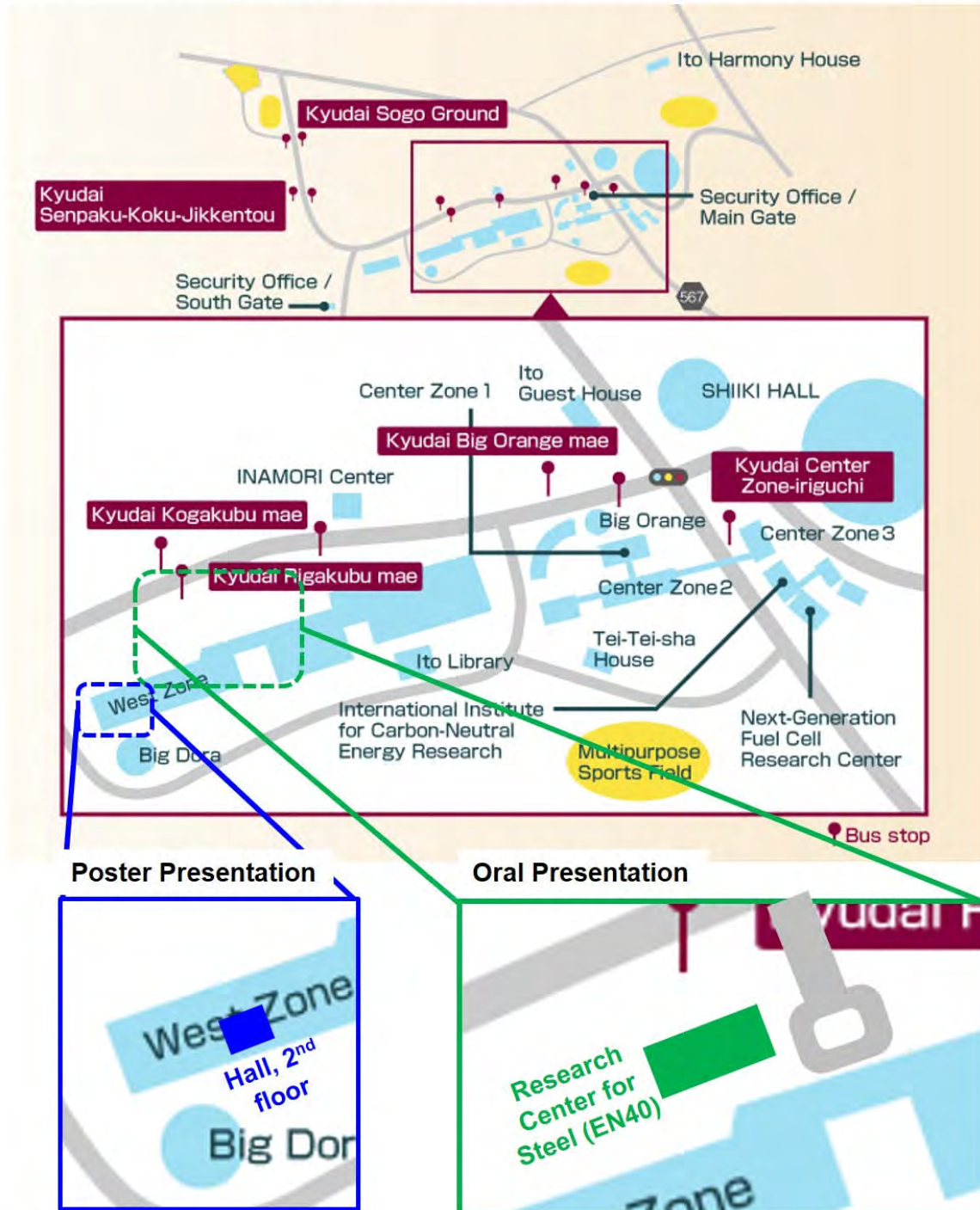


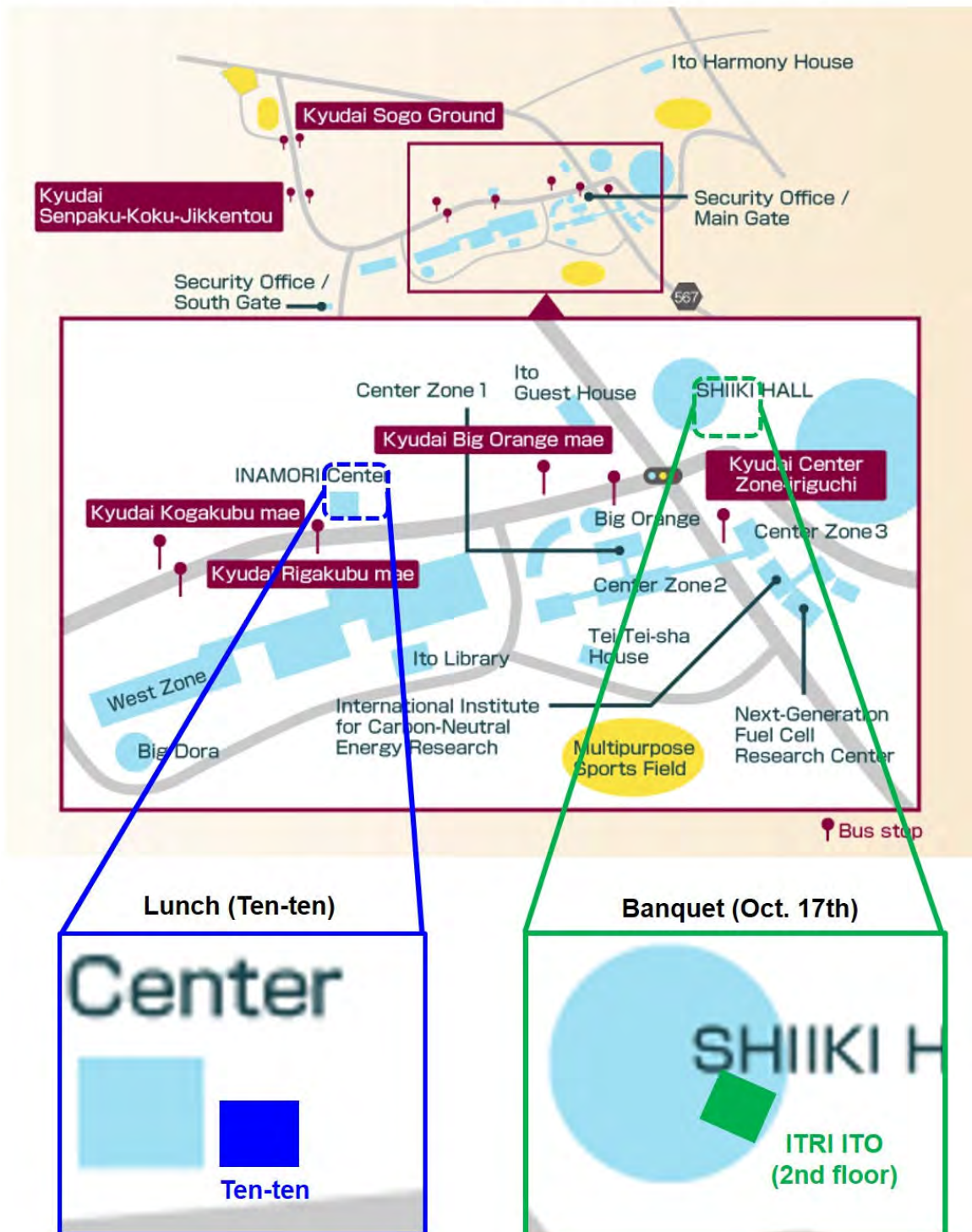
Map of Ito campus, Kyushu University

(<https://www.kyushu-u.ac.jp/en/campus/ito/>)

Nearest Bus Stop to conference site is “Kyudai Kogakubu mae”.



Venue of Lunch (Oct. 17th & 18th) and Banquet (Oct. 17th)



JEM-F200

JEM-F200 (Nick name : F2) is a multi-functional electron microscope of the next generation to meet diversified needs.

F2 provides a user-oriented integrated-control-environment developed with excellent performance and a variety of functions.



JEOL  **JEOL Ltd.**

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The business domains of the JEOL Group are classified into "Scientific / Metrology Instruments", "Industrial Equipment" and "Medical Equipment".
"Scientific / Metrology Instruments Business" Electron Optics Instruments, Analytical Instruments, Measuring Instruments
"Industrial Equipment Business" Semiconductor Equipment, Industrial Equipment
"Medical Equipment Business" Medical Equipment

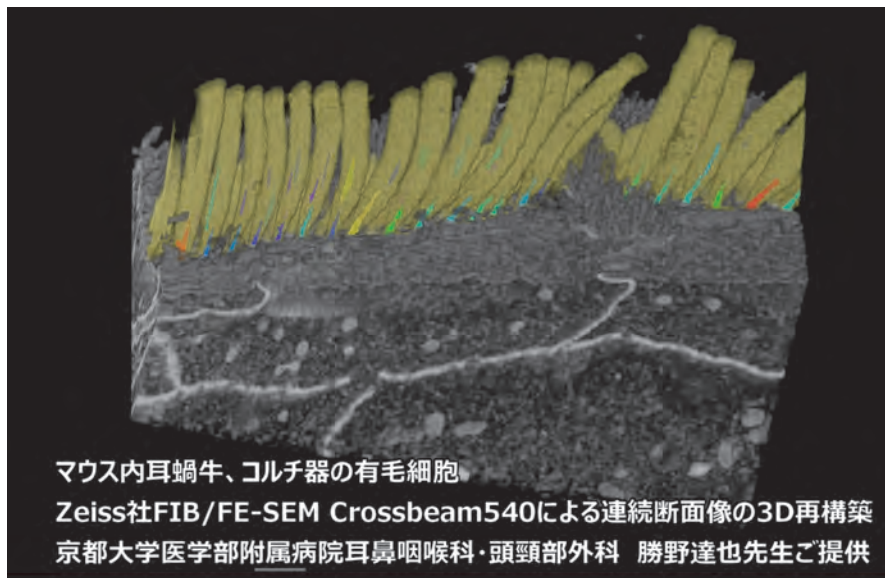
Visualization software for researchers and developers



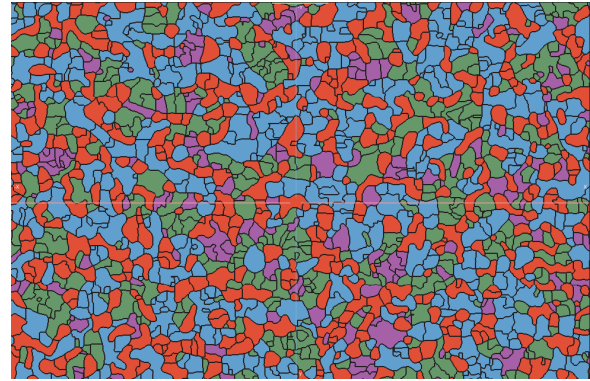
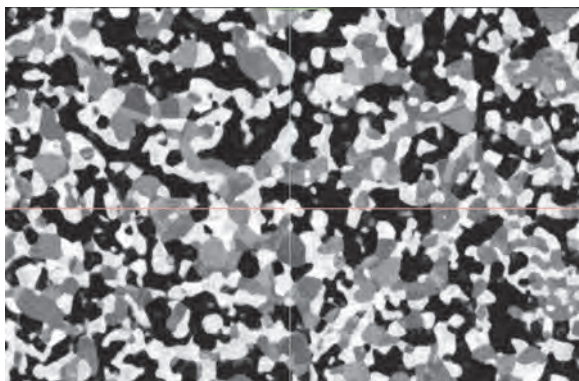
Dragonfly



- ✓ High Impact Visualization and Animation
- ✓ Image Processing
- ✓ Image Segmentation
- ✓ Quantitative Analysis
- ✓ Powerful User Extensibility



AI(Machine Learning) Segmentation is here!



Fuel Cell dataset segmented by region-based trainer



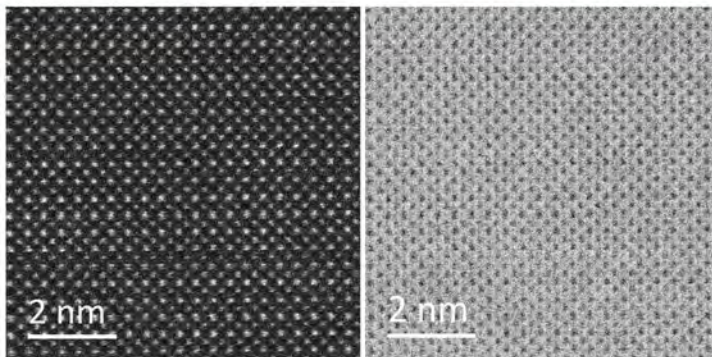
Dragonfly distributor
Maxnet Co.,Ltd
5-52-15-916, Nakano, Nakano-ku, Tokyo 164-0001 Japan
TEL: +81-3-5318-6626
Email info@maxnt.co.jp URL <http://www.maxnt.co.jp>

Double tilt LN2 Atmos Defend Holder



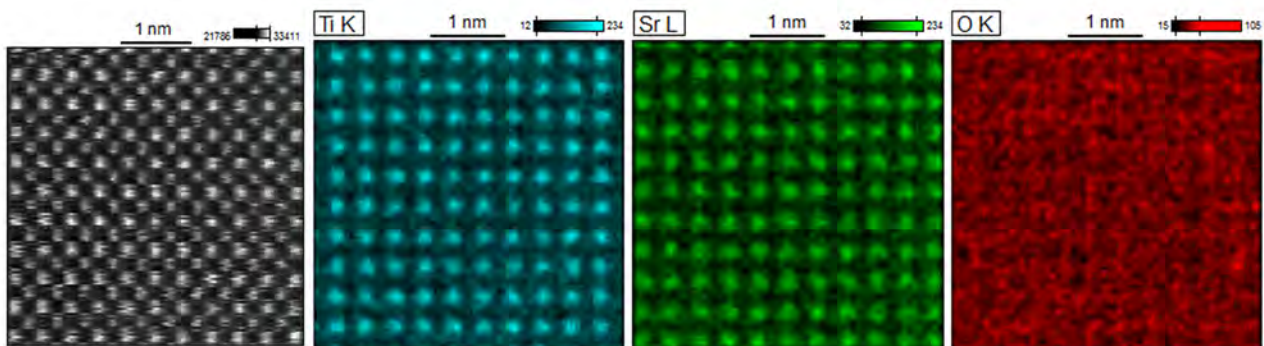
LN₂ cooling -170°C + Double Tilt ±20° + Non-exposed
 High resolution observation and EDS analysis at -170°C
 Suitable for lithium-Ion battery analysis

High resolution performance at -170°C



Sample : SrTiO₃
 Magnification : x25M (STEM mode)
 TEM : ARM-200F at University of Tokyo
 Time require to observe HR image
 after reaching -170°C: for 45min
 (Data courtesy of Dr. Ishikawa, Dr. Nakayama,
 Dr. Kumamoto, Prof. Shibata and
 Prof. Ikuhara, University of Tokyo)

EDS analytical stability test using LN₂ cooling holder :
 Column mapping of SrTiO₃



Distributors

in Tiwan and
 China:



in Korea:



Program

Arrival & Welcome dinner	
Time & Date: 19:00 ~ 21:00, October 16th (Tue.) , 2018	
Place: Hotel AZ Itoshima	
Registration	
Time & Date: 8:50 ~ 9:15, October 17th (Wed.) , 2018	
Place: In front of Seminar Room, Research Center for Steel (EN40)	
Oral Presentation (Wednesday Morning)	
Time & Date: 9:15 ~ 12:00, October 17th (Wed.) , 2018	
Room: Seminar Room, Research Center for Steel (EN40)	
9:15 - 9:25	Opening remark, Kenji Kaneko, Kyushu University
Session 1: Structural Materials-1 (Chairperson: Kenji Kaneko)	
IT1 9:25 - 9:50	Effect of Shot Peening on Microstructural Evolution and Mechanical Property Modification of Metals Keesam Shin, Changwon National University
IT2 9:50 - 10:15	Development of an <i>in-situ</i> TEM tomography system for deformation phenomena Satoshi Hata, Kyushu University
IT3 10:15 - 10:40	Influence of Na ₂ SiO ₃ on Anodized Film Formed on Magnesium Alloy AZ31 Xianlong Cao, Chongqing University of Science and Technology
Break	
Session 2: Functional Materials-1 (Chairperson: Satoshi Hata)	
IT4 10:55 - 11:20	Electron microscopic approach toward unveiling metal-insulator transition in vanadium oxides Si-Young Choi, Pohang University of Science and Technology
IT5 11:20 - 11:45	Ferroelectric and structural domains in multiferroic RMnO ₃ (R = rare-earths) Yoichi Horibe, Kyushu Institute of Technology
11:45 - 11:55	Photo session

International Symposium on Microscopy & Microanalysis of Materials (ISMMM) 2018
Program Book

Lunch	
Time & Date: 12:00 ~ 13:00, October 17th (Wed.), 2018	
Venue: Ten-ten, in Inamori Hall, Kyushu University	
Oral Presentation (Wednesday Afternoon)	
Time & Date: 13:00 ~ 16:10, October 17th (Wed.) , 2018	
Room: Seminar Room, Research Center for Steel (EN40)	
Session 3: Functional Materials-2 (Chairperson: Yukio Sato)	
IT7 13:00 - 13:25	Toward High-precision Off-axis Electron Holography Yasukazu Murakami, Kyushu University
IT8 13:25 - 13:50	Binder Chemistry of Cathode in High-Energy Density Lithium-ion Batteries Seung-Wan Song, Chungnam National University
IT9 13:50 - 14:15	Observation of lattice modulations related to magnetic ordering and spin state in the cross-correlated materials Toru Asaka, Nagoya Institute of Technology
IT10 14:15 - 14:40	Fabrication of superconducting joint for GdBa ₂ Cu ₃ O _y coated conductors Ryo Teranishi, Kyushu University
Break	
Session 4: Functional Materials-3 (Chairperson: Xiaolong Cao)	
IT11 14:55 - 15:20	Effect of Zn Doping on Microstructure Evolution in Cu ₂ SnS ₃ Ceramics Rong Huang, East China Normal University
IT12 15:20 - 15:45	Microstructure of joint interface between high-temperature superconducting wires Xinzhe Jin, Muroran Institute of Technology
IT13 15:45 - 16:10	Cross sectional observation and piezoelectric response measurement of ferroelectric thin film using AFM Naonori Sakamoto, Shizuoka University

IT6 Talk by Professor Jinshu Wang was cancelled.

Poster session (Wednesday Evening)	
Time & Date: 16:20 ~ 18:30, October 17th (Wed.), 2018	
Room: Hall, West Zone Building 4, second floor	
16:20 - 17:30	Presentation time for odd number
P-01	Multi-dimensional analysis of MX precipitates in weld metal for heat resistant steel before and after the creep test Hiroya Yasui, Kyushu University
P-03	Attempt visualization of grain boundaries by FIB method Kousei Sato, Kyushu University
P-05	Microstructure analysis of fine precipitates in low carbon steel Tomonori Koyama, Kyushu University
P-07	Microstructural Observation upon Creep Test of Nickel-base Superalloy Sijia Liu, Changwon National University
P-09	Hydrothermal Synthesis and Morphological Characterization of MnO ₂ Nanostructures by Electron Microscopy Ahrong Jeong, Kyushu University
P-11	Microstructure observation of clathrate Ba ₈ Au ₄ Si ₄₆ thin film prepared by a pulsed laser deposition method Kohta Matsuzaki, Kyushu University
P-13	Effect of extra Ba adding on microstructure of YBa ₂ Cu ₃ O _{7-δ} with BaHfO ₃ Shin Yamada, Kyushu University
P-15	Atomic scale observation of Barium Titanate Nanoparticle by Scanning Transmission Electron Microscopy Mai Aoki, Kyushu University
P-17	Observation of Pb(Mg _{1/3} Nb _{2/3})O _{3-x} PbTiO ₃ by high-resolution <i>in-situ</i> electrical biasing electron microscopy Syota Fujinaka, Kyushu University
P-19	Chemical procedure and mechanism study of NdFeB magnetic nanoparticles via sol-gel method Jinshan Zhang, Chongqing University of Science and Technology,

17:20 - 18:30	Presentation time for even number
P-02	Influence of temperature on the Pitting Corrosion of 316L Steel in 1.0 w.t % Chloride Containing MDEA Solution Xianglong Hou, Chongqing University of Science and Technology
P-04	Atomically-resolved STEM-EDS study of fine precipitate in an Al-Mg-Si-Cu alloy Takuya Maeda, Kyushu University
P-06	Nanoscale characterization of dislocations in an Al-Mg-Si-Cu alloy isothermal aged at low temperature Takuya Namba, Kyushu University
P-08	<i>In-situ</i> heating TEM experiment of low-carbon martensite Yosuke Fukuo, Kyushu University
P-10	Microstructure Evolution of Ferrite Steel T11, T22 after Long Term Usage Liming Xu, Changwon National University
P-12	Investigation of mechanism for superconducting joint of GdBa ₂ Cu ₃ O _y coated conductors Tomohiro Miyajima, Kyushu University
P-14	Increase of jointed area for GdBa ₂ Cu ₃ O _{7-δ} coated conductors by introducing gas path Syotaro Yasuyama, Kyushu University
P-16	The magnetocrystalline anisotropy of the X-type hexaferrites Sr ₂ Co _x Fe _{30-x} O ₄₆ Mai Komabuchi, Nagoya Institute of Technology
P-18	Real space dynamics of polar nano region under external electrical field in Pb(Mg _{1/3} Nb _{2/3})O ₃ as revealed by <i>in-situ</i> transmission electron microscopy Syo Yamaguchi, Kyushu University
P-20	Formation of Sm-Co magnetic particles through sol-gel method Wei Wu, Chongqing University of Science and Technology
Banquet	
Time & Date: 19:00 ~ 21:00, October 17th (Wed.), 2018	
Venue: ITRI · ITO, in Shiiki Hall, Kyushu University	
http://itri-ito.com/index.html	

Oral Presentation (Thursday Morning)	
Time & Date: 9:00 ~ 12:00, October 18th (Thu.) , 2018	
Room: Seminar Room, Research Center for Steel (EN40)	
Session 5: Structural Materials-2 (Chairperson: Keesam Shin)	
9:00 - 9:10	Memorial Ceremony for Prof. Chan-Gyung Park's Long-Time Contribution to Materials Science and Electron Microscopy
IT14 9:10 - 9:35	3D atomic scale imaging of core-shell structure by the atom probe tomography and correlative transmission electron microscopy Chan-Gyung Park, Pohang University of Science and Technology
IT15 9:35 - 10:00	Plastic deformation behavior of inorganic semiconductors at room temperature Atsutomo Nakamura, Nagoya University
IT16 10:00 - 10:25	Study on Microstructure and Properties of Corrosion - resistant Steel for Casing Pengjun Cao, Chongqing University of Science and Technology
Break	
Session 6: Advanced Microscopy (Chairperson: Yasukazu Murakami)	
IT17 10:35 - 11:00	Electron cryo-tomography to elucidate the architecture of cells and tissues Takuo Yasunaga, Kyushu Institute of Technology
CT1 11:00 - 11:15	Surface Microscopy with Super Low Energy Electrons (<20 eV) Sarka Mikmekova, Czech Academy of Sciences
IT18 11:15 - 11:40	Three-dimensional nanocharacterization of various materials by (S)TEM-CT Kenji Kaneko, Kyushu University
11:40 - 12:00	Poster award ceremony and Closing remark
Lunch	
Time & Date: 12:00 ~ 13:00, October 18th (Thu.) , 2018	
Venue: Ten-ten, in Inamori Hall, Kyushu University	

Excursion
Time & Date: 13:00 ~ 19:00, October 18th (Thu.) , 2018
Venue: Ultramicroscopy Center, Kyushu University and Fukuoka city downtown
13:00-14:00 Visit to <u>Ultramicroscopy Research Center</u> , Kyushu University (http://www.hvem.kyushu-u.ac.jp/en/index.html)
15:00-17:30 Bus tour to <u>Kushida Shrine</u> , Nakasu Area (https://yokanavi.com/en/spot/26906/) to <u>Canal City Hakata</u> , Hakata Area (https://yokanavi.com/en/spot/26792/)
Banquet
Time & Date: 19:00 ~ 21:00, October 18th (Thu.) , 2018
Venue: Zauo (http://www.zauo.com/zauo_honten/)
Farewell
Time & Date: 10:00 ~, October 19th (Fri.) , 2018
Place: Hotel AZ Itoshima
Farewell & Departure to Fukuoka International Airport