

## Conference Programme

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### Thursday March 6

- 17:30 – 19:00**    **Session 1**  
*Diverse Aspects of Coordination Chemistry (Debbie C. Crans and Eric Bosch)*
- 17:30**    **Francois Gabbai**  
*Coordination of fluoride and cyanide to cationic boranes in aqueous solution*
- 18:00**    **Kan Kanamori**  
*Structures and Properties of Di- and Tetranuclear Vanadium(III) Complexes Bridged by Sulfate or Phosphate*
- 18:30**    **Daniel Reger**  
*Unusual Metallacycles Supported by Bitopic Bis(pyrazolyl)methane Ligands*
- 18:45**    **Evgeny Dikarev**  
*Designed Synthesis of Polymetallic Oxo-Diketonates*
- 19:00**    **Group dinner**
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### Friday March 7

- 08:30 – 10:45**    **Session 2**  
*Coordination Chemistry in Medicine (Sunhee Choi, and Akimitsu Okamoto)*
- 08:30**    **Stephen J. Lippard**  
*Structural and Mechanistic Studies of Anticancer Platinum Drugs: Uptake, Activation, and the Cellular Response to DNA Binding*
- 09:15**    **Enrique Melendez**  
*Structure-Activity Studies of Ti(IV) Complexes: Aqueous Stability, Ti(IV) intake by human apo-transferrin and cytotoxic properties on colon cancer HT29 cells\**
- 09:30**    **Ashoka Samuelson**  
*Anticancer Activity of Ruthenium Half-Sandwich Complexes*
- 09:45**    **Chris Orvig**  
*Carbohydrate Conjugates in Medicinal Inorganic Chemistry*
- 10:30**    **Maolin Guo**  
*Iron-coordination properties of flavonoids: Interfere with iron hemeostasis?*
- 10:45 – 12:30**    **Beachside poster session**
- 12:30 – 16:00**    **Group lunch & free time**

- 16:00 – 17:45**    **Session 3**  
*Important Interactions Affecting Coordination Chemistry (Marina Petrukhina and Malcolm Halcrow)*
- 16:00**    **Karl Wiegardt**  
*Coordination Chemistry with Radicals: Where are the (Valence) Electrons?*
- 16:35**    **Will Broderick**  
*Structural Insight into a [4Fe-4S] Cluster-Mediated Radical Reaction*
- 16:55**    **Raphael G. Raptis**  
*Redox active Fe<sub>4</sub>O<sub>4</sub> Cubanes*
- 17:30**    **Jan Reedijk**  
*Structure stabilisation by anion- $\pi$  interactions in coordination compounds*
- 17:45 – 18:15**    **Informal discussion and refreshments**
- 18:15 – 19:30**    **Session 4**  
*Coordination Chemistry in Catalysis (TBA)*
- 18:15**    **Valeria Conte**  
*V(V) and Mo(VI) Transition metal Peroxides, Synthesis and role in oxidation reactions*
- 18:45**    **Craig Hill**  
*Terminal Pt-, Pd- and Au-oxo complexes exist, activate O<sub>2</sub> and catalyze oxidations*
- 19:15**    **Gerard Simonneaux**  
*Asymmetric Homogeneous and Heterogeneous Catalysis with Chiral Metalloporphyrins*
- 19:30**    **Group Dine-around (choice from a selection of hotel restaurants)**

## Saturday March 8

- 08:30 – 10:45**    **Session 5**  
*Coordination Chemistry in Supramolecular Compounds and Materials (Debbie C. Crans and TBA)*
- 08:30**    **Achim Muller**  
*Nanoporous Capsules: Coordination Chemistry on Their Surfaces, in Their Pores and Cavities*
- 09:15**    **Licheng Sun**  
*[FeFe]-Hydrogenases Active Site Models as Catalysts for Visible Light-Driven Hydrogen Generation*
- 09:30**    **Jeffrey R. Long**  
*Hydrogen Storage in Microporous Coordination Solids with Exposed Metal Sites*
- 10:15**    **Masahiro Yamashita**  
*Gigantic Third-Order Optical Nonlinearity, Direct Observation of Soliton Dynamics, CDW State, and Mott-Hubbard State in Nano-Wire Metal Complexes by STM, and Its Field Effect Transistor (FET) Device*
- 10:30**    **Matthew Shores**  
*Coupling Magnetic Bistability to Chemical Sensing*
- 10:45 – 12:30**    **Beachside poster session 2**
- 12:30 – 16:00**    **Group lunch & free time**

- 16:00 – 17:45    Session 6**  
*Coordination Chemistry in Bioinorganic Chemistry (Joan Broderick and TBA)*
- 16:00    Peter Sadler**  
*Transferrin as a multi-metal ion mediator*
- 16:45    Toshimura Yamase**  
*Synergistic Effect of Polyoxometalates in Combination with  $\beta$ -Lactam Antibiotics against Methicillin- or Vancomycin-resistant Staphylococcus Aureus (MRSA or VRSA)*
- 17:00    Guillermo Mendoza-Díaz**  
*Some imidazole and pyrazole derivatives and their metal complexes as structural and spectroscopic models of metalloenzymes*
- 17:30    Mikio Nakamura**  
*Regulation of heme electronic structures by means of nature of axial ligands and deformation of porphyrin*
- 17:45 – 18:15    Informal discussion and refreshments**
- 18:15 – 19:35    Session 7**  
*Coordination Chemistry - a Versatile Tool (George Georgiev and TBA)*
- 18:15    Norah Y Barba Behrens**  
*Reactivity, structure and chirality of mono-, di-, tri- and tetranuclear coordination compounds*
- 18:40    Dieter Rehder**  
*The trigonal-bipyramidal O4X ligand set in biologically relevant vanadium compounds, and their inorganic models*
- 19:05    John Dawson**  
*His93Gly Myoglobin as a Versatile Template for Modeling Novel Heme States: Thioether and Amine Ligation of Heme Iron*
- 19:35    Group Dinner**
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## Sunday March 9

- 08:30 – 10:00**    **Session 8**  
*Coordination Chemistry in Materials and Magnetism (TBA)*
- 8:30**    **Jamie L. Manson**  
*Bifluoride as a synthon in magnetic coordination polymers*
- 8:45**    **Kazuko Matsumoto**  
*Novel Spin Behaviors in Platinum-Rhodium One-Dimensional Octamers with Metal-Metal Bonds*
- 9:00**    **Eugenio Coronado Miralles**  
*Multifunctionality in Coordination Materials*
- 9:30**    **Vincent L. Pecoraro**  
*Chiral soft materials making compartments or single molecule magnets*
- 10:00 – 10:30**    **Informal discussion and refreshments**
- 10:30 – 12:30**    **Session 9**  
*Celebrating Coordination Chemistry; Applications Lanthanide Coordination Chemistry and Presentation of Poster Awards (TBA and TBA)*
- 10:30**    **Keith Pannell**  
*Activities of New Functional Carbamoyl Phosphine Oxide Actinide Extractants*
- 11:00**    **Michael Scott**  
*TBA*
- 11:45**    **Filippo De Angelis**  
*Spectroscopy of d6 Ru(II) and Ir(III) polypyridyl complexes: Insights from theory*
- 12:00 – 12:05**    **Presentation of Poster Awards by Denise Parent**
- 12:05 – 12:15**    **Poster Awardee Presentation**
- 12:15 – 12:25**    **Poster Awardee Presentation**
- 12:25 – 12:30**    **Concluding Remarks Debbie C. Crans**
- 12:30**    **Group Lunch & Departure**