

DFS of M-IS 12 XRF-CS: Developments and applications of XRF-core scanning techniques in natural archives

Time: July 15 (Wed) from 9:45-10:30 (JST), JPGU ZOOM Live, CH18.

DFS agenda

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| 09:45-09:50 | Session introduction by Jyh-Jaan Steven Huang Institute of Geology, University of Innsbruck, Austria. |
| Chair: Atsuko Amano National Institute of Advanced Industrial Science and Technology, AIST, Japan. | |
| 09:50-09:58 | Invited Speaker: Keiji Horikawa , Graduate School of Engineer and Science, University of Toyama. <i>The advantages and limits of ITRAX core scanner: Learning by comparison with destructive element and isotope data from the Gulf of Alaska sediment core.</i> |
| 09:58-10:06 | Invited Speaker: Hitoshi Hasegawa , Faculty of Science and Technology, Kochi University <i>Reconstruction of variations in South Pacific westerly jet path during the last glacial</i> |
| 10:06-10:14 | Invited Speaker: Arisa Seki , Faculty of Science, Shinshu University. <i>Bromine (Br) counts measured by XRF core scanner (ITRAX) as a proxy of marine organic carbon content in the hemiperagic sediments of the Japan Sea.</i> |
| 1 min flash talk chair: Masafumi Murayama Faculty of Agriculture and Marine Science, Kochi University, Japan. | |
| 10:15-10:17 | Yoko Ishiyama , Akita University. <i>Change of depositional environment in Lake Tazawa estimated by X-ray fluorescence core scanner.</i> |
| 10:17-10:19 | Yoshiaki Suzuki , Geological Survey of Japan, AIST. <i>The chemical composition and temporal change of varve-like sediment in Beppu Bay.</i> |
| 10:19-10:21 | Liang-Chi Wang , National Chung Cheng University, Taiwan. <i>Multiproxies applied on sediment core for revealing the environmental changes and natural disaster events in Lake Kitaura, central Japan.</i> |
| 10:21-10:23 | Atsuko Amano , Geological Survey of Japan, AIST. <i>Comparison of element profiles obtained from Itrax-XRF core scanner in evaluating data quality among laboratories used by geological reference material.</i> |
| 10:23-10:25 | Jyh-Jaan Steven Huang , Institute of Geology, University of Innsbruck, Austria. <i>Multivariate statistical and multi-proxy constraints on earthquake-triggered sediment remobilization processes in the central Japan Trench.</i> |
| 10:25-10:30 | Question and discussion session, Chair: Liang-Chi Wang , National Chung Cheng University, Taiwan. |
| Beyond 10:30 | Optional zoom meeting if the discussion is still active beyond the DFS session. https://zoom.us/j/97329210863?pwd=VmRuZFhrc1RVOUl0L3FteitVRmFTQT09 Meeting ID : 973 2921 0863 Password : XRF |
| iposter session | |
| Keiji Horikawa , Graduate School of Engineer and Science, University of Toyama. <i>The advantages and limits of ITRAX core scanner: Learning by comparison with destructive element and isotope data from the Gulf of Alaska sediment core.</i> | |
| Nagayoshi Katsuta , Faculty of Education, Gifu University. <i>Quantitative micro-XRF scanning spectroscopy of freshwater lake sedimentary sequences based on the X-ray absorption and emission theories.</i> | |

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| <p>Arisa Seki, Faculty of Science, Shinshu University. <i>Bromine (Br) counts measured by XRF core scanner (ITRAX) as a proxy of marine organic carbon content in the hemipelagic sediments of the Japan Sea.</i></p> |
| <p>KanHsi Hsiung, Japan Agency for Marine-Earth Science and Technology. <i>The characteristics of turbidites beds of southwestern Ryukyu Trench floor: A new approach from the X-ray fluorescence core scanning analysis.</i></p> |
| <p>Hitoshi Hasegawa, Faculty of Science and Technology, Kochi University. <i>Reconstruction of variations in South Pacific westerly jet path during the last glacial.</i></p> |
| <p>Yoshiaki Suzuki, Geological Survey of Japan, National Institute of Advanced Industrial Science and Technology. <i>The chemical composition and temporal change of varve-like sediment in Beppu Bay.</i></p> |
| <p>Yoko Ishiyama, Akita University. <i>Change of depositional environment in Lake Tazawa estimated by X-ray fluorescence core scanner.</i></p> |
| <p>Liang-Chi Wang, National Chung Cheng University, Taiwan. <i>Multiproxies applied on sediment core for revealing the environmental changes and natural disaster events in Lake Kitaura, central Japan.</i></p> |
| <p>Jyh-Jaan Steven Huang, Institute of Geology, University of Innsbruck. <i>Multivariate statistical and multi-proxy constraints on earthquake-triggered sediment remobilization processes in the central Japan Trench.</i></p> |
| <p>Atsuko Amano, National institute of Advanced Industrial Science and Technology. <i>Comparison of element profiles obtained from Itrax-XRF core scanner in evaluating data quality among laboratories used by geological reference material.</i></p> |
| <p>Natsumi Okutsu, Japan Agency for Marine-Earth Science and Technology. <i>Detecting the seismo-turbidites of off Kumano, the Nankai Trough using ITRAX profile.</i></p> |

Conveners:

Jyh-Jaan Steven Huang, Institute of Geology, University of Innsbruck, Austria.

Atsuko Amano, National Institute of Advanced Industrial Science and Technology, AIST, Japan.

Masafumi Murayama, Faculty of Agriculture and Marine Science, Kochi University, Japan.

Liang-Chi Wang, National Chung Cheng University, Taiwan.