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 NO\textsubscript{2} 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
**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
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 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. Kunihisa, 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)
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)