8-3-3　英語スタンプラリー講義：総合化学特別研究第二／化学研究先端講義

Lecture Schedules

Research in Chemical Sciences & Engineering II

Topical Lectures in Chemical Sciences & Engineering:

Notice;
To satisfy to get the course credits, you must
1) attend the lectures at least 7 times and submit at least 1 report through the year, then you will get 1 credit.
2) submit the reports to the "AGS Office" by e-mail <ags@eng.hokudai.ac.jp>, within 2 weeks after the each lecture 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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1. 17 April, 13:00 – 14:00 @ Science-#7-219
   Prof. Marek J.Wójcik (Jagiellonian University, Poland)
   "Spectroscopy of hydrogen bond - theoretical modeling of spectra and proton tunneling"

2. 9 May, 16:00 – 17:00 @ MC526, Engineering
   Prof. Dae-Yeong Jeong (Korea Electrotechnology Research Institute, Korea)
   "R&D activity of KERI for applying anodizing technology to environment"

3. 20 May, 14:45 – 16:15 @ MC215, Engineering
   Dr. Horst-Werner Zanthoff (Evonik Industries AG, Germany)
   "Reaction Engineering Aspects of Oxidation Catalysis from Industrial Point of View"

4. 26 June, 10:40－11:40 @ MC102, Engineering
   Prof. Achim Walter Hassel (Johannes Kepler University, Austria)
   "Progress report on the CALMAR system and in Scanning Droplet Cell Microscopy (SDCM)"

5. 1 July, 16:30－17:30 @ Science-#7-219
   Prof. Roberto Marquardt (Université de Strasbourg, France)
   "Global Analytical Representations of Potential Energy Surfaces for Spectroscopy and Molecular Quantum Dynamics"

6. 18-19 July @ Academic Lounge 1, Engineering
   <AGH-HU Joint Symposium>

7. 18 July, 16:00-17:00 @ MC201, Engineering
   Prof. Youliang Zhao (Soochow University, China)
   "Precise Synthesis of Functional Star and Graft Copolymers by Living / Controlled Polymerization"

8. 31 July, 15:30-17:00 @ MC102, Engineering
   Prof. Pierre Braunstein (Université de Strasbourg, France)
   " Hybrid Ligands: Metal Complexes, Catalysts and Precursors to Nanomaterials"

9. 2 August, 15:30-17:00 @ Science-#7-310
   Prof. Pierre Braunstein (Université de Strasbourg, France)
   "Colourful Chemistry with Zwitterionic-type–πLigands and their Metal Complexes"

10. 10-11 August @Jozankei Manseikaku Hotel Milione <CSE Summer School>
    Prof. Keiji Morokuma (Kyoto University, Japan)
    "Theoretical studies of catalysis – organic, metalloorganic and enzymatic reactions"
    Prof. David Milstein (The Weizmann Institute of Science, Israel)
    "Bond activation and catalysis based on metal-ligand cooperation" "Probing electrocatalytic reactions by surface-enhanced infrared absorption spectroscopy
    Prof. Masatoshi Osawa (Hokkaido University, Japan)
    "Probing electrocatalytic reactions by surface-enhanced infrared absorption spectroscopy(SEIRAS): Simple is the best"
    Prof. Bruce C. Gates (University of California, USA)
    "Supported molecular catalysts: design based on fundamental understanding of structure and reactivity"
    Prof. Hideaki Oikawa (Hokkaido University, Japan)
    "Nature's way to synthesize structurally diverse small molecules"
    *All students can earn 2 attendances by participating the CSE Summer School>

11. 9 September 15:00-16:00 @ MC030, Engineering
    Distinguished Professor Bruce C. Gates (University of California, USA)
    "Design of Molecular Metal Complex and Metal Cluster Catalyst on Supports"

12. 17 September 13:00-14:00 @ MC102, Engineering
    Dr. Yougen Chen (ETH Zürich, Switzerland)
    "A Macrocyclic Amphiphile with Photo-reactive 1,8-Diazaanthracenes towards 2-Dimensional Polymer Synthesis"

13. 17 September 14:15-15:15 @ MC102, Engineering
    Dr. Baozhong Zhang (ETH Zürich, Switzerland)
    "Discontinuities in high generation dendronized polymers"

14. 30 September 15:00-16:00 @ MC526, Engineering
    Dr. Wu Jinchuan (Institute of Chemical and Engineering Sciences, Singapor)
    "Innovative production of fuels & chemicals from renewable resources"

15. 2 October 16:30-17:30 @ MC102, Engineering
    Dr. Eric Francotte (ETH Zürich, Switzerland)
    "Enantioselective Chromatography: A Key Technology for Chiral Drug Discovery and Development"

16. 3 October 14:00-15:30 @ Science-#7-219/220
    Prof. Mark J. MacLachlan (University of British Columbia, Canada)
    "Supramolecular Origami: Transforming Paper into Twisted Structures"

17. 3 October 16:00-17:30 @ Science-#2-402
    Prof. Stéphane Bellemin-Laponnaz (Université de Strasbourg, France)
    "Catalytic performance and recycling of oxazoline-based catalysts"

18. 10 October 16:00-17:00 @ MC526, Engineering
    Prof. Chi-Chang Hu (National Tsing Hua University, Taiwan)
    "Electrochemical deposition of nanostructured oxides/composites and their applications"

19. 11 October 10:30-12:00 @ MC526, Engineering
    Prof. Alicia Durán (CSIC, Spain)
    " Nitrided phosphate glasses for solid-state Li-batteries"

20. 25 October 15:30-16:30 @ MC102, Engineering
    Prof. Jae-Suk Lee (GIST, Korea)
    "Chiral and morphology studies on polyisocyanates"

21. 22 November 16:00-17:00 @ MC208, Engineering
    Prof. Long Lu (Shanghai Institute of Organic Chemistry, China)
    "From Trifluoromethylation to Trifluoromethylthiolation: Development of New Trifluoromethylthiolated Hypervalent Iodine Reagent"

22. 2 December 16:30-18:00 @ Science-#7-310
    Prof. Suzannne A. Blum (University of California, USA)
    " Dual-Metal Reactions with Gold & Microscopy for Synthetic Chemists"

23. 4 December 13:00-14:30 @ MC102, Engineering
    Prof. Nikolai Sokolov (Ioffe Physical-Technical Institute of Russian Academy of Sciences, Russia)
    "Growth process and properties of Co(Ni)/fluoride nanoheterostructures"

24. 9-10 December @ Academic Lounge1, Engineering
    <Frontier Chemistry Center The 2nd International Symposium>

25. 22 January 17:00-18:00 @ MC527, Engineering
    Prof. Lee Wah Lim (Gifu University, Japan)
    "What is Capillary Liquid Chromatography? – Present and Future –"

26. 3 February 15:00-16:00 @ MC102, Engineering
    Prof. Cheng Xiansu (Fuzhou University, China)
    "Separation and Properties of Enzymatic Hydrolysis Lignin"

27. 5 February 15:00-17:00 @MC102, Engineering

Prof. Christopher K. Ober (Cornell University, USA)

“Polymer Brushes: Patternable structures as interfaces with the biological environment”