

Earth and Environmental Sciences Session

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Plenary Lecture: September 26 at the University Library Hall

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|-------|-------------|-------------|---|--|---------------------------------|---|
| EO-01 | 14:40-15:15 | Chris Clark | Curtin University, Bentley, WA, Australia | Advances in integrating petrochronological and geodynamic models of high-grade metamorphic systems | Chris Clark, Ben Knight, Jie Yu | 1 |
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Oral presentations: September 27 at Faculty of Science Building, Room B205

| Chair person: Eiichi Takazawa (Niigata University) | | | | | | |
|--|---------------|------------------|--|---|---|---|
| EO-02 | 9:00 - 9:18 | Toru Sakamoto | Niigata University | Phase-locking of Boreal Summer Intraseasonal Oscillation in the Indian Ocean | Toru Sakamoto, Jinro Ukita, Meiji Honda | 2 |
| EO-03 | 9:18 - 9:36 | K B Krishnaveni | Indian Institute of Space Science and Technology | Machine Learning-Based Soil Piping Susceptibility Mapping in the Kerala Segment of Western Ghats, India | K.B. Krishnaveni, V.J. Rajesh, S. Sumitra, and K.S. Sajinkumar | 3 |
| EO-04 | 9:36 - 9:54 | Yuto Miki | Niigata University | Uppermost upper mantle geochemical variation processes constrained from Independent Component Analysis (ICA) in the mantle section of the Oman Ophiolite. | Yuto Miki, Eiichi Takazawa, Kenta Ueki, Tatsu Kuwatani | 4 |
| EO-05 | 9:54 - 10:12 | Pahan Abewardana | Niigata University | Major and Trace Element Geochemical Assessment of Charnokitic Rocks from Wannai Complex of Sri Lanka: Implications for Magmatic Generations | Pahan Abewardana, T. Takahashi, S.P.K. Malaviarachchi, P.L. Dharmapriya, K. Sajeev, M. Satish-Kumar | 5 |
| EO-06 | 10:12 - 10:30 | Preeti Kumari | Indian Institute of Space Science and Technology | Paleoenvironmental Reconstruction at Micro-Mesoscale: Insights from Stromatolites of Proterozoic basins of India | Preeti Kumari, M. Satish-Kumar, V. J. Rajesh | 6 |

Break 10:30-10:45

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|-------|---------------|------------------------|--------------------|--|---|----|
| EO-07 | 10:45 - 11:03 | Devika S Panicker | Niigata University | Assessment of natural radioactivity in high-grade metamorphic rocks of the Lützow-Holm Complex, East Antarctica: Petrographic and geochemical insights | Devika Swapna Panicker, Madhusoodhan Satish Kumar | 7 |
| EO-08 | 11:03 - 11:21 | Richard Ishara Rumanya | Niigata University | Geological evolution of the southeastern Kivu region, eastern Democratic Republic of the Congo | Richard Ishara Rumanya, Madhusoodhan Satish-Kumar | 8 |
| EO-09 | 11:21 - 11:39 | Abdulrahman Ahmadu | Niigata University | Fluid inclusion studies in auriferous quartz veins from Kwaka, Niger state, Nigeria | Abdulrahman Ahmadu, M. Satish Kumar | 9 |
| EO-10 | 11:39 - 11:57 | Musa Saidi Kam's | Niigata University | Fluid Inclusion studies in quartz veins with Tin mineralization in the Kibaran intrusive rocks in Kalehe(South Kivu, D.R. Congo) | Musa Saidi Kam's and Madhusoodhan Satish Kumar | 10 |

Lunch Break 11:57-13:00

| Chair person : M. Satish Kumar (Niigata University) | | | | | | |
|---|---------------|-----------------|---|---|--|----|
| EO-11 | 13:00 - 13:30 | Edna B. Nabua | Mindanao State University, Iligan Institute of Technology | Characterization of microplastics on selected fish species: its type and color | Hannah Gonzaga, Edna Nabua, Sharyll Mae Alboña | 11 |
| EO-12 | 13:30 - 14:00 | Yuta Shiino | Niigata University | Hydrodynamic function of zigzag commissure in brachiopods | Yuta Shiino and Mari Nitta | 12 |
| EO-13 | 14:00 - 14:30 | Eiichi Takazawa | Niigata University | Early stages of serpentinization processes in the oceanic mantle inferred from the Salahi mantle section, the northern Oman Ophiolite | Eiichi Takazawa, Yohki Yoshida, Ryuta Nagaoka, Yuto Miki | 13 |
| EO-14 | 14:30 - 15:00 | V.J. RAJESH | Indian Institute of Space Science and Technology | Petrogenesis, Serpentinisation and Carbonation of Salem Mafic-Ultramafic Complex, southern India | A. Hariitha, V.J. Rajesh and M. Satish-Kumar | 14 |

Oral presentations: September 28 at Faculty of Science Building, Room B205

| Chair person : V.J. RAJESH (Indian Institute of Space Science and Technology) | | | | | | |
|---|---------------|--------------------------------|--------------------------|---|--|----|
| EO-15 | 9:00 - 9:30 | Madhusoodhan Satish-Kumar | Niigata University | Graphite formation and carbon sequestration in the continental crust | Madhusoodhan Satish-Kumar | 15 |
| EO-16 | 9:30 - 10:00 | Sanjeewa Malaviarachchi | University of Peradeniya | An Update on Geoscientific Advancements in Sri Lanka: Contributions from Niigata University | Sanjeewa P.K. Malaviarachchi, M. Satish-Kumar, Toshiro Takahashi, P.L. Dharmapriya, M. Shirakawa, A. Imura, R. Imanaka-Nohara, U.G.A.M. Pahan Abewardana | 16 |
| EO-17 | 10:00 - 10:30 | Prasanna Lakshitha Dharmapriya | University of Peradeniya | Pressure-temperature-time evolution of the Vijayan Complex Sri Lanka: Implications for its position in Gondwana | P. L. Dharmapriya, Ruwanthika Kumari, Xiaofang He, S.P.K Malaviarahcchi, Pahan Abeywardhana, Lei Zhao | 17 |

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| Poster presentations: September 26 at the University Library Lounge | | | | | | |
| EP-01 | 15:30 - 17:30 | Shu Murayama | Niigata University | Potential agricultural uses of plant-plant communication in maize cultivation | Shu Murayama, Yusuke Sakurai, Kouichi Nishikawa, Kaori Shiojiri, Junji Takabayashi, Satomi Ishizaki | 18 |
| EP-02 | 15:30 - 17:30 | Tomonari Tsumori | Niigata University | Influence of Upper-Tropospheric Cut-off Lows on Quasi-Stationary Convective Bands occurred in Tohoku Region | Tomonari Tsumori, Meiji Honda, Naoya Takahashi | 19 |
| EP-03 | 15:30 - 17:30 | Honoka Abe | Niigata University | Characteristics of near-surface wind fields that bring heavy snowfall to Niigata City | Honoka Abe, Meiji Honda, Naoya Takahashi | 20 |
| EP-04 | 15:30 - 17:30 | Nakuru Kudo | Niigata University | An advantage of cast-and-mould preservation: Microfocus X-ray CT technique revealed 3D pattern of fossil assemblages | Nakuru Kudo, Yuta Shiino | 21 |
| EP-05 | 15:30 - 17:30 | Izumi Makieda | Niigata University | Molluscan and brachiopod shells on Ikarashi beach, Niigata, Japan | Izumi Makieda, Toa Nakamura, Yusaku Hirota, Souma Kaneko, Yoshino Ishizaki and Yuta Shiino | 22 |
| EP-06 | 15:30 - 17:30 | Sho Saigo | Niigata University | Lithology, conodont age and depositional environment of the Upper Carboniferous of the Omi Limestone in the eastern Kurohimeyama, Akiyoshi Belt, Itoigawa City, Niigata Prefecture | Sho Saigo | 23 |
| EP-07 | 15:30 - 17:30 | Tamaki Fujino | Niigata University | Relationship between the ultramafic complex and boninite in the Salahi massif, the Oman ophiolite | Tamaki Fujino, Eiichi Takazawa, Toshiro Takahashi | 24 |