ICAST 2019 Day 1 – September 25 (Wed)

KBSI 한국기초과학지원연구원 KOREA BASIC SCIENCE INSTITUTE

- Please be advised that sessions will be held in two KBSI campus in two different cities, Daejeon and Ochang.
- (Daejeon**) Room D-1**: Conference Room(2F), Main Bldg.
- (Ochang) **Auditorium**: Bldg. 103 | **Room O-1**: Conference Room, Bldg. 101 | **Room O-2**: Conference Room(2F), Bldg. 204

Time	Progarm		Venue
	[S1] **Magnetic Property Measurement School**		
10:00 - 18:00		**Dong Hyun Kim** Chungbuk National University *TBA*	*(Daejeon)* Session Room D-1
		Kyoung-Woong Moon Korea Research Institute of Standards and Science *TBA*	
		Jaeyoung Kim Institute for Basic Science *X-ray Magnetic Circular Dichroism and Soft X-ray Resonant Scattering*	
	[S2] **SIMS School**		
13:00 - 18:00		**Byeon Gak Choi** Seoul National University *TBA*	*(Ochang)* Auditorium
		Changkun Park Korea Polar Research Institute *SIMS analysis of stable isotopes in minerals*	
		Sung-Kyu Kim National Institute for Nanomaterials Technology *Use of SIMS in Steel analysis*	
		Jinkyu Park Korea Atomic Energy Research Institute *Uranium Isotope Analysis of Nuclear Particles in Environmental Samples using Secondary Ion Mass Spectrometry*	
		Jong Sung Jin Korea Basic Science Institute *Introduction of Hybrid SIMS*	
		Jeongmin Kim Korea Basic Science Institute *TBA*	
	[S3] **Nano/Bio-EM & CNU Hospital Workshop**		
13:00 - 18:00		**Yong-Ho Park** Chungnam National University Hospital *Functional and Histopathologic Changes in the Ear of Diabetic and Aging Mouse*	*(Ochang)* Session Room O-1
		Chaeuk Chung Chungnam National University Hospital *Co-targeting YAP/PD-L1 signaling and autophagy key factor p62 overcomes EGFR-TKI resistance in lung cancer*	
		Joon Won Kang Chungnam National University Hospital *Prenatal stress, as a cause of epilepsy in infants*	
		Hee-Seok Kweon Korea Basic Science Institute *Advanced Immuno-Electron Microscopy in Life Sciences*	
		Coffee Break	
		Eun-Kyeong Jo Chungnam National University Hospital *Autophagy and Host Defense in Mycobacterial Infection*	
		Chang Hwa Jung Korea Food Research Institute *Studying selective autophagy in lipid droplets and mitochondria using transmission electron microscopy*	
		Dong Woon Kim Chungnam National University Hospital *PLGA nanoparticle applications in Neuropathic Pain animal model*	
		Jae Hyuck Jang Korea Basic Science Institute *New analytical insight into nano-bio materials research*	
		Coffee Break	
		Hyon-Seung Yi Chungnam National University Hospital *Relationship between loss of muscle mass and bone marrow inflammation*	
		Kyung-Bok Lee Korea Basic Science Institute *Imaging of bindings between chemical drug and its target protein kinases by redistribution assay in living cell*	
		Sang-Chul Lee Korea Basic Science Institute *Machine Learning for Data Analysis*	
	[S4] **MS User Meeting**		
13:00 - 18:00		**Jeongkwon Kim** Chungnam National University *TBA*	*(Ochang)* Session Room O-2
		Tae-Young Kim Gwangju Institute of Science and Technology *TBA*	
		Jong-Ho Park Chonbuk National University *TBA*	
		Yeol Gyun Lee Proteinworks *TBA*	
		Jong Bok Seo Korea Basic Science Institute *TBA*	
		Heeyoun Hwang Korea Basic Science Institute *Machine Learning Classifies Core and Outer Fucosylation of N-Glycoproteins Using Mass Spectrometry*	

ICAST 2019 Day 2 – September 26 (Thu)

한국기초과학지원연구원 KOREA BASIC SCIENCE INSTITUTE

- (Daejeon) **Auditorium**: Main Bldg. | **Room D-1**: Conference Room(2F), Main Building

Time	Progarm		Venue
10:00 - 10:30	**Registration**		Lobby Main Bldg.
	[C1]		
10:30 - 12:00	**Opening & Plenary 1**	**Hisayoshi Yurimoto** Hokkaido University *Isotope microscope and the application*	*(Daejeon)* Auditorium
12:00 - 13:00	**Lunch**		Cafeteria
	[C2]		
13:00 - 18:00	**HVEM & Cryo-EM**	**Shunsuke Muto** Nagoya University *High-voltage scanning/transmission electron microscopy at Nagoya - Where do we come from? What are we? Where are we going? -*	*(Daejeon)* Auditorium
		Seung Jo Yoo Korea Basic Science Institute *In-situ TEM studies of nanostructured materials within an atomic level*	
		Akihiro Osaki JEOL *Development of Cryo-Ultra-High Voltage Electron Microscope*	
		Coffee Break	
		Hidehiro Yasuda Osaka University *In situ experiments by ultra-high voltage electron microscopy at Osaka University*	
		Yang Hoon Huh Korea Basic Science Institute *Unique Features of Bio-HVEM and its Application in Structural Analysis of Bio-Nano Materials by 3D Tilting Electron Tomography*	
		Kea Joo Lee Korea Brain Research Institute *Volume Electron Microscopy of Cortical Synaptic Structures in Elevated Protein Synthesis of Microglia*	
		Hiromitsu Furukawa SYSTEM IN FRONTIER Inc. *The tutorial of Post Processing for electron tomography*	
		Coffee Break	
		Im Joo Rhyu Korea University *High Voltage Electron Microscopy & its Contribution to Biomedical Researches*	
		Sohei Motoki JEOL *Development of CRYO ARM – Cryo High-Resolution TEM Equipped with Cold Field Emission Gun for Structural Biology*	
		Sung-Hoon Jun Korea Basic Science Institute *Structural basis of transcription activation by general transcription factor TFEα*	
		Jin Young Kang Korea Advanced Institute of Science and Technology *Structural study on prokaryotic transcription – how RNA polymerases pause and go*	
	[C3]		
13:00 - 15:00	**SIMS**	**Martin J. Whitehouse** Swedish Museum of Natural History *Novel ion imaging applications in the earth, environmental and planetary sciences using large-geometry SIMS*	*(Daejeon)* Session Room D-1
		Xian-Hua Li Institute of Geology and Geophysics, Chinese Academy of Sciences *Ultra-high precision SIMS Si-isotope microanalysis*	
		Nagoya Sakamoto Hokkaido University *EXTREME 16O-RICH MATERIALS IN CH CHONDRITES*	
		Jeongmin Kim Korea Basic Science Institute *Introduction of high precision isotope microscope system in KBSI*	
	[C4]		
15:00 - 18:00	**AP-XPS**	**Beomgyun Jeong** Korea Basic Science Institute *The new ambient pressure XPS end-station at Pohang Light Source*	*(Daejeon)* Session Room D-1
		Wenbing Yun Sigray, Inc. *Development of a laboratory-based X-ray absorption system for energy material research*	
		Bongjin Simon Mun Gwangju Institute of Science and Technology *Recent progress of ambient pressure XPS and its application*	
		Ki Jeong Kim Pohang Accelerator Laboratory *8A2 KBSI-PAL AP-XPS beamline for in situ and operando science at Pohang Accelerator Laboratory*	
18:00 - 19:30	**Conference Banquet**		TBA

ICAST 2019 Day 3 – September 27 (Fri)

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- (Ochang) **Auditorium**: Bldg. 103

Time	Progarm		Venue
10:00 - 10:30	**Registration**		Lobby Bldg. 103
	[C5]		
10:30 - 11:10	**Plenary 2**	**Minhaeng Cho** Korea University *Coherent Multidimensional Spectroscopy: Recent Developments*	*(Ochang)* Auditorium
	[C6]		
11:10 - 12:00	**Femtosecond Laser Spectroscopy**	**Kyungwon Wak** Korea University *The Intra-band Auger Process of HgS Quantum dot Studied by Femtosecond Infrared Pump-Probe Spectroscopy*	*(Ochang)* Auditorium
		Hanju Rhee Korea Basic Science Institute *TBA*	
12:00 - 13:20	**Lunch**		Cafeteria
	[C7]		
13:20 - 14:15	**Plenary 3**	**Christian Griesinger** Max Planck Institute of Biochemistry *NMR spectroscopy in chemistry and biology with applications in immunology and neuroprotection*	*(Ochang)* Auditorium
	[C8]		
14:15 - 18:00	**Biomolecular NMR**	**Jeong-Yong Suh** Seoul National University *Structural and dynamic investigation of type II-A and II-C anti-CRISPR proteins*	*(Daejeon)* Auditorium
		Yangmee Kim Konkuk University *Functional Flexibilities of Proteins from Thermophilic, Mesophilic, and Psychrophilic Bacteria for Thermal Adaptation*	
		Coffee Break	
		Donghan Lee University of Louisville *Functional roles of biomolecular dynamics at the hidden time*	
		Jung Ho Lee Seoul National University *High-Resolution Diffusion NMR at Near Physiological Conditions*	
		Joon-Hwa Lee Gyeongsang National University *NMR investigation of base-pair opening of nucleic acids in relation to their biological function*	
		Kyoung-Seok Ryu Korea Basic Science Institute *Nonenzymatic acetylation of ubiquitin Lys side chains is studied by NMR spectroscopy*	

- KBSI Daejeon: [Google Maps] https://goo.gl/maps/aveqP7tH21XZnQDf9 | [Naver Maps] http://naver.me/x4nxpQNM
- KBSI Ochang: [Google Maps] https://goo.gl/maps/Lck4Me2pY5zuzVU87 | [Naver Maps] http://naver.me/GkQR57Yc