International Workshop on Advanced Smart Materials and Engineering for Nano- and Bio-Technologies

Date: 13th-14th July, 2017

Venue: Large Conference Room D1-201, Graduate School of Engineering, Rokkodai 2nd Campus,

Kobe University, Japan

♦ Thursday, 13th July, 2017

Bio-Sensing and Functional Materials

Time	Speaker	Title
13:30–13:35		Opening Remark
13:35–14:00	Chiaki Ogino (Kobe University, Japan)	Cancer treatment with inorganic nanoparticle
14:00–14:25	Hideto Minami (Kobe University, Japan)	Emulsion Polymerization with a Biosurfactant
14:25–14:50	Takashi Nishino (Kobe University, Japan)	Eco-, Nano ² -Composites
14:50–15:15	Minoru Fujii (Kobe University, Japan)	Bio-photonics applications of silicon quantum dots
15:15–15:30	Coffee Break	
15:30–15:55	Chiya Numako (Chiba University, Japan)	Characterizations for specific bio-accumulated elements and biominerals
15:55–16:20	Mitsuo Umetsu (Tohoku University, Japan)	Nanobiotechnology from material-binding biomolecules for nanomaterial engineering
16:20–16:45	Tatsuo Maruyama (Kobe University, Japan)	Intracellular molecular self-assembly of a peptide derivative that can kill cancer cells
16:45–16:50		Closing Remark

♦ Friday, 14th July, 2017

Advanced Nanostructured Materials for Optoelectronic and Photovoltaic Devices

Time	Speaker	Title
08:55-09:00	Takashi Kita (Kobe University, Japan)	Opening Remark
09:00–10:00	Jiang Wu (University College London, UK)	III-V optoelectronic devices directly grown on Si platform
10:00–10:40	Shinya Kano (Kobe University, Japan)	Colloidal quantum-dot thin film for electronic and optoelectronic devices
10:40–10:55	Coffee Break	
10:55–11:35	Jun Tatebayashi (Osaka University, Japan)	Recent progress and future prospects of nanowire-based light emitters
11:35–12:05	Toshiyuki Kaizu (Kobe University, Japan)	Broadband polarization control of closely-stacked InAs/GaAs quantum dots for semiconductor optical amplifier
12:05–13:30	Lunch Break	
13:30–14:10	Ryo Tamaki (The University of Tokyo, Japan)	Full spectrum quantum efficiency on III-V quantum dot solar cells
14:10–14:40	Shigeo Asahi (Kobe University, Japan)	Two-step photon up-conversion solar cell with a voltage booster hetero-interface
14:40–15:20	Tooru Tanaka (Saga University, Japan)	Intermediate band solar cells based on II-VI dilute oxide semiconductors
15:20–15:35	Coffee Break	
15:35–16:35	Christopher A. Broderick (Tyndall National Institute, Ireland)	Theory of dilute bismide semiconductor alloys: emerging materials for GaAs-based near- and mid-infrared photonics
16:35–17:05	Yukihiro Harada (Kobe University, Japan)	Photoluminescence spectroscopy of isoelectronic impurity doped GaAs
17:05–17:45	Fumitaro Ishikawa (Ehime University, Japan)	Looking for extra compound semiconductor nanowires
17:45–17:50	Takashi Kita (Kobe University, Japan)	Closing Remark
19:00–	Internal Meeting	