



INTERNATIONAL SYMPOSIUM & SCHOOL ON CRYSTAL GROWTH FUNDAMENTALS MEETING REPORT



Talk by Hiroshi Ohmoto in memory of Prof. Ichiro Sunagawa

The International Symposium & School on Crystal Growth Fundamentals, which had the specific title “New Insights into Crystal Growth Fundamentals: A Tribute to Profs. Ichiro Sunagawa and Pieter Bennema”, was successfully held 3–7 November 2018 in the Hotel Sakan (Sendai, Japan). The Japan Association of Mineralogical Sciences co-sponsored the symposium, and the International Joint Graduate Program on Earth and Environmental Sciences of Tohoku University provided financial support to the school part. The memorial and keynote speakers included Jim De Yoreo, Takeshi Fukuma, Juan Manuel García-Ruiz, Taketoshi Hibiya, Koichi Kakimoto, Geun Woo Lee, Chaorong Li, Qiu-Sheng Liu, Xiang-Yang Liu, Mihiko Maruyama, Teruyasu Mizoguchi, Teruki Sugiyama, An-Pan Tsai, Katsuo Tsukamoto, Elias Vlieg, and Mu Wang. For more, please see (<http://www.nsc.nagoya-cu.ac.jp/~miurah/ISSCGF2018/>).

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Original Articles

Three-dimensional observation of the boundary region between massive feldspar and graphic granite by X-ray computed tomography – Susumu IKEDA, Yoshito NAKASHIMA and Tsukasa NAKANO

An in situ Raman study on katoite $\text{Ca}_3\text{Al}_2(\text{O}_4\text{H}_4)_3$ at high pressure – Masato KATO and Atsushi KYONO

Retrograde pumpellyite in the Yunotani garnet blueschist of the Omi area, Japan: An update on the cooling path – Yuzuki SHINJI and Tatsuki TSUJIMORI

New data on ferri-grothite in Sanbagawa quartz schist from the Iimori region, Wakayama Prefecture, Japan: solid solution between magnesio-riebeckite and clinosuenoite – Yasuyuki BANNO, Koichi MOMMA, Ritsuro MIYAWAKI and Shigeo YAMADA

Letter

Viscosity of melt of soda melilite composition at high pressure – Akio SUZUKI

NATURALLY OCCURRING ASBESTOS: FROM GEOLOGICAL TO MEDICAL ASPECTS

Short Course Title: The 2nd European Mineralogical Union (EMU) School on Mineral Fibres

Location: Casale Monferrato (Alessandria, Italy), 9–13 September 2019

CHAIRS: Ruggero Vigliaturo and Alessandro F. Gualtieri

Following the success of the first European Mineralogical Union (EMU) school on mineral fibres, which took place June 2017 in Modena (Italy), this second edition will be more focused on naturally occurring asbestos (NOA). Naturally occurring asbestos became a global public health issue since the publication of scientific evidence of increased risk of malignant mesothelioma in people exposed to airborne asbestos released from natural occurrences. The presence of NOA in the environment affects everyone: therefore, the human activities aimed at its modification and all engineering/geological actions in the natural environment should take it into account.

The school will be multidisciplinary and is aimed at students with a background in biology, chemistry, geology, materials science, medicine, and physics and who are keen to work in this challenging research field of environmental protection.

Each participant will receive a copy of EMU Notes Volume 18 (2017) (see <https://www.minersoc.org/emu-notes-18.html>), which will be used as the textbook during the school.

The following topics will be covered:

- Crystal chemistry and the occurrence of mineral fibres and naturally occurring asbestos (NOA)
- Definitions (e.g., of asbestos, fibre, NOA, NOMF, NOE)
- Identification of the occurrence, formation, and associated host rocks of the various NOA minerals
- Geological assessment and field sampling methods for NOA in rock and soil
- Experimental methods for the investigation of mineral fibres, with special attention to optical and electron microscopy
- Laboratory rock and soil testing, sample preparation, and analysis protocols
- Selected examples of NOA
- Protection of workers and the public from large and small construction projects
- Surface and biochemical properties of mineral fibres
- Asbestos-related diseases and biochemical mechanisms, inducing adverse effects in the human body
- In vitro and in vivo tests to assess cyto/genotoxicity and carcinogenicity of mineral fibres
- Epidemiological studies of asbestos-related diseases and genetic factors

During the school, there will be afternoon practical sessions to let students practice the experimental methods for studying mineral fibres, two field trips, and an educational visit. At the end of each day, there will be time for open discussion. The distinguished Italian and international lecturers will be delighted to share their own outstanding scientific and life experiences with participating students and with interested colleagues.

Registrations will open in late February 2019

Max number of attendees: 60

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