

# Lecture Schedules

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

Notice;

To satisfy to get the course credit, you must

- 1) attend the lectures at least 7 times and submit at least 1 report in total, then you will get 1 credit for 1 academic year.
- 2) write a report which summarizes a lecture onto 1 sheet of A4 paper.
- 3) Send a report as an attached file by email to the "AGS Office" <ags@eng.hokudai.ac.jp> within 2 weeks after each lecture presentation finishes.

If there are no special suggestions from the lecturers, the subject of the report will be summaries or comments on the lectures.

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01. 18 April @Science#7-219/220  
**Prof. Michael M. Haley (Oregon University, USA)**  
**"Indenofluorenes and Quinoidal Analogues – A New Class of Electron-Accepting Materials"**
  02. 25 April @Seminar Room B/C, 4th floor, Institute for Catalysis  
**Prof. Matthias Scheffler (Fritz Haber Institute of the Max Planck Society, Germany)**  
**"Patterns, Correlations, and Causality in Big Data of Materials: Analytics for Novel Materials Discovery"**
  03. 02 May @Frontier Research in Applied Sciences Building  
**Prof. Sir Tom Blundell (University of Cambridge, the U.K.)**  
**"Genomics, structural biology and drug discovery: developing research eco-systems in Japan and UK"**
  04. 18 May @MC526, Engineering  
**Prof. Zheng Jiao (Shanghai University, China)**  
**"Shape-controlled synthesis of porous semiconductor nanomaterials and their multifunctional applications"**
  05. 19 May @Science#5-205  
**Prof. Bastien Nay (Muséum National d'Histoire Naturelle, France)**  
**"Natural history and Nature-inspired synthesis of fungal natural products"**
  06. 07 June @Science#6-204-2  
**Prof. Jiaying Huang (Northwestern University, the U.S.A.)**  
**"Pencils, Paper and Movie Discs: Curious Minds and Materials Discoveries"**

07. 09 June @Seminar Room 1, Frontier Research in Applied Sciences Building  
**Prof. Dr. Emiel J.M. Hensen (Eindhoven University of Technology (TU/e), the Netherlands)**  
**“Hierarchical Zeolites in Catalysis”**
08. 14 June @Science#6-204-02  
**Prof. Gerardo Ferbeyre (Université de Montréal, Canada)**  
**“SOCS1 Links Inflammation to p53”**
09. 16 June @Seminar Room 1, Frontier Research in Applied Sciences Building  
**Prof. Dr. Emiel J.M. Hensen (Eindhoven University of Technology (TU/e), the Netherlands)**  
**“Structure Sensitivity in Metal Catalysis”**
10. 20 June @Science#7-219/220  
**Prof. Jamal G. Musaev (Emory University, the U.S.A.)**  
**“Multy-Disciplinary and Collaborative Efforts toward the Novel Catalysis and Technology Design: Insight into the C-H Functionalization and Water Oxidation Jungles”**
11. 27 June @Science#7-219/220  
**Prof. Chaoyuan Zhu (National Chiao-Tung University, Taiwan)**  
**“Global-switching trajectory surface-hopping algorithm for conical intersections and intersystem crossings with its application to photochemistry”**
12. 28 June @Science#7-310  
**Prof. Sang Youl Kim (Korea Advanced Institute of Science and Technology (KAIST), Korea)**  
**“Photoresponsive Micells and Organogelators Based on Well-difined Poly(arylene ether)s”**
13. 08 July @Science#7-219/220  
**Prof. Samuel Dagorne (Université de Strasbourg, France)**  
**“Combining N-heterocyclic Carbenes with Oxophilic and High-oxidation-state Metal Centers State (Group 4, 12 and 13): Fundamental Reactivity and Use in Polymerization and CO<sub>2</sub> Functionalization Catalysis”**
14. 15 July @Seminar Room 1, Frontier Research in Applied Sciences Building  
**Prof. Jeffrey W. Bode (ETH Zürich, Switzerland)**  
**“Reinventing Protein Synthesis by Developing New Organic Reactions and Functional Groups”**
15. 16 July @Sapporo Pirka-Kotan <CSE Summer School>  
**Prof. Emiel J.M. Hensen (Eindhoven University of Technology, the Netherlands)**  
**“Catalysis across length- and time-scales: the case Fischer-Tropsch synthesis”**
16. 19 July @MC102, Engineering  
**Prof. Kevin C.-W. Wu (National Taiwan University, Taiwan)**  
**“Synthesis of Functional Nanoporous Materials for Energy Applications”**

17. 29 July @Seminar Room 1, Frontier Research in Applied Sciences Building  
**Prof. Redouane Borsali (CERMAV-CNRS, Grenoble Alpes University, France)**  
**“Carbohydrate-based block copolymer self-assemblies: Nanoparticles & Sub-10nm highly nanostructured thin films”**
18. 29 July @Akira Suzuki Hall, Frontier Research in Applied Sciences Building  
**“The 12th Hokkaido University – Nanjing University – NIMS/MANA Joint Symposium”**
19. 03 August @Science#7-219  
**Prof. Wei Wang (Nanjing University, China)**  
**“Imaging the molecular interaction and electron transfer with optical microscopy”**
20. 05 August @Seminar Room 1, Frontier Research in Applied Sciences Building  
**“HU-NTU-CERMAV Joint Symposium on Functional Materials 2016”**
21. 06 September @MC508, Engineering  
**Prof. Manfred Zinn (HES-SO Valais-Wallis, Switzerland)**  
**“Challenges in the bioconversion of syngas to bioplastic”**
22. 12 October @Seminar Room 1, Frontier Research in Applied Sciences Building  
**Prof. Evamarie Hey-Hawkins (Leipzig University, Germany)**  
**“Catalysis – A Powerful Means for Sustainable Developments”**
23. 24 October @Seminar Room 1, Frontier Research in Applied Sciences Building  
**Prof. Debes Bhattacharyya (The University of Auckland, New Zealand)**  
**“Biodegradable tissue scaffolds and coronary stents using nano-/micro-fibrillar polymer Composites approach”**
24. 17 November @MC526, Engineering  
**Dr. Damian Kowalski (Hokkaido University, Japan)**  
**“Anodic TiO<sub>2</sub> nanotubes as a platform for electrodeposited nanostructures”**
25. 18 November @Seminar Room 1, Frontier Research in Applied Sciences Building  
**Prof. Prabhakar R. Sarode (Hokkaido University, Japan)**  
**“Structural Investigation of Combustion Synthesized Cu/CeO<sub>2</sub> Catalysts by EXAFS and Other Physical Techniques”**
26. 28 November @MC102, Engineering  
**Prof. Yu-Cheng Chiu (National Taiwan University, Taiwan)**  
**“Intrinsically Stretchable and Healable Semiconducting Polymer for Skin-Inspired Wearable Organic Transistor”**
27. 10 January @N-308, Science  
**Prof. Shih-Ching Chuang (National Chiao Tung University, Taiwan)**  
**“alpha-Addition of Phosphines to Oligoynoates and New Functional Fullerene Derivatives As n-Type Materials in Organic Photovoltaics”**

28. 20 January @MC526, Engineering  
**Prof. Byeong-Su Kim (Ulsan National Institute of Science and Technology, Korea)**  
**“Empowering Inert Polyethers: Synthesis and Biological Applications of Stimuli-Responsive Polyglycerols”**
  
29. 23 January @MC102, Engineering  
**Prof. Myung-Han Yoon (Gwangju Institute of Science and Technology, Korea)**  
**“Multiscale modulation of nanocrystalline cellulose hydrogel for 3D neuronal bilayer formation”**
  
30. 23 January @MC102, Engineering  
**Prof. Jae-Suk Lee (Gwangju National Institute of Science and Technology, Korea)**  
**“Optoelectronics Properties of Nanostructured Block Copolymers”**
  
31. 26 January @Seminar Room 1, Frontier Research in Applied Sciences Building  
**Prof. Roman Nowak (Aalto University, Finland)**  
**“Mechanics Meets Electronics in Nanoscale: The Mystery of Current Spike and Nanoscale Confinement”**
  
32. 07 February @MC102, Engineering  
**Prof. Zhibin Guan (University of California, Irvine, the U.S.A.)**  
**“Bioinspired Design of Dynamic and Self-Healing Polymer Materials”**