

2024/12/2	Introduction		9:30
Crystal Growth of ice	Chair: G. Sasaki (ILTS, Hokkaido Univ.)		
T. Ishizaki (Tohoku Univ. Art Design)	Evaluation of frost heave models by the experimental results		9:45
T. Okada (Natl. Inst. Tech.,(kosen) Numazu College)	Role of Methyl Groups in Ice Recrystallization Inhibition of Antifreeze Silver Nanoparticles		10:15
T. Kumada (Japan Atomic Energy Agency)	Spin-contrast variation small-angle neutron scattering of nano-ice crystals in rapidly frozen sugar solutions		10:45
Yuheng Zhao (ILTS, Hokkaido Univ.)	Nitrogen gas suppresses the growth of elementary steps on ice crystal surfaces	short presentation	11:15
T. Mukaihara (Okayama Univ.)	Can hydrogen-disordered ice grow from hydrogen-ordered ice?	short presentation	11:35
	Lunch		11:55~13:15
Simulation	Chair: K. Murata (ILTS, Hokkaido Univ.)		
K. Ogata (Sanyo-Onoda City Univ.)	Analysis of behavior of water molecules surrounding molecules in solution using MD simulation	On Line	13:15
T. Takayama (Saitama Univ.)	Development of TIP4P/2005-SHW and its application to vibrational spectroscopy		13:45
Cryobiology			
K. Muramatsu (Japan Adv. Inst. Sci. Tech.)	Molecular mechanisms of cryoprotective property of macromolecular cryoprotectants		14:15
S. Matsuo (Hokkaido Univ.)	Investigation of the mechanism of cell cryopreservation focusing on the permeability of cell membranes and the properties of cryoprotectants		14:45
T. Uchida (Hokkaido Univ.)	Cryopreservation of CHO-TRET1 cells using trehalose by Pressure Liquid Cooling Vitrification method		15:15
	Coffee Break		15:45~16:00
Clathrate Hydrates	Chair: T. Uchida (Hokkaido Univ.)		
Y. Mizutani (Kitami Inst. Tech.)	Effect of guest gas and cage size on stable isotope fractionation during gas hydrate formation		16:00
S. Muromachi (Yokohama Natl. Univ.)	Discovery of HS-I structure of clathrate hydrates		16:30
T. Sugawara (Osaka Univ.)	Proton conduction in semi-clathrate hydrate single crystals		17:00
	Coffee Break and Poster preparation		17:30~17:45
Posters (ON SITE only)			
T. Uchida (Hokkaido Univ.)	Change of number density of UFB after freeze-thawing process		17:45~19:15
Y. Arai (Tokai Univ.)	Crystal Structure and Dynamics of Ice in Crystallized Polymer-Water Mixtures		17:45~19:15
S. Higuchi (Tokai Univ.)	Ice Structure and Dielectric Relaxation in Aqueous Solutions of Crystallized Monosaccharides		17:45~19:15
H. Ito (Univ. Tokyo)	The pressure effect of the ordering of ice VI revealed by in-situ thermal analysis under high pressure		17:45~19:15
H. Kobayashi (Univ. Tokyo)	How to certainly obtain lucky results		17:45~19:15
M. Satoh (Univ. Tokyo)	Effect of water on melting point of ethanol of high pressure phase-II		17:45~19:15
S. Nozaki (ELSI, Sci. Tokyo)	Incorporations of Ammonia into Methane Clathrate Hydrates in the Subsurface Ocean on Titan		17:45~19:15
R. Nakabe (Japan Atomic Energy Agency)	Nanostructure analysis of composite materials using spin-contrast variation small-angle neutron scattering -Case of ice crystals-		17:45~19:15
M. Inada (Univ. Tokyo)	In-situ Electrical Conductivity Measurement of H ₂ O-NH ₃ System		17:45~19:15
	Banquet		19:30~
2024/12/3			
Micro and Nano bubbles	Chair: K. Nagashima (ILTS, Hokkaido Univ.)		
Y. Maeda (Osaka Metro. Univ.)	Characteristics of DO and O ₂ -nanobubbles are same or different?		9:30
Nguyen Huynh Phuong Uyen (Osaka Metro. Univ.)	A behavior of dissolved gases and gas-nanobubbles in water, alcohols and their mixtures		10:00
N. Takenaka (Osaka Metro. Univ.)	Effect of ultra-fine bubble oxygen on some oxidation reactions in water		10:30
M. Tanigaki (Kyoto Univ.)	Studies on Ultrafine Bubbles Using Radioactive Nuclei as Probes		11:00
	Coffee Break		11:30~11:45
High Pressure Ices	Chair: T. Uchida (Hokkaido Univ.)		
K. Sasaki (Tokai Univ.)	Hydrogen and oxygen isotopic effects on the molecular dynamics of high-density amorphous ice under high pressure		11:45
K. Mochizuki (Zhejiang Univ., China)	Proton-ordered ice I does not collapse under compression	On Line	12:15
	Conclusions and Remarks		12:45