



# Program

Tuesday, 20 February

12:00	Start of registration
12:30	Opening ceremony by M. Maruyama
12:35-12:45	Introduction of lecturers K. Tsukamoto (Tohoku University)
12:45-13:30	<b>Nucleation and growth of metastable phases</b> I. Sunagawa (Tohoku University)
13:30-14:15	<b>Correlation between light interference and crystal structure on nacreous layer</b> H. Komatsu (Pearl Science Laboratory)
14:15-15:00	<b>Bridged nanocrystals in biominerals and biomimetic calcium carbonates</b> H. Imai (Keio University)
15:00-15:30	Break time
15:30-16:15	<b>Principles of biominerals architecture</b> X. Y. Liu (National University of Singapore)
16:15-17:00	<b>New model of calcium oxalate crystallization</b> E. Petrova (Moscow State University)
17:00-17:45	<b>Crystallization mechanisms involved in insulin regulation in vivo</b> P. Vekilov (University of Houston)
18:00-20:20	Banquet

## Wednesday, 21 February

- 9:30-10:15      **Uptake of lanthanide elements and their redox change during crystal growth of calcium carbonate and other inorganic compounds**  
H. Kagi (University of Tokyo)
- 10:15-11:00    **The role of additives on the interface structure of NaCl(111) in solution**  
E. Vlieg (Radboud University Nijmegen)
- 11:00-15:00    Excursion to bathing in hot spring in Akiu spa area and lunch
- 15:30-16:15    **Diffusion, adsorption and incorporation of antifreeze protein molecules at growing ice interface**  
Y. Furukawa (Hokkaido University)
- 16:15-17:00    **Patterns on non-planar surface by stress engineering**  
C. Li (Chinese Academy of Sciences)
- 17:15-19:00    **Poster Sessions**
- 19:00-20:20    Dinner

## Thursday, 22 February

- 9:30-10:15      **Single molecule visualization: application to crystal growth studies**  
G. Sasaki (Tohoku University)
- 10:15-11:00      **Biom mineralization using artificial peptide aptamers  
against inorganic materials**  
K. Sano (Department of Protein Engineering, The Cancer Institute,  
Japanese Foundation for Cancer Research)
- 11:00-11:15      Break time
- 11:15-12:00      **Supercritical fluid – rock interactions: fluid properties and  
crystal growth**  
N. Tsuchiya (Tohoku University)
- 12:00-12:45      **Biogenic carbonates and limestones as proxies  
for paleoenvironments**  
Y. Iryu (Tohoku University)
- 13:00-14:00      Lunch
- 14:00-14:45      **Nano-scale dissolution and growth of minerals studied  
for underground waste management**  
H. Satoh (Mitsubishi Materials Corporation)
- 14:45-15:30      **The promoted step velocity of calcite in the presence of chiral  
amino acid**  
M. Maruyama (Tohoku University)
- 15:30-16:15      **Studying crystal growth with advanced optical microscopy**  
P. Dold (Tohoku University)
- 16:30-16:45      Closing ceremony

## Poster

- P-01 Development of DLS apparatus to monitor initial stage of crystal growth**  
Kamiya, N. (National Defense Academy)
- P-02 Liquid-liquid phase separation of lysozyme solution under microgravity**  
Koizumi, M. (Tohoku University)
- P-03 The various textures of carbonate minerals in the primitive meteorites**  
Kudo, K. (Tohoku University)
- P-04 Amorphous forsterite particles formed from levitated melts**  
Moriuchi, Y. (Tohoku University)
- P-05 Reproduction of meteoritic silicate spherules from levitated melts**  
Nagashima, K. (Tohoku University)
- P-06 Surface topograph of cobble structure on Qz (0001)**  
Nozaki, S. (Tohoku University)
- P-07 Magnetite colloidal crystals in the meteorite**  
Nozawa, J. (Tohoku University)
- P-08 In-situ characterization of defects during protein crystal growth**  
Ono, E. (Tohoku University)
- P-09 Formation condition of olivine fine particle surface composing meteorite**  
Yamada, J. (Tohoku University)
- P-10 Origin of colloidal crystal of magnetite particles**  
Yamada, K. (Tohoku University)
- P-11 Relation between dissolution rate and etch pit morphology of calcite  
in amino acid solution**  
Yoshino, T. (University of Tokyo)