

ISME-XV Kyoto Time Table

November 26, 2018: Monday

Registration: 8:30-19:00

9:20-9:30	Opening Ceremony
9:30-10:00	History of Mineral Exploration Technology
9:30-10:00	Keynote Speech
Keynote 1 9:30-10:00	A historical overview of the past three decades of mineral exploration technology <i>Kazuya Okada</i>
10:00-12:00	Geophysics and Geochemistry <i>Chair: Kazuya Okada</i>
10:00-10:30	Keynote Speech
Keynote 2 10:00-10:30	New advances in resource exploration technology based on multiphysics airborne geophysical surveys <i>Michael Zhdanov</i>
10:30-12:00	Oral Presentation
S1-1 10:30-10:45	Induced polarization imaging of iron ore distribution in a pit of the Kamaishi Mine, Northeastern Japan <i>Shinichi Takakura, Nobuyoshi Iyatomi, Takeharu Takahashi, Yuta Matsukuma, Yutaka Sasaki</i>
S1-2 10:45-11:00	Improvements in data processing for time-lapse EM exploration by Multi-Channel Nonnegative Matrix Factorization <i>Shinya Sato, Tada-nori Goto</i>
S1-3 11:00-11:15	Evolution of HTS-SQUID magnetometer system (SQUITEM) <i>Kazuo Masuda, Masayuki Motoori, Satoshi Ueda, Masaki Sugisaki, Hiroyuki Katayama, Eiichi Arai</i>
S1-4 11:15-11:30	Geochemical data-processing for extracting geological processes <i>Tatsu Kuwatani</i>
S1-5 11:30-11:45	Development of a machine learning-based hyperspectral transformation method with application to potential area of porphyry copper deposit in Chile <i>Nguyen Tien Hoang, Katsuaki Koike, Koki Kashiwaya, Shuho Noda, Tetsuichi Takeda, Ayumi Kosugi, Kazuo Masuda</i>

S1-6 11:45-12:00	Comparing the bulk in-situ permeability with detailed transects of matrix permeability, in fault zones in Precambrian metasediments and granites hosting uranium mineralization <i>Jacek Scibek</i>
12:00-13:00	Lunch
13:00-15:00	Mathematical Geology and Remote Sensing <i>Chair: Katsuaki Koike</i>
13:00-13:30	Keynote Speech
Keynote 3 13:00-13:30	A weighted fuzzy algebraic sum operator for combining spatial predictors of mineral prospectivity <i>Emmanuel John Muico Carranza</i>
13:30-15:00	Oral Presentation
S2-1 13:30-13:45	Recognition of geochemical anomalies based on RPCA and GWR across the boundary areas of China and Mongolia <i>Mi Tian, Xueqiu Wang</i>
S2-2 13:45-14:00	On recovering original units for estimation of regionalised compositional data <i>Josep Antoni Martín-Fernández, Juan J. Egozcue, Vera Pawlowsky-Glahn, Ricardo A. Olea</i>
S2-3 14:00-14:15	Spatial modeling integrated with geostatistics and physical law for improving metal grade distribution in hydrothermal type deposits <i>Lei Lu, Katsuaki Koike</i>
S2-4 14:15-14:30	Environmental remote sensing using correlation between reflectance spectra and heavy metal content of tidal flat sediments for monitoring metal contamination <i>Vu Thi Thu Thuy, Nguyen Thi Thu Ha, Nguyen Thuy Linh, Katsuaki Koike</i>
S2-5 14:30-14:45	An integrated approach for hydrothermal alteration mapping in vegetated terrain using ASTER data <i>Arie Naftali Hawu Hede, Budi Sulistijo, Mohamad Nur Heriawan, Syafrizal Syafrizal, Muhammad Sholeh</i>
S2-6 14:45-15:00	Detection and geological characterization of topographic change in a geothermal power plant area by SBAS-InSAR <i>Panggea Ghiyats Sabrian, Katsuaki Koike, Asep Saepuloh, Mohamad Nur Heriawan</i>
15:00-15:20	Break

15:20-17:50	Geothermal Exploration and Geochemistry <i>Chair: Noriyoshi Tsuchiya</i>
15:20-15:50	Keynote Speech
Keynote 4 15:20-15:50	Geothermal energy development in Indonesia: Potency, beneficiation, and constraints <i>Sudarto Notosiswoyo, Katsuaki Koike</i>
15:50-17:50	Oral Presentation
S3-1 15:50-16:05	BAGUS (Beneficial and Advanced Geothermal Use System) project for steam-spot detection and large enhancement of geothermal power generation <i>Katsuaki Koike, Sudarto Notosiswoyo</i>
S3-2 16:05-16:20	Cooperative research at Universidad de El Salvador and current state of SATREPS project <i>Edgar Armando, Juan Antonio Flores Díaz, Francisco Antonio Alarcón Sandoval</i>
S3-3 16:20-16:35	Targeting geothermal exploration using airborne multi-geophysics <i>Hiromasa Ishikawa, Shunsuke Nogami, Masashi Endo, Jurriaan Feijth, Jackie Hope, Takuji Mouri, Gen Nakamoto</i>
S3-4 16:35-16:50	Detection of paths for geothermal fluids by long term periodical measurement of radon concentration and gas component <i>Taiki Kubo, Shunsuke Esaki, Irwan Iskandar, Mohamad Nur Heriawan, Katsuaki Koike, Shigeki Sakurai, Sudarto Notosiswoyo</i>
S3-5 16:50-17:05	Permeable zone estimation based on radon concentration and very high resolution of digital terrain model (DTM) at Wayang Windu area, West Java, Indonesia <i>Ahmad Ali Syafi'i, Mohamad Nur Heriawan, Asep Saepuloh, Taiki Kubo, Katsuaki Koike</i>
S3-6 17:05-17:20	Integrating geochemical properties and fracture distribution to characterize fluid-flow system in the Wayang Windu geothermal field, West Java, Indonesia <i>Riostantieka Mayandari Shoedarto, Koki Kashiwaya, Yohei Tada, Katsuaki Koike</i>
S3-7 17:20-17:35	Geochemical features and genetic process of hot-spring waters from the Patuha geothermal field, West Java, Indonesia <i>Andy Yahya Al Hakim, Cipto Purnandi Septianto, Nugroho Nur Febrianto, Irwan Iskandar, Sudarto Notosiswoyo</i>
S3-8 17:35-17:50	Novel geothermal prospection model based on thermoluminescence of quartz <i>Alvaro Josue Amaya Arevalo, Rioichi Saito, Nobuo Hirano, Noriyoshi Tsuchiya</i>
18:00-20:00	Poster Session
18:00-20:00	Icebreaker

Poster Session

P1 18:00-20:00 <i>cancelled</i>	Subsurface hydrothermal alteration in geothermal fields with case examples from Patuha geothermal field, Indonesia <i>Fajar Cahyati, Ildrem Syafri, Aton Patonah, Reza Jamil Fajri</i>
P2 18:00-20:00	Clarifying the fluid interaction process by water geochemistry with a case study of the Tangkuban Perahu area, West Java, Indonesia <i>Yudi Rahayudin, Koki Kashiwaya, Yohei Tada, Katsuaki Koike, Mohamad Nur Heriawan, Andi Susmanto</i>
P3 18:00-20:00	Developing a SQUITEM system for Geothermal Exploration <i>Keita Yoshimatsu, Masatoshi Tsuzuki, Takuji Mouri, Hidehisa Watanabe, Hidehiro Ishikawa, Tomohiro Yamasaki</i>
P4 18:00-20:00 <i>cancelled</i>	Hydrochemical pollution of the shallow groundwater in the eastern districts of the Gharbiya Governorate (Egypt) <i>Alaa Ahmed Masoud, Nesma A. Abdel-Wahab Arafa, Mohamed El-Bourai</i>
P5 18:00-20:00	Numerical simulation of multiphase fluid flow in seafloor hydrothermal vent areas <i>Shohei Albert Tomita, Katsuaki Koike, Tada-nori Goto, Katsuhiko Suzuki</i>
P6 18:00-20:00	Description of local thinning of carbon steel pipe due to the effect of complicated fluid flow <i>Masaki Iwata, Hitoshi Mikada, Junichi Takekawa</i>
P7 18:00-20:00	The estimation of physical properties of subsurface targets using an impulse method with Cole-Cole equation <i>Kohshi Kimura, Hitoshi Mikada, Junichi Takekawa</i>
P8 18:00-20:00	Quantitative estimation of hydraulic permeability of a fractured rock mass using a conditioning discrete fracture network constrained by electrical resistivity <i>Jin Wu, Tada-nori Goto</i>
P9 18:00-20:00	Fracture formation by cyclic hydraulic fracturing for hemihydrate plaster under brittle-ductile transition condition <i>Akihisa Kizaki, Sakamoto, Y., Fukushi, K., Imai, T.</i>
P10 18:00-20:00	A bi-linear approximation for representing ductile behavior of rock using DEM <i>Hayate Ohtani, Hitoshi Mikada, Junichi Takekawa</i>
P11 18:00-20:00	Influence of calcium compound precipitation on permeability in sandstone <i>Masataka Nishiguchi, Yoshitaka Nara, Koki Kashiwaya</i>

P12 18:00-20:00	<p>Characteristics of structure patterns mineralization based on XRD DAN ASD in Mekarmukti area, Garut, West Java</p> <p style="text-align: right;"><i>Friska Agustin, Samuel Sirait, C.I. Abdullah, Lanny A.N., HZ. Abidin</i></p>
P13 18:00-20:00	<p>Characterization of smectite-corrensite-chlorite series minerals associated with epithermal gold deposits: Applicability of the mineralogical property to an exploration index</p> <p style="text-align: right;"><i>Tetsuro Yoneda</i></p>
P14 18:00-20:00	<p>Geochronology of magmatic hydrothermal mineralization at Zuun mod porphyry Mo Cu deposit, southwestern Mongolia</p> <p style="text-align: right;"><i>Altankhuyag Gankhuyag, Jargalan Sereenen</i></p>
P15 18:00-20:00	<p>The evaluation of calorific value of coal in south Sumatra Sumatra</p> <p style="text-align: right;"><i>Nazla Syafitri Rangkuti, Lili Fauzielly, Boy Cssa, Rita Susilawati</i></p>
P16 18:00-20:00	<p>Fundamental study for time-lapse seismic imaging of subsurface foam front in Foam-Assisted CO2 EOR</p> <p style="text-align: right;"><i>Rei Tamura, Hitoshi Mikada, Junichi Takekawa</i></p>
P17 18:00-20:00	<p>Evaluation for the effectiveness of azimuthal S-wave anisotropic parameter estimation using virtual cross-dipole data sets generated by Seismic Interferometry</p> <p style="text-align: right;"><i>Yusuke Watanabe, Hitoshi Mikada, Junichi Takekawa</i></p>
P18 18:00-20:00	<p>Impact of upstream anthropogenic activities on the suspended load of the Red River (Northern Vietnam): evidence from the change in satellite-based estimated suspended sediment concentration</p> <p style="text-align: right;"><i>Pham Quang Vinh, Luong Thi Phuong, Nguyen Thanh Binh, Nguyen Ngoc Thang, La Thi Oanh, Nguyen Thien Phuong Thao, Nguyen Thi Thu Ha</i></p>
P19 18:00-20:00	<p>Application of Satellite mounted high-resolution SAR sensor for geology interpretation in Namibia</p> <p style="text-align: right;"><i>Yuu Kawakami, Ayumi Kosugi, Shuho Noda, Kazuo Masuda, Shusaku Miyaike, Tomonori Deguchi, Anna Nuguno, Moses Angombe</i></p>

November 27, 2018: Tuesday

Registration: 8:30-17:30

9:00-10:30	Submarine Resources <i>Chair: Tatsu Kuwatani</i>
9:00-9:30	Keynote Speech
Keynote 5 9:00-9:30	Global deep-ocean mineral resources and the future of seabed mining <i>James R. Hein, Kira Mizell, Amy Gartman</i>
9:30-10:30	Oral Presentation
S4-1 9:30-9:45	First resistivity image of seafloor ore deposits at an active hydrothermal field, Okinawa Trough, Japan <i>Tada-nori Goto, Keiichi Ishizu, Chatchai Vachiratienchai</i>
S4-2 9:45-10:00	Spatial modeling of element contents in active seafloor hydrothermal field by a combination of principal component analysis and geostatistical simulation <i>Vitor Ribeiro de Sá, Katsuaki Koike, Tada-nori Goto, Katsuhiko Suzuki, Junichiro Ishibashi, Tatsuo Nozaki, Yutaro Takaya, Yuka Masaki, Hidenori Kumagai</i>
S4-3 10:00-10:15	Scientific research on submarine mineral resources: new trial to develop survey technologies in Japan <i>Katsuhiko Suzuki</i>
S4-4 10:15-10:30	Study on physical properties and mineral compositions of rock samples obtained from seafloor hydrothermal area <i>Yusuke Ohta, Tada-nori Goto, Katsuaki Koike, Koki Kashiwaya, Weiren Lin</i>
10:30-12:00	Economic Geology and Mining Engineering <i>Chair: Youqing Chen</i>
10:30-12:00	Oral Presentation
S5-1 10:30-10:45 <i>cancelled</i>	Solutions for sustainable surface mining in the tropical coastal area, case study of Thach Khe Iron mine, central Vietnam <i>Mai Trọng Nhuận, Vũ Đình Hiếu, Mai Thế Toàn, Phan Mai Linh</i>
S5-2 10:45-11:00	Preliminary resource assessment of rare earth elements and tungsten in the “Tin Island” Belitung, Indonesia <i>Syafrizal Syafrizal, Teti Indriati, Komang Anggayana, Arie Naftali Hawu Hede</i>
S5-3 11:00-11:15	Lithium mineralization of Idermeg zone in central Mongolia <i>Khashbat Dashtseren, Sereenen Jargalan</i>

S5-4 11:15-11:30	Metallogenesis and prediction of copper porphyry mineralization in south Mongolia (central part) <i>Sereenen Jargalan, Enkhjargal B, Turmagnai D, Navchaa B</i>
S5-5 11:30-11:45	Three-dimensional fracture simulation in the Gejiu tin district (southwest China) using GEOFRAC for exploring vein structure <i>Chunxue Liu, Katsuaki Koike, Lei Lu, Taiki Kubo, Wenjie Zhu</i>
S5-6 11:45-12:00	In-situ stress measurements by two different core-based methods and their comparison <i>Tatsuhiko Sugimoto Weiren Lin, Aiming Lin</i>
12:00-13:00	Lunch
13:00-13:30	Ore Genesis <i>Chair: Tetsuro Yoneda</i>
13:00-13:30	Keynote Speech
Keynote 6 13:00-13:30	PGE deposits are peculiar; Is it because of crustal abundance or the formation mechanism? <i>Tetsuya Shoji</i>
13:30-15:15	Hydrogeology and Water Resources <i>Chair: Tetsuro Yoneda</i>
13:30-15:15	Oral Presentation
S6-1 13:30-13:45	Estimation of mass transport properties around a fault using environmental tracer analysis and numerical simulation <i>Junya Okajima, Koki Kashiwaya, Yohei Tada, Ryuta Hazama, Yoichi Sakuma, Katsuaki Koike</i>
S6-2 13:45-14:00	Groundwater dating in the Kyoto Basin using environmental tracer analysis and mass transport analysis <i>Taishi Hori, Koki Kashiwaya, Yohei Tada, Ryuta Hazama, Yoichi Sakuma, Katsuaki Koike</i>
S6-3 14:00-14:15	Application of electric survey method with variable frequencies to an islands area for aquifer detection <i>Hisafumi Asaue, Katsuaki Koike, Tada-nori Goto</i>
S6-4 14:15-14:30	Simulation evaluation of eco-hydrological effect of large-scale engineering construction planning - Taking Tianfu International Airport as an example <i>Bin Gu, Cheng Tingting</i>
S6-5 14:30-14:45	The presence and type of the Lembang-Maribaya Fault using soil-gas radon measurement <i>Irwan Iskandar, Wijayanti Ashuri, Taiki Kubo, Anwar Zulkhoiri, Musti'atin, Katsuaki Koike, Sudarto Notosiswoyo</i>
S6-6 14:45-15:00	In-situ measurement of permeability in rock mass using water including clay <i>Kazuki Oketani, Yoshitaka Nara, Hiroya Matsui, Hirokazu Fujii</i>

S6-7 15:00-15:15	Observation of pore structures in Cretaceous shale samples from southeastern Kushiro area, Hokkaido, Japan <i>Youqing Chen, Jun Aizawa, Hiroshi Suenaga, Hiroyuki Mastumoto, Kagemi Uchida</i>
15:15-15:35	Break
15:35-16:05	Future Resources Chair: Ryoichi Kouda
15:35-16:05	Keynote Speech
Keynote 7 15:35-16:05	Regolith simulant of C and D-type asteroids for future space-resource development: Space resources <i>Hideaki Miyamoto, Takafumi Niihara</i>
16:05-17:35	Geothermal Development and Reservoir Engineering Chair: Ryoichi Kouda
16:05-17:35	Oral Presentation
S7-1 16:05-16:20 <i>cancelled</i>	Characterization of geothermal reservoir based on seismicity analysis and velocity structure of two phase geothermal field in West Java, Indonesia <i>Muhamad Firdaus Al Hakim, Rachmat Sule, Andi Hendriyana, Philippe Jousset</i>
S7-2 16:20-16:35	Importance of sensitivity analysis of boundary conditions for accurate geothermal reservoir simulation <i>Nurita Putri Hardiani, Katsuaki Koike</i>
S7-3 16:35-16:50	A numerical modeling study to investigate changes within the reservoir and production sustainability under two different conversion technology scenarios producing from reservoir steam zone in Patuha geothermal field <i>Jonathan Sharon Widiatmo, Heru Berian Pratama, Sutopo, Nenny Saptadji, Ali Ashat</i>
S7-4 16:50-17:05 17:20-17:35	Geological interpretation of the steam boundaries at Wayang Windu geothermal field based on PS-InSAR and field observation <i>Asep Saepuloh, Fery Ismar Darajat, Panggea Ghiyats Sabrian, Dwiyoagarani Malik, Taiki Kubo, Katsuaki Koike</i>
S7-5 17:05-17:20 <i>cancelled</i>	Site investigation for subsidence in geothermal field <i>Budi Sulistijo, Adriyanto D Kusum, Dindin Wahidin, Teti Indriati, Arie Naftali Hawu Hede, Anastasia Hermanto W, Satria Yudhistira</i>
S7-6 17:20-17:35 16:50-17:05	The origin of carbonate scale formation in Patuha geothermal field, Ciwidey, West Java, Indonesia <i>Ribka Firtania Asokawaty, Suryantini, Randy Wijaya Atmaja, Sudarto Notosiswojo, Irwan Iskandar</i>
17:45-18:00	Closing Ceremony
18:15-20:15	Banquet