

# SIL2021 Daily schedule (August 22-26)

## August 22(Sun)

Time(KST)	Venue	Session Code	Program
<b>Short Courses</b>			
13:00-21:00	Virtual	SC-01	<b>Chironomidae identification methodology</b> Organizer / Lecturer - Dr. Djuradj Milošević (University of Niš) - Dr. Dubravka Čerba (University of J. J. Strossmayer)
10:30-16:00	Virtual	SC-02	<b>How to use stable isotopes in ecology and environmental study?</b> Organizer / Lecturer - Dr. Kyung-Hoon Shin (Hanyang University) - Dr. Yoshito Chikaraishi (Hokkaido University) - Dr. Jia Huan Liew (The University of Hon Kong)
16:00-20:30	Virtual	SC-03	<b>Long-term data analysis based on R</b> Organizer / Lecturer - Dr. Jianming Deng (Nanjing Institute of Geography and Limnology, CAS) - Dr. Hyunbin Jo (Pusan National University)
08:00-15:00	Virtual	SC-04	<b>Ecological Applications of Bayesian Statistics -- with R and Stan</b> Organizer / Lecturer - Dr. Song Qian (Department of Environmental Sciences , The University of Toledo)
17:00-23:00	Virtual	SC-05	<b>Spatial and individual-based models for ecological monitoring through simulation</b> Organizer / Lecturer - Dr. Tae-Soo Chon (Ecology and Future Research Institute and Pusan National University (Prof. Emer.))
10:00-14:00	Virtual	SC-06	<b>Evolutionary Algorithms: Predictive and Explanatory Modelling of Freshwater Ecosystems by Learning from Ecological Data</b> Organizer / Lecturer - Prof. Friedrich Recknagel (University of Adelaide)
19:00-23:00	Virtual	SC-07	<b>Aquatic Ecosystem Modeling (PCLake and GLM-AED2)</b> Organizer / Lecturer - Dr. Annette Janssen (Wageningen University & Research) - Dr. Robert Ladwig (University of Wisconsin-Madison)
16:00-22:00	Virtual	SC-08	<b>From data to visualization and storytelling</b> Organizer / Lecturer - Dr. Marieke Frassl (German Federal Institute of Hydrology (BfG))

\* Only applicants in advance could participate in short courses.

## August 23(Mon)

Time(KST)	Venue	Session Code	Program
09:30-16:40	Kimdaejung Convention Center, Convention Hall (4F)	-	<a href="#"><u>Stream Health Workshop</u></a> <b>“Sustaining freshwater ecosystem : Monitoring, assessment, and restoration ecosystem health”</b> <u>Organizers</u> <i>Soon-Jin Hwang (Department of Environmental Health Science, Konkuk University, Republic of Korea)</i>
17:30-18:30	-	-	<a href="#"><u>Welcoming Reception</u></a>
19:00-19:30	Convention Hall / Virtual	-	<a href="#"><u>Opening Ceremony</u></a>
19:30-20:00	Convention Hall / Virtual	-	<a href="#"><u>Plenary Lecture 1 : Global Evaluation of Freshwater Ecosystem Health with Emphasis on Korean Stream Health Program</u></a> <i>Soon-Jin Hwang (Department of Environmental Health Science, Konkuk University, Republic of Korea)</i>
20:00-20:30	Convention Hall / Virtual	-	<a href="#"><u>Plenary Lecture 2 : Limnological conditions of Korea</u></a> <i>Bomchul Kim (Department of Environmental Science Kangwon National University, Republic of Korea)</i>
20:30-21:30	Virtual	-	<a href="#"><u>SIL General Assembly</u></a>
21:30-22:30	Virtual	-	<a href="#"><u>SIL International Committee Meeting</u></a>

## August 24(Tue)

Time(KST)	Track	Session Code	Program
<b>Oral Q&amp;A Parallel Session 1</b>			
<b>S1. Eutrophication vs. Benthification: the Role of Aquatic Animals</b>			
<i>Chair :</i>			
17:00-17:50	Track A	1A_S1	- <b>210010. Do Benthic Animals Enhance Eutrophication or Benthification of Shallow Lakes? Implication for Lake Management</b> <i>Xiufeng Zhang, William D Taylor, Lars G Rudstam, Xueying Mei, Chunfu Tong, Cunqi Liu, Gideon Gal, Vladimir Razlutskiy, Erik Jeppesen, Zhengwen Liu</i>
			- <b>210016. The effects of fish with different diets on the resources competition between benthic and planktonic algae in shallow aquatic ecosystems</b> <i>Xueying Mei, Lars Rudstam, Vladimir Razlutskiy, Yulia Beshpalaya, William Taylor, Erik Jeppesen, Zhengwen Liu, Xiufeng Zhang</i>
			- <b>210333. Green bottoms: understanding drivers of near-shore benthic filamentous algae proliferations in oligotrophic lakes.</b> <i>Simon Donald Stewart, Sudeep Chandra, Ian Hawes, David Kelly, Marianne Moore, Yvonne Vadeboncoeur, Sean Waters, Susanna Wood</i>
			- <b>210078. Omnivorous Prussian carp (<i>Carassius gibelio</i>) increase eutrophication in part by preventing development of large-bodied zooplankton and submerged macrophytes</b> <i>Vladimir Il'ich Razlutskiy, Xueying Mei, Natallia Maisak, Elena Sysova, Andrei Makaranka, Erik Jeppesen, Xiufeng Zhang</i>
<b>S8. Linking Eutrophication and Reoligotrophication to Carbon Sinks and Sources in Inland Waters Toward a Global Synthesis</b>			
<i>Chair :</i>			
17:00-17:50	Track C	1C_S8(1)	- <b>210003. Large and active CO<sub>2</sub> uptake by carbonate weathering coupled with aquatic photosynthesis</b> <i>Zaihua Liu, G. L. Macpherson, Chris Groves, Jonathan B. Martin, daoxian yuan, Sibo Zeng</i>
			- <b>210126. Nutrient and greenhouse gas dynamics in three human-impacted Asian rivers</b> <i>Most Shirina Begum, Omme Kulsum Nayna, Ji-Hyung Park</i>
			- <b>210152. Hydrological and trophic alterations as drivers of the carbon balance in Mediterranean inland saline shallow lakes</b> <i>Daniel Morant, Carlos Rochera, Antonio Picazo, Javier Miralles-Lorenzo, Alba Camacho-Santamans, Antonio Camacho</i>
			- <b>210418. CO<sub>2</sub> emissions from Chinese inland waters under global change</b> <i>Lishan Ran</i>

			<p>- 210328. <b>Increasing long-term carbon sequestration in four deep French peri-alpine lakes despite re-oligotrophication: the role of climate and environmental changes</b> <i>Julie Rotschi, Cécilia Barouillet, Isabelle Domaizon, Irene Gregory-Eaves, Andrea Lami, David Etienne, Erwan Messenger, Jean-Philippe Jenny</i></p>
			<p>- 210026. <b>Nutrient limitations on primary productivity and phosphorus removal by biological carbon pumps in dammed karst rivers: Implications for eutrophication control</b> <i>Hailong Sun, Zaihua Liu</i></p>

**S11. Trophic Pathways within and Across Ecosystems - Advances in Biomarker Research, Emerging Contaminants and Essential Dietary Nutrients**

Chair :

17:00-17:50	Track D	1D_S11	<p>- 210387. <b>Second life of terrestrial and plastic polymers and food component for aquatic consumers</b> <i>Sami Johan Taipale, Sami Johan Taipale</i></p>
			<p>- 210223. <b>Compound-specific deuterium values indicate trophic upgrading of dietary fatty acids in emergent insects</b> <i>Margaux Mathieu-Resuge, Dominik Martin-Creuzburg, matthias Pilecky, Leonard Wassenaar, Lena Fehlinger, Cornelia Twining, Tarn-Preet Parmar, Katharina Winter, Martin Kainz</i></p>
			<p>- 210221. <b>Established and upcoming tracers in aquatic food webs and why we need tissue-specific analysis</b> <i>Martin J Kainz, Matthias Pilecky, Nadine Ebm, Fen Guo, Margaux Mathieu-Resuge, Libor Zavorka</i></p>
			<p>- 210195. <b>Chytrids synthesize polyunsaturated fatty acids from a large inedible alga available to Daphnia</b> <i>Andras Abonyi, Serena Rasconi, Robert Ptacnik, Matthias Pilecky, Martin Kainz</i></p>
			<p>- 210101. <b>Dietary nutrient export from eutrophic fish ponds via emerging insects</b> <i>Lena Fehlinger, Margaux Mathieu-Resuge, Matthias Pilecky, Tarn Preet Parmar, Cornelia Twining, Dominik Martin-Creuzburg, Martin J. Kainz</i></p>
			<p>- 210098. <b>Differences in fatty acid composition between orb-weaver spiders inhabited riparian zone of a saline lake and steppe are associated with consumption of different chironomid taxa</b> <i>Nadezhda Sushchik, Elena Borisova, Irina Demina, Olesia Makhutova, Michail I Gladyshev</i></p>
			<p>- 210048. <b>Fundamental Differences in Fatty Acid Composition between Aquatic and Terrestrial Insects</b> <i>Tarn Preet Parmar, Alina Kindinger, Margaux Mathieu-Resuge, Cornelia W. Twining, Martin J. Kainz, Dominik Martin-Creuzburg</i></p>

**S13. Science-Policy Dialogue Towards Sustainable Tropical Lake Conservation and Management in Asia**

Chair :

17:00-17:50	Track E	1E_S13	- <b>210254. Tonle Sap Sap Great Lake - Cambodia Biodiversity and Management</b> <i>Puy Lim</i>
			- <b>210075. Ecosystem services of flooded forests in a large tropical floodplain of Tonle Sap Lake</b> <i>Sophanna Ly, Sovannara Uk, Pham Ngoc-bao, Chihiro Yoshimura</i>
			- <b>210255. Development of Guidebook for Policy Makers and Lake Managers - Lessons Learned From Case Study in Tonle Sap Lake in Cambodia</b> <i>Pham Ngoc-bao</i>
			- <b>210259. The Significance of Local and International Collaboration in Strengthening the Pillars of ILBM</b> <i>Adelina Santos Borja</i>
			- <b>210258. Ecological Assessment of Laguna Lake Watershed, Water Quality and Biodiversity Resources</b> <i>Damasa Magcale Macandog, Daniel M Husana, Ma. Gregoria P Tiquio, Nerissa K Torreta, Emmanuel Ryan C de Chavez, Arnold R Salvacion, Joseph G Campang, John Vincent R Pleto, Nethanel Jireh A larida, Sedney S Mendoza, Yves Christian L Cabillon</i>
			- <b>210120. Platform for Aquatic Ecosystem Research (PAER) in Cambodia for promoting research and management of tropical lakes</b> <i>Kimleang Khoeurn, Chanthol Peng, Rattana Chhin, Khyeam Eang, Monychottepy Chanto, Chihiro Yoshimura</i>

**Oral Q&A Parallel Session 2**

**R6. Extreme Climate Events and Inland Waters**

Chair :

18:00-18:50	Track A	2A_R6	- <b>210012. Extreme events and ice cover determine the shift from meromixis to dimixis in a mountain lake</b> <i>Ulrike Obertegger, Daniele Andreis, Sebastiano Piccolroaz, Giovanna Flaim</i>
			- <b>210081. The eulittoral: a lake zone most impacted by extreme climate events</b> <i>Tamar Zohary, Avital Gasith</i>
			- <b>210277. Effects of increased mean temperature and extreme heatwaves on plankton communities</b> <i>Thu Huong Huynh Ngoc, Zsófia Horváth, Péter Dobosy, Vivien Kardos, Károly Pálffy, Beáta Szabó, Csaba Vad</i>
			- <b>210401. Benthic algal composition-extreme climatic events' relations in the Carpathian Basin.</b> <i>Viktória B-Béres, Áron Lukács, Gábor Várbiro, István Bácsi, Péter Török, Zsuzsanna Kókai</i>
			- <b>210017. Gravity Driven Membrane (GDM) water filtration system for climate adaptation in vulnerable communities in the Philippines</b> <i>Mylene Gonzaga Cayetano, Kyoungwoong Kim</i>

## S7. Applications of Environmental DNA to the Ecological Monitoring and Assessment of Aquatic Ecosystems

Chair :

18:00-18:50	Track B	2B_S7	- <b>210207. Bacterial community assembly shapes the aquatic environment quality in the river network on a large estuarine island</b> <i>Qi Chen, Gaohua Ji, Xintong Wu, Lele Chen, Hongbo Pan, Chenhong Li</i>
			- <b>210321. Pelagic biodiversity and biotic interaction assessment via eDNA metabarcoding approach along the freshwater-marine continuum from Seomjin River to Gwangyang Bay</b> <i>Hyo Gyeom Kim, Won-Seok Kim, Young-Shin Kim, Ihn-Sil Kwak</i>
			- <b>210002. RNA-based workflow for long-term diversity monitoring of freshwater zooplankton community</b> <i>Mark Louie Diwatin Lopez, Ryuji Machida</i>

## S8. Linking Eutrophication and Reoligotrophication to Carbon Sinks and Sources in Inland Waters Toward a Global Synthesis

Chair :

18:00-18:50	Track C	2C_S8(2)	- <b>210426. Temporal dynamics of greenhouse gases in an artificially modified river in semi-arid setting</b> <i>Sanjeev Kumar, Siddhartha Sarkar</i>
			- <b>210054. Drivers of greenhouse gas content in rivers spanning a sub-alpine to grassland transitional landscape, the Oldman River Watershed, Canada</b> <i>Matthew Bogard, Matthew Bogard, Cynthia Soued</i>
			- <b>210133. Varying nutrient levels and contributions to CO<sub>2</sub> in river systems across the Indian subcontinent</b> <i>Omme Kulsum Nayna, Most Shirina Begum, Ji-Hyung Park</i>
			- <b>210213. Contribution of carbonate-derived old DIC to autochthonous POC in temperate Korean estuaries (Geum and Seomjin) Korea</b> <i>Sujin Kang, jung-Hyun Kim, Jong-Sik Ryu, Kyung-Hoon Shin</i>
			- <b>210028. Organic carbon source tracing and the BCP effect in the Yangtze and Yellow rivers: insights from hydrochemistry, carbon isotope, and lipid biomarker analyses</b> <i>Min Zhao, Hailong Sun, Zaihua Liu, Qian Bao, Hao Yan, Dong Li</i>

## R7. Resilience and Regime Shifts in Inland Waters

Chair :

18:00-18:50	Track D	2D_R7	- <b>210181. Changes in geography and hydrology after an impoundment of riverine system under influence of monsoon climate</b> <i>Yongsik Sin</i>
			- <b>210237. Water quality risks from low and variable water storage levels in a drying climate</b> <i>David Hamilton, Mahsa Jahandideh-Tehrani, Sunny Yu, Edoardo Bertone</i>

			<p>- <b>210155. Effects of riparian buffers on instream community composition and their implication on cross-ecosystem connectivity</b> <i>Jasmina Sargac, Richard K. Johnson, Francis J. Burdon, Amélie Truchy, Geta Rîșnoveanu, Peter Goethals, Brendan G. McKie</i></p>
			<p>- <b>210297. Inland saline wetlands in semiarid region - challenges in the face of climate change</b> <i>Rafael Vega-pozuelo, Rafael F. Vega-pozuelo</i></p>
			<p>- <b>210353. Usage characteristics of aquatic organisms with the fishway structure and position at river</b> <i>Gilson Hwang, Dong-Oug Kim, JeChul Park</i></p>

## R12. Spatial Ecology- Metacommunity

Chair :

18:00-18:50	Track E	2E_R12	<p>- <b>210329. Waterbirds as dispersal agents of aquatic microorganisms</b> <i>Beáta Szabó, Attila Szabó, Csaba Ferenc Vad, Emil Boros, Dunja Lukić, Robert Ptacnik, Zsuzsanna Márton, Zsófia Horváth</i></p>
			<p>- <b>210052. Influence of human disturbance and river structure on sprainting activity of the Eurasian otter (<i>Lutra lutra</i>) along an urban stream in South Korea.</b> <i>Gun joo Lee, Hak young Lee</i></p>
			<p>- <b>210202. Is scent marking a reliable information to unravel determinants of otters' occurrence patterns? Verifying Kruuk's 'SURE' hypothesis at landscape scale</b> <i>Sungwon Hong, Mirko Di Febbraro, Anna Loy</i></p>
			<p>- <b>210388. Spatio-temporal variations in fish communities in river-estuary-ocean continuum: a case study of Seomjin Estuary</b> <i>Sun Ho Lee, Hyo Gyeom Kim, Hyunbin Jo, Ihn-Sil Kwak</i></p>

## Oral Q&A Parallel Session 3

## S5. Ecology, Management and Conservation of Temporary Water Bodies

Chair :

19:00-19:50	Track A	3A_S5	<p>- <b>210253. The characteristic of rotifer community in the river network on a large estuarine island and its relationship with environmental factors</b> <i>Min Wen, Hongyan Xiao, Gaohua Ji, Chenhong Li</i></p>
			<p>- <b>210318. Human footprint and carbon balance of Mediterranean semiarid wetlands: from alterations to management and restoration.</b> <i>Antonio Camacho, Daniel Morant, Javier Miralles-Lorenzo, Antonio Picazo, Alba Camacho-Santamans, Carlos Rochera</i></p>
			<p>- <b>210239. Challenges in the conservation of wetlands in drylands: Revisiting W.D. Willians after 20 years.</b> <i>Luciana Gomes Barbosa, Cihelio Alves Amorim, Manuela Morais, Leonardo Fernandes Gomes</i></p>
			<p>- <b>210212. Size spectra of phytoplankton and zooplankton in Mediterranean temporary ponds along the hydroperiod gradient</b> <i>Serena Sgarzi, Anna Badosa Salvador, Mireia Bartrons Vilamala, Zeynep Ersoy, Àngels Leiva-Presa, Elisenda López Altarriba, Sandra Bruçet Balmaña</i></p>

### S9. Influences of Water Level Fluctuation on Carbon Storage in Peatlands

Chair :

19:00-19:50	Track B	3B_S9	- <b>210228. The role of vegetation in sediment carbon fluxes of dry inland waters</b> <i>Alba Camacho Santamans, Daniel von Shiller, Biel Obrador, Rafael Marcé, Lluís Gómez Gener</i>
			- <b>210218. Seasonal inter-linkages between co2 outgassing, water quality, and phytoplankton in the red river delta, vietnam</b> <i>Jorge Salgado, Jorge Salgado Salgado, Sarah Taylor, Virginia Panizzo, Trinh Anh Duc, Do Thu Nga, Lucy Roberts, Suzanne McGowen, Ying Zheng, Adrian Bass</i>
			- <b>210199. Water Table Fluctuation in Peatlands Facilitates Fungal Proliferation, Impedes Sphagnum Growth and Accelerates Decomposition</b> <i>Jinhyun Kim, Line Rochefort, Chris Freeman, Hojeong Kang</i>

### S10. Drivers and Interactions of Geochemical Processes and Microbial Assemblages beyond Ecosystem Boundaries

Chair :

19:00-19:50	Track C	3C_S10	- <b>210104. Upstream terrestrial and aquatic history and seasonality shape bacterial community assembly within a large boreal aquatic network</b> <i>Masumi Stadler, Paul del Giorgio</i>
			- <b>210015. Ecogenomics of bacteria and viruses in the water column of Lake Biwa</b> <i>Yusuke Okazaki</i>
			- <b>210061. Phylogenetic diversity and phylogeography of freshwater picocyanobacteria revealed by long-read amplicon sequencing</b> <i>Ji Cai, Shin-ichi Nakano, Yoshikuni Hodoki, Yusuke Okazaki</i>
			- <b>210058. Substantial decrease in bacterial production over the past three decades in the north basin of Lake Biwa, Japan</b> <i>Kenji Tsuchiya, Noriko Tomioka, Tomoharu Sano, Ayato Kohzu, Kazuhiro Komatsu, Akio Imai, Kazuhide Hayakawa, Takamaru Nagata, Takahiro Okamoto, Yoshinori Hirose</i>
			- <b>210032. Do viruses accelerate the production of refractory dissolved organic matter in Lake Biwa, Japan?</b> <i>Shang Shen</i>
			- <b>210085. Biodegradation kinetics of different molecular-size classes of freshwater dissolved organic matter during long-term incubations</b> <i>Yasuhiko T Yamaguchi, Koichi Shimotori, Akio Imai, Yusuke Okazaki, Tomoyuki Ohara, Miho Nakamura, Shoichi Hichiri, Takahiro Okamoto, Kazuhide Hayakawa</i>
			- <b>210006. Silicate dynamics between the water column and sediment in Lake Biwa</b> <i>Jayeong Park, Masahito Sugiyama</i>



			- <b>210100. Nitrogen availability and latitudinal gradients drive variation in temperature sensitivity of freshwater denitrification and N<sub>2</sub>O emission - a meta-analysis</b> <i>Mandy Velthuis, Annelies J. Veraart</i>
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### S3. Multiple Interventions for Effective Lake Management

Chair :

19:00-19:50	Track D	3D_S3	- <b>210409. Managing eutrophication through chemical inactivation of phosphate- an overview of materials available</b> <i>Maira Mucci, Li Kang, Guido Waajen, Said Yasseri, Miquel Lüring</i>
			- <b>210376. Global cooperation of K-water in water sector</b> <i>Sangyoung Park</i>
			- <b>210294. Can changes in water retention time reduce climate change impacts on lakes?</b> <i>Linda May, Alex Elliott</i>
			- <b>210099. Lessons learned from &gt;150 years of management - Loch Leven, UK</b> <i>Bryan Spears, Linda May, Justyna Olszewska, Laurence Carvalho</i>
			- <b>210053. The importance of multiple measures in lake restoration: case of urban Lake Groote Melanen</b> <i>Mike Lurling, Guido Waajen</i>
			- <b>210039. Restoration of eutrophic lakes by using modified natural zeolite</b> <i>Kiyong Kim, Woo-Myung Heo, Nam-Myung Kim, Sang-Beom Cho, Dong-oug Kim</i>
			- <b>210405. The effects of dredging and Phoslock on the methane cycle in shallow lakes</b> <i>Thomas P. A. Nijman, Cornelia U. Welte, Miquel F. F. L. W. Lurling, Annelies J. Veraart</i>
			- <b>210425. Contrasting effects and mode of dredging and in situ adsorbent amendment for the control of sediment internal phosphorus loading in eutrophic lakes</b> <i>Grant Douglas, Hongbin Yin, Chunhui Yang, Pan Yang, Anna H Kaksonen</i>

### R14. Modeling in Inland Waters

Chair :

19:00-19:50	Track E	3E_R14	- <b>210023. Long-term dynamics and coherence of metabolism of North-Temperate lakes: a Bayesian modeling study</b> <i>Robert Ladwig, Alison P. Appling, Austin Delany, Hilary A. Dugan, Qiantong Gao, Noah Lottig, Joseph Stachelek, Paul C. Hanson</i>
			- <b>210072. Modelling phytoplankton and zooplankton interactions in a temperate stratified reservoir using CE-QUAL-W2</b> <i>Ma Cristina Paule-Mercado, Josef Hezlar, Jiří Jarošík, Jaromír Seda, Jiří Nedoma, Petr Znachor</i>
			- <b>210087. Big, small, deep, shallow, warm or cold: how to model any lake on earth?</b> <i>Annette B.G. Janssen, Manqi Chang, Sven Teurlincx, Dianneke van Wijk, Carolien Kroeze, Wolf M. Mooij</i>

			<p>- 210022. <b>Using Environmental fluid dynamics code to build the hydraulic model of a multi-island reservoir, Hongfeng Reservoir, SW, China</b> <i>Qingqing Sun</i></p>
			<p>- 210027. <b>Water temperature prediction of Daechong Reservoir by a process-guided deep learning model</b> <i>Sungjin Kim, Sewoong Chung, Hyungseok Park, Gunho Lee</i></p>
			<p>- 210102. <b>How morphology controls propagation of density currents in a reservoir: three-dimensional model answers</b> <i>Behnam Zamani, Manfred Koch, Ben R. Hodges</i></p>
			<p>- 210165. <b>Assessment of Phosphorus Dynamics in a Large Tropical Floodplain, Tonle Sap Lake</b> <i>Vouchlay Theng, Kana Hashimoto, Sovannara Uk, Tomohiro Tanaka, Hidekazu Yoshioka, Chihiro Yoshimura</i></p>
			<p>- 210189. <b>Needle in the haystack: Species distribution models - a tool for early detection of invasive aquatic microorganisms</b> <i>Carlotta Meriggi, Ester Polaina Lacambra, Stina Drakare, Richard Johnson, Ane Timenes Laugen</i></p>
			<p>- 210041. <b>Characterizing of temporal and spatial CO2 net atmospheric flux in a stratified reservoir using numerical model</b> <i>Hyung-seok Park, Dong-min Kim, Kyung-seo Min, Se-Woong Chung</i></p>

### Plenary Lectures

20:30-21:10	-	-	<p><b>Plenary Lecture 3 : Freshwater biodiversity decline: consequences for our societies?</b> <i>Rodolphe Elie Gozlan (Institute of Evolution Sciences of Montpellier(ISEM), University of Montpellier, CNRS,IRD, EPHE, Montpellier, France)</i></p>
21:10-21:50			<p><b>Kilham Memorial Lecture : Causes and consequences of changing oxygen in lakes</b> <i>Cayelan C. Carey (Department of Biological Sciences, Virginia Tech, USA )</i></p>

### Brain Dates with Eminent Scholars 1

22:00-23:00	Track A	BD1_A	Brain Date with Eminent Scholar 1
	Track B	BD1_B	Brain Date with Eminent Scholar 2
	Track C	BD1_C	Brain Date with Eminent Scholar 3
	Track D	BD1_D	Brain Date with Eminent Scholar 4
	Track E	BD1_E	Brain Date with Eminent Scholar 5

### SIL Working Group Meeting

23:00-24:00	Track A	WG_1A	SIL Working Group Meeting 1
	Track B	WG_2B	SIL Working Group Meeting 2
	Track C	WG_3C	SIL Working Group Meeting 3
	Track D	WG_4D	SIL Working Group Meeting 4

## August 25(Wed)

Time	Track	Session Code	Program
<b>Oral Q&amp;A Parallel Session 4</b>			
<b>S14. Freshwater Biodiversity Monitoring and Assessment of Various Anthropogenic Disturbances</b> <i>Chair :</i>			
17:00-17:50	Track A	4A_S14	- 210184. <b>Can the management of the critically endangered Stellate Sturgeon in the Lower Danube River be enhanced? Insights from 12 years of research</b> <i>Daniela Nicoleta Holostenco, Mitică Ciorpac, Elena Taflan, Katarina Tošić, Marian Paraschiv, Marian Iani, stefan Honț, Radu Suciu, Geta Rîșnoveanu</i>
			- 210371. <b>Implication of quorum sensing in aquatic ecosystems</b> <i>Shailesh kumar Patidar</i>
			- 210352. <b>A study on paleoenvironmental reconstruction of ancient wetlands using diatoms</b> <i>Suk Min Yun, Sang Deuk Lee, Chang Soo Lee, Daeryul Kwon, Mirye Park, Mi-Jung Bae, Ji-Hye Han</i>
			- 210349. <b>Evaluation of the impacts of abandoned mining areas: A case study with benthic macroinvertebrate assemblages</b> <i>Mi-Jung Bae, Jeong-gi Hong, Eui-Jin Kim</i>
			- 210302. <b>Community structure of benthic macroinvertebrates in subtropical urban Pearl River</b> <i>Honggu Tang</i>
			- 210262. <b>Microplastic Pollution in French Alpine Lakes</b> <i>Julia Dusaucy</i>
			- 210180. <b>Long-term changes of Cladocera linked to anthropogenic impact in a metropolitan shallow lake across six decades</b> <i>Gaohua Ji, Qi Chen, Jiuzan Peng, Liqing Wang</i>
			- 210145. <b>Do exotic poeciliids affect the distributions and trophic niche of native fishes? Absence of evidence from Hong Kong streams</b> <i>Alphonse Hin Fat Tsang, David Dudgeon</i>
			- 210074. <b>Biodiversity of diatom in cebong lake, dieng, central java for water quality assessment</b> <i>Tri Retnaningsih Soeprbowati, Hartuti Purnaweni, Jumari Jumari, Mriza Hanif Al Falah, Henk Heijnis</i>
<b>S16. Innovative water management technology of K-water and South Korea</b> <i>Chair :</i>			
17:00-17:50	Track B	4B_S16	- 210322. <b>Eutrophication in Korean streams and reservoirs; causes and control strategies</b> <i>Bomchul Kim</i>
			- 210370. <b>Integrated water-resouce management practices of dam reservoirs in Korea</b> <i>Kwangsoon Choi, Dong-Kyun Kim, Hojoon Kim, Seungyoon Lee</i>

			<p>- 210368. <b>Organic carbon source tracking in freshwater systems using optical indices and carbon/nitrogen stable isotopes</b> <i>Jin Hur, Mi-Hee Lee, Kyung Hoon Shin, Morgane Derrien</i></p>
			<p>- 210384. <b>Spatial monitoring of HABs using big-data analyses based on satellite images</b> <i>Hye-Suk Yi, Dong-Kyun Kim, Kwangsoon Choi, Youngsung Kim, Suna Chong, Nam-Il Won, Hojoon Kim, Sung hwa Choi, Euiho Hwang</i></p>
			<p>- 210286. <b>Field application study of environmental friendly filtering system (Eco-filtering system)</b> <i>ByungGoon Kim, DongSup Kim, HongSuck Kim, IHwan Choi</i></p>
			<p>- 210429. <b>Future Proof City for Global Green New Deal : Busan Eco Delta Smart City Experience</b> <i>Jeonghyeok Park</i></p>
			<p>- 210430. <b>Smart Water Management Technology Applied in the K-City Network Global Program</b> <i>Sangyoung Park</i></p>

**R5. Food Webs in Aquatic Ecosystems**

Chair :

17:00-17:50	Track C	4C_R5(1)	<p>- 210406. <b>Invasive species change ecosystem functions in Lake Constance</b> <i>Piet Spaak, Josephine Alexander</i></p>
			<p>- 210030. <b>Revealing the biosynthesis and trophic upgrading of LC-PUFA by zooplankton using 2H-CSIA of fatty acids</b> <i>Matthias Pilecky, Samuel Karl Kämmer, Margaux Mathieu-Resuge, Leonard Irwin Wassenaar, Sami Taipale, Martin Kainz</i></p>
			<p>- 210070. <b>Model-based decomposition of environmental, spatial and species-interaction effects on the community structure of common fish species in 772 European lakes</b> <i>Thomas Mehner, Christine Argillier, Trygve Hesthagen, Kerstin Holmgren, Erik Jeppesen, Fiona Kelly, Teet Krause, Mikko Olin, Pietro Volta, Ian J. Winfield, Sandra Bruceť</i></p>
			<p>- 210089. <b>Taxonomic composition and potential emergence of amphibiotic insects in three saline Siberian lakes and their significance for export of essential compounds to the land</b> <i>Irina Demina, Svetlana Shulepina, Aleksandr Ageev, Nadezhda Sushchik</i></p>
			<p>- 210090. <b>Decadal trends in Arctic/alpine lake food webs reveal responses to oligotrophication</b> <i>Jenny L. Nilsson, Karin Nilsson, Simon Belle, Pär Byström, Willem Goedkoop, Kerstin Holmgren, Johan Olofsson, Michael Power, Tobias Vrede</i></p>
			<p>- 210227. <b>Asymmetric responses of planktivorous fish and Daphnia to temperature increase may explain the smaller body size of zooplankton at an elevated temperature</b> <i>Ewa Babkiewicz, Wojciech Wilczyński, Marcin Żebrowski, Konrad Leniowski, Z. Maciej Gliwicz, Madhumitha Rajesh, Piotr Maszczyk</i></p>

## R9. Paleolimnology

Chair :

17:00-17:50	Track D	4D_R9	- <b>210249. Holocene lake sedimentary record and impact of sea-level rise in coastal wetland Velo blato on Pag Island</b> <i>Nikolina Ilijanic, Slobodan Miko, Ivona Ivkic Filipovic, Ozren Hasan, Martina sparica Miko</i>
			- <b>210289. Studying heterotrophic communities and functional ecology of freshwater lakes using sed-aDNA: an overlook at the ciliate communities</b> <i>Cecilia Barouillet, Valentin Vasselon, François Keck, Laurent Millet, Didier Debroas, David Etienne, Didier Galop, Damien Rius, Isabelle Domaizon</i>
			- <b>210332. The rise and fall of primary producers and consumers in a multiply-stressed shallow lake (Lake Qilu, China) over the last 200 years</b> <i>Anna-Marie Klamt, Fuming Qian, Kui Hui, Jiaoyuan Wang, Linpei Huang, Rui Li, Guangjie Chen</i>
			- <b>210422. Impacts of agricultural expansion on sedimentary organic matter composition in Lake Soyang (South Korea)</b> <i>Sujin Kang, Jung-hyun Kim, Bomchul Kim, Kyung-hoon Shin</i>

## R11. Ecotoxicology and Inland Waters

Chair :

17:00-17:50	Track E	4E_R11(1)	- <b>210119. Assessment of pesticide contamination in vegetable and water from Chhnok Tru floating community of Tonle Sap Lake</b> <i>Chanvorleak Phat, Sereyvath Yoeun, Minea Ouk, Kearakvattey Kun, Fidero Kuok, Boreborey Ty, Winarto Kurniawan, Eden G. Mariquit, Hirofumi Hinode</i>
			- <b>210362. Baikalsk Pulp and Paper Mill nowadays: production is ceased but pollution continues</b> <i>Yulia Zvereva, Oleg Timoshkin</i>
			- <b>210173. Effects of environmental stress on biomarker gene response in Zacco platypus</b> <i>Won-seok Kim, Ji-Hoon Kim, Kiyun Park, Ihn-Sil Kwak</i>
			- <b>210192. Occurrence and trophic transfer of synthetic musk compounds in the Geum River, Korea</b> <i>Ha-Eun Cho, Dokyun Kim, Eun-Ji Won, Hye-Jin Kim, Kwang-Guk An, Sunggyu Lee, Hyo-Bang Moon, Kyung-Hoon Shin</i>
			- <b>210245. Influence of sulfamethoxazole on the life table parameters of Brachionus rofundiformis under different Chlorella sp. densities</b> <i>Yutong Wang, Gaohua Ji, Mengyuan Li, Min Wen, Hongyan Xiao</i>
			- <b>210047. The effect of microplastic particles on interspecific competition in Daphnia</b> <i>Marcin Łukasz Żebrowski, Ewa Babkiewicz, Aleksandra Błażejewska, Madhumitha Rajesh, Szymon Pukos, Julia Wawrzeńczak, Wojciech Wilczyński, Piotr Maszczyk</i>

## Oral Q&A Parallel Session 5

### S6. Beyond the River Boundary: Ecological Water-axis Connectivity from River to Ocean

Chair :

18:00-18:50	Track A	5A_S6	- 210029. <b>Asymmetry of stream ecosystem by amphidromous shrimps in Japan</b> <i>Hiromi Uno</i>
			- 210025. <b>How to improve longitudinal connectivity of aquatic ecosystem: current status of fish passages in South Korea</b> <i>JuDuk Yoon, JeongHui Kim, Min-Ho Jang</i>
			- 210243. <b>The CO2 sequestration capacity of coastal sand dunes in South Korea</b> <i>Jihyun Kang</i>
			- 210011. <b>Atmospheric nitrogen and mercury depositions in the coastal areas of the Yellow Sea in the northwestern Pacific Ocean</b> <i>Haryun Kim, Hye Seon Kim, Seung Hee Han, Tae-Wook Kim, Dongwoo Yang, Giyoung Ok</i>
			- 210148. <b>Tracing environmental history recorded in intertidal flat sediments of Geum River estuary, South Korea.</b> <i>Giyoung Ock, Seung-Soo Chun, Hyung-Geun Park, Seong-Yong Ju</i>

### S17. Advanced applications of stable isotopes in aquatic ecology and environment

Chair :

18:00-18:50	Track B	5B_S17	- 210153. <b>A new automated setup for TOC-<math>\delta^{13}C</math> in water samples using TC/TN-IRMS</b> <i>Min-Seob Kim</i>
			- 210210. <b>Quantitative estimation of anthropogenic nitrate sources in the complex river system</b> <i>Seung-Hee Kim, Dong-Hun Lee, Min-Seob Kim, Han-Pil Rhee, Jin Hur, Kyung-Hoon Shin</i>
			- 210366. <b>Can compound specific isotope ratios explain physiological status in aquatic fish in response to winter survival and subsequent growth?</b> <i>Hee Young Yun, Seunghee Kim, Hyuntae Choi, Eun-Ji Won, Kyung-Hoon Shin</i>
			- 210304. <b>[Invited Talk] Trophic isotopic discrimination of amino acids, for illustrating food web structures and their dynamics</b> <i>Yoshito Chikaraishi</i>
			- 210264. <b>[Invited Talk] Ecological applications of mercury stable isotopes: From organism level to ecosystem-exchange for mercury</b> <i>Sae Yun Kwon, Saebom Jung</i>
			- 210208. <b>Integrated approach for quantitative estimation of particulate organic carbon sources in a complex river system</b> <i>Dong-Hun Lee, Seung-Hee Kim, Eun-Ji Won, Min-Seob Kim, Jin Hur, Kyung-Hoon Shin</i>

### R4. Plankton Ecology

Chair :

18:00-18:50	Track C	5C_R4(1)	- 210331. <b>Displaying morphological complexity and diversity of microalgae using a two dimensional</b>
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			<p><b>morphospace</b> <i>Gábor Borics, Gábor Várbíró, Enikő Török-Krasznai, Judit Görgényi, Zsolt Végvári, János Falucska, Verona Lurf</i></p>
			<p><b>- 210230. First record and dispersal of the Neotropic rotifer <i>Brachionus zahniseri</i> Ahlstrom, 1934 in the Palearctic (Lake Ewiges Meer, Germany)</b> <i>Rainer Deneke, Thomas Schröder, Hans-Heinrich Schuster</i></p>
			<p><b>- 210001. Impact of land use and lake depth on the Zooplankton Assemblages</b> <i>Łukasz Ślugocki, Robert Czerniawski</i></p>
			<p><b>- 210338. River-reservoir hybrid system effects on variations of zooplankton community as size class</b> <i>Eui-Jeong Ko, Gea-Jae Joo, Hyun-Woo Kim</i></p>
			<p><b>- 210222. Climate-induced changes of phytoplankton biomass and community structure in two Arctic lakes in North-East Greenland</b> <i>Sanne M. Moedt, Kirsten Olrik, Niels M. Schmidt, Erik Jeppesen, Kirsten S. Christoffersen</i></p>
			<p><b>- 210233. Use of zooplankton metrics to determine the trophic status and ecological potential of reservoirs, an approach in a large Mediterranean river watershed.</b> <i>Manuel Eduardo Muñoz Colmenares, Juan Miguel Soria, Eduardo Vicente</i></p>
			<p><b>- 210045. The effect of an elevated temperature and the presence of hypoxia on the interspecific competition of <i>Daphnia</i></b> <i>Marcin Łukasz Żebrowski, Ewa Babkiewicz, Kamil Dąbrowski, Karol Krajewski, Madhumitha Rajesh, Szymon Pukos, Julia Wawrzeńczak, Wojciech Wilczyński, Piotr Maszczyk</i></p>
			<p><b>- 210373. The role of local abiotic factors on zooplankton community structure in small vs large lakes in Indonesia</b> <i>Reliana Lumban Toruan, Fachmijany Sulawesty, Aiman Ibrahim, Imroatushshoolikhah Imroatushshoolikhah</i></p>

**R10. Biodiversity and Inland Waters**

Chair :

18:00-18:50	Track D	5D_R10(1)	<p><b>- 210389. Genetic and functional diversity of planktonic microbial communities in boreal lakes</b> <i>Kristiina Marita Vuorio, Sanni Aalto, Anita Mäki, Marja Tirola, Marko Järvinen</i></p>
			<p><b>- 210287. Hydraulic niche differentiation and head anatomy in the Drusinae subfamily (Trichoptera: Limnephilidae)</b> <i>Carina Zittra, Simon Vitecek, Thomas Schwaha, Stephan Handschuh, Jan Martini, Ariane Vieira, Hendrik C. Kuhlmann, Johann Waringer</i></p>

			<p>- <b>210200. Variations of the bacterial community composition in the top sediment of a human impacted lake in NW Greece</b> <i>Stefanos Moschos, Odysseas Piperagkas, Hera Karayanni</i></p> <p>- <b>210229. Periphyton development on artificial substrates across a biogeographical and trophic gradient</b> <i>Veronica Nava, Miguel Matias, Beata Messyas, Andreu Castillo-Escrivà, Barbara Leoni</i></p> <p>- <b>210419. Natural and human induced impacts on Lake Tana fisheries and management challenges: A Review paper</b> <i>Gizachew Teshome, Abebe Getahun</i></p> <p>- <b>210386. Survey of Garra fish and the status of the water quality in selected highland reservoirs and streams of Tigray, Northern Ethiopia</b> <i>Solomon Tesfay Gebrekiros, Pieter Lemmens, Maarten Van Steenberge, Mekonen Teferi, Haileselasie Tsegazeabe Hadush, Abraha Gebrekidan, Tsehaye Asmelash, Jos Snoeks, Luc De Meester</i></p> <p>- <b>210216. Relationship between the phylogenetic structure of the bacterial community inhabiting the lake water and the occurrence of Legionella and Aeromonas</b> <i>Karolina Grabowska, Bartosz Kiersztyn</i></p>
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**R15. Limnology in Tropical and Subtropical Regions of the World**

Chair :

18:00-18:50	Track E	5E_R15(1)	<p>- <b>210034. Assessment of Microbiological Water Quality in Tonle Sap River and Kob Srov Lake in Phnom Penh, Cambodia</b> <i>Porsry Ung, Kimsour Seang, Samphors Keo, Reasmey Tan, Kazuhiko Miyanaga, Yasunori Tanji</i></p> <p>- <b>210035. Evaluation of antibiotic-resistant bacterial community in water environment by culture-dependent and Next-Generation Sequencing</b> <i>Chanthol Peng, Kazuhiko Miyanaga, Reasmey Tan, Yasunori Tanji</i></p> <p>- <b>210040. Investigation of Multidrug-Resistant Bacteria in Tonle Sap Lake, Tonle Sap River, Mekong River, and Wastewater</b> <i>Reasmey Tan, Channarith Be, Chanthol Peng, Porsry Ung, Kazuhiko Miyanaga, Yasunori Tanji</i></p> <p>- <b>210105. Spatial Distribution of Well Water Quality in the Floodplain around Tonle Sap Lake</b> <i>Khy Eam Eang, Kong Chhuon, Ratino Sith, Ratha Doung, Bunhuot Ruos, Ratana Kheang, Seingheng Hul, Boreborey Ty, Sokly Siev, Chihiro Yoshimura, Rajendra Khanal</i></p> <p>- <b>210225. The influence of trophic status and temporal patterns on phytoplankton morphofunctional traits during a dry period in tropical shallow lakes</b> <i>Rayane Fernandes Vanderley, Vanessa Becker, Renata Panosso, Kemal A. Ger, Judit Padisák</i></p>
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			<p>- <b>210086. Relative importance of external and internal phosphorus loadings to Tonle Sap Lake, a large shallow tropical lake characterized by seasonal flood pulse</b> <i>Sovannara Uk, Vouchlay Theng, Ty Sok, Sophal Try, Chantha Oeurng, Chihiro Yoshimura</i></p>
			<p>- <b>210141. Spatiotemporal dynamics of chlorophyll-a and algae phycocyanin in a large shallow tropical lake characterized by seasonal flood pulse</b> <i>Sovannara Uk, Sophanna Ly, Ty Sok, Sophal Try, Chantha Oeurng, Fujii Manabu, Chihiro Yoshimura</i></p>

### Oral Q&A Parallel Session 6

#### R1. Physical Limnology

Chair :

19:00-19:50	Track A	6A_R1	<p>- <b>210143. Monitoring and particle-tracking simulation to clarify littoral-to-pelagic nutrient export in Lake Biwa, Japan, during the spring rice-planting season</b> <i>John C. Wells, Syuhei Ban, Xin Liu, Ken'ichi Osaka, Naoshige Goto</i></p>
			<p>- <b>210107. Continuous bradymixis: slow water column mixing by internal waves along the thermocline in a stratified shallow north temperate zone lake</b> <i>Nelson G. Hairston, Nelson G. Hairston, Jr., Lindsay R Schaffner, Teryl Gronwall, Dorothy Gronwall, Alexandra King, N. Roxanna Razavi, Lisa B. Cleckner, Bruce Gilman</i></p>
			<p>- <b>210270. Winter limnology: how do hydrodynamics and biogeochemistry shape ecosystems under ice?</b> <i>Joachim Jansen, Sally MacIntyre, David C. Barrett, Yu-Ping Chin, Alicia Cortés, Alexander L. Forrest, Allison R. Hrycik, Rosemary Martin, Bailey C. McMeans, Milla Rautio, Robert Schwefel</i></p>
			<p>- <b>210063. Evaluation of Spatio-temporal Nitrate Transport and Yield delivering to Tonle Sap Lake from its Largest Tributary</b> <i>Chien Sotheareth, Sok Ty, Oeurng Chantha, Ich Ilan, Kaing Vinhteang, Yoshimura Chihiro</i></p>

#### R3. Role of Hydrology in Inland Waters

Chair :

19:00-19:50	Track B	6B_R3	<p>- <b>210359. Evaluation of nutrient loading associated with land-use characteristics in the upstream watershed of a dam reservoir</b> <i>Dong-Kyun Kim, Seung-bin Yang, Ho-jeong jo, Dong-Young Back, Hye-Suk Yi, Youngsung Kim, Kwangsoon Choi</i></p>
			<p>- <b>210037. Stream hydrology and water quality in an Australian subtropical agricultural catchment</b> <i>Donghwan Kim, Melanie Roberts, Jing Lu, David Hamilton</i></p>
			<p>- <b>210084. Assessment of Groundwater and Surface Water Exchange Under Climate Change Scenario in the Tonle Sap Basin</b> <i>Sith Ratino, Heng Seangmeng, Doung Ratha, Chhuon Kong, Eng Khyeam, Siev Sokly, Rajendra Khanal, Yoshimura Chihiro</i></p>

			<p>- 210220. <b>Assessing the impact of climate change on Muda Lake's level in Malaysia.</b> <i>Zati Sharip, Mohd Khuzairi Abdul Aziz, Mohd Zaki Mat Amin, Md Nasir Md. Noh</i></p>
			<p>- 210231. <b>Assessing the role of hydrology on the phosphorus load delivered to lake Iseo by its tributaries</b> <i>Marco Pilotti, Giulia Valerio</i></p>
			<p>- 210403. <b>Vertical Distributions of Water Temperature and Phytoplankton in an Artificially Regulated River: a Proof for Thermal Stratification</b> <i>Eunsong Jung, Gea-Jae Joo, Kwang-Seuk jeong, Hyo-Gyeom Kim</i></p>

#### R4. Plankton Ecology

Chair :

19:00-19:50	Track C	6C_R4(2)	<p>- 210400. <b>Influence of grazers on the expression rates of frustule development genes (Stephanodiscus hantzschii)</b> <i>Kwang-Seuk Jeong, Keon-Young Jeong</i></p>
			<p>- 210411. <b>Investigating the phylogeography of Cyclops vicinus Uljanin, 1875 and C. kikuchii Smirnov, 1932 in the Japanese archipelago with implications of their ecological characteristics.</b> <i>Imane Sioud, Wataru Makino, Jotaro Urabe</i></p>
			<p>- 210407. <b>Physical structure of the environment affects diversity of metaphytic algal assemblages</b> <i>Áron Lukács, Enikő T-Krasznai, Sándor Szabó, Gábor Várberő, Judit Görgényi, Gábor Borics</i></p>
			<p>- 210125. <b>Successful control of Microcystis bloom using an algicidal bacterium Paucibacter sp. DH15: a mesocosm study</b> <i>Le Van ve, So-Ra Ko, Mingyeong Kang, Sang-Ah Lee, Chan-Yeong Park, Hee-Mock Oh, Chi-Yong Ahn</i></p>
			<p>- 210132. <b>Molecular monitoring of invasive exotic cyanobacteria and their toxins in the Nakdong River, Korea</b> <i>Yong-Jin Kim, Hae-Kyung Park, In-Soo Kim</i></p>
			<p>- 210186. <b>Metabolomes of Myriophyllum spicatum in coexistence experiments with Microcystis aeruginosa and their seasonal and regional variabilities in South Korea</b> <i>Seonah Jeong, Dongwoo Yang, Sungbae Joo, Deokjoo Son, Sangkyu Park</i></p>
			<p>- 210193. <b>Environmental factors affecting the primary production and community of phytoplankton in dam reservoir where Harmful algal blooms (HABs) occur every summer</b> <i>Dokyun Kim, Jisoo Choi, Hye-ji Oh, Kwang-Hyeon Chang, Kwangsoon Choi, Kyung-Hoon Shin</i></p>
			<p>- 210308. <b>Effect of acidic stress on survival and metabolic activity of zooplankton collected from Lake Biwa, Japan</b> <i>Gao Huanan, Liu Xin, Ban Syuhei</i></p>

#### R8. Ecosystem Functions and Services Relationships in Inland Waters

Chair :

19:00-19:50	Track D	6D_R8	<p>- 210339. <b>Development of ecosystem health assessment focused of the fish-based index</b> <i>Hae-Jin Lee</i></p>
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			<p>- <b>210247. Revealing COVID-19 induced changes of visitor pattern in Ramsar sites and national parks using mobile network data</b> <i>Ji Yoon Kim, Jun Nishihiro, Takahiro Kubo</i></p>
			<p>- <b>210096. Measurement of the vulnerability of French lakes based on the functionality of fish communities.</b> <i>Liess Bourai, Christine Argillier, Maxime Logez</i></p>
			<p>- <b>210236. Impoundment of two small Canadian sub-Arctic lakes - a window into limnological and aquatic ecosystem changes that may result from climate change</b> <i>John Faithful, Elaine Irving, Kelly Hille, Leah James, Zsolt Kovats, Kerrie Serben, Sarah McLean</i></p>

**R13. Remote Sensing and Inland Waters**

Chair :

19:00-19:50	Track E	6E_R13	<p>- <b>210076. Global remotely sensed phenology of Blue-Green Ecosystems</b> <i>Jelle Lever, Yann Vitasse, Luis Gilarranz, Petra D'Odorico, Daniel Odermatt</i></p>
			<p>- <b>210077. Long-term changes in annual maximum and minimum water temperatures in Tonle Sap Lake, Cambodia</b> <i>Yoichi Fujihara, Koki Okuyama, Keisuke Hoshikawa, Hideto Fujii, Takashi Nakamura, Sambo Lun, Sokly Siev</i></p>
			<p>- <b>210279. Machine Learning Remote Sensing of Optical Water Types in a Large Shallow Lakes</b> <i>Blix Katalin, Viktor R. Tóth</i></p>
			<p>- <b>210323. Prediction of trophic status in reservoirs in South Korea based on remote sensing images using a random forest model</b> <i>Dae-Seong Lee, YoungWoo Kim, YoonKyung Cha, Young-Seuk Park</i></p>
			<p>- <b>210330. Determining surface water temperature and ice cover for 1.4 million global lakes using remote sensing observations</b> <i>Maartje Catharina Korver, Bernhard Lehner, Jeffrey A. Cardille</i></p>
			<p>- <b>210156. Remote sensing as tool to establish the presence, density, temporal and spatial distribution of cyanobacterial blooms at reservoirs in Spain</b> <i>Juan Miguel Soria, Rebeca Pérez, Xavier Sòria-Perpinyà, Eduardo Vicente</i></p>
			<p>- <b>210160. Thirty five years of hydrological and quality monitoring of Mar Chica lagoon (Nador, Morocco) using Landsat time-series data</b> <i>Juan Miguel Soria, Greta Jankauskaite, Rebeca Pérez, Xavier Sòria-Perpinyà</i></p>
			<p>- <b>210060. A cathment perspective: sediment export, deforestation, littoral vegetation development and water quality of iconic Lake Chamo, South West Ethiopia</b> <i>Edlawit Abera Tadesse, Fassil Eshetu Tefferra,</i></p>

			<i>Pieter Lemmens, Ayele Bekele Mekonnen,          Alemayehu Kasaye Tilahun, Gemechu Leta,          Yared Godine, Fekadu Massebo, Luc De Meester</i>
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### Plenary Lectures

20:30-21:10	-	-	<a href="#">Plenary Lecture 4 :_A Unique Microbial Loop in the Hypolimnion of Lake Biwa</a> <i>Shinichi Nakano (Center for Ecological Research, Kyoto University, Japan)</i>
21:10-21:50			<a href="#">Plenary Lecture 5 :_Global change and the stability of ecosystems</a> <i>Ian Donohue (School of Natural Sciences, Department of Zoology, Trinity College Dublin, Ireland)</i>

### Brain Dates with Eminent Scholars

22:00-23:00	Track A	BD_2A	<b>Brain Dates with Eminent Scholars</b>
	Track B	BD_2B	<b>Brain Dates with Eminent Scholars</b>
	Track C	BD_2C	<b>Brain Dates with Eminent Scholars</b>
	Track D	BD_2D	<b>Brain Dates with Eminent Scholars</b>
	Track E	BD_2E	<b>Brain Dates with Eminent Scholars</b>

## August 26(Thu)

Time	Track	Session Code	Program
<b>Oral Q&amp;A Parallel Session 7</b>			
<b>S2. Interactive Effects of Climate Change and Eutrophication upon Algal Bloom Dynamics</b>			
<i>Chair :</i>			
09:00-09:50	Track A	7A_S2(1)	- <b>210014. Mitigating harmful cyanobacterial blooms in a hotter, hydrologically more extreme world</b> <i>Hans W Paerl, Karl E Havens, Nathan S Hall, Timothy G Otten, Mengyuan Zhu, Hai Xu, Guangwei Zhu, Boqiang Qin</i>
			- <b>210219. Contributions of external nutrient loading and internal cycling to cyanobacterial bloom dynamics in Lake Taihu, China: Implications for nutrient management</b> <i>Hai Xu, Mark J McCarthy, Hans W Paerl, Justin D Brookes, Guangwei Zhu</i>
			- <b>210238. P limitation in cyanobacteria: the roles of population size, pulses, and organic P</b> <i>Elena Fukasawa Galvanese, André Andrian Padial, Luis Aubriot</i>
			- <b>210257. Climate exerts a greater modulating effect on the phytoplankton community after 2007 in eutrophic Lake Taihu, China: Evidence from 25 years of recordings</b> <i>Chaoxuan Guo, Guangwei Zhu, Boqiang Qin, Yunlin Zhang, Mengyuan Zhu, hai Xu, Hans W. Paerl</i>
			- <b>210161. Management technology in response to climate change and the threat of HABs occurrence</b> <i>Heesuk Lee</i>
			- <b>210269. Rising atmospheric CO2 levels result in an earlier cyanobacterial bloom-maintenance phase with higher algal biomass</b> <i>Jingjie Ma, Peifang Wang</i>
<b>S4. Carbon Source and Sink Dynamics in Inland Aquatic Systems: from Microbial Activities to Gas Emission</b>			
<i>Chair :</i>			
09:00-09:50	Track B	7B_S4	- <b>210055. Sulfate as an overlooked control of aquatic methane cycling in Canadian prairie inland waters</b> <i>Cynthia Soued, Kerri Finlay, Lauren Bortolotti, Peter R Leavitt, Bjoern Wissel, Sydney Jensen, Matthew Bogard</i>
			- <b>210103. What are lake bubbles telling us? - Methane production in littoral sediments</b> <i>Jihyeon Kim, Yves Prairie</i>
			- <b>210095. Validation of a simple model of CH4 emissions from lakes and reservoirs</b> <i>Yves Prairie, Jihyeon Kim, Shoji Thottathil, Cynthia Soued, Paula Reis, Sara Mercier-Blais</i>
			- <b>210110. Near-surface Turbulence in Tropical Inland Waters under Light Winds: Implications for Gas Fluxes</b> <i>Sally MacIntyre, Joao F. Amaral, Pedro M. Barbosa, John Melack</i>

#### R4. Plankton Ecology

Chair :

09:00-09:50	Track C	7C_R4(3)	- <b>210124. Microbiome of cyanobacterial bloom and its application to control the bloom</b> <i>Chi-Yong Ahn, So-Ra Ko, Le Van Ve, Chan-Yeong Park, Mingyeong Kang, Hee-Mock Oh</i>
			- <b>210073. Implications of flow regulation for habitat conditions and phytoplankton populations of the Nakdong River (South Korea)</b> <i>Hyo Gyeom Kim, Friedrich Recknagel, Hyun-Woo Kim, Gea-Jae Joo</i>
			- <b>210066. Effects of substrate addition and blue LED irradiation on the competition between diatom <i>Nitzschia palea</i> and cyanobacteria <i>Microcystis aeruginosa</i></b> <i>Shunsuke Watanabe, Naoki Matsunami, Ikki Ookuma, Naythen Tannen Podiopen, Megumu Fujibayashi, Yasushi Iseri, Aimin Hao, Takahiro Kuba</i>
			- <b>210232. Morpho-physiological traits of toxic cyanobacterial blooms in a Pampean (Argentina) shallow lake</b> <i>Fiorella Tatiana Cocciolo, Lilen Yema, María Laura Sánchez, Carolina González, Inés O'Farrell</i>
			- <b>210398. Interactive effects of food quantity and stoichiometric food quality on <i>Daphnia</i> growth: implications for the growth rate hypothesis</b> <i>Clay Prater, Jana Isanta-Navarro, James J. Elser, Punidan D. Jeyasingh</i>
			- <b>210391. Characterizing plankton composition and biomass associated with geophysicochemical features of lakes</b> <i>Dong-Kyun Kim, Hyun-Woo Kim, Yuji Heo</i>
			- <b>210414. VisualSpreadsheet with Artificial Intelligence: Improving FlowCam Image Recognition for Plankton Analysis using Deep Learning</b> <i>Harry Nelson, Savannah Judge, Colin Mahoney</i>
- <b>210404. Molecular tools for the investigation of pelagic diatom mucilage: The curious case of lake snow and invasive <i>Lindavia intermedia</i> in New Zealand lakes</b> <i>Marc Schallenberg, Phil Novis</i>			

#### R10. Biodiversity and Inland Waters

Chair :

09:00-09:50	Track D	7D_R10(2)	- <b>210059. Distribution of zooplankton in soda lakes: a global view</b> <i>Nandini Sarma, S.S.S. Sarma</i>
			- <b>210274. Saving the endangered freshwater fish <i>Sardinella tawilis</i> (Herre, 1927) through ex-situ captivity</b> <i>Ma. Vivian dela Cruz Camacho, Jon Carlo B Gonzales, Kent Elson S Sorgon, Beatriz M Lontoc, Roxanne D Fajardo, Leslie Diaz, Olivio E Matalog, Rey E Matalog, Joric Pagkatipunan, Jeric Wagan</i>
			- <b>210049. Invasive mussel <i>Limnoperna fortunei</i> (Dunker, 1857) infestation severity assessment methods in hydroelectric power plants</b> <i>Raquel Figueira, Humberto Fortunato, Victor Barreto Braga Mello</i>

			<p>- 210113. Differences in bacterial community composition in shallow lakes from Nothofagus pumilio forest (Patagonia, Argentina) <i>Marcela Bastidas Bastidas Navarro, Verónica Díaz Villanueva, Esteban Balseiro, Beatriz Modenutti</i></p>
			<p>- 210115. Host size matters for spawning: the spawning patterns of the Korean indigenous freshwater bitterling fishes in relation to host mussel's size in the Han River <i>Hee-kyu Choi, Hyuk Je Lee</i></p>
			<p>- 210147. The genetics of chum salmon (<i>Oncorhynchus keta</i>) conservation at its western range limit: local-scale genetic structure and diversity among wild and hatchery populations from South Korea <i>Ji Eun Jang, Ju Kyoung Kim, Seung-Min Yoon, Hwang-Goo Lee, Wan-Ok Lee, Hyuk je Lee</i></p>
			<p>- 210167. Identification and distribution of the non-biting midge (Diptera: Chironomidae) using morphological characteristics and DNA barcodes in urban stream <i>Jae-won Park, Won-Seok Kim, Ihn-Sil Kwak</i></p>
			<p>- 210127. Diversity Patterns of Mollusks in the Tropical Maar Lakes of San Pablo City, Laguna, Philippines <i>Emmanuel Ryan Celzo De Chavez, Kinsley Perez, Sedney Mendoza, Maria Claret Lauan Tsuchiya</i></p>

**Oral Q&A Parallel Session 8**

**S2. Interactive Effects of Climate Change and Eutrophication upon Algal Bloom Dynamics**

Chair :

10:00-10:50	Track A	8A_S2(2)	<p>- 210024. Hydrogen peroxide can be a plausible biomarker in cyanobacterial responses to environmental stresses and development of a prediction model <i>Takashi Asaeda, Helayaye Damitha Lakmali Abeynayaka, Mizanur Rahman</i></p>
			<p>- 210266. The regulation on bloomed <i>Microcystis</i> by aeration disturbance: Shift from <i>Microcystis</i> dominance to diatom dominance <i>Xiaodong Wang</i></p>
			<p>- 210056. Intra-population strain variation in phosphorus utilization of the harmful freshwater cyanobacterium <i>Raphidiopsis raciborskii</i> <i>Man Xiao, Michele Burford, David Hamilton</i></p>
			<p>- 210261. Quantifying the dependence of cyanobacterial growth to nutrient for the eutrophication management of temperate-subtropical shallow lakes <i>Wei Zou</i></p>
			<p>- 210280. The genetic diversity of bicarbonate transporter in the blooming cyanobacterium <i>Microcystis aeruginosa</i>: The biological and ecological implication <i>Eun-Jeong Kim, Heesuk Lee</i></p>
			<p>- 210033. Extreme Weather Event Induce <i>Microcystis</i> Blooms in Fuchunjiang Reservoir, China</p>

*Guangwei Zhu, Chaoxuan Guo*

### R5. Food Webs in Aquatic Ecosystems

Chair :

10:00-10:50	Track B	8B_R5(2)	- <b>210170. Longitudinal investigation of freshwater food web change in response to catchment land-use patterns</b> <i>Jia Huan Liew, Darren Chong Jinn Yeo</i>
			- <b>210106. The effects of grazing and phosphorus recycling by zooplankton on freshwater microbial loop</b> <i>Luca Schenone, Beatriz Estela Modenutti, Nicolás Martyniuk, Marcela Bastidas Navarro, Cecilia Laspoumaderes, Esteban Gabriel Balseiro</i>
			- <b>210065. How pelagic food webs are cascaded by nitrogen as well as carbon subsidies by profundal methane-oxidizing bacteria in a deep oligotrophic reservoir?</b> <i>Erica Silk Perez Dela Paz, Pei-Chi Ho, Fan-Sian Lin, Chih-Hao Hsieh, Chaochen Lai, Fuh-Kwo Shiah, Chia-Ying Ko, Noboru Okuda</i>
			- <b>210282. Benthic macroinvertebrate food webs in tropical, forested streams of the Lacantún River sub-basin, Mexico</b> <i>Daniela Cortes Guzman, Javier Alcocer, Dolores Planas, Kenneth W Cummins</i>
			- <b>210392. Comparative study about the fish community parameters regarding their biological interactions in different large river systems: focused on the isotopic niche space</b> <i>Hye-Ji Oh, Yeon-Ji Chae, Kyung-Hoon Shin, Min-Ho Jang, Hyun-Woo Kim, Kwang-Hyeon Chang</i>
			- <b>210394. Combining DNA barcoding and stable isotope analysis to determine contribution of food source for Erythroculter erythropterus in regulated large river ecosystem</b> <i>Jeong Soo Gim, Donghyun Hong, Hyunbin Jo, Gea-Jae Joo</i>

### R11. Ecotoxicology and Inland Waters

Chair :

10:00-10:50	Track C	8C_R11(2)	- <b>210050. Effect of malachite green on the survival and reproduction of the rotifer Brachionus havanaensis (Rotifera: Brachionidae)</b> <i>S.S.S. Sarma, Evelyn López Martínez, S. Nandini</i>
			- <b>210051. Bayesian method for improving measurement accuracy of cyanobacterial toxin (microcystins)</b> <i>Song S. Qian</i>
			- <b>210018. "Floc and Sink" Technique removes cyanobacteria and microcystins from tropical reservoir water</b> <i>Renan Silva Arruda, Natalia Pessoa Noyma, Leonardo De Magalhães, Marcella Coelho Berjante Mesquita, Éryka Costa De Almeida, Ernani Pinto, Miquel Lüring, Marcelo Manzi Marinho</i>
			- <b>210057. Demographic responses of the predator rotifer Asplanchna sieboldii fed Plationus patulus</b>



			<p>(Rotifera) exposed to cadmium and microplastics. <i>José Antonio Hernández Lucero, S. S. S. Sarma, S. Nandini</i></p>
			<p>- 210123. The combined effect of crude extracts of the cyanobacterial consortium and temperature on the demographic characteristics of <i>Ceriodaphnia dubia</i>. <i>Cesar Alejandro Zamora-Barrios, Nandini Sarma, S.S.S. Sarma</i></p>
			<p>- 210379. Leaf-litter derived organic matter affects disinfection by-product formation during water treatment and subsequent toxicity <i>Hannah Franklin, Michele Burford, Frederic Leusch, Anthony Carroll, Katrin Doederer, Joshua Hayton, Paul Maxwell, Paul Fisher, Peat Neale</i></p>

## R10. Biodiversity and Inland Waters

Chair :

10:00-10:50	Track D	8D_R10(3)	<p>- 210203. Changes in habitat characteristics of invasive nutria (<i>Myocastor coypus</i>) from 2007 to 2021 in South Korea <i>Sungwon Hong</i></p>
			<p>- 210393. Discrimination of Spatial Distribution of Aquatic Organisms in a Coastal Ecosystem Using eDNA <i>Hyunbin Jo, Dong-Kyun Kim, Kiyun Park, Gea-Jae Joo, Guyun Kim, Ihn-Sil Kwak</i></p>
			<p>- 210146. Growth and indirect monitoring of <i>Pectinatella magnifica</i> colony in large river systems in South Korea <i>Eui-Jeong Ko, Gea-Jae Joo, Ji Yoon Kim, Hyun-Woo Kim, Timothy S Wood</i></p>
			<p>- 210205. Parasite fish Biodiversity of a Neotropical Coastal River <i>Ana Paula Lula Costa, Luddy Searom Carias de Moraes, André Andrian Padial</i></p>
			<p>- 210217. Emerging Waterborne Parasites in Surface Waters of the Seven Lakes of San Pablo, Laguna, Philippines <i>Vachel Gay Velasco Paller, Jeph Roxy Macaraig, Raisa Mendoza, Gabrielle Ann Posa, Rey Verona, Modesto Bandal Jr</i></p>
			<p>- 210281. Relationship between propagation of a filamentous green alga, <i>Klebsormidium flaccidum</i>, and DIC concentration in a volcanic acidified spring water at southern part of Mount Ontake, central Japan <i>Kentaro Nozaki, Yoshitaka Matsumoto, Tomomasa Taniguchi, Akiko Usami, Takashi Tashiro</i></p>
			<p>- 210408. Distribution and construction of barcode library of Chironomidae (Diptera) from four Korean large rivers <i>Hyo Jeong Kang, Min Jeong Baek, Ji Hyoun Kang, Yeon Jae Bae</i></p>

## Oral Q&A Parallel Session 9

## R2. Biogeochemistry in Aquatic Ecosystems

Chair :

11:00-11:50	Track A	9A_R2	- <b>210108. Are Oxygen Changes in Closed Ecological Systems Predictive of Lake Metabolism?</b> <i>Frieda Blou Taub</i>
			- <b>210300. Biogeochemical characteristics controlling on phosphorus release from lake hypolimnion in tropical lakes with different typology: Implication of internal phosphorus loading on lake eutrophication</b> <i>Cynthia Henny, Sulung Nomosatryo, Tri Suryono, Taofik Jasalesmana, Aan Dianto, Denalis Rohaningsih, Rosidah Rosidah, Arianto Budi Santoso</i>
			- <b>210142. A novel slurry approach to identify nutrient export hotspots from catchment erosion within specific land uses</b> <i>Jing Lu, Alexandra Garzon-Garcia, David Hamilton, Joanne Burton, Michele Burford</i>
			- <b>210335. Trace element limitation and regulation of phytoplankton growth in lakes of the Taupo Volcanic Zone</b> <i>Markus Degg, Claudine Stirling, Malcolm Reid, Kyyas Seyitmuhammedov, Niklas Lehto, Susanna A Wood, Karl Safi, Piet Verburg</i>
			- <b>210150. Physico-Chemical Characteristics of Acid Mine Drainage in Cambodia: A Case Study in Modulkiri, Cambodia</b> <i>Sopheha Boeut, Kimleang Kheourn, Kuoch Theary</i>
			- <b>210375. Assessment of the Pysicho-chemical Characteristics of Soil and Water in Daechung Lake, South Korea</b> <i>Nash Jett De Guzman Reyes, Heidi Guerra, Franz Kevin Geronimo, Hyeseon Choi, Minsu Jeon, Lee-Hyung Kim</i>

**S12. From White river to Green River: Cause, Impact and Outlook**

Chair :

11:00-11:50	Track B	9B_S12	- <b>210357. Numerical experiment of bed change depending on vegetation growth and flood discharge at a sharply curved river channel</b> <i>Taeun Kang, Chang-Lae Jang</i>
			- <b>210244. Integrated Hydraulic Modelling, Water Quality Modelling and Habitat Assessment for Sustainable Water Management: A Case Study of the Anyang-cheon Stream, Korea</b> <i>Byungwoong Choi</i>
			- <b>210235. Expansion and changes of riparian vegetation in an isolated floodplain of channelized streams under a temperate monsoonal climate</b> <i>Kang-Hyun Cho</i>
			- <b>210234. Ecological Implications of Vegetation Colonization of Delta-Backwater and Drawdown Areas on River Reservoirs</b> <i>Mark Douglas Dixon, Malia A Volke, Michael L Scott, Catherine C Beall, W Carter Johnson</i>

			- <b>210036. The vegetation expansion in the river due to the climate change</b> <i>Won Kim</i>
			- <b>210005. New method to identify the colonization level of riparian vegetation species using stress analysis</b> <i>Takashi Asaeda, Md Harun Rashid, Mizanur Rahman, Fumiko Imamura</i>

### R15. Limnology in Tropical and Subtropical Regions of the World

Chair :

11:00-11:50	Track C	9C_R15(2)	- <b>210413. Impacts of prolonged drought event on phytoplankton structure in a tropical semi-arid water supply reservoir</b> <i>Vanessa Becker, Mariana R.A. Costa, Maria Marcolina Cardoso</i>
			- <b>210067. Mark- Recapture Strategy to Estimate Population Size and Track Site Fidelity of the Invasive Knifefish (Chitala ornata) in Laguna de Bay, Southern Luzon, Philippines</b> <i>Ma. Vivian dela Cruz Camacho, Jon Carlo B Gonzales</i>
			- <b>210109. Algal assimilation determines body mass and secondary production of benthic macroinvertebrates in tropical, first-order streams</b> <i>Daniela Cortes Guzman, Javier Alcocer</i>
			- <b>210171. Permissible Phosphorous Load of a Tropical Lake Receiving Seasonal Flood Pulse</b> <i>Vinhteang Kaing, Vouchlay Theng, Sovannara Uk, Chihiro Yoshimura</i>
			- <b>210206. Flood Pulse Dynamics Drive Benthic Macroinvertebrate's Community Functional Structure in an Amazonian Stream</b> <i>Théo Dias Arueira, María Silvina Bevilacqua, Leandro Schuvartz Barbosa Rocha, Marcos Paulo Figueiredo-Barros, Reinaldo Luiz Bozelli, Francisco De Assis Esteves</i>
			- <b>210215. A perennial Cyindrospermopsis bloom in a high elevation lake in the Andes, Yahuarcocha (Ecuador).</b> <i>Karen Marlene Portilla, Elizabeth Velarde, Koenraad Muylaert</i>
			- <b>210242. Carbon budget in two tropical, high mountain lakes in Central Mexico</b> <i>Renato Robinson Aucancela, Javier Alcocer, Ismael Fabian Soria, Luis Alberto Oseguera, Diana Ibarra</i>

### R10. Biodiversity and Inland Waters

Chair :

11:00-11:50	Track D	9D_R10(4)	- <b>210071. Habitat range shift of aquatic plant species under climate change and land cover modification</b> <i>Ji Yoon Kim, Jun Nishihiro</i>
			- <b>210424. The habitat loss of Kori Salamander (Hynobius yangi) due to anthropogenic effects : The Distribution, Translocation and Alternative Habitat Creation</b> <i>Yoseok Choj, Hap-Su Kim, Suk-Hwan Hong,</i>

			<p><i>Mi-Yeon An, Gea-Jae Joo</i></p> <hr/> <p><b>- 210397. The Spatial Distribution and Morphological characteristics of Chum Salmon (<i>Oncorhynchus keta</i>) in South Korea</b> <i>Donghyun Hong, Hyunbin Jo, Ki Baik Sung, Gea-Jae Joo</i></p> <hr/> <p><b>- 210346. Changes of macroinvertebrates communities responding to temperature changes in space and time</b> <i>Da-Yeong Lee, Dae-Seong Lee, Soon-Jin Hwang, Hae-Jin Lee, Young-Seuk Park</i></p> <hr/> <p><b>- 210341. Population genetic analyses of the burrowing mayfly <i>Ephemera orientalis</i> (Ephemeroptera: Ephemeridae) in South Korea using novel polymorphic microsatellites</b> <i>Ji Hyoun Kang, Changseob Lim, Jisoo Kim, Jeong Mi Hwang, Yeon Jae Bae</i></p> <hr/> <p><b>- 210311. Effect of temperature difference on swimming performance of domestic freshwater fish</b> <i>Misheel Bold, Kyu-Jin Kim, Kun-Woo Min, Jun-Wan Kim, Min-Ho Jang</i></p> <hr/> <p><b>- 210288. Environmental DNA methods in the field: on-site eDNA protocol using ultra-rapid mobile PCR</b> <i>Hideyuki Doj, Takeshi Watanabe, Naofumi Nishizawa, Tatsuya Saito, Hisao Nagata, Yuichi Kameda, Nobutaka Maki, Kousuke Ikeda, Takashi Fukuzawa</i></p>
<b>Plenary Lectures</b>			
20:30-21:05	-	-	<p><b><u>Student Plenary Lecture : Vulnerability of freshwater megafauna to global environmental change</u></b> <i>Fengzhi He (Leibniz Institute of Freshwater Ecology and Inland Fisheries (IGB), Berlin, Germany)</i></p>
21:05-21:15	-	-	<p><b><u>Award to Winners of SIL Student Competition</u></b> <i>Judit Padisak</i></p>
21:15-21:20	-	-	<p><b><u>2nd prize winner, SIL student competition</u></b> <i>Mandy Velthuis</i></p>
21:20-21:25	-	-	<p><b><u>3rd prize winner, SIL student competition</u></b> <i>Nico Martinuik</i></p>
21:25-22:05	-	-	<p><b><u>Baldi Memorial Lecture : Limnologists have a role in ensuring a better future for the planet and us.</u></b> <i>Michele Burford (Australian Rivers Institute, Griffith University, Australia)</i></p>
<b>Closing Ceremony</b>			
22:10-23:10	-	-	<b>Closing Ceremony</b>