

Sep. 20 (Sun), 2015

08:30-08:40 Opening Remarks: Hiroshi Nishihara (The University of Tokyo)

Chair: Kentaro Tanaka (Nagoya University)

JG-01 08:40-09:10

Imidazo[4,5-f][1,10]phenanthroline as Nucleobase in Metal-Mediated Base Pairing

Philipp Scharf,¹ Biswarup Jash,¹ Dominik A. Megger,² Nikolas Sandmann,¹ Jissy A. Kuriappan,¹ Mark P. Waller,¹ Célia Fonseca Guerra,³ Jens Müller¹ (¹University of Münster; ²University of Bochum; ³VU University Amsterdam)

JG-02 09:10-09:30

Space-specific Reactions in Metal-Macrocyclic Frameworks

Mitsuhiko Shionoya (The University of Tokyo)

JG-03 09:30-10:00

Synthesis and Characterization of a Nitridocobalt(IV) Complex

Eva M. Zolnhofer,¹ Martina Käß,¹ Marat M. Khusniyarov,¹ Frank W. Heinemann,¹ Laurent Maron,² Maurice van Gastel,³ Eckhard Bill,³ Karsten Meyer¹ (¹Friedrich-Alexander University Erlangen-Nürnberg, ²Université de Toulouse, ³Max Planck Institute for Chemical Energy Conversion Mülheim)

JG-04 10:00-10:20

Co(III) Complex Showing Selective and Reversible Binding Against Nitrogen Oxide

Tomohiro Ozawa,¹ Yuya Kimoto,¹ Tomohiko Inomata,¹ Wonwoo Nam,² Hideki Masuda¹ (¹Nagoya Institute of Tech., ²Ewha Womans Univ.)

10:20-10:40 Coffee Break

Chair: Masaaki Ohba (Kyushu University)

JG-05 10:40-11:00

How does the axial ligand control the reactivity of high-valent metal oxo complex?

Hiroshi Fujii (Nara Women's University)

JG-06 11:00-11:30

Click Chemistry for the Synthesis of Metal-Peptide Bioconjugates

Nils Metzler-Nolte (Ruhr University Bochum/Germany)

JG-07 11:30-11:50

Bioinspired Catalysts Composed of Vitamin B₁₂ Derivative and Photosensitizers

Yoshio Hisaeda (Kyushu University)

JG-08 11:50-12:20

Catalyst-free bioorthogonal iClick reactions in the metal coordination sphere: A new tool for Inorganic Chemical Biology

Ulrich Schatzschneider (Julius-Maximilians-Universität Würzburg)

JG-09 12:20-12:40

Chemistry and Application of Soft Porous Crystals

Susumu Kitagawa (Kyoto University)

12:40-13:40 Lunch Break

Chair: Hiroshi Nishihara (The University of Tokyo)

JG-10 13:40-14:00

A New Class of Ionic Crystals with Non-Alternate Arrangement of Complex Cations and Inorganic Anions

Takumi Konno^{1,2} (¹Osaka University, ²JST CREST)

JG-11 14:00-14:30

Complexes with Protic N-Heterocyclic Carbenes – Synthesis and Reactivity

F. Ekkehardt Hahn, Rajorshi Das, Dirk Brakemeyer, Hanpeng Jin (University of Münster)

JG-12 14:30-14:50

Metal Complexes with Multi-bistability

Hiroki Oshio (University of Tsukuba)

JG-13 14:50-15:20

New Turns in Biomimetic Dioxygen Activation at Dicopper Sites

Franc Meyer,¹ Kristian Dalle,¹ Nicole Kindermann,¹ Eckhard Bill,² Serhiy Demeshko,¹ Sebastian Dechert¹ (¹Georg-August-University, Göttingen/Germany; ²MPI for Chemical Energy Conversion, Mülheim an der Ruhr/Germany)

JG-14 15:20-15:40

Crystalline Sponge Method Updated

Makoto Fujita (The University of Tokyo)

15:40-16:00 Coffee Break

Chair: Hitoshi Miyasaka (Tohoku University)

JG-15 16:00-16:20

Luminescent Chromic Platinum Complexes

Masako Kato (Hokkaido University)

JG-16 16:20-16:50

Finding and tuning molecular set-screws in luminescent Pt(II) complexes

Cristian A. Strassert (W. W.-University of Münster)

JG-17 16:50-17:10

Molecular Catalysts for Water Oxidation and Reduction

Ken Sakai (Kyushu University)

JG-18 17:10-17:40

Surface-confined Coordination Chemistry: Convergent vs Divergent Features

Svetlana Klyatskaya,¹ Florian Klappenberger,² Johannes Barth,² Mario Ruben,^{1,3} (¹INT-KIT, Karlsruhe, Germany; ²Institute E20, TUM; Munich, Germany; ³IPCMS, University of Strasbourg; France)

JG-19 17:40-18:00

Giant- and Tunneling-Magnetoresistance Based on Single-Molecule Magnets

Masahiro Yamashita^{1,2} (¹Tohoku University, ²CREST(JST))

19:00-21:00 Symposium Banquet

Sep. 21 (Mon), 2015

Paired Invited lectures (20 min each) in different sessions in CJSCC65

Room G201, Session Fa: Functionalities and Applications of Coordination Compounds

Chair: Ken Sakai (Kyushu University)

JG-20 9:00-9:20

Magnetic Sponges for Solvents and Gases

Hitoshi Miyasaka (Tohoku University)

JG-21 9:20-9:40

TbPc₂-based Molecular Quantum Spintronics

Svetlana Klyatskaya,¹ Stefan Thiele,² Wolfgang Wernsdorfer,² Mario Ruben,^{1,3} (¹INT-KIT, Karlsruhe, Germany; ²Institute Neel, CNRS; Grenoble, France; ³IPCMS, University of Strasbourg; France)

JG-22 9:40-10:00

Hybrid Photocatalytic Systems for CO₂ Reduction Consisting of a Multinuclear Metal Complex and Semiconductor

Osamu Ishitani^{1,2} (¹Tokyo Institute of Technology; ²CREST/JST)

JG-23 10:00-10:20

The Family of Bis(bipyridyl)pyrazol Based Diruthenium Water Oxidation Catalysts

Franc Meyer,¹ Sven Neudeck,¹ Anett Sander,¹ Jann Meyer,¹ Antoni Llobet,² Somnath Maji,² Laia Francas,² Isidoro Lopez,² Serena Berardi² (¹Georg-August-University, Göttingen/Germany; ²ICIQ, Tarragona/Spain)

JG-24 10:25-10:45

Dimensional Crossover in Coordination Chemistry

Hiroshi Kitagawa (Kyoto University)

JG-25 10:45-11:05

Controlling the aggregation of planar Pt(II) complexes in (electro)luminescent arrays

Cristian A. Strasser (W. W.-University of Münster)

Room N302, Session B: Geometrical and Electronic Structures of Coordination Compounds

Chair: Hiroki Oshio (University of Tsukuba)

JG-26 10:40-11:10

Switchable Supramolecular Assembly of Porphyrin and Phthalocyanine

Kentaro Tanaka (Nagoya University)

JG-27 11:10-11:30

Silver(I)-mediated base pairing in parallel-stranded DNA

Indranil Sinha,¹ Soham Mandal,¹ Célia Fonseca Guerra,² Jens Müller¹ (¹University of Münster; ²VU University Amsterdam)

JG-28 11:30-11:50

Challenges for Making Photo-controllable Energy Carrier System: Photochemical Hydrogen Evolution Catalyzed by Iron Complexes with Redox-active Ligands

Ho-Chol Chang, Takeshi Matsumoto (Chuo University)

JG-29 11:50-12:10

Activation and Functionalization of CO₂ at Reactive Uranium Complexes

Karsten Meyer (Friedrich-Alexander-University of Erlangen-Nürnberg)

Room S235, Session Da: Organometallic Compounds

Chair: Takumi Konno (Osaka University)

JG-30 15:00-15:20

Photofunctional bis(dipyrinato)metal complex nanowire and nanosheet

Ryota Sakamoto (University of Tokyo)

JG-31 15:20-15:40

Coordination Chemistry with poly-NHC Ligands

F. Ekkehardt Hahn, Naranja Sinha (University of Münster)

Room G101, Session E: Coordination Compounds related to Bioinorganic Chemistry

Chair: Mitsuhiro Shionoya (University of Tokyo)

JG-32 15:00-15:20

Mechanistic Insights into Substrate Oxidation by Ruthenium(IV)-Oxo Complexes

Takahiko Kojima (University of Tsukuba)

JG-33 15:20-15:40

Light-triggered *CO-releasing molecules* (CORMs) for the delivery of a small signalling molecule to biological systems

Ulrich Schatzschneider (Julius-Maximilians-Universität Würzburg)

JG-34 15:40-16:00

Functional Space Based on Composites of Metal Complexes and Liposome

Masaaki Ohba, Tomomi Koshiyama (Kyushu University)

JG-35 16:00-16:20

Click Chemistry for the Synthesis of Metal-Peptide Bioconjugates

Nils Metzler-Nolte (Ruhr University Bochum)