

ICR News 2019

Introduction of the Incubation Support Laboratory

■ Prof WAKAMIYA, Atsushi

The Incubation Support Lab was founded in Uji Campus as an open incubation hub for electronics materials and devices research. The Incubation Support Lab facilitates the application and commercialization of Kyoto University's research achievements. The facility has a wealth of production equipment, including a dip-coater, large-size spin coater, screen printer, sputter deposition system, glove box, dry etching system, and laser scribe. There is advanced apparatus for measuring the Hall effect, absolute PL quantum yield, photoluminescence lifetime, and external quantum efficiency. A SQUID magnetometer and photoelectron yield spectrometer are also available, while electron beam lithography and vacuum deposition systems are accessible with joint usage agreements. These facilities can be used by researchers at Kyoto University as well as start-up companies. The Incubation Support Lab accelerates the exploration and commercialization of unique materials and functional devices at Kyoto University.



Sputter Deposition System



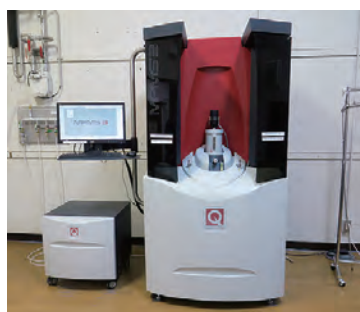
Glove Box



Dry Etching System



Hall Effect Measurement System



SQUID Magnetometer



Absolute PL Quantum Yield Measurement System

Ulaanbaatar Talent-Spot Event 2019

— KAPLAT, a JSPS-supported joint program by ICR, IAE (Kyoto U) and ISIR (Osaka U) —

■ Prof UESUGI, Motonari

The 2019 Talent-Spot Event series featured Ulaanbaatar, Mongolia. Like the previous events in Manila and Hanoi, the Ulaanbaatar event was convened on September 1 as a proactive strategy to recruit top talents from the region.

Sixteen shortlisted students were invited to attend tutorial lectures and one-on-one interviews with KAPLAT professors. Top three students received a travel award to undertake international research training in Uji campus.



Kyoto University Shanghai Lab, ICR's First On-Site Laboratory

■ Prof UESUGI, Motonari

In September 2019, ICR launched Kyoto University Shanghai Lab in partnership with Fudan University, one of the top-ranked universities in China.

As part of Kyoto University's "On-Site-Laboratory" initiatives, Shanghai Lab's missions are to expand its presence in the area and maintain competitiveness in the ever-changing academic research environment.

Shanghai lab functions as a vital chemistry hub for research collaboration, sharing equipment and resources, and research training.

In October, a kick-off meeting "Shanghai-Kyoto Chemistry Forum 2019" was held in Shanghai, where nine ICR professors exchanged ideas and tasks with the counterparts on the focused areas of New Materials, Energy Conversion and Chemical Biology.



19th Annual International Workshop on Bioinformatics and Systems Biology (IBSB 2019)

■ Prof MAMITSUKA, Hiroshi

The above workshop was held in Uji Campus of Kyoto University from 14 to 18 of July under the support of The Kyoto University Foundation and ICR (International Joint Usage/Research Center). This is an annual education-oriented event by four leading institutes world-wide: Bioinformatics Program of Boston University (USA), Systems Biology Group of Berlin (Germany), Human Genome Center, University of Tokyo and Bioinformatics Center, Kyoto University. The total number of participants, mainly PhD students and Postdocs, reached around 70, including four international invited speakers, 14 from USA and 11 from Germany. The main part of this event was around 20 oral and 30 poster presentations, bringing active scientific discussion and interchange, covering wide topics in bioinformatics and systems biology.



26th International Workshop on Oxide Electronics (iWOE26)

■ Prof SHIMAKAWA, Yuichi

The International Workshop on Oxide Electronics series has become an important venue to discuss recent advances and emerging trends in this developing field. The aim of the workshop is to provide an interdisciplinary forum for researchers—theorists as well as experimentalists—on understanding the fundamental electronic and structural properties and also on the design, synthesis, processing, characterization, and applications of (epitaxial) functional oxide materials. In this workshop, 170 scientists including world-leading professors, researchers, and students from all over the world participated. Results of critical scientific importance as well as studies revealing the technological potential of functional oxide thin films to create devices with enhanced performance were showcased.

■ <http://iwoe26.kuicr.kyoto-u.ac.jp/>

