

DAY 1: 24 January, 2019

- 09:00-09:30 Registration
- 09:30-09:35 Welcome speech by Prof. Yamazaki, K., President of Kanazawa University, Japan
- 09:35-09:40 Opening remarks by Prof. Nagao, S., Director of the Institute of Nature and Environmental Technology, Kanazawa University, Japan

Atmospheric environment and its human effects (1)

Chair: Assoc. Prof. Matsuki, A.

- 09:40-10:05 Combined effect of heat waves and outdoor air pollution on respiratory health: literature review by Dr. Grigorieva, E. A. (Far Eastern Branch, Russian Academy of Sciences, Russia)
- 10:05-10:30 Effects of ambient chemicals on chronic cough by Prof. Nakamura, H. (Kanazawa University, Japan)
- 10:30-10:55 Acute health effects of air pollution in China: evidence from biomarkers to mortality by Assoc. Prof. Chen, R. (Fudan University, China)
- 10:55-11:05 Coffee break

Atmospheric environment and its human effects (2)

Chair: Assoc. Prof. Tang, N.

- 11:05-11:30 Heterogeneous photochemical conversion of NO₂ to HONO on the humic acid surface under simulated sunlight by Prof. Han, C. (Northeastern University, China)
- 11:30-11:55 Linkage between nighttime new particle formation and winter monsoon: Insights from the long-term observation in Noto region, western coast of Japan by Assoc. Prof. Matsuki, A. (Kanazawa University, Japan)
- 11:55-12:20 Secondary production of toxic 1-nitropyrene during the mineral dust event in Northeast Asia approached by a chemical transport model by Assoc. Prof. Inomata, Y. (Kanazawa University, Japan)
- 12:20-13:20 Lunch break

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Marginal sea environment

Chair: Assoc. Prof. Inoue, M.

- 13:20-13:45 Mesoscale eddies in the Japan Sea: recent observations in the northeastern part by Dr. Lobanov, V. (*Far Eastern Branch, Russian Academy of Sciences, Russia*)
- 13:45-14:10 Redfield ratios of remineralization determined by nutrients data in the Sea of Japan by Dr. Tischenko, P.Ya. (*Far Eastern Branch, Russian Academy of Sciences, Russia*)
- 14:10-14:35 Environmental behavior of the PAHs along the Tsushima Current during 2014–2017 by Assist. Prof. Matsunaka, T. (*Kanazawa University, Japan*)
- 14:35-15:00 Transport of the Fukushima-derived radiocesium across the North Pacific between 2011 and 2017 by Dr. Kumamoto, Y. (*Japan Agency for Marine-Earth Science and Technology, Japan*)
- 15:00-15:25 Transport of accident-derived radionuclides near the seafloor off Fukushima: tracking with advanced analysis. by Assoc. Prof. Otosaka, S. (*The University of Tokyo, Japan*)
- 15:25-15:50 Coastal management in the Japan Sea by Dr. Yoshida, T. (*Northwest Pacific Region Environmental Cooperation Center, Japan*)
- 15:50-16:00 Coffee break

Terrestrial environment in East Asia (1)

Chair: Assoc. Prof. Nishikawa, U.

- 16:00-16:25 Lake level change in southern part of Mongolia by Prof. Hasebe, N. (*Kanazawa University, Japan*)
- 16:25-16:50 Network skewness quantifies loss of resilience in human-impacted lake ecosystems by Dr. Wang, R. (*Nanjing Institute of Geography and Limnology, Chinese Academy of Science, China*)
- 16:50-17:15 Control of water chemistry in alkaline lakes by Assoc. Prof. Fukushi, K. (*Kanazawa University, Japan*)

DAY 2: 25 January, 2019

09:15-09:30 Registration

Terrestrial environment in East Asia (2)

Chair: *Prof. Hasebe, N.*

09:30-09:55 Application of the City Blueprint approach in the developing country: In case study in Ulaanbaatar city, Mongolia by *Prof. Altansukh, O. (National University of Mongolia, Mongolia)*

09:55-10:20 Disproportional Responses of DOC and DIC Transport in subtropical small mountainous rivers in Taiwan by *Prof. Huang, J.-C. (National Taiwan University, Taiwan)*

10:20-10:55 Coffee break

Ecosystem and human health effects studies (1)

Chair: *Prof. Suzuki, N.*

10:55-11:20 Microbial dispersal limitation to isolated soil habitats in the McMurdo Dry Valleys of Antarctica by *Prof. Pointing, S. B. (Yale-NUS College, Singapore)*

11:20-11:45 Diversity gradients, species richness and rates of evolution by *Prof. Gillman, L. N. (Auckland University of Technology, New Zealand)*

11:45-12:10 The molecular mechanism for effects of polycyclic aromatic hydrocarbons on marine invertebrates by *Assist. Prof. Sekiguchi, T. (Kanazawa University, Japan)*

12:10-12:35 Biomonitoring of chlorophenols in human urine from several Asian countries, Greece and the United States by *Assist. Prof. Honda, M. (Kanazawa University, Japan)*

12:35-13:35 Lunch break

12:35-14:00 Poster Session

DAY 2: 25 January, 2019

Ecosystem and human health effects studies (2)

Chair: Assist Prof. Sekiguchi, T.

- 14:00-14:25 Polycyclic aromatic hydrocarbons derived from exhaust gas and oil spill in aquatic environment *by Prof. Uno, S. (Kagoshima University, Japan)*
- 14:25-14:50 New treatments for diabetes and obesity to offset the impact of the increasingly toxic environment *by Prof. Hay, D. L. (University of Auckland, New Zealand)*
- 14:50-15:15 Uses of fibrous material for nitrification and denitrification treatments in the recirculating aquaculture systems *by Dr. Powtongsook, S. (National Center for Genetic Engineering and Biotechnology, Thailand)*
- 15:15-15:30 Coffee break

Integrated environmental studies

Chair: Assist Prof. Matsunaka, T.

- 15:30-15:55 Use of multi-isotope ratios to study ecological systems from watershed to the sea *by Prof. Tayasu, I. (Research Institute for Humanity and Nature, Japan)*
- 15:55-16:20 Transport processes of earth surface materials in a reservoir-catchment system inferred from the atmospheric radionuclides *by Assist Prof. Ochiai, S. (Kanazawa University, Japan)*
- 16:20-16:45 Iron supply from land to river and estuary: relationship between forest-cover and dissolved iron concentrations *by Assoc. Prof. Shiraiwa, T. (Hokkaido University, Japan)*
- 16:45-17:10 Organic matter of marine sediments from Great Peter Bay the Sea of Japan *by Prof. Nesterova, O. (Far Eastern Federal University, Russia)*
- 17:10-17:35 Radium isotopes as tracers of hydrothermal activity in the deep ocean *by Dr. Charette, M. A. (Woods Hole Oceanographic Institution, U.S.A)*
- 17:35-17:45 Awarding Ceremony for Posters
- 17:45-17:50 Closing Remarks *by Prof. Mukai, C., Vice President of Kanazawa University, Japan*

Poster Session

- P-1: Application of SERS on the chemical analysis of nanometer sized aerosol particles *by Mr. Kuniyoshi, R. (Kanazawa University, Japan)*
- P-2: Magnetic investigations of atmospheric aerosols in Noto region *by Mr. Tsuchiya, N. (Kanazawa University, Japan)*
- P-3: Sources and characteristics of polycyclic aromatic hydrocarbons in ambient total suspended particles in Ulaanbaatar city, Mongolia *by Mr. Byambaa, B. (Kanazawa University, Japan)*
- P-4: Personal exposure to air pollutants of schoolchildren during the heating period in Beijing, China *by Ms. Zhang, L.L. (Kanazawa University, Japan)*
- P-5: The characteristic of atmospheric particulate-bound polycyclic aromatic hydrocarbons in Shenyang, China *by Ms. Yang, L. (Kanazawa University, Japan)*
- P-6: Characteristics and changes of ions and PAHs in PM_{2.5} of Kirishima *by Mr. Zhou, Q.Y. (Kanazawa University, Japan)*
- P-7: Characteristics of atmospheric pollutants at a remote background site, Wajima, Japan *by Ms. Zhang, X. (Kanazawa University, Japan)*
- P-8: The observed and simulated gaseous and particulate of PAHs *by Mr. Kakuchi, M. (Kanazawa University, Japan)*
- P-9: Aerial observation of atmospheric nanoparticles in Fukue Island, Japan *by Dr. Lee, K. (Kanazawa University, Japan)*
- P-10: Transport of FNPP1-derived radiocaesium from subtropical mode water in the western North Pacific Ocean to the Sea of Japan *by Dr. Inomata, Y. (Kanazawa University, Japan)*
- P-11: Alpha-melanocyte-stimulating hormone functions to fish calcium metabolism *by Dr. Suzuki, N (Kanazawa University, Japan)*

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- P-12: Alternation of immune related genes by lipopolysaccharide injection in red-spotted grouper *by Mr. Osaka, Y. (Kanazawa University, Japan)*
- P-13: Antibacterial L-amino acid oxidases in Fish *by Dr. Kitani, Y. (Kanazawa University, Japan)*
- P-14: Localization analysis of the cholecystokinin/gastrin family peptide in ascidian, *Ciona intestinalis* *by Ms. Taniguchi, S. (Kanazawa University, Japan)*
- P-15: Comparative characteristic of aquasoils of Beringov and Japanese Seas *by Ms. Khokhlova, A. (Far Eastern Federal University, Russia)*
- P-16: Impact of low-carbon technologies on nitrogen cycle in agricultural soil of Primorsky Krai (Russia) *by Ms. Kolesnikova, Y. (Far Eastern Federal University, Russia)*
- P-17: Organic matter dynamics in a small lagoon, Lake Kiba during 2017-2018 *by Mr. Sakaguchi, K. (Kanazawa University, Japan)*
- P-18: Sedimentation of suspended solids at Lake Akkeshi and Akkeshi Bay in the last 40 years *by Mr. Sasaki, K. (Kanazawa University, Japan)*
- P-19: The deposition of atmospheric PAH transformation products in the freshwater environment of Kanazawa, Japan *by Dr. Nagato, E. G. (Kanazawa University, Japan)*
- P-20: Pre- and post-accident ^{14}C activities in tree rings near the Fukushima Nuclear Facility *by Dr. Matsunaka, T. (Kanazawa University, Japan)*