
Tushara Chaminda G.G. , Hiroaki Furumai, Variga Sawaittayotin*
- A1_2 Identification and Level of Organochlorine Pesticide Contamination in Groundwater of Upper Citarum River Watershed**
Mochamad Adhiraga Pratama , Katharina Oginawati, Suphia Rahmawati, Minoru Yoneda*
- A1_3 Arsenic Pollutions in Surface Water at Main Rivers in the Mekong Delta, Vietnam**
Bui Thi Nga , Co Thi Kinh, Le Van Khoa⁺*

► **B1 Challenges for sustainable water management**

- B1_1 Water Conflict Vulnerability of Mekong Countries in the Near Future**
N.K.Gunasekara , S. Kazama, D. Yamazaki , T. Oki*
- B1_2 Ensemble Approach to Assess Climate Change and Groundwater Situation**
Partha Sarathi Datta
- B1_3 Sustainable Water Resource Management in Bangladesh: A Great Challenge**
Khondoker Mahbub Hassan , Kensuke Fukushi*

► **C1 Hydro-Meteorological Monitoring and Prediction to Climate Change**

- C1_1 Cloud Type Classification for Improving Storm Rainfall Estimation with Satellite Based Infrared Information**
Dwi Prabowo Yuga Suseno , Tomohito J. Yamada*
- C1_2 Extreme Daily Rainfall in Thailand Using a Gridded Daily Rainfall Data Set: A Frequency Analysis with 6 Types of Plotting Position Formula**
Keisuke Ono , So Kazama*
- C1_3 Validation of GSMaP Rainfall Estimates with Local Rainfall Gauge in Thailand**
Kalyanee Suwanprasert , Shinta Seto, Sudsaisin Kaewrueng*

► **D1 Wastewater Systems**

- D1_1 Environmental Assessment of a Urine Diversion System Concerning Environmental Load Reduction at Highway Service Areas in Japan**
Naoko Nakagawa , Akira Kawamura, Hideo Amaguchi*
- D1_2 Effective Use of Flood Water for Agriculture by Inundation Ponds in the Lower Mekong River Basin**
A. Amano , S. Kazama, K. Nagai, T. Chanon*
- D1_3 Evaluating the Treatment Performance of a Full Scale Activated Sludge Plant in Islamabad, Pakistan**
*Sumaira S. Fatima⁺ , Sher Jamal Khan**

► **A2 Lake Environment**

- A2_1 Time Trends of Concentrations and Sources of Polychlorinated Biphenyls in Lagoon Sediment, Niigata, Japan**
Mizuki Sakai , Jun Kobayashi, Nobuyasu Seike, Yukio Takahashi*
- A2_2 Assessment of Lead and Cadmium Bioaccumulation Level in Phytoplankton at Several Shallow Lakes of Bogor Regency, Indonesia**
Awalina-Satya , Ridla Bakri, Dede Irving Hartoto, Tjandra Chrismadha, Fachmijany Sulawesty*
- A2_3 Tropical Application of Floating Wetlands for Lake Restoration**
S.K.Weragoda , K.B.S.N. Jinadasa, Dong Qing Zhang, Soon Keat Tan, Norio Tanaka, Ng Wun Jern*

► **B2 Public awareness of water issues**

- B2_1 Involving Public Perception Data in the Evaluation of the Community Awareness about Urban Floods**
Ichiko Inagaki , Dian Sisinggih, Sri Wahyuni, Ratih Indri Hapsari, Satoru Oishi, Kengo Sunada*
- B2_2 High School Students' Awareness Regarding Nitrate Pollution in Nitrate-Polluted Area: A Case Study From Tehran, Iran**
M. M. Azadegan, M. R. Alavi Moghaddam , R. Maknoon*
- B2_3 Designing a Raw Water Fee Scheme as a Groundwater Conservation Strategy for Cagayan de Oro, Philippines**
Rosalina Palanca-Tan

► **C2 Anthropogenic interventions on water quantity and quality**

C2_1 Sensitivity Analysis of Land Surface Parameters Using H08 Model

Chaiwat Ekkawatpanit, Adisorn Champathong, Somkid Saphaokham, Thada Sukkapan, Jaray Thongduang, Santi Sumdin, Chatchai Chaiyasaen, Naota Hanasaki*

C2_2 Data Quality Control and Assurance (QCQA) on Eddy Covariance Flux Measurement by the Fractional Uncertainty Analysis

Daisuke Komori, Wonsik Kim, Amnat Chidthaisong, Vanisa Surapipith, Wilaiwan Sompoon, Korakod Nusit, Panya Polson, Montri Sanwangsri*

C2_3 Assessment of Energy Crop Potentials in Global and Southeast Asia

Kensuke Hagiwara, Naota Hanasaki, Shinjiro Kanae*

► **D2 Membrane Technologies and Water Reuse 1**

D2_1 Biological Nutrient Removal Using Anoxic-Anaerobic-Aerobic Membrane Bioreactor (A3-MBR) System for High-Rise Building Wastewater Recycling

C. Ratanatamskul, N. Glingeysorn, K. Yamamoto*

D2_2 Efficient Hybrid Membrane System in Palm Oil Mill Effluent Quality Improvement for Water Reuse

Mohammed S. Jami, Suleyman A. Muyibi, Munirat A. Idris*

D2_3 Retrofitting CFID with UASB for Sewage Treatment and Reuse

► **A3 Water Environment**

A3_1 Chemical Characteristics of Bulk Precipitation in Urban, Semi-Urban and Rural Areas of Kathmandu Valley, Nepal

Sujan Shrestha, Sangam Shrestha, F. Kazama*

A3_2 Importance of Uncertainty Analysis in Adapted Material Flow Analysis to Evaluate Nutrient Flows in Day – Nhue River Basin, Vietnam

Nga Do-Thu, Yasushi Sakamoto, Fubata Kazama and Kei Nishida*

A3_3 CO₂ Emission and Sink in Java Eutrophic Shallow Lakes

Arianto B. Santoso, Sulung Nomosatryo, Chyntia Henny*

► **B3 Habitation and Water Systems**

B3_1 A Method to Improve Water Supply and Sanitation in a Vernacular Settlement Based on System Interrelationship Model: A Case Study in Kampong Naga

Priana Sudjono, Gumilang Nudianti*

B3_2 Application of Low Impact Development (LID) Scenarios to Assess Drainage Improvements and Combined Sewer Overflow Reduction: A Case Study of Rattanakosin Village, Thailand

T. Chaosakul, J. Bowles, S. Rattanakul, N. Pradhan, W. Simphan, A. Ghimire, K. Wilaingam, L.M. Truong, T.V. Nguyen, T. Pussayanavin, N. Proysurin, S. Singjan, V. Longaphai, S. N. Kalaimathy, T. Koottatep, K.N. Irvine, J. Price*

B3_3 Identifying the Impacts of Slum Urbanisation on River Processes

Kate Harriden

► **C3 Hydro-Meteorological Monitoring and Prediction to Climate Change II**

C3_1 Coastal Erosion and Sea-Level Change in the Lower Gulf of Thailand

Sompratana Ritphring, Kirapak Pucharapitchakon and Keiko Udo*

C3_2 The Co-Variability of Annual Global Monsoon Precipitation and Surface Temperature

Arief Sudradjat, Arnold Gruber, John Janowiak, Ralph R. Ferraro*

C3_3 Trend Detection in Groundwater Levels in Hanoi, Vietnam, by the Mann-Kendall Test

Akira Kawamura, Duong Du Bui, Hideo Aaguchi and Naoko Nakagawa*

C3_4 New Challenges on Hydro-Meteorological Prediction and Adaptation to Climate Change in Thailand

Taikan Oki, Nontawat Janjaroen, Somchai Baimoung, Phonchai Klinkachorn, Daisuke Komori, Masashi Kiguchi*

► **D3 Membrane Technologies and Water Reuse 2**

D3_1 Removal of Organic Micro-Pollutants and Bio-Toxicity from Municipal Solid Waste Landfill Leachate in Two-Stage Membrane Bioreactor

V. Boonyaroj, C. Chiemchaisri*, W. Chiemchaisri, S. Theeparaksapan, K. Yamamoto*

D3_2 Biodegradation of 17 β -Estradiol (E2) in a Lab-Scale Membrane Bioreactor: Effect of Initial Concentrations on Degradation Kinetic

Liza Bautista-Patacsil, Analiza P. Rollon, Jianguyong Hu*

D3_3 Application of Membrane Bio-Reactor for Treatment of Domestic Wastewater from Combined Sewer System in Hanoi City

Tran Thi Viet Nga, Tran Hoai Son*

D3_4 The Treatment of Food Processing Wastewater by Photosynthetic Bacteria in Sequencing Batch and Membrane Photo-Bioreactors

Chitapornpan S.⁺, Chiemchaisri C.^{}, Chiemchaisri W., Honda R., Yamamoto K.*

► **A4 Groundwater Pollution**

A4_1 Saline Groundwater in the National Capital Territory Delhi: Clues to its Origin and Evolution

M. Someshwar Rao, Manish Kumar^{}, Bhishm Kumar*

A4_2 Nitrate Contamination and Denitrification in Shallow Groundwater of Kathmandu Valley, Nepal

Takashi Nakamura^{}, Ken'ichi Osaka, Kei Nishida, Saroj K. Chapagain, Yuki Hiraga, Futaba Kazama*

A4_3 Characterization of Groundwater Pollutants by Using Stable Isotopes and Ions in Alluvial Fan in Eastern Kofu Basin, Japan

Yureana Wijayanti^{}, Yasushi Sakamoto*

A4_4 Analysis of Chloride Ions in Groundwater Near Former Cicabe Waste Disposal Site

Wilda Nailly^{}, Idris Maxdoni Kamil*

► **B4 Wastewater Treatment**

B4_1 Evidence of Heterotrophic Anoxic Nitrification Using Seed Biomass From Activated Sludge Process

Anjali Gopakumar^{}, P.C. Sabumon*

B4_2 Anaerobic Co-Digestion of Brown Water and Food Waste in Decentralized and Source-Separation-Based Sanitation Concepts

Rajinikanth R.^{}, Jun Wei L, Ben W, Ajay M, Mao Yu, Harley Chia, Wang JY, Stegmann R*

B4_3 Removal of Zinc from Water Using Fruit Peels: Kinetics and Equilibrium Analysis

J. Kumar, P. Mondal^{}, C. B. Majumder⁺*

B4_4 Effects of Acid-Pretreatment of Inoculums and Substrate Concentration for Batch Thermophilic Biohydrogen Production from Starch-Rich Synthetic Wastewater

Billy Andreas^{}, Ilona S. Horvath, Khamdan Cahyari, Tjandra Setiadi*

► **C4 Hydrological Models**

C4_1 Quantifying the Uncertainty in Climate Change Impacts on Streamflow in Be River Catchment, Vietnam

Dao Nguyen Khoi^{}, Tadashi Suetsugu*

C4_2 Web-Based, Geographical Platform for Hydrological Data Management

Temur Khujanazarov^{}, Yutaka Ichikawa, Jun Magome, Satoru Oishi*

C4_3 Application of YHyM/BTOPMC to Simulate Runoff in the Kali Gandaki River Basin (KGRB) at Western Nepal

Sujata Manandhar^{}, Vishnu Prasad Pandey, Hiroshi Ishidaira, Futaba Kazama*

C4_4 The Study on the Future Condition of Aydarkul-Arnasay-Tuzkan Lake System Due to Reducing Inflow from Chardara Reservoir

Sri Wahyuni^{}, Satoru Oishi, Kengo Sunada, Kristina Toderich*

► **A5 Health Related Microorganisms**

A5_1 Surface Water Quality and Risk Analysis in a Peri-Urban Area, Thailand

J. Price^{}, T. Chaosakul, N. Surinkul, J. Bowles, S. Rattanakul, N. Pradhan, W. Simphan, A. Ghimire, K. Wilaingam, L. M. Truong, T.V. Nguyen, T. Pussayanavin, N. Proysurin, S. Singjan, V. Longaphai, S.N. Kalaimathy, T. Koottatep, K.N. Irvine*

A5_2 Inactivation of Bacteriophage in Wastewater Treatment Plant by High Level Dissolved CO₂ Water

Xuehang Cheng, Tsuyoshi Imai^{}, Mami Hirose, Jantima Teeka*

A5_3 Occurrence of Antibiotic Resistant *Escherichia Coli* in Leachates From Municipal Solid Waste Landfill in Thailand

Simanata Threedeach⁺, Wilai Chiemchaisri^{}, Toru Watanabe, Chart Chiemchaisri, Ryo Honda, Kazuo Yamamoto*

A5_4 Evaluation of Water Quality at a Riverbank Filtration Site along the Upper Course of the River Ganga, India

Rakesh Roshan Dash^{}, Rajesh Roshan Dash⁺, Pradeep Kumar, Indu Mehrotra*

► **B5 Phytoremediation**

B5_1 Biological Fenton's Oxidation of Pentachlorophenol By Aquatic Plants

Andre Rodrigues dos Reis⁺, Yukako Kyuma, Yutaka Sakakibara^{}, Sutiab Srilachai and Mesak Milintawisamai*

B5_2 Degradation of New Emerging Organic Contaminants by Peroxidase Enzyme of Aquatic Plant and Potential of Water Quality Improvement by Phytoremediation

Mesak Milintawisamai^{}, Sutiab Srilachai, Rungaroon Suksamran, Chatsakol Thanadilok, Andre dos Reis, Yutaka Sakakibara*

B5_3 Rhizoremediation of 4-n-Butylphenol Using *Phragmites Australis* (Common Reed)

Risky Ayu Kristanti^{}, Tadashi Toyama, Yasuhiro Tanaka and Kazuhiro Mori*

B5_4 Enhancement of Remediation Activity of *Spirodela Polyrrhiza* with Inoculation of Persistent Pollutants Degraders into the Rhizosphere

Hiroaki Matsuzawa^{}, Yasuhiro Tanaka, Takeshi Furuya, Tadashi Toyama, Kazuhiro Mori*

- P01 Post Treatment of Effluent from Oxidation Ditch by Sand Filtration**
Rajesh Roshan Dash^{}, Puspendu Bhunia, Rakesh Roshan Dash*
- P02 Characteristics of Floes Formed By Cationic Polyelectrolytes for the Removal of Humic Acid in Water**
Hyun-Woo Park, Ung-Jun Hyun, Sang-Kyu Kam^{}, Min-Gyu Lee*
- P03 Phosphate Recovery by Porous Silica Material Modified MgAl- Double Hydroxide Nanoparticles Layered**
Variga S^{}, Ryo Honda, Kazuo Yamamoto*
- P04 Profiling the Production of Acetic and Propionic Acids in Acidogenic Fermentation of Palm Oil Mill Effluent – A Preliminary Study**
Wee Shen Lee⁺, Adeline Seak May Chua^{}, Hak Koon Yeoh, Gek Cheng Ngoh*
- P05 Acid Black 172 Dye Removal Using Electrocoagulation Process: Optimization through Response Surface Methodology**
M.Taheri, M.R. Alavi Moghaddam^{}, M.Arami*
- P06 Two Stage Anaerobic-Aerobic Treatment of Synthetic Wastewater Containing High Concentration of Acid Red 18**
E. Hosseini Koupaie, M. R. Alavi Moghaddam^{}, S.H. Hashemi*
- P07 Effect of Initial Dye Concentration on Performance of Anaerobic/Aerobic Sequencing Batch Reactor**
M. Hakimelahi, M. R. Alavi Moghaddam^{}, H. Hashemi*
- P08 Evaluation of Hydrogen Production in Mixed Culture Dark Fermentation for Energy Recovery in DeSar System**
J. Kaewsuk⁺, S. J. Jeong, T. S. Lee, G. T. Seo^{}*
- P09 Efficiency of Wastewater Treatment in Stabilization Ponds at Different Season**
Pourkhabbaz AR^{}, Pourkhabbaz HR, Hashemimoghadam M, Ahrari F*
- P10 Monitoring of Industrial Wastewater Treatment Plant Effluent Using Toxicity Parameter**
Indah R S Salami^{}, S. Christania, A.D. Utami*
- P11 Heavy Metal Bioaccumulation in *Liposarcus pardalis* as Biomarker at Citarum Stream (Case Study: Bantarpanjang Watershed – Citarum River)**
Dwina Roosmini^{}, Hieronimus Indra Prasetyo*
- P12 Determination of Microbiological Parameters as One Parameter of the Critical Point and Critical Control Point in Water Safety Plans(wsp) Case Study: Dago Pakar Water Treatment, Bandung, Indonesia**
Katharina Oginawati^{}, Christian RR Hutapea, Mochamad Adhiraga Pratama*
- P13 Contribution of Upstream Non-Point Pollution to Water Quality of Lake Chinyang, Korea**
C. S. Lee^{}, G. T. Seo, B.H.Moon, C. H. Yoon, J.W. Lee, J.K. Lee*
- P14 Effect of Inland and Coastal Regions on Rainwater Characteristic in Gyeongsangnamdo, Republic of Korea**
Han C. B.^{}, Lee T. S., Seo G. T., Jutamas Kaewsuk,*
- P15 Comparative Study Illustrating the Major Ion Characteristics of High Altitude Lakes of India and Europe**
Sangeeta Singh, Goman Tayeng, Rahul Choudhury & Manish Kumar^{},*
- P16 Nitrate Contamination of Shallow Groundwater in Mangalpur VDC of Chitwan District, Nepal**
Saroj Kumar Chapagain^{}, Takashi Nakamura, Rabin Malla, Futaba Kazama*
- P17 Development of the In situ Permeability Control (Reduction / Restoration) Method Based on the Microbial Functions**
Tamami Yokoyama⁺, Shizuki Arai, Kenya Asano, Toshiro Hata^{}*
- P18 Evaluation of an In-situ Permeability Control Method Based on Microbial Functions, Applicable to Coastal Region**
Shizuki Arai⁺, Tamami Yokoyama, Toshiro Hata^{}*
- P19 Improving Quality of Life of Bangkok'S Citizen Through Sustainable Water Use and Management**
Arindam Biswas^{}, Varinthorn Boonyaroj, Thuangsit Denpetkul, Huang Zhirong, Hiroyuki Kobayashi, Kyoungjin An, Tomomi Hoshiko, Ryo Honda*

- P20 Evaluation of Urban Water Quality and Public Perception for Sustainable Water Use - A Case Study in Nonthaburi Province, Thailand**
Hiroyuki Kobayashi, Kazuo Yamamoto, Kensuke Fukushi, Fumiya Nakajima, Ryo Honda*
- P21 Impact of River Sand Mining on Riverside Community in Southern Sri Lanka**
Ranjana. U. K. Piyadasa, K. D. N. Weerasinghe, W.A.D.C.S. Weerasinghe*
- P22 Challenges and Opportunities for Achieving Sustainable Urban Water Use and Management in Bangkok 2030: Proposal for Sustainability Indicators**
Rajendra Khanal, Chiheng Chu, Sundara Nadarajah Kalaimathy, Phattharamat ThiamngoenP, Nopparat Patchanee, Kyoungjin An, Tomomi Hoshiko, Ryo Honda*
- P23 A Framework for Analysis of Wastewater Management System in Bangkok Metropolitan Area Using Sustainability Indicators**
Anish Ghimire, Kelly Franklin, Sun Chen, Jarungwit Boonnorat, Pradthana Prommetjit, Kyoungjin An, Tomomi Hoshiko, Ryo Honda*
- P24 Stormwater Harvesting and Reuse: Water Quality and Treatment Performance**
S. Vigneswaran, J. Kandasamy⁺*
- P25 Unsanitary Use of Treated Wastewater for Agriculture in Northeast Thailand**
Sutiab Srilachai, Natchai Chaipongnares, Jittima Jarudacha, Mesak Milintawisamai, Ryo Honda*
- P26 Rainwater Harvesting Potential in the Housing Colonies of Urban Valley of Nepal**
Manisha Sthapit, Sangam Shrestha, Prakash Amatya*
- P27 Sensitivity Tests of Cropping Parameters for Rice Yields Using H08 Model**
Adisorn Champathong, Santi Sumdin, Chatchai Chaiyasaen, Chaiwat Ekkawatpanit, Jaray Thongduang, Thada Sukkapan, Somkid Saphaokham, and Naota Hanasaki*
- P28 Validation of Long Term Runoff Analysis in Snow Area, Japan**
Shunsuke Kashiwa, Yoshihiro Asaoka, So Kazama*
- P29 Optimal Policy and Cooperation of International Society about Climate Change: Focusing on Adaptation and Mitigation**
Tomonori Kanazawa, Aki Katori, Taikan Oki*
- P30 The Rainfall Prediction of 15-Day Lead Time in Central Vietnam Using the Wavelet Banding Method**
Go Hirochi, Yukiko Imada, Yoshihiko Iseri, Shinjiro Kanae*
- P31 Developing Satellite Remote Sensing Measurement Methods and Constructing a Database of Mountain Glaciers in Bolivia**
Megumi Watanabe, Kazunari Nakano, Yukiko Hirabayashi, Seiki Kawagoe, Yoshihiro Asaoka, Shinjiro Kanae*
- P32 Estimation of River Discharges With MODIS Data**
Jiro Kakehashi, Kazuo oki, Kohei Hashimoto, Panya Polsan, Shinichiro Nakamura, Daisuke Komori, Taikan Oki*
- P33 Formation of a Line-Shaped Rainfall and It's Environment Observed in Niigata-Fukushima on July 2011**
Takuya Wada, Tomohito J. Yamada, Dwi Prabowo Yuga Suseno*
- P34 The Impact of Climate Change on the Storage of the Sameura Dam Reservoir**
Kiyohara Shiraha, Yoshihiko Iseri, Kazumasa Fujimura, Shinjiro Kanae*
- P35 Estimation of Glacier Mass Change in Himalaya Alpine Region Inferred from GRACE Satellite Gravimetry**
Orie Sasaki, Hyungjun Kim, Yukiko Hirabayashi, Hannah Glenys Yamada, Shinjiro Kanae*
- P36 Stochastic Evaluation of Risk for Near-Future Typhoon in the Asia-Pacific Region**
Keisuke Kusuhara, Yukiko Imada, Yoshihiko Iseri, Masato Mori, Shinjiro Kanae*
- P37 The Change in Frequency of Extreme Daily Precipitation Events Associated with Tropical Cyclones in Asia-Pacific**
Tomoko Sato, Yukiko Imada, Shinjiro Kanae*
- P38 Investigation Z-R Relationship of Precipitation Characteristic by Weather Radar in Thailand**
Nattapon Mahavik, Takehiko Satomura, Somchai Baimuang*
- P39 Filipinos' Perception about Flood Warning Systems and Their Behavior Towards Early Evacuation**
Cherry May R. Mateo, Taikan Oki*
- P40 Characteristics of Runoff on Urban Watershed in Jeju Island, Korea**
Sung-Kee Yang, Woo-Yeol Jung, Sung-Yong Ko*