

# SEMINARS

Assoc Prof ADACHI, Shunsuke  
Graduate School of Science, Kyoto University, Kyoto, Japan  
“Probing Ultrafast Dynamics during and After Passing Through Conical Intersections with Vacuum Ultraviolet Laser”  
1 November 2019

Prof AFONIN, Sergii  
Karlsruher Institut für Technologie, Germany  
“Using Unnatural Amino Acids for Structural Studies and Functional Modulation of Membrane-Active Peptides”  
29 October 2019

Dr AKASHI, Motohiro  
Tokyo University of Science, Tokyo, Japan  
“To Understand the Evolutionary Mechanisms of Giant Viruses”  
2 July 2019

Prof ANDERSON, Harry L.  
Department of Chemistry, University of Oxford, U.K.  
“Chemistry of Giant Porphyrin Rings”  
8 April 2019

Prof ARMIDO, Studer  
Institute of Organic Chemistry, University of Munster, Germany  
“Applications of Nitroxides in Materials Science and Novel On-surface Chemistry”  
5 February 2019

Prof and Director BAGDY, Gyorgy  
Department of Pharmacodynamics, Semmelweis University, Hungary  
“Gene-environment and Gene-gene Interactions: Clues to the ‘Missing Heritability’ Enigma in Major Depression?”  
24 July 2019

Prof CAI, Hongmin  
School of Computer Science & Engineering South China University of Technology, China, P.R.  
“Identification of Gene-drug and Multi-omics Regulatory Modules Through Integrative Analysis”  
5 September 2019

Prof CANN, Isaac  
Carl R. Woese Institute for Genomic Biology, University of Illinois at Urbana-Champaign, U.S.A.  
“Initiation of DNA Replication in *Methanosarcina acetivorans* is Coupled to Cell Division”  
12 July 2019

Prof CHAIRUANGSRI, Torranin  
Faculty of Science, Chiang Mai University, Thailand  
“Micro- and Nano-structural Characterization by Advanced Transmission Electron Microscopy of Novel Functional Materials for Battery Development”  
7 October 2019

Dr CHAKRABARTY, Arindam  
Graduate School of Agriculture, Kyoto University, Kyoto, Japan  
“Functional Copolymers via Controlled Radical Polymerization in Emulsion”  
29 November 2019

Prof CHEN, Luonan  
Key Laboratory of Systems Biology, Chinese Academy of Sciences, China, P.R.  
“Network Biomarker for Disease Diagnosis and Dynamic Network Biomarker for Disease Prediction”  
8 February 2019

Dr CHEN, Yu-Chen  
University of Stuttgart, Germany  
“Laser Writing of Scalable Single Colour Centres in Wide Bandgap Materials”  
3 October 2019

Dr CHRISTOPH, Nebel  
Fraunhofer Institute for Applied Solid State Physics, Germany  
“Diamond, a Great Material for Future Applications”  
22 August 2019

Prof CHURCHILL, David G.  
Korea Advanced Institute of Science and Technology, Korea, R.  
“Derivatization of Immunomodulatory Targets with Organoselenide Substituents to Achieve Reversible ROS Fluorescence Detection”  
28 August 2019

Dr CLOUTET, Eric  
Laboratoire de Chimie des Polymères Organiques CNRS-Université de Bordeaux, France  
“‘Green’ Synthesis Routes to Semiconducting (Co)polymers”  
23 May 2019

Dr COWLEY, Michael J.  
University of Edinburgh, U.K.  
“Phosphorus-Boron Double Bonds: Synthesis, Structure and Reactivity”  
27 June 2019

Dr DELMONT, Tom  
Pasteur Institute, France  
“Genome-resolved Metagenomics and Comparative Genomics Applied to TARA Oceans”  
2 September 2019

Dr FABIEN, Durola  
CNRS, Université de Bordeaux, France  
“Six Years of Glyoxylic Perkin Strategy: From Short Ribbons to Möbius Rings”  
6 December 2019

Prof FONTAINE, Frédéric-Georges  
Université Laval, Canada  
“Ligand Design in Organometallic Chemistry Taken to the Extremes: When the Metal is no Longer Needed”  
13 September 2019

Assoc Prof GOVINDARAJU, Thimmaiah  
Jawaharlal Nehru Centre for Advanced Scientific Research, India  
“Silk and Peptidomimetics Based Smart Biomaterials”  
21 October 2019

- Dr GRIMSLEY, Nigel  
Center National de la Recherche Scientifique, France  
“Prasinovirus Infection Is Firstly Furtive, Then Furious, but Phytoplankton Fight”  
23 July 2019
- Prof HASEGAWA, Hiroshi  
Faculty of Chemistry, Institute of Science and Engineering,  
Kanazawa University, Ishikawa, Japan  
“Development of New Chemical Separation Technique for Metallic Elements in Environmental Samples”  
19 July 2019
- Prof HIRAIISHI, Kunihiko  
School of Information Science, Japan Advanced Institute of Science and Technology, Ishikawa, Japan  
“Formal Modeling and Its Applications to Bioinformatics”  
28 May 2019
- Dr HO, Tung-Yuan  
Research Center for Environmental Changes, Academia Sinica, Taiwan  
“Ni: A Major Factor Affecting N<sub>2</sub> Fixation & H<sub>2</sub> Cycling in Some Marine Cyanobacteria”  
9 December 2019
- Prof HRISTOVA, Kalina  
Whiting School of Engineering, Johns Hopkins University, U.S.A.  
“Membrane Active pH-sensitive Peptides”  
23 July 2019
- Prof HUANG, Xueliang  
Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, China, P.R.  
“Palladium Carbene Enabled Acylation Reactions”  
4 March 2019
- Dr IGARASHI, Ryuji  
National Institutes for Quantum and Radiological Science and Technology, Chiba, Japan  
“Quantum Biology by Nano-diamond Quantum Sensor”  
7 October 2019
- Prof INOUE, Shigeyoshi  
Technical University of Munich, Germany  
“Multiply-bonded Aluminium Compounds in Bond Activations and Catalysis”  
2 August 2019
- Prof IWAMOTO, Satoshi  
Research Center for Advanced Science and Technology, The University of Tokyo, Tokyo, Japan  
“Cavity Polaritons: Fundamentals and Recent Development”  
2 July 2019
- Senior Fellow JITSUNO, Takahisa  
ELI-NP, Horia Hulubei National Institute, Bucharest, Romania  
“Current Status of ELI-NP Activities and Future Prospects”  
23 December 2019
- Assoc Prof JUHASZ, Gabriella  
Semmelweis University, Hungary  
“Environmental Causes of Depression”  
24 July 2019
- Prof JUNK, Peter C.  
James Cook University, Australia  
“Recent Developments in Redox Transmetallation Chemistry Involving Rare Earth Metals”  
30 January 2019
- Prof KAMITAKAHARA, Hiroshi  
Graduate School of Agriculture, Kyoto University, Kyoto, Japan  
“Precise Synthesis and Structure-Property Relationship of Cellulose-type Diblock Copolymers”  
26 April 2019
- Prof / Director KASKI, Samuel  
Aalto University / Finnish Center for Artificial Intelligence (FCAI), Finland  
“Probabilistic Modelling with the Experts”  
24 May 2019
- Prof KERTON, Francesca M.  
Department of Chemistry, Memorial University of Newfoundland, Canada  
“Reactions of Carbon Dioxide and Epoxides Catalysed by Homogeneous Iron- and Boron-centered Catalysts”  
7 October 2019
- Prof KNAPP, Ernst-Walter  
Free University of Berlin, Germany  
“Statistics: ANOVA and More”  
9 July 2019
- Prof KONO, Junichiro  
William Marsh Rice University, U.S.A.  
“Current Status and Future Prospects of Flexible Photonics”  
4 October 2019
- Assoc Prof KORENDOVYCH, V. Ivan  
Syracuse University, U.S.A.  
“De Novo Design of Protein and Peptide Catalysts”  
17 June 2019
- Proj Assoc Prof KOSONO, Saori  
Biotechnology Research Center, The University of Tokyo, Tokyo, Japan  
“Metabolic Regulation via Protein Acylation in Bacteria”  
28 June 2019
- Prof KOZAK, Christopher M.  
Department of Chemistry, Memorial University of Newfoundland, Canada  
“Transition Metal-catalyzed Copolymerization of Epoxides and Carbon Dioxide”  
7 October 2019
- Prof LEI, Aiwen  
College of Chemistry and Molecular Sciences, Wuhan University, China, P.R.  
“Oxidation Induced C-H Activation and Oxidative Cross-Coupling with Hydrogen Evolution”  
22 July 2019
- Prof MATILE, Stefan  
University of Geneva, Switzerland  
“Weekend Disulfide Magic”  
31 August 2019
- Dr MATTHIAS, Niethammer  
University of Stuttgart, Germany  
“Coherent Electrical Readout of Spin-Active Defects in 4H-SiC for Quantum Sensors Using Photo-Ionization at Ambient Conditions”  
3 October 2019
- Dr MICHAEL, Hanks  
National Institute of Informatics, Tokyo, Japan  
“Spin Measurement of Negatively-Charged Defects in Diamond”  
29 March 2019

- Dr MORIOKA, Naoya  
University of Stuttgart, Germany  
“Very Stable Optical Transitions of Silicon Vacancy Centers in SiC towards Quantum Information Platform”  
3 October 2019
- Prof MÜLLER, Thomas  
Carl von Ossietzky University Oldenburg, Germany  
“An Old Hat with New Feathers – Heterodianions as Precursors for Unusual Silicon and Germanium Compounds”  
29 August 2019
- Prof NAGASAWA, Hideko  
Gifu Pharmaceutical University, Gifu, Japan  
“Structure-Activity Relationship of Bicyclic Octadepsipeptide”  
21 February 2019
- Assist Prof NAKATO, Ryuichiro  
Institute for Quantitative Biosciences, The University of Tokyo, Tokyo, Japan  
“Comprehensive Epigenome Characterization Reveals the Diverse Transcriptional Heterogeneity across Human Vascular Endothelial Cells”  
1 February 2019
- Prof NISHINA, Yuta  
Graduate School of Natural Science and Technology, Okayama University, Okayama, Japan  
“Materials Science toward Departure from Oil and Decreasing Carbon Dioxide”  
26 April 2019
- Prof NJARDARSON, T. Jon  
University of Arizona, U.S.A.  
“No Strain No Gain”  
15 March 2019
- Dr. OHASHI, Yohei  
MRC Laboratory of Molecular Biology, U.K.  
“In Vitro Studies on the Class III PI3K (VPS34) Complexes”  
23 December 2019
- Prof OIWA, Akira  
The Institute of Scientific and Industrial Research, Osaka University, Osaka, Japan  
“A Poincaré Interface Based on Photon-electron Spin Quantum State Conversion”  
11 November 2019
- Prof OTTOSSON, Henrik  
Uppsala University, Sweden  
“Is Time Ready to Put Baird’s Rule on Excited State Aromaticity and Antiaromaticity into Action?”  
27 November 2019
- Prof OZAKI, Tsuneyuki  
The Institut National de la Recherche Scientifique, Canada  
“High Intensity Laser Science Research at INRS”  
9 December 2019
- Prof PEZACHI, John  
Department of Chemistry and Biomolecular Sciences, University of Ottawa, Canada  
“Chemical Biology of Virus-Host Interactions and Beyond”  
12 July 2019
- Dr PRAMONO, Ajeng  
Tokyo Institute of Technology, Tokyo, Japan  
“Terminite Gut Microorganisms and Viruses”  
29 July 2019
- Prof QI, Yabin  
Okinawa Institute of Science and Technology, Okinawa, Japan  
“Perovskite Material and Solar Cell Research by Surface Science and Advanced Characterization”  
3 July 2019
- Prof ROBB, Frank T.  
Department of Microbiology and Immunology, University of Maryland School of Medicine, U.S.A.  
“Adapting Extremophile Model Systems for Medical Applications”  
14 February 2019
- Assoc Prof SAIGO, Hiroto  
Graduate School and Faculty of Information Science and Electrical Engineering, Kyushu University, Fukuoka, Japan  
“Prediction Models that Consider Variable Interactions”  
19 September 2019
- Prof SAKAMOTO, Masami  
Graduate School of Engineering, Chiba University, Chiba, Japan  
“Development of Asymmetric Reactions Utilizing Chirality of Crystal”  
31 January 2019
- Assoc Prof SANNO, Tomokazu  
Graduate School of Engineering, Osaka University, Osaka, Japan  
“Fundamentals and Applications of Material Modification by Femtosecond Laser Induced Shock Waves”  
25 November 2019
- Chairman and Executive Director SHIMADA, Toyoshi  
Sihreact K.K., Kyoto, Japan  
“Surface Functionalization of Various Materials with Hydrosilanes”  
17 September 2019
- Prof Em SHINOZUKA, Yuzo  
Wakayama University, Wakayama, Japan  
“Electron-Lattice Interactions in Nonmetallic Materials”  
21 June 2019
- Prof SHIRAKAWA, Eiji  
School of Science and Technology, Kwansai Gakuin University, Hyogo, Japan  
“Electrocatalytic Cross-coupling Reaction”  
1 November 2019
- Assoc Prof SONG, Jiangning  
Monash Biomedicine Discovery Institute (BDI), Monash University, Australia  
“DeepCleave: a Deep Learning-based Approach and Tool for more Accurate Prediction of Protease-specific Cleavage Sites”  
18 September 2019
- Prof SONG, Kyungmee  
Korea Institute for Science and Technology, Korea, R.  
“Dynamics of Magnetic Skyrmions”  
23 January 2019
- Prof SOUMYANARAYANAN, Anjan  
National University of Singapore, Singapore  
“Magnetic Skyrmions: Creation, Stability and Dynamics”  
8 October 2019
- Prof STASEVICH, Tim  
Department of Biochemistry and Molecular Biology, Colorado State University, U.S.A.  
“Multi-Color Imaging of Non-Canonical Translation Dynamics with Single Molecule Resolution in Living Cells”  
24 June 2019

Prof STEPIEŃ, Marcin  
Department of Chemistry, University of Wrocław, Poland  
“Carbon-Rich p-Aromatic Surfaces: Topology, Curvature, and  
Function”  
11 November 2019

Prof STREUBEL, Rainer  
University of Bonn, Germany  
“Chemistry of 1,4-Diphosphinines and P-linked Bis-*N*-heterocyclic  
Carbenes”  
27 November 2019

Prof SULLIVAN, Matthew B.  
The Ohio State University, U.S.A  
“Viruses of Microbes: Lessons from the Oceans, Soils, and Humans”  
1 November 2019

Prof SUZUKI, Keisuke  
Department of Chemistry, Tokyo Institute of Technology, Tokyo,  
Japan  
“Lessons from Total Synthesis of Complex Natural Products”  
22 November 2019

Assoc Prof TERAMOTO, Yoshikuni  
Graduate School of Agriculture, Kyoto University, Kyoto, Japan  
“Biomass Material Chemistry Based on Compounding and  
Simple Processing”  
29 November 2019

Assoc Prof TOKITA, Masatoshi  
Department of Chemical Science and Engineering, Tokyo Insti-  
tute of Technology, Tokyo, Japan  
“Microphase-Separated Morphology and Liquid Crystal Orienta-  
tion in Block Copolymers with Liquid Crystalline Segments”  
16 December 2019

Prof TOVAR, J. D.  
Johns Hopkins University, U.S.A.  
“Repurposing Aromaticity for Organic Electronics: Making,  
Breaking and Stacking pi-Circuits”  
14 February 2019

Chief Scientist UESAKA, Tomohiro  
RIKEN, Nishina Center for Accelerator Based Science, Saitama,  
Japan  
“Diverseness of Nuclear Matter”  
29 November 2019

Prof VAO-SOONGNERN, Visit  
Suranaree University of Technology, Thailand  
“Molecular Simulation of the Coarse-grained Models of Associ-  
ating/dissociating Head-to-head Polymer”  
14 November 2019

Prof WIMLEY, C. William  
Tulane University School of Medicine, U.S.A.  
“Synthetic Molecular Evolution of Peptide Antibiotics”  
23 July 2019

Prof WIRTH, Thomas  
Cardiff University, U.K.  
“Iodin Reagents in Synthesis and Flow Chemistry”  
28 August 2019

Dr YASUDA, Nobuhiro  
NobuChem LLC, U.S.A.  
“The Art of Process Chemistry -A Research Life in Industrial  
Settings-”  
19 June 2019