

**2018 Intensive Courses in English (Graduate School of Chemical Sciences and Engineering)**

Course	Date	Name of Subject	Lecturers
Molecular Chemistry and Engineering	11 to 15 June	<u>Leading and Advanced Molecular Chemistry and Engineering III (HSI)</u> <u>Advanced-Applied Chemistry (MC)</u> <u>Modern Trends in Chemical Sciences and Engineering II (DC)</u> <b>"Frontier of Chemical Science"</b>	Prof. Keiji Tanino, Prof. Akinori Takaoka, Prof. Akira Nakayama, Prof. Takahiro Suzuki, Prof. Atsushi Minami, Prof. Hirokazu Kobayashi, Prof. Shinya Takahata and Prof. Tomohiro Saio (Hokkaido University, Japan)
	17 to 20 July	<u>Leading and Advanced Molecular Chemistry and Engineering I (HSI)</u> <u>Advanced-Applied Chemistry (MC)</u> <u>Modern Trends in Chemical Sciences and Engineering II (DC)</u> <b>"Advanced Studies on Supramolecular Chemistry"</b>	Prof. Yoko Yamakoshi (ETHZ, Switzerland) Prof. Hajime Ito (Hokkaido University, Japan)
	20 to 24 August	Leading and Advanced Molecular Chemistry and Engineering (HSI) Advanced Chemistry (MC) Modern Trends in Chemical Sciences and Engineering II <b>"Digital and Electric Microfluidics"</b>	Prof. Shih-Kang Fan (National Taiwan University, Taiwan) Prof. Manabu Tokeshi (Hokkaido University, Japan)
Materials Chemistry and Engineering	17 to 20 July	<u>Leading and Advanced Materials Chemistry and Engineering IIC (HSI)</u> <u>Advanced Chemistry (MC)</u> <u>Modern Trends in Chemical Sciences and Engineering II (DC)</u> <b>"Low Dimensional Nanomaterials: Chemistry, Physics and Energy Application"</b>	Prof. Yu-Lun Chueh (National Tsing Hua University, Taiwan) Prof. Toshihiro Shimada (Hokkaido University, Japan)
	24 to 27 July	<u>Leading and Advanced Materials Chemistry and Engineering I (HSI)</u> <u>Advanced Chemistry (MC)</u> <u>Modern Trends in Chemical Sciences and Engineering II (DC)</u> <b>"Molecular Machines and Supramolecular Materials"</b>	Prof. Mir Wais Hosseini (University of Strasbourg, France) Prof. Kazuki Sada (Hokkaido University, Japan)
	31 July to 02 August	<u>Leading and Advanced Materials Chemistry and Engineering IIA (HSI)</u> <u>Advanced Chemistry (MC)</u> <u>Modern Trends in Chemical Sciences and Engineering II (DC)</u> <b>"Single Molecule Methods for Bio-analytical Chemistry"</b>	Prof. Shuo Huang (Nanjing University, China) Prof. Kei Murakoshi (Hokkaido University, Japan)
	02 to 05 July	<u>Leading and Advanced Materials Chemistry and Engineering IIB (HSI)</u> <u>Advanced Chemistry (MC)</u> <u>Modern Trends in Chemical Sciences and Engineering II (DC)</u> <b>"Chemistry and Functions of Thin Film Gradient Materials"</b>	Prof. Rong Tu (Wuhan University of Technology, China) Prof. Toshihiro Shimada and Prof. Taro Nagahama (Hokkaido University, Japan)
	20 to 22 August	<u>Leading and Advanced Materials Chemistry and Engineering III (HSI)</u> <u>Advanced Chemistry (MC)</u> <u>Modern Trends in Chemical Sciences and Engineering II (DC)</u> <b>"Solid State and Surface / Interface Nano Chemistry"</b>	Prof. Hidenori Noguchi and Prof. Akihiro Okamoto (NIMS, Japan)
Biological Chemistry and Engineering	04 to 07 June	<u>Leading and Advanced Biological and Polymer Chemistry and Engineering I (HSI)</u> <u>Advanced Chemistry (MC)</u> <u>Modern Trends in Chemical Sciences and Engineering II (DC)</u> <b>"Protein Structure and Function: The Role of Intrinsically Disordered Protein Regions in Regulating Dynamic Macromolecular Interactions"</b>	Prof. James G. Omichinski (University of Montréal, Canada), Prof. Kazuyasu Sakaguchi and Prof. Rui Kamada (Hokkaido University, Japan)
	25 to 28 June	<u>Leading and Advanced Biological and Polymer Chemistry and Engineering III (HSI)</u> <u>Advanced Chemistry (MC)</u> <u>Modern Trends in Chemical Sciences and Engineering II (DC)</u> <b>"Biological Engineering Directed Production of Useful Chemicals"</b>	Prof. Tohru Dairi, Prof. Hirofumi Tani, Prof. Kenichiro Matsumoto, Prof. Shin-ichiro Sato, Prof. Kenji Tajima, Prof. Tomoki Erata (Hokkaido University, Japan)
	30 to 31 July and 01 to 03 August	<u>Leading and Advanced Biological and Polymer Chemistry and Engineering II (HSI)</u> <u>Advanced Chemistry (MC)</u> <u>Modern Trends in Chemical Sciences and Engineering II (DC)</u> <b>"Chain and Morphological Structures of Polymers and Their Correlations to Chemical Structure and Properties"</b>	Prof. Moonhor Ree (POSTECH, Korea), Prof. Toshifumi Satoh and Prof. Takuya Yamamoto (Hokkaido University, Japan)
	09 to 13 July	<u>Advanced-Applied Chemistry (MC)</u> <u>Modern Trends in Chemical Sciences and Engineering II (DC)</u> <b>"Polymer for Field-Effect Transistor Application"</b>	Prof. Yu-Cheng Chiu (National Taiwan University of Science and Technology, Taiwan) Prof. Toshifumi Satoh (Hokkaido University, Japan)