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**Welcome Message** 

**President of the Pusan National University** 

Distinguished scholars, honorable guests, and ladies and gentlemen.

On behalf of Pusan National University, I warmly welcome everyone participating in the second symposium of the Benthological Society of Asia at Pusan National University. We realize that rapid industrial and economic development in the latter half of the previous century produced ubiquitous stress and disturbance in the World, especially in Asia. While we are enjoying economic benefits, we are also facing stress and disturbance. Especially aquatic ecosystems are vulnerable to disturbance and water quality maintenance is critical to daily life.

Benthology, to my understanding, is one of the key academic regimes directly related to aquatic ecosystem conservation and water quality management. Presentations and discussions shared among the members during the symposium will contribute to addressing importance of ecological integrity in ecosystem

management and conservation of nature.

I sincerely hope that this conference will help to establish scholarly and personal links among the participants. Also enjoy Korean culture while you stay in Busan.

Thank you so much!

Date: June 5, 2014

Ki-Seob Kim

**President, Pusan National University** 

### **Welcome Message**

#### from President of BSA

On behalf of the Local Organizing Committee, I am very pleased to welcome all of you to The 2<sup>nd</sup> Symposium of Benthological Society of Asia (BSA) at Pusan National University. We remember the successful opening of the first BSA symposium in Matsumoto, Japan, 2012, and are very happy to host the second symposium in Busan, Korea. Under the theme of "Aquatic Ecosystem Assessment and Management: from Molecules to Communities", we will exchange new ideas in benthology and discuss about future development of aquatic ecosystem management. Along with two special sessions on assessment and molecular biology, and a workshop on taxonomy, we will have sessions in a broad scope biological monitoring. conservation, including management, systematics. biodiversity, community dynamics, physiology, and behavior.

We are especially honored to have plenary speakers, Dr. Robert (Bob) M. Hughes, President of American Fisheries Society, Professor Jane M. Hughes, Griffith University, Australia, and Professor Mutsunori Tokeshi, Kyushu University, Japan. Also I am more than happy to meet organizers and steering committee members, distinguished scholars, and fellow researchers, after traveling such a long distance to participate in this symposium in Korea.

We owe special thanks to our sponsors: Pusan National University, Institute of Environmental Studies, Institute for Basic Science, Research Group for Longevity and Marine Biotechnology, Institute of Environmental Technology and Industry. We also appreciate greatly for the support from National Institute of Biological Resources, The Entomological Society of Korea, The Korean Society of Applied Entomology, Korean Society of Limnology, and The Korean Society of Systematic Zoology.

We anticipate all of you build up good friendships here in Busan and enjoy beautiful sceneries as well as culture in Korea.

Date: June 5, 2014

Tae-Soo CHON
President, Benthological Society of Asia

### **Organizers and Steering Committee**

Yeon Jae BAE (Korea University, Korea)
Tae-Soo CHON (Pusan National University, Korea)
Narumon SANGPRADUB (Khon Kaen University, Thailand)
Kazumi TANIDA (Osaka Prefecture University, Japan)
Koji TOJO (Shinshu University, Japan)
Xinhua WANG (Nankai University, China)

#### **Local Organizing Committee**

Tae-Soo CHON (Chair, Pusan National University)
Yeon Jae BAE (Korea University)
Gea-Jae JOO (Pusan National University)
Dong-Soo KONG (Kyonggi University)
Sung-Cheol KOH (Korea Maritime and Ocean University)
Ihn-Sil KWAK (Chonnam National University)
Young-Seuk PARK (Kyung Hee University)
Mi-Young SONG (Inland Fisheries Research Institute)
Ho Young SUK (Yeungnam University)

#### **Secretarial Staff**

Kyung-Im JUNG (Pusan National University)
Dong-Hwan KIM (Pusan National University)
Sang-Bin LEE (Pusan National University)

### **Plenary Speakers**



Robert (Bob) M. Hughes

President, American Fisheries Society, USA

Time - 1:10 pm, June 5

Title - Bioassessment in Water Resources Management: Use of Macroinvertebrate Assemblages for Assessing Ecological Conditions across Large Regions

E-mail: hughes.bob@amnisopes.com



Jane M. Hughes

Professor, Griffith University, Australia

Time - 9:00 am, June 6

Title - Molecular Approaches to Answering Ecological and

**Evolutionary Questions** 

E-mail: jane.hughes@griffith.edu.au



**Mutsunori TOKESHI** 

Professor, Kyushu University, Japan

Time - 1:30 pm, June 6

Title - Resource Use, Patchiness and Complexity: How Do

Benthos Coexist in a Community?

E-mail: tokeshi@ambl-ku.jp

## **Program**

### **Oral Presentation**

### June 5, 2014 (Thursday)

	pm – 2:00 ן ary Talk	pm, Grand Hall Robert (Bob) M. HUGHES Chair: Tae-Soo CHON
2:00 pm – 3:40 pm, Grand Hall Special Session 1 Perspective of Riverine Biomonitoring and Benthic Macroinvertebrates in East Asia Chair: Tatyana VSHIVKOVA and Kazumi TANIDA		
	2:00 pm	Introduction <u>Tatyana S. VSHIVKOVA</u>
O01	2:05 pm	Recent trends of riverine biomonitoring and relating matters in Japan Kazumi TANIDA
O02	2:20 pm	Current status and perspectives of riverine biomonitoring in Korea <u>Young-Seuk PARK</u>
O03	2:35 pm	Development and application of an integrated river health assessment in Taizi River, northeast China <u>Xiaodong QU</u>
O04	2:50 pm	Ecological quality of concreted and unlined sections of a disturbed stream network in Yuen Long, Hong Kong  Pattiyage I. A. GOMES and Onyx W. H. WA
O05	3:05 pm	Assessing biotic integrity in Singaporean reservoirs: development of a benthic index based on a weighted average approach <a href="Yakuta BHAGAT">Yakuta BHAGAT</a> , Esther CLEWS, Yong Tze HO and Marta BOIX-CANADELL
O06	3:20 pm	Implementation of modern bioassessment technology to monitoring of transboundary river basins in the Russian Far East: Tumangan (Tumen-Ula) and Razdolnaya Rivers (Suifun-He)  Tatyana S. VSHIVKOVA, N.V. KRASNOSLOBODTZEV and Larisa A. PROZOROVA
	3:35 pm	Conclusions <u>Kazumi TANIDA</u>

3:40 pm – 3:55 pm, Lobby and Lounge Coffee and Tea Break

0.55	5.40	
	pm – 5:10 eral Sessi	pm, Grand Hall on 1 Biological Monitoring and Assessment Chair: Xiaodong QU and Esther CLEWS
O07	3:55 pm	Effects of fixed-count subsampling on macroinvertebrate richness, site separation, and bioassessment of Chinese monsoonal streams <u>Kai CHEN</u> , Robert M. HUGHES and Beixin WANG
800	4:10 pm	Distribution patterns of benthic macroinvertebrates and fish community structure in mountain stream, Korea  Mi-Young SONG, Wan-Ok LEE and Ihn-Sil KWAK
O09	4:25 pm	Categorical and non-linear approaches to identification of intra- and inter-annual variability in benthic macroinvertebrates in tropical freshwater reservoirs.  Marta BOIX-CANADELL, Yong Tze HO and Esther CLEWS
O10	4:40 pm	Integrative water quality index based on ecological informatics for management of stream ecosystem <u>Sung-Cheol KOH</u> and Tae-Soo CHON
011	4:55 pm	Acidic effects from coal mine reservoir on diversity and haemolymph ions of odonata nymph  Chayanan JITMANEE, Somporn CHANTARA and Chitchol  PHALARAKSH
	pm – 6:25 eral Sessi	pm, Grand Hall on 2 Conservation, Management, and Modeling Chair: Chitchol PHALARAKSH
O12	5:10 pm	Caddisfly Watch Project, biomonitoring of radioactive cesium contamination in rivers and streams after the Fukushima Daiichi nuclear power station accident using Stenopsyche (Trichoptera: Stenopsychidae)  Takeshi FUJINO, Daisuke UENO, Osamu INANAMI, Hazuki MIZUKAWA, Izumi WATANABE, Hiromitsu NAGASAKA, Nozomi TATSUTA and Kunihiko NAKAI
O13	5:25 pm	Macroinvertebrate community response to habitat alteration in regulated mountain stream, Doi Suthep-Pui national park, Thailand <a href="Phuchiwan SURIYAWONG">Phuchiwan SURIYAWONG</a> , Porntip CHANTARAMONGKOL, Decha THAPANYA and Elizabeth A. BERGEY
014	5:40 pm	Impact of large-scale weir construction on the top-predator fish diet in
	1	a large river ecosystem based on the DNA approach  Hyunbin JO, Ju-Duk YOON, Jeong-Soo KIM, Maurice LINEMAN  and Gea-Jae JOO

**O16** 6:10 pm Speciation of aquatic insects in adaptation to environmental profiles in streams

<u>Tuyen Van NGUYEN</u>, Dong-Hwan KIM, Rupert MAZZUCCO, Ulf DIECKMANN and Tae-Soo CHON

5:10 pm – 6:25 pm, Room 304  General Session 3 Behavior and Physiology  Chair: Hongqu TANG and Mi-Young SONG		
017	5:10 pm	Salinity effects on the expression of metabolic/development and immune related genes in an intertidal mud crab  Macrothalmus japonicas  Chamilani NIKAPITIYA and Ihn-Sil KWAK
O18	5:25 pm	Development of species sensitivity distributions and estimation of HC5 of metals and metalloids with different approaches <a href="Yuedan LIU">Yuedan LIU</a> , Fantang ZENG, Fengchang WU and John P. GIESY
O19	5:40 pm	Behavioral analysis of an Oligochaete, <i>Lumbriculus variegatus</i> , treated with toxic substances at low concentrations <u>Chang Woo JI</u> , Young-Seuk PARK, Youngdae CUI, Hongzhu  WANG and Tae-Soo CHON
O20	5:55 pm	Developmental differences of the non-biting midge Glyptotendipes tokunagai (Diptera: Chironomidae) during the successive rearing of forty-two generations over seven years  Min Jeong BAEK, Tae Joong YOON, Hyo Jeong KANG and Yeon Jae BAE
O21	6:10 pm	Inferring movement data structure of zebrafish ( <i>Danio rerio</i> ) under stressful conditions  Hungsoo KIM, Tuyen Van NGUYEN, Quang Kha QUACH, Takashi UEHARA, Muyoung HEO, Tae-Soo CHON

6:40 pm, SangNam International House Dinner

		June 6, 2014 (Friday)	
	am – 9:50 <sub>ا</sub> ary Talk	pm, Grand Hall  Jane M. HUGHES  Chair: Your Jin WON	
	9:50 am – 12:10 pm, Grand Hall Special Session 2 Use of Molecular Genetics in Studies of Ecology, Evolution, and Taxonomy Chair: Kozo WATANABE		
O22	9:50 am	Comparison of genetic structures between two closely related burrowing mayflies, <i>Ephoron eophilum</i> and <i>Ephoron shigae</i> (Ephemeroptera; Polymitarcyidae), in East Asia <u>Kazuki SEKINÉ</u> , Koji TOJO and Yeon Jae BAE	
O23	10:05am	Evidence for contemporary migration and interspecific introgression in a small-bodied freshwater fish, Squalidus multimaculatus.  Ho Young SUK, Yoon Jeong LEE, Hyung-Bae JEON,  Dong-Young KIM and Han-Gyu BAE	
O24	10:20am	Genomic replacement of native <i>Cobitis lutheri</i> with introduced <i>C. tetralineat</i> a through a hybrid swarm following the artificial connection of river systems  Ye-seul KWAN, Myeong-Hun KO and Yong-Jin WON	
10:35	pm – 10:5	0 pm, Lobby and Lounge Coffee and Tea Break	
O25	10:50am	Molecular ecotoxicotoxicology approach for adverse outcome pathway in aquatic midge, <i>Chironomus riparius</i> <u>Jinhee CHOI</u>	
O26	11:05am	Applying self-organizing map in AFLP data analysis in aquatic insects <b>Bin LI</b> , <b>Kozo WATANABE</b> , <b>Heui-Soo KIM and Tae-Soo CHON</b>	
O27	11:20am	DNA-based assessment of species richness of stream macroinvertebrate community using next generation sequencing Kozo WATANABE, Kohsuke IZUMI, Yo MIYAKE and Maribet GAMBOA	
O28	11:35am	Assessing biodiversity of stoneflies (Plecoptera) using mitochondrial and nuclear DNA  Maribet GAMBOA, Kozo WATANABE, Yasuhiro TAKEMON and Michael T. MONAGHAN	
O29	11:50am	Using molecular scatology to identify aquatic and terrestrial prey in the diet of a riparian predator  Ming-Chih CHIU, Choon Kiang WONG, Yuan-Hsun SUN and Mei-Hwa KUO	

12:05pm

# Conclusion Kozo WATANABE

12:10 pm – 1:30 pm, SangNam International House Lunch		
	pm – 2:20 <sub>l</sub> ary Talk	pm, Grand Hall Mutsunori TOKESHI Chair: Young-Seuk PARK
	pm – 3:35 <sub>l</sub> eral Sessi	pm, Grand Hall on 4 Systematics and Biodiversity I
Gene	erai Sessi	Chair: Xinhua WANG
O30	2:20 pm	Taxonomic revision of the Korean Elmidae (Coleoptera: Dryopidea) with descriptions of four new species Sang Woo JUNG, Manfred A. JÄCH and Yeon Jae BAE
O31	2:35 pm	Emergence patterns of lentic chironomids collected from 5 ponds in Macau
		<u>Jie LIU,</u> Hongu TANG, Jian-Gang ZHAO, Kai-Chin WONG, Man Cheng CHOI and Zhi-Qiang LI
O32	2:50 pm	Confirmation of the immature stage of Microchironomus tabarui using mitochondrial COI and discussion on the systematic position (Diptera, Chironomidae)
		Hongqu TANG, Jingyi CHEN, Enlou ZHANG and Huabing LI
O33	3:05 pm	DNA taxonomy reveals species diversity of chironomidae (Diptera) in a semi-natural river in the Alps  Shunsuke KONDOH, Xavier-Francois GARCIAA, Yasuhiro TAKEMON, Klement TOCKNER, Michael T. MONAGHAN and Kozo WATANABE
O34	3:20 pm	Taxonomic review of the non-biting midge genus <i>Chironomus</i> (Diptera: Chironomidae) in Korea using mitochondrial COI gene sequences <a href="Hyo Jeong KANG">Hyo Jeong KANG</a> , Kyeong In SUH, Han II REE and Yeon Jae BAE
3:40pm – 4:20 pm, Multipurpose Hall Poster Session		
4:20	pm – 5:20 <sub>l</sub>	pm, Grand Hall

Systematics and Biodiversity  $\ II$ 

Chair: Koji TOJO

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**General Session 5** 

O35	4:20 pm	The Chinese mayflies in the genus <i>Vietnamella</i> (Ephemeroptera: Vietnamellidae) <u>Chang-Fa ZHOU</u>
O36	4:35 pm	The phylogeography of Japan's endemic dipteromimid mayflies, which inhabit the upper headwaters of rivers (Insecta, Ephemeroptera, Dipteromimidae)  Masaki TAKENAKA and Koji TOJO
O37	4:50 pm	Phylogeography of <i>Isonychia japonica</i> (Ephemeroptera; Isonychiidae) with a wide distribution in East Asia <u>Rie SAITO</u> and Koji TOJO
O38	5:05 pm	Historical review of the Hydropsychidae (Trichoptera) in tropical Southeast Asia with descriptions of new species <u>Christine Jewel C. UY</u> and Yeon Jae BAE
4:20	pm <b>–</b> 5:20	pm, Room 304
Gene	eral Sessi	on 6 Systematics and Biodiversity Ⅲ
		Chair: Konstantin A. LUTAENKO
000	4.00	The control to the form of the help of the control
O39	4:20 pm	The molecular phylogeography of the balitorid loach <i>Oemacheilus</i> barbatulus in East Asia: new evidence to overturn the previously established phylogeographic model  Kensuke KOBAYASHI and Koji TOJO
O40	4:35 pm	Multilocus phylogeny of the freshwater fish family Cobitidae (Cypriniformes: Teleostei) from Korea <u>Ye-seul KWAN</u> , Myeong-Hun KO, Won-Ok LEE and Yong-Jin WON
041	4:50 pm	A list of Myanmar caddisflies (Trichoptera) including
		newly collected data <u>Wityi HNIN,</u> Takao NOZAKI and Takeshi FUJINO
O42	5:05 pm	Biogeographic status of the eastern coast of South Korea based on bivalve mollusks  Konstantin A. LUTAENKO
5:20	pm – 6:20	pm, Grand Hall
	eral Sessi	on 7 Population and Community Dynamics
		Chair: Ihn-Sil KWAK
O43	5:20 pm	Weekly population change of adult Trichoptera <i>Dipseudopsis robustior</i> and <i>Macrostemum floridum</i> in Chiang Mai Zoo, Thailand <a href="Decha THAPANYA">Decha THAPANYA</a> and Watchapon KONGKARNKA
O44	5:35 pm	Macrozoobenthos communities of the streams of the Western Sayan Mts.  Natalia S. BATURINA

O45	5:50 pm	Species diversity and abundance of adults trichoptera in tributary stream of the MaeNgat Sombonchol dam, Chiang Mai province, Thailand Wongphan PROMWONG and Decha THAPANYA
O46	6:05 pm	Effects of drought disturbance on benthic macroinvertebrate communities in experimental mesocosm wetlands <u>Dong Gun KIM</u> , Cha Young LEE, Lak Joong CHOE, HyoJeong KANG, Min Jeong BAEK and Yeon Jae BAE

	pm – 6:55 <sub>l</sub> kshop	pm, Room 304  Key to The Tropical Southeast Asian Aquatic Insects  Chair: Yeon Jae BAE and John MORSE
	5:20 pm	Introduction <u>Yeon Jae BAE</u>
W1	5:25 pm	Key to the species of Ephemeroptera families Baetidae, Behningiidae, Heptageniidae, Isonychiidae, and Oligoneuriidae in tropical Southeast Asia <u>Boonsatien BOONSOONG</u>
W2	5:40 pm	Key to the species of Ephemeroptera families Austremerellidae, Caenidae, Ephemerellidae, Neoephemeridae, Prosopistomatidae, Siphluriscidae, Teloganellidae, Teloganodidae, Leptophlebiidae, Polymitarcyidae, Potamanthidae, and Ephemeridae in tropical Southeast Asia <u>Van Vinh NGUYEN</u>
W3	5:55 pm	Key to the tropical Southeast Asian Plecoptera <u>Thi Kim Thu CAO</u>
W4	6:10 pm	Key to the genera of Trichoptera in Oriental Asia <b>John MORSE</b>
	6:30 pm	Discussion & Closing Remarks <u>John MORSE</u>

# 7:00 pm, SangNam International House Banquet

### **Poster Presentation**

Session	1 Biological Monitoring and Assessment
P01	Comparisons of fish community composition according to the differences of geographic regions in Korea  Mi-Young SONG, Jung-Ik BAEK, Seung-Yoon JUNG, Kyeong-Hwan  KIM and Wan-Ok LEE
P02	Ecological composition and distribution of the diatoms in the Mudeungsan national park  Hyeon Jin CHO, Hee Sung KIM, Dong Won KANG and Hak Young LEE
P03	Biological water quality assessment using benthic diatoms in the Boseong river <u>Hyeon Jin CHO</u> , Hee Sung KIM, Myung Hwa JUNG and Hak Young LEE
P04	Bioassessment of Vladivostok city and its vicinities streams by the classic chemical and microbiological methods together with biological and nuclear magnetic spectroscopy (NMS) methods (Primorye, Russian Far East)  Tatyana S. VSHIVKOVA, L. A. MEDVEDEVA, L. S. BUZOLEVA, N. K. KHRISTOFOROVA, L. T. KOVEKOVDOVA, N.V. POLYAKOVA and Konstantin A. DROZDOV
P05	After-effects of Tsunami on distribution of mosquitoes in the suburbs of Sendai City in Miyagi Prefecture, Japan in 2013 <u>Kimio HIRABAYASHI</u> , Masaaki TAKEDA and Yoshio TSUDA
P06	Longitudinal variation of benthic macroinvertebrate indices in Seomjin river Woon-Seok CHO, Byung-Hyun LIM, Soo-Hee KIM and Ihn-Sil KWAK
P07	The assessment of water quality on bioaccumulation of heavy metals in caddis larvae of <i>Rhyacophila</i> (Trichoptera: Rhyacophilidae) in natural and anthropogenic transformed streams.  Olga K. KLISHKO and Tatyana S. VSHIVKOVA
P08	Expressions of antioxidant genes in the intertidal mud crab,  Macrophthalmus japonicas, exposed to perfluorooctane sulfonate (PFOS)  Ki Yun PARK and Ihn-Sil KWAK
P09	Benthic macroinvertebrate assemblages as key indicators of water quality in Pong and Cheon Rivers, Northeastern Thailand  Kannika SIRISINTHUWANICH and Narumon SANGPRADUB

Session 2	Conservation and Management
P10	An introduction to the tropical pond habitat survey  Yong Tze HO, Hui Lian YOON, Xue Ying ENG, Rop Fun QUEK and Esther CLEWS
P11	Intensive study on radioactive cesium contamination and evaluation of biological half-life of Stenopsyche (Trichoptera: Stenopsychidae)  Shota KOBORI, Eri MIYAZAKI, Wityi HNIN, Takeshi FUJINO, Mamoru SAKAI and Takashi GOMI
P12	Diatom algae of the Lower Amur River (Russia) <u>Tatiana V. NIKULINA</u>
P13	Some data on reproductivity and morphology of glochidia of Asian freshwater bivalves from genus <i>Sinanodonta</i> (Unionidae: Anodontinae) <u>Elena M. SAYENKO</u>

### Session 3

### **Molecular Biology**

P14	DNA barcode library for Korean Ephemeroptera <u>Yeon Jae BAE</u> , Jeong Mi HWANG, Kyong In SUH and Won Young CHOI
P15	Population genetic structuring of short ninespine stickleback ( <i>Pungitius karibarae</i> ) <u>Han-Gyu BAE</u> and Ho Young SUK
P16	Phylogeographic exploration of <i>Gobioid</i> fishes based on 12S ribosomal RNA sequences <u>Hyung-Bae JEON</u> and Ho Young SUK
P17	Molecular phylogeography of East Asian ephemerid mayflies, genus Drunella and Cincticostella (Insecta: Ephemeroptera, Ephemerellidae) <u>Jaeick JO</u> and Koji TOJO
P18	Molecular phylogeography of the headwater-specific alpine caddisflies, <i>Pseudostenophylax</i> spp. (Insecta: Trichoptera, Limnephilidae) <u>Kenji MIKAMI</u> , Takao NOZAKI and Koji TOJO
P19	Comparative analysis of salivary gland proteins in <i>Anopheles gambiae</i> and <i>Drosophila melanogaster</i> (Diptera) using Hidden Markov Models <u>Thao Thi NGUYEN</u> , Tuyen Van NGUYEN, Dong-Hwan KIM,  Sang-Bin LEE, Young-Su SEO and Tae-Soo CHON

P20 Comparing the population structure and genetic diversity patterns of *Isonychia japonica*, along river in the Chikuma-Shinano River Baisn (Insecta, Ephemeroptera, Isonychiidae)

Rie SAITO and Koji TOJO

P21 Molecular phylogenetic analyses of diptemomimid mayflies and its relevance to geohistory: Geological isolation by plate tectonic lines, mountain formation, and stream piracies (Insecta, Ephemeroptera, Dipteromimidae)

Masaki TAKENAKA and Koji TOJO

### Session 4 Population and Community Dynamics

- Recovery dynamics of benthic macroinvertebrate community after the stream rest year system and restoration project at Ui creek of Seoul, Korea Kyung-Seok BAE, Hae-Kyung GIL and Gui-Cheol LIM
- P23 Comparison of aquatic insect diversity between tropical Cambodian and temperate Korean freshwaters

Jun Shik BAE, Dong Gun KIM, Christine Jewel C. UY, Polin SIN and Jeong Mi HWANG

P24 Spatio-temporal population growth of toxin producing and sensitive species in allelopathy

Sung-Tae KIM, Hungsoo KIM, Tuyen Van NGUYEN, Sang Hee LEE and Tae-Soo CHON

- P25 Application of Self Organizing Map (SOM) to patterning macroinvertebrate communities across different level of pollution in Japan and Korea Dong-Hwan KIM, Yu ISOBE, Jung-Sub LIM and Tae-Soo CHON
- P26 Habitat preference of tropical freshwater macroinvertebrates
  Li Yun TAN, Rop Fun QUEK and Esther CLEWS

### Session 5 Systematics and Biodiversity

- P27 Phylogeography of *Palaeagapetus* (Trichoptera: Hydroptilidae) in East Asia Rirei ARAIYA, Tomiko ITO and Koji TOJO
- Phoretic relationship between larvae of *Nanocladius* (Plecopteracoluthus)

  Asiaticus Hayashi (Diptera, hironomidae) and Gestroiella spp. (Heteroptera, Naucoridae), Euphaea masoni (Odonata, Euphaeidae) in Kanchanaburi province (western Thailand)

**Boonsatien BOONSOONG** 

P29	Leaf type used for larval case building in a caddisfly ( <i>Anisocentropus kawamurai</i> ) in forest streams of Aya, Miyazaki, Japan <u>Yumiko HAYASHI</u> , Kozo KAWANO, Noriyuki KUSHIMA and Tetuo <u>MURAKAMI</u>
P30	The genus <i>Hydroptila Dalman</i> (Trichoptera, Hydroptilidae) in the Ryûkyû Islands, southwestern Japan <u>Tomiko ITO</u>
P31	A new species of the genus <i>Adicella McLachlan</i> (Trichoptera, Leptoceridae) from Japan  Nobuyuki KATSUMA and Eiji YAMAMOTO
P32	The Genus <i>Ecnomus</i> (Trichoptera: Ecnomidae) in Singapore <u>John C. MORSE</u>
P33	Primary seta no. 18 of larval head of <i>Stenopsyche</i> species (Trichoptera, Stenopsychidae) <u>Takao NOZAKI</u> and Noriyoshi SHIMURA
P34	The genus <i>Goera Stephens</i> (Trichoptera: Goeridae) in Korea: A preliminary report <u>Sun Jin PARK</u> , <b>Min Woo OH and Dongsoo KONG</b>
P35	The check-list of the amphibiotic insects (Insecta: Ephemeroptera, Plecoptera, Trichoptera) of the Sikhote-Alin Biosphere Reserve and adjacent territory <u>Elena V. POTIKHA</u>
P36	Chironomid larvae in the Pong River, Thailand Em-on SRIARIYANUWATH and Narumon SANGPRADUB
P37	First record of <i>Esakia latonota</i> Duc and Zettel (Hemiptera: Heteroptera: Gerridae) in Thailand, with a note on the distribution of the enus in Oriental region  Benjamart SUKSAI and Narumon SANGPRADUB
P38	The "character displacement" between two closely related giant water bugs, each in the Korean Peninsula and the Japanese Archipelago (Insecta: Heteroptera, Belostomatidae)  Tomoya SUZUKI and Koji TOJO
P39	Review of the genus <i>Rheocricotopus</i> Thienemann & Harnisch from China (Diptera: Chironomidae, Orthocladiinae) <u>Xinhua WANG</u> and Wenbin LIU
P40	A review on taxonomy of Atyidae (Crustace: Decapoda) in China Ruilei ZHANG

#### **Behavior and Physiology** Session 6 P41 Predation of the Hydrochara affinis (Coleoptera: Hydrophilidae) larvae on two mosquito species, Culex pipiens molestus and Ochlerotatus togoi, under laboratory conditions Hak Myeong BAEK, Dong Gun KIM, Min Jeong BAEK, Cha Young LEE, Hyo Jeong KANG, Myeong Chul KIM, Kyung Seok BAE and Yeon Jae BAE P42 Association of nymphs and adults of odonates (Insecta, Odonata) in headwater streams of the Phachi River, Ratchaburi province, Thailand **Damrong CHAINTHONG** and Boonsatien BOONSOONG P43 Quantification of the interaction for the individual fish using a mirror wall Muyoung HEO, Quang kha QUACH and Tae-Soo CHON P44 Understanding behavioral responses of zebrafish by means of path analysis using shape parameters of positional distribution under chemical stress Kwang Sung LEE, Hungsoo KIM, Quang Kha QUACH and Tae-Soo CHON P45 Self-organizing map applied to movement behavior of zebrafish (Danio rerio) in response to infection by Edwardsiella tarda Sang-Bin LEE, Yunjeong CHOE, Ho Young KANG and Tae-Soo CHON P46 Movement behaviors of Zebrafish (Danio rerio) in different area and size of observation arena Quang Kha QUACH, Hungsoo KIM and Tae-Soo CHON P47 The differensis in the pallial oviduct structure of the mollusks of Semisulcospiridae family (Gastropoda; Cerithioidea) from Korea Anna V. RASSHEPKINA

### **Excursion:** Hobakso Pond and Pyochungsa Temple

- Meeting place for departure: In front of SangNam International House (Please check the campus map on the last page.)
- Departure time: 9:00 am on June 7 (Saturday)
- Travel time: around 3 hours by the tour bus (round trip)
- Lunch box and water will be offered by LOC.
- Sampling facilities will be provided by LOC.
- Any participant with health problem (e.g., motion sickness) should report to LOC or excursion manager.

#### Major species at the sampling site near Hobakso Pond



Cincticostella levanidovae Tshernova



Oyamia coreana



Rhyacophila nigrocephala

Excursion Manager: Sang-Bin LEE E-mail: lsb5162@pusan.ac.kr Phone: (+82) 010-4858-5162

#### **Hobakso Pond**



Hobakso Pond ("호박소") sits on the hillside of the 885 meter-high Mt.

Baekunsan ("백운산") located in Milyang, Gyeongnam Province. The pond is located at the base of a 10-meter-high waterfall and is named after Hobak, a grain-grinding tool. The circumference of the pond is around 30 meters and 6 meters in depth. In the olden days, the pond was a spiritual place where people would pray for rain. Surrounded by white granite rocks, the area is a scenic place of natural beauty. Visitors can also look around nearby Baengnyeonsa Temple, Hyeongjeso Pond, and Ocheonpyeong Rock.

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#### **Pyochungsa Temple**



Pyochungsa Temple ("표충사") is located at the base of Jaeyaksan Mountain ("재약산"), 20 kilometers away to the east of Miryangsi. The temple was built in the fourth year of King Heungdeok's reign of the Silla Kingdom (829). It was named as 'Pyochungsa' to praise Samyeongdang who played an important role in the peace envoy during the invasion of Japan. There are the scenic places such as Cheungcheung Falls, Geumgang Falls, and Sajapyeong field at the ridge of the mountain.

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### **General Information**

#### **Automated Teller Machines (ATMs)**

You will find ATMs on nearly every street corner or in convenience stores.

#### **BUSINESS HOURS**

For most government and private offices, business hours are from 9 am to 6 pm, Monday to Friday. Banking hours are from 9 am to 4 pm, Monday to Friday. Operating hours for ATMs vary, and are written usually on the machine. Please note that they are not generally open 24 hours. Post offices are open from 9 am to 6 pm, Monday to Friday.

#### **CURRENCY**

The unit of Korean currency is the Won( $\mbox{$\set}$ ). Coin denominations are  $\mbox{$\set}$ 10,  $\mbox{$\set}$ 50, and  $\mbox{$\set}$ 500. Banknotes are  $\mbox{$\set}$ 1,000,  $\mbox{$\set}$ 5,000,  $\mbox{$\set}$ 10,000, and  $\mbox{$\set}$ 500.

- Currency exchange: Foreign banknotes and traveler's check can be exchanged at foreign exchange banks and other authorized money changers.
- Credit cards: Visa, American Express, Master Card and Diners Club are widely accepted at major hotels, shops and restaurants. Check with your credit card company for details of merchant acceptability and other services for their availability in Korea.
- Traveler's check: Accepted, but may be difficult to change in small shops. To avoid additional exchange rate charges, travelers are advised to bring Traveler's checks in US Dollars.

#### **ELECTRICITY**

In Korea, 220 volt outlets are usual. Always check the power supply before using your equipment.

#### **EMERGENCY TELEPHONE NUMBERS**

112: Police

119: Emergencies for Fire / Rescue & Hospital Services

#### **LOCAL TIME**

Korea standard time zone is GMT +9 hours.

#### **SMOKING**

Smoking is prohibited inside the buildings in all public places in Korea.

#### **TELEPHONE CALLS**

For international calls, first dial the international dial code (001, 002, or 00700), then the country code, followed by the area code excluding first zero, then the phone number.

### **Congress Information**

#### REGISTRATION DESK

- Please visit the registration desk to complete your payment and to receive your name badge.
- Place: Grand Hall, 3F (Main Administration Building, PNU)
  - \* For finding locations, please check the map on the facing page.
- Operation Hours: June 5, 10:00 am 5:00 pm / June 6, 8:00 am 4:00 pm

#### MESSAGE BOARD

- A board will be available for receiving information from LOC and for communication between participants. Participants are welcome to use the board.
- Place: Grand Hall, 3F (Main Administration Building, PNU), Next to the Information desk

#### RESTAURANT FOR LUNCH, DINNER, AND BENQUET

- Place: SangNam International House, 1F (PNU)
- \* For finding locations, please check the map on the facing page.