

Joint International Symposium: To the New Stage of Collaboration					
Joint Usage/Joint Research Symposium on Integrated Environmental Studies					
Day 1 (2021/11/30)					
10:00	10:10	Opening remarks		Prof. Koetsu Yamazaki, President of Kanazawa University	
K-INET Special Webinar I				Chair: Noriko Hasebe	
10:10	11:10	Kurunthachalam Kannan (New York University, Kanazawa University)		Biomonitoring of human exposure to environmental chemicals in the context of exposome	
Session 1		Expanding Observation Network: Atmosphere			Chair: Ning Tang
13:00	13:20	Syuichi Itahashi (Central Research Institute of Electric Power Industry)		Variation of PM <sub>2.5</sub> composition over Japan during the dramatically improving phase between 2013 and 2019	
13:20	13:40	Bin Chen (Chinese Academy of Sciences)		Analysis of aerosol optical characteristics from ground in Beijing and its response to environmental factors	
13:40	14:00	Lulu Zhang (Kanazawa University)		Recent investigation on particulate polycyclic aromatic hydrocarbons in East Asian cities	
14:00	14:20	Qimin Wang (Shenyang Institute of Engineering)		Simultaneous realization of emission reduction of NOx and PM2.5 in biomass briquette fuel boilers, China	
14:20	14:40	Ji Yi Lee (Ewha Womans University)		Introduction of FRIEND project and spatiotemporal distributions of chemical compositions in PM2.5 during winter period in Northeast Asia	
14:40	14:45	Group Photo Session			
Session 2		Expanding Observation Network: Ocean and On-land			Chair: Mutsuo Inoue
15:00	15:20	Hisanori Iwai (Kanazawa University)		Speciation of polycyclic aromatic hydrocarbons (PAHs) influenced by the dissolving behavior of humic acid in varying salinity conditions	
15:20	15:40	Chih-Chiang Hsieh (Academia Sinica)		Aerosol Fe contribution in the East China Sea: anthropogenic vs lithogenic.	
15:40	16:00	Hideaki Shibata (Hokkaido University)		Effect of land-use changes on nitrogen exports from land to estuary ecosystem in northern Japan	
16:00	16:20	Eko Yulianto (Research Center for Geotechnology, Indonesian Institute of Sciences)		A preliminary evidence of possible giant earthquake and tsunami from the Sunda Megathrust in an archaeological site in South Java Coast	
16:20	16:40	Thumronk Amornsakun (Prince of Songkla University)		Effects of water salinity on the egg hatching, growth, and survival of larvae and fingerlings of climbing perch, <i>Anabas testudineus</i>	
Day 2 (2021/12/01)					
Session 3		Integrated Environmental Research: Human health and Ecosystem			Chair: Usio Nisikawa
10:00	10:20	Rajendiran Karthikraj (New York State Department of Health)		Occurrence and fate of emerging contaminants in Indian sewage treatment plants	
10:20	10:40	Aadrean (Andalas University)		Prey availability of small-clawed otters ( <i>Aonyx cinereus</i> ) in a paddy field landscape in Sumatra, Indonesia	
10:40	11:00	Hiroyuki Yokomizo (National Institute for Environmental studies)		Inferring the potential of water-level operations for ecosystem management in lakes: a theoretical approach	
11:00	11:20	Kenji Toyota (Niigata University)		Molecular mechanisms underlying environmental sex determination in the water flea <i>Daphnia</i>	
11:20	11:40	Takehiko Murayama (Tokyo Institute of Technology)		Stakeholders' dialogue for managing environmental risks: Case of asbestos contamination	
11:40	11:45	Group Photo Session			
Session4		Poster session I			Chair: Shinya Ochiai
14:00	14:30	Flash talks			
14:30	14:35	Group Photo Session			
14:35	15:30	Breakout rooms : Posters			
		K-INET Special Webinar II			Chair: Shinji Tsukawaki
15:40	16:40	Hiroshi Okochi (Waseda University)		Airborne microplastics and health impact (AMΦ Project)	
16:40	16:50	Closing remarks		Prof. Seiya Nagao, Director of INET Kanazawa University	

Joint International Symposium: To the New Stage of Collaboration			
Chosen International Symposium on Understanding the Transboundary Pollution along North-South Transect in western Pacific region			
<b>Day 3 (2021/12/02)</b>			
10:00	10:10	Opening remarks	Prof. Takashi Wada, vice president of Kanazawa University
10:10	10:20	<u>Seiya Nagao</u> (Kanazawa University)	Outline of Chosen Project
Session 1 Atmospheric Research			Chair: Keisuke Fukushi
10:20	10:40	<u>Fumikazu Taketani</u> (Japan Agency for Marine-Earth Science and Technology)	Ship-based observations of atmospheric aerosols and gases over the Arctic Ocean by R/V Mirai
10:40	11:00	<u>Taku Nakamura</u> (Gifu University)	Be-7 concentration of surface air at Syowa Station, Antarctica in 2020.
11:00	11:20	<u>Sakiko Ishino</u> (Kanazawa University)	An isotopic view on sources of atmospheric sulfate in Antarctica: from seasonal scale to glacial-interglacial scale
11:20	11:40	<u>Masami Furuuchi</u> (Kanazawa University)	Air pollution by ultrafine particles in Southeastern Asia and future perspectives in SATREPS framework
11:40	12:00	<u>Mijung Song</u> (Jeonbuk National University)	Viscosities and phase states of particles of aerosol particles
12:00	12:05	<b>Group Photo Session</b>	
Session 2 Poster session II			Chair: Yoichiro Kitani
14:00	14:30	Flash talks	
14:30	14:35	<b>Group Photo Session</b>	
14:35	15:30	Breakout rooms : Posters	
K-INET Special Webinar III			Chair: Atsushi Matsuki
16:00	17:00	<u>Paolo Laj</u> (Grenoble Alpes University)	Recent advances on GAW atmospheric aerosol observing system
<b>Day 4 (2021/12/03)</b>			
		K-INET Special Webinar IV	
			Chair: Toshio Sekiguchi
10:00	11:00	<u>Nobuo Suzuki</u> (Kanazawa University)	Toxic effect of the polycyclic aromatic hydrocarbons (PAHs) in aquatic animals with special references to calcium metabolism
Session 3 Human health and Ecosystem			Chair: Masato Honda
13:00	13:20	<u>Un-Jung Kim</u> (The University of the Texas at Arlington)	Occurrence of organophosphate flame retardants/plasticizers in water and indoor air and derived human exposure
13:20	13:40	<u>Hongkai Zhu</u> (Nankai University)	Variability in urinary biomarkers of human exposure to polycyclic aromatic hydrocarbons and its association with oxidative stress
13:40	14:00	<u>Masahiro Umezaki</u> (The University of Tokyo, Kanazawa University)	Biomarkers of health transition: A human ecology studies among ethnic minorities in Northern Laos
14:00	14:20	<u>Tomomi Higashi</u> (Kanazawa University)	Health effect of Asian dust and air pollutants on allergy
14:20	14:25	<b>Group Photo Session</b>	
Session 4 Oceanic and Terrestrial Research			Chair: Tetsuya Matsunaka
14:30	14:50	<u>Jun Nishioka</u> (Hokkaido University)	Sub-polar marginal seas fuel the North Pacific Ocean through the intermediate water
14:50	15:10	<u>Mutsuo Inoue</u> (Kanazawa University)	Spatial distributions of <sup>226</sup> Ra and <sup>228</sup> Ra in the western Indian and Southern Oceans and their implications for current systems
15:10	15:30	<u>Riffat Nasseem Malik</u> (Quaid-i-Azam University)	Persistent organic pollutants in Pristine Lakes of the Lesser Himalaya, Pakistan
15:30	15:50	<u>Devi Veytia</u> (University of Tasmania)	Antarctic krill recruitment: challenges and opportunities
15:50	16:10	<u>Pavel Belyalin</u> (Far East Branch of the Russian Academy of Sciences )	The <i>Pinus koraiensis</i> distribution in the southern Russian Far East: climatic control in the Late Pleistocene-Holocene
16:10	16:40	Closing remarks and Student Poster Award	Prof. Seiya Nagao, Director of INET Kanazawa University

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## Poster Session I

### Day 2 (2021/12/01)

P-01	<b>Taiki Nakashima</b> , Noriko Hasebe, Norihiro Yamada, Akihiko Yokoyama	Towards the zircon alpha recoil track dating: Test of americium radiation source
P-03	<b>Shuukhaaz Ganbat</b> , Noriko Hasebe, Uyangaa Udaanjargal, Davaadorj Davaasuren	Lacustrine sediment analysis to understand the past environmental changes in valley of the Gobi Lakes, Mongolia: Analyses of Tsagaan Lake sediment
P-05	<b>Haruka Shinada</b> , Takuya Sagawa, Noriko Hasebe	Thermoluminescence from foraminifera
P-07	<b>Natsumi Takeda</b> , Keisuke Fukushima, Baasansuren Gankhurel, Akihiro Okuyama	Desorption behavior of heavy metals from contaminated soils : A surface complexation modeling
P-09	<b>Akihiro Okuyama</b> , Keisuke Fukushima, Teruhiko Kashiwabara	Analysis of molybdenum adsorption formation on oxide by surface complexation model
P-11	<b>Baasansuren Gankhurel</b> , Keisuke Fukushima, Davaadorj Davaasuren, Eigo Imai, Takuma Kitajima, Tuvshin Gerelmaa, Yasuhito Sekine, Yoshio Takahashi, Noriko Hasebe	Trace elements contamination in water of alkaline-hyposaline lake from Valley of Gobi Lakes, Mongolia: Field evidence of elevated level of As and U accumulated by evaporation
P-13	<b>Umi Kawago</b> , Masato Honda, Toshitaka Ikeuchi, Yoichiro Kitani, Toshio Sekiguchi, Hajime Matsubara, Katsuhiko Saido, Tahashi Kusui, Yukihiro Furusawa, Yukari Takahashi, Masato Endo, Yoshiaki Tabuchi, Nobuo Suzuki	Evaluation of the plastic-derived toxic chemicals (styrene oligomer) on fish bone metabolism
P-15	<b>Hao Zhang</b> , Xuan Zhang, Yan Wang, Pengchu Bai, Lulu Zhang, Kazuichi Hayakawa, Akira Toriba, Ning Tang	Changes of polycyclic aromatic hydrocarbons (PAHs) and nitro-PAHs in Xinxiang after the implementation of air pollution prevention and control policies
P-17	<b>Yan Wang</b> , Hao Zhang, Xuan Zhang, Pengchu Bai, Andrey Neroda, Vassily F. Mishukov, Lulu Zhang, Kazuichi Hayakawa, Seiya Nagao, Ning Tang	The characteristics of polycyclic aromatic hydrocarbons and nitro-polycyclic aromatic hydrocarbons in Vladivostok, Russia
P-19	<b>Kohei Ono</b> , Ayumi Iwata, Takeshi Fukuma, Yoko Iwamoto, Koji Hamasaki, Atsushi Matsuki	Investigation of adhesivity of marine organic aerosols by atomic force microscopy
P-21	<b>Chigusa Matsumoto</b> , Sakika Iwao, Tomoya Tamadate, Yuko Mitera, Yayoi Inomata, Takafumi Seto	Aerosolization of colloidal nanoparticles by spray dry method for cell exposure study
P-23	<b>Syunsuke Tanahashi</b>	Trace metal fraction in size-segregated aerosols in remote and urban site in Japan
P-25	<b>Hiroaki Kameyama</b> , Mutsuo Inoue, Yuhei Shirotani, Toshiki Morokado, Shotaro Hanaki, Yuichi Furusawa, Hisaki Kofuji, Seiya Nagao	Vertical transport of reactive materials in the Sea of Japan; implications from distributions of $^{228}\text{Th}/^{228}\text{Ra}$ ratios
P-27	<b>Kaisei Mashita</b> , Mutsuo Inoue, Hiroaki Kameyama, Ryosei Takehara, Seiya Nagao	Spatial variations of $^{134}\text{Cs}$ concentrations off Hokkaido in 2020 and 2021
P-29	<b>Enkhuur Munkhsuld</b> , Takehiko Murayama, Shigeo Nishikizawa, Keisuke Fukushima, Altansukh Ochir, Baasansuren Gankhurel, Ariuntungalag Yunden, Myagmarbat Munkhbat, Tserenkhand Batbold	Consideration towards human health risk assessment and management of heavy metal pollution in groundwater of Erdenet city, Mongolia
P-30	<b>Eka Dyana</b>	Local government adaptation to climate change through policy integration in Indonesia
P-31	<b>Abdek M. Abdi</b>	Public participation of geothermal energy projects in East-Africa
P-33	<b>Shandy Cecilia</b> , Takehiko Murayama, Shigeo Nishikizawa	Stakeholders' evaluation on sustainability of community- based wastewater treatment facility in Indonesia: Case of Jakarta

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## Poster Session II

Day 3 (2021/12/02)

P-02	<b>Uyangaa Udaanjargal</b> , Noriko Hasebe, Davaadorj Davaasuren, Yudai Igarashi, Keisuke Fukushima, Hitoshi Hasegawa, Baasansuren Gankhurel, Nagayoshi Katsuta, Shuukhaaz Ganbat, Ichinnorov Niiden	Statistical approach on records from Lake Olgoy, Valley of Gobi the Lake in Mongolia
P-04	<b>Yuma Shibuya</b> , Uyangaa Udaanjargal, Yudai Igarashi, Shuukhaaz Ganbat, Davaadorj Davaasuren, Yukio Tanaka, Noriko Hasebe	Paleoenvironment in Lake Olgoy, Mongolia based on the analyses of sediment from the paleoshoreline
P-06	<b>Takuma Kitajima</b> , Keisuke Fukushima, Yasuhito Sekine, Masahiro Yoda, Baasansuren Gankhurel, Davaadorj Davaasuren, Yoshio Takahashi	Solubility of amorphous magnesium carbonate at low temperature
P-08	<b>Mai Suyama</b> , Keisuke Fukushima	Formation conditions of calcium carbonate hemihydrate
P-10	<b>Hirotu Tokumon</b> , Keisuke Fukushima, Yasuhito Sekine, Kousuke Inoue	Selectivity coefficient of $\text{Na}^+ - \text{NH}_4^+$ exchange in saponite layer -Reconstruction of ammonium concentration in early
P-12	<b>Kaito Hatano</b> , Akihiro Sakatoku, Shoki Tanaka, Tadashi Isshiki, Nobuo Suzuki	Isolation, characterization, and detection of a <i>Vibrio</i> sp. strain associated with mass mortalities of the pearl oyster <i>Pinctada fucata</i> .
P-14	<b>Ryoya Kawamura</b> , Miyuki Mekuchi, Kenji Toyota, Shouzo Ogiso, Yukina Watabe, Arata Nagami, Yusuke Maruyama, Atsuhiko Hattori, Seiji Yanai, Hajime Matsubara, Nobuo Suzuki	Physiological and ecological research of red-clawed crab <i>Chiromantes haematocheir</i>
P-16	<b>Xuan Zhang</b> , Hao Zhang, Yan Wang, Pengchu Bai, Lulu Zhang, Kazuichi Hayakawa, Yongjie Wei, Ning Tang	Air pollution exposure and lung function among office workers in current China: a pilot survey in heavy-polluted cities
P-18	<b>Pengchu Bai</b> , Yan Wang, Hao Zhang, Xuan Zhang, Lulu Zhang, Akira Toriba, Kazuichi Hayakawa, Seiya Nagao, Ning Tang	Influence of Asian dust events on the characteristics of polycyclic aromatic hydrocarbons and nitro-polycyclic aromatic hydrocarbons at Wajima, a background site in Japan
P-20	<b>Chultem Batbold</b>	Determining spatiotemporal dispersion of local scale dust from the Erdenet mine, Mongolia using Himawari-8 geostationary satellite: A qualitative study
P-22	<b>Soichiro Kato</b> , Yayoi Inomata, Takafumi Seto	Development of aerosol into liquid sampler for collecting nanoparticles by combining particle size magnifier and wet cyclone
P-24	<b>Rodrigo Mundo</b> , Tetsuya Matsunaka, Mutsuo Inoue, Saki Tanaka, Seiya Nagao	Surface currents, primary production and anthropogenic PAHs dynamics: observations from the southern Okhotsk Sea
P-26	<b>Saki Tanaka</b> , Tetsuya Matsunaka, Rodrigo Mundo, Mutsuo Inoue, Yuichiro Kumamoto, Tetsutaro Takikawa, Masaya Morita, Tung-Yuan Ho, Seiya Nagao	Interannual variability of polycyclic aromatic hydrocarbons in East Asian marginal seas during 2017-2021
P-28	<b>Enkhchimeg Battengel</b> , Altansukh Ochir, Myagmarbat Munkhbat, Enkhuur Munkhsuld	Health risk assessment of heavy metal contamination in drinking water and human health risk assessment in Ger district of Ulaanbaatar, Mongolia
P-32	<b>Hanae Ziani</b> , Takehiko Murayama, Shigeo Nishikizawa	Indicator-based evaluation of urban sustainability: Case of major African cities
P-34	<b>Rahat Riaz</b> , Riffat Naseem Malik	Evidence of long-range atmospheric transport of Persistent Organic Pollutants (POPs) in the lakes of Lesser Himalaya
P-35	<b>Kosuke Inoue</b> , Keisuke Fukushima, Hiroki Suga, Takahiro Kawai, Yoshio Takahashi, Yasuo Takeichi	Construction of a multi-element XANES library of layered silicates used for water metamorphism analysis in meteorite mother celestial bodies