

Lecture Schedules

Research in Chemical Sciences & Engineering II Topical Lectures in Chemical Sciences & Engineering:

Notice;

It is required to attend at least seven times.

To satisfy to get the course credit for one academic year, you must

- 1) submit at least one report in total.
- 2) write a report which summarizes a lecture onto one sheet of A4 paper.
- 3) send a report as an attached file by email to the "AGS Office" <ags@eng.hokudai.ac.jp> within two weeks after each lecture presentation finishes.

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01. 14 April @Science#7-310
Prof. Patrick G. Harran (University of California, Los Angeles, USA)
"Tactics and Strategy in Complex Molecular Synthesis"
 02. 18 May @Science#5-301
Prof. Daniel John Weix (University of Rochester, USA)
"Cross-Electrophile Coupling: Principles and New Reactions"
 03. 23 May @MC526, Engineering
Prof. Redouane Borsali (CERMAV-CNRS, France)
"Carbohydrate Block Copolymers: Nanostructured Thin Films"
 04. 24 May @Science#7-219/220
Prof. Marek Wójcik (Jagiellonian University, Poland)
"Vibrational Spectroscopy of Hydrogen-Bonded Complexes, Liquids and Solids"
 05. 02 June @MC527, Engineering
Dr. Šárka Mikmeková
(JFE Steel Corporation, Japan <formerly: The Czech Academy of Sciences, Czech>)
"Principle and Applications of Scanning Low Energy Electron Microscopy"
 06. 21 June @Science#7-310
Prof. Deju Ye (Nanjing University, China)
"Multimodality molecular imaging of enzyme activity in vivo using activatable probes"
 07. 29 June @Science#7-310
Prof. Yunho Lee (KAIST, Korea)
"Coordination Chemistry of the Pincer Complexes of Co, Ni, Cu"

08. 05 July @MC208, Engineering
Prof. Antonio Togni (ETH Zürich, Switzerland)
“Hypervalent Iodine Reagents for Perfluoroalkylation: Synthesis, Applications and Mechanistic Studies”
09. 11 July @MC526, Engineering
Prof. Leo Paas (Massey University, New Zealand)
“Big data analytics for defining and attaining tactical and strategic goals”
10. 12 July @MC526, Engineering
Prof. Soo-Gil Park (Chungbuk National University, Korea)
“High performance effects with organic additives for high voltage EDLC system”
11. 18 July @Seminar Room 1, Frontier Research in Applied Sciences Building
Prof. Evamarie Hey-Hawkins (Universität Leipzig, Germany)
“Formation of Rings, Chains and Nanotubes by Self-Assembly of Transition Metal Bis-Phospholane Complexes”
12. 26 July @Seminar Room 2, Frontier Research in Applied Sciences Building
“CSE International Student Symposium 2017”
13. 27 July @Science#6-204-02
Prof. Stephen Michnick (Université de Montréal, Canada)
“Endocytosis caused by liquid-liquid phase separation of proteins”
14. 27 July @Science#7-219/220
Prof. David Sémeril (Université de Strasbourg, France)
“Macrocyclic ligands in catalysis”
15. 29 July @Nanporo Onsen Heart & Heart <CSE Summer School 2017>
Prof. Jochen Lauterbach (University of South Carolina, the U.S.A.)
“Imaging techniques in heterogeneous catalysis: from non-linear reaction dynamics to high-throughput screening”

16. 02 August @Seminar Room 1, Frontier Research in Applied Sciences Building
Prof. Yu-Tzu Huang (Chung Yuan Christian University, Taiwan)
“Bioenergy from microalgae and toxicology of diesel vs. biodiesel”
- 03 August @Seminar Room 1, Frontier Research in Applied Sciences Building
Prof. Kevin C.-W. Wu (National Taiwan University, Taiwan)
“Functional Nanospace Materials for Lignocellulosic Biomass Conversion”
- 03 August @Seminar Room 1, Frontier Research in Applied Sciences Building
Prof. Fa-Kuen Shieh (National Central University, Taiwan)
“From Imparting Functionality to Shielding Against Unfolding via Embedding Enzymes Into Metal-organic Frameworks: the insight of material biology”
*We will count one attendance when you attend at least two seminars of the above three.
17. 04 August @MC208, Engineering
Prof. Ru-Jong Jeng (National Taiwan University, Taiwan)
“Honeycomb-like Polymeric Films from Dendric Polymers Presenting Shape-memory Effect”
18. 12 September @MC102, Engineering
Prof. Mikhail Proskurnin (M.V. Lomonosov Moscow State University, Russia)
“Advances in Photothermal Spectroscopy”
19. 25 September @Seminar Room 2, Frontier Research in Applied Sciences Building
Prof. Seonghoon Lee (Seoul National University, Korea)
“The Optical & Electrical Properties at the Nanoscale: Exciton, Plasmon, Polaron and Synapses”
20. 13 October @Science#7-219/220
Dr. Richard Kelly (Royal Society of Chemistry, the U.K.)
“The publication process demystified: tips on writing research papers for maximum impact”
21. 16 October @Seminar Room 2, Frontier Research in Applied Sciences Building
Prof. Serge Cosnier (Grenoble Alpes University and UMR-CNRS, Grenoble, France)
“Nanostructured bioarchitectures based on carbon nanotubes and/or organic polymers for energy conversion or electroanalysis”
22. 16 October @Seminar Room 2, Frontier Research in Applied Sciences Building
Prof. Redouane Borsali (Grenoble Alpes University and CERMAV-CNRS, France)
“Carbohydrate-based Block Copolymer Self-Assemblies: Highly Nanostructured Thin Films and DSA Patterning”
23. 25 October @MC208, Engineering
Prof. Daniel Cullen (US Department of Agriculture, the U.S.A.)
“Natural decomposition of *Pinus contorta*: Physiological process inferred from Metatranscriptome and proteome investigations”

24. 25 October @Seminar Room 1, Frontier Research in Applied Sciences Building
Prof. Matthias Wagner (Goethe University Frankfurt, Germany)
“Redox Reactions of Aryl Boranes and the Advent of Catalytic Applications”
25. 09 November @MC030, Engineering
Dr. Julien Massue (University of Strasbourg, France)
“Optimized fluorescent emitters based on a hydroxybenzazole or anil scaffold”
26. 09 November @Science#7-219
Prof. Matteo Mauro (University of Strasbourg, France)
“Engineering luminescent supramolecular architectures: lights, camera, action!”
27. 17 November @MC030, Engineering
Prof. Matteo Mauro (University of Strasbourg, France)
“Light-responsive metallo-supramolecular polymers for 2D and self-healable 3D materials”
28. 24 November @MC526, Engineering
Prof. Teofilo Rojo (University of the Basque Country, Spain)
“Na-ion batteries for large scale applications: challenges and opportunities”
29. 27 November @Seminar Room 2, Frontier Research in Applied Sciences Building
Prof. Cheng-Liang Liu (National Central University, Taiwan)
“Spray-coating technique for electronic and optoelectronic application”
- 27 November @Seminar Room 2, Frontier Research in Applied Sciences Building
Prof. Akon Higuchi (National Central University, Taiwan)
“Bioengineering Aspect of Clinical Trials of Stem Cells”
- *We will count ONE attendance when you attend BOTH of the above lectures which are parts of the “HU-NCU Joint Symposium on Materials Chemistry and Physics 2017”.
30. 30 November @Large Auditorium, Science#5
Prof. Matthew Gaunt (University of Cambridge, the U.K.)
“New strategies for chemical synthesis: from C-H activation to protein functionalization”
31. 26 January @Seminar Room 1, Frontier Research in Applied Sciences Building
Prof. Seung Hwan Cho (Pohang University of Science and Technology, Korea)
“Chemo, Regio and Stereoselective Organic Transformations of 1,1-Diborylalkanes”