



# 33RD INTERNATIONAL CONFERENCE ON COORDINATION CHEMISTRY

The Chemistry of Metal Ions in Everyday Life

30th August to 4th September 1998, Florence, Italy

<http://risc3.lrm.fi.cnr.it:8002/>

## Plenary lecturers

- Claudio Bianchini, Firenze, Italy  
"Liquid Biphase Catalysis with Polyphosphine Metal Complexes"
- Kim R. Dunbar, Michigan, USA
- Odile Eisenstein, Montpellier, France
- Harry B. Gray, Pasadena, CA, USA  
"Forty Years of Metal, Ligands, Electrons and Proteins "
- Hiizu Iwamura, Fukuoka, Japan  
"Heterospin Magnets Made of Transition Metals Ions with Poly(aminoxyl) Radicals as Bridging Ligands"
- Steve Lippard, MIT, MA, USA
- Robin N. Perutz, York, UK  
"Photochemistry of Metal Dihydride Complexes"
- Lawrence Que, Minnesota State University, USA
- Alex von Zelewsky, Fribourg, Switzerland  
"Stereoselective Synthesis of Coordination Compounds"

## The View of a Nobel Laureate

- Jean-Marie Lehn, University of Strasbourg, France

## Special lecturers: "The way we were"

- Fred Basolo, Northwestern University, IL, USA
- Stanley Kirschner, Wayne University, MI, USA  
"ICCC Adventures: Going Way Back "
- Luigi Maria Venanzi, ETH, Zurich, Switzerland
- Shoichiro Yamada, Osaka University, Japan

**Minisymposia and session lectures:** Tentative list of speakers

**Supramolecular Chemistry**

- Didier Astruc, Bordeaux, France
- Vincenzo Balzani, Bologna, Italy
- Paul D. Beer, Oxford, UK
- Peter Belser, Fribourg, Switzerland
- Carlo Alberto Bignozzi, Ferrara, Italia
- Sebastiano Campagna, Messina, Italy
- Edwin C. Constable, Basel, Switzerland
- Luisa De Cola, Bologna, Italy
- A. P. de Silva, Belfast, North Ireland, UK
- Gianfranco Denti, Pisa, Italy
- Luigi Fabbrizzi, Pavia, Italy
- "Supramolecular Switches and Machines "
- Donald Fitzmaurice, Dublin, Ireland
- Lucia Flamigni, Bologna, Italy
- Michael Graetzel, Lausanne, Switzerland
- Masa-aki Haga, Kamihama, Japan
- Olivier Kahn, Pessac, France
- Jean-Pierre Launay, Toulouse, France
- Jean-Pierre Majoral, Toulouse, France
- Thomas E. Mallouk, Penn State, PA, USA
- John McCleverty, Bristol, UK
- "Chemionics: Molecular Electronics, Molecular Ionics, Non-linear Optics "
- Thomas J. Meyer, Chapel Hill, NC, USA
- Daniel G. Nocera, Michigan State, MI, USA
- "Optical Supramolecules for Chemical and Physical Sensing "
- Jean Pierre Sauvage, Strasbourg, France
- Franco Scandola, Ferrara, Italy
- Fraser J. Stoddart, Birmingham, UK
- Michael J. Therien, Philadelphia, PA, USA
- Nicholas J. Turro, New York, NY, USA
- Margherita Venturi, Bologna, Italy
- Fritz Vogtle, Bonn, Germany
- "New Functional Dendrimers "
- Jeffrey Zink, Los Angeles, CA, USA

**Bioinorganic Chemistry**

- Shigetoshi Aono, Ishikawa, Japan
- "Structure and function of carbon monoxide dependent transcriptional regulator, CooA "
- Lucia Banci, Firenze, Italy
- Gerard W. Canters, Leiden, The Netherlands
- David Case, La Jolla, CA, USA
- Luigi Casella, Pavia, Italy
- "Structure-activity Relationship in Polynuclear Copper Enzymes "
- Tim Clark, Erlangen, Germany
- Dimitri Coucovannis, Ann Arbor, MI, USA
- James A. Cowan, Harvard, MA, USA
- "Protein-Bound Iron-Sulfur Clusters. Reactivity and Mechanism of Assembly "
- Sture Forsen, Lund, Sweden
- Allen H. Hill, Oxford, UK
- "The Investigation of Proteins by Scanning Probe Microscopy "
- Lian-Nian Ji, Guangzhou, China
- "Structures and Function of Two Types of Copper in Nitrite Reductase "
- Kenneth D. Karlin, Baltimore, MD, USA
- "Copper-Dioxygen Interactions and Models for Heme-Copper Oxidases "
- Peter Kollmann, San Francisco, CA, USA

- Lechoslaw Latos-Grazynski, Wroclaw, Poland
- "Novel routes of the iron porphyrin modifications "
- Anjos Macedo, Oeiras, Portugal
- Bo Malmstrom, Goteborg, Sweden
- "Effects of Protein Folding on Metalloprotein Redox-active Sites "
- Bernard Meunier, Toulouse, France
- "Recent advances in oxidation reactions mediated by biomimetic catalysts "
- Vincent L. Pecoraro, Ann Arbor, MI, USA
- Alexander Ryabov, Moscow, Russia
- Per Siegbahn, Stockholm, Sweden
- Edward I. Solomon, Stanford, CA, USA
- Shinnichiro Suzuki, Osaka, Japan
- "Structures and Function of Two Types of Copper in Nitrite Reductase "
- William B. Tolman, Minneapolis, MN, USA
- Heinrich Vahrenkamp, Freiburg, Germany
- "Alcohols and Aldehydes in the Ligand Sphere of the Zinc - Attempts ad Modelling Alcohol Dehydrogenase "
- Alejandro Vila, Rosario, Argentina
- Anna Walker, Tucson, AZ, USA
- Karl Wieghardt, Muhleim, Germany
- "Coordination Chemistry of Phenoxyl and Thyl Radicals "
- Jay R. Winkler, Pasadena, CA, USA
- "Electron Transfer in Metalloproteins: Distance, Dynamics and Folding "

#### **Transition Metal Ions in Material Chemistry**

- Lidia Armelao, Padova, Italy
- Charles Bauschlicher, NASA, CA, USA
- M. L. Boilot, Orsay, France
- Enric Canadell, Barcellona, Spain
- Patrick Cassoux, Tolouse, France
- George Christou, Bloomington, IN, USA
- Peter Day, London, UK
- Philippe Gutlich, Mainz, Germany
- Jaap G. Haasnoot, Leiden, The Netherlands
- "The Synthesis of Spinrossover Complexes of Iron(II) with 1,2,4-triazoles. X-ray Structures "
- A. Hauser, Geneve, Switzerland
- James R. Ibers, Evanston, IL, USA
- V. Leonard Interrante, Troy, NY, USA
- Mercuri Kanazidis, Michigan, MI, USA
- Hayao Kobayashi, Okazaki, Japan
- Jing Li, Camden, NJ, USA
- "Low Dimensional Inorganic Solids: Crystal Growth and Characterization of Novel Metal Chalcogenides "
- W. Linert, Wien, Austria
- Achim Muller, Bielefeld, Germany
- Jean Rouxel, Nantes, France
- Renato Ugo, Milano, Italy
- "Non Linear Optical Properties of Organometallic Complexes and Porphyrins "
- Michael Verdager, Paris, France
- Jack Williams, Argonne, IL, USA
- Yuri, V. Yablakov, Kazan, Russia
- Masahiro Yamashita, Nagoya, Japan
- "Quasi-One-Dimensional Halogen-Bridged Ni(III) Complexes and Haldane Gap Systems "

## **Organometallic Chemistry**

- Rumiya Abdereimova, Alma-ata, Kazakhstan
- Thomas Albright, Houston, TX, USA
- "The Mechanism of the Butadiene Dimerization Reaction "
- Alan Balch, Davis, CA, USA
- John E. Bercaw, Caltech, LA, CA, USA
- "Some Aspects of the Organometallic Chemistry Underlying Natta-Ziegler Polymerization of Olefins"
- Maria Jose Calhorda, Lisboa, Portugal
- Ernesto Carmona, Sevilla, Spain
- "Reactivity Studies on Cationic Alkylidene Complexes of Rhodium and Iridium "
- Ken G. Caulton, Bloomington, IN, USA
- "New Insights and Applications of Transition Metal Hydrides "
- Jwu-Ting Chen, Taipei, Taiwan
- "Allenyl/Propargyl Metal Complexes Mediated Versatile Bond-Formation "
- Peter Comba, Heidelberg, Germany
- Dainis Dakternieks, Geelong, Australia
- "Organotin Chemistry: Strategies to Chirotechnology and New Catalysts "
- Pierre H. Dixneuf, Rennes, France
- "Ruthenium Catalysts and C-C Bond Formation "
- Kees Elsevier, Amsterdam, The Netherlands
- Jose Gimeno, Oviedo, Spain
- "Activation of Terminal Alkynes: Efficient Approaches to the Selective Synthesis of Highly Unsaturated Hydrocarbon Chains "
- John Gladysz, Salt Lake City, Utah, USA
- "New Catalytic and Stoichiometric Carbon-Carbon Bond Forming Reactions in Metal Coordination Spheres "
- Lai Yoong Goh, Kuala Lumpur, Malaysia
- "Group 15 and Group 16 Polyatomic Molecules in Organochromium Chemistry "
- Jurgen Heck, Hamburg, Germany
- Guochen Jia, Hong Kong, Hong Kong
- "Synthesis and Characterization of some Dihydrogen/hydride Complexes of Ruthenium and Osmium, and Their Roles in Catalytic Hydrogenation Reactions "
- Brian F. G. Johnson, Cambridge, UK
- Klaus Jurkschat, Dortmund, Germany
- "Intramolecular Coordination in the Chemistry of IV Elements "
- Alfred B. P. Lever, Toronto, Canada
- David Milstein, Rehovot, Israel
- "Metal Insertion into carbon-carbon single bonds "
- Ilya I. Moiseev, Moscow, Russia
- "Reactions of Low-Valence Palladium Clusters "
- Thomas Rauchfuss, Urbana, IL, USA
- "Organometallic Models for Hydrogenating Catalysis "
- Otto J. Scherer, Kaiserslautern, Germany
- "'Naked' Pn and Sn Ligands: A Novel Chapter in Coordination Chemistry "
- Richard R. Schrock, Cambridge MIT, MA, USA
- "New Group 4 Catalysts for the Living Polymerization of Terminal Olefins "
- John Shapley, Urbana, IL, USA
- "Metal Cluster Complexes of Fullerenes "
- Edward I. Stiefel, Exxon, Annandale, NJ, USA
- "Internal Electron Transfer in Transition Metal Chalcogenide Systems "
- Kohei Tamao, Kyoto, Japan
- "Pentacoordinate Fluorosilicate Oligomers "
- Kazuyo Tatsumi, Nagoya, Japan
- "A New Entry into the Group 6 Transition Metal Chalcogenide Chemistry "
- Hubert Wadepohl, Heidelberg, Germany
- Joseph Ziolkowsky, Wroclaw, Poland
- "Perspectives of Rhodium Organometallic Catalysis. Fundamental and Applied Aspects "

### **Solution Chemistry**

- Silvio Aime, Torino, Italy
- Pradyat Banerjee, Calcutta, India
- "Interaction of Nitrogen Bases with Some Platinum(II) and Palladium(II) Complexes - Usual and Unusual
- Sue Berner-Price, Nathan, Australia
- "Solution NMR Studies of Metal-Based Drugs "
- Cynthia J. Burrows, Salt Lake City, Utah, USA
- "Interaction of Nickel Peptides with DNA: Recognition, Cleavage and Cross-linking "
- Daryle H. Busch, Kansas, USA
- Steve Dunham, MIT, Cambridge, MA, USA
- Timothy J. Egan, Cape Town, South Africa
- Thomas Kaden, Basel, Switzerland
- Eiichi Kimura, Hiroshima, Japan
- "Interaction of Macrocyclic Complexes with Nucleic Acids to Control Gene Expression "
- Bernhardt Lippert, Dortmund, Germany
- Claudio Luchinat, Firenze, Italy
- Kazuko Matsumoto, Tokyo, Japan
- "Pursuit of Platinum Complexes That Interact with Nucleic Acid in a New Mode "
- Thomas J. Meade, Pasadena, CA, USA
- Dan Meyerstein, Beer-Sheeva, Israel
- K. N. Raymond, Berkeley, USA
- Jan Reedijk, Leiden, The Netherlands
- "Supramolecular Aspects of Metal-containing Drugs "
- Peter J. Sadler, London, UK
- Roberto Sanchez-Delgado, Caracas, Venezuela
- "Metal Complexes with Nitrogen Ligands as Chemotherapeutic Agents Against Tropical Diseases "
- Dieter Sellmann, Erlangen, Germany
- "Chemical Principles, Structural Blue-prints, and the Relevance of Iron Sulfur Complexes for N<sub>2</sub> Fixation
- Helmut Sigel, Basel, Switzerland
- Einar Sletten, Bergen, Norway
- "Stabilisation of Triple-Stranded DNA Oligomers by Transition Metal Ions "
- Wenxia Tang, Nanjing, China
- "Identification and Structural Characterization of Some Platino and Pallado-Metallothionein "
- Fulvio Uggeri, Bracco spa, Milan, Italy
- Kui Wang, Beijing, China
- "The chirality effect of the metal complexes in their transportation and bioactivity "
- Lon J. Wilson, Houston, TX, USA
- "Metallofullerene Drug Design"
- Osamu Yamauchi, Nagoya, Japan

### **Metals in Life and Environment**

- Michele Aresta, Bari, Italy
- Barbara K. Burgess, Irvine, CA, USA
- Stefano Ciurli, Bologna, Italy
- "Structure-function relationships in urease: the crystal structures of native and inhibited enzyme "
- Christopher C. Cummins, MIT, Cambridge, MA, USA
- William De W. Horrocks, Penn.State Univ., USA
- "Yb<sup>3+</sup> Chelates as Near Infrared Luminophores for Chemosensor and Imaging Applications "
- Marcel Fontcave, Grenoble, France
- Michael D. Fryzuk, Vancouver, Canada
- "The Continuing Saga of Dinitrogen Activation "
- Masanobu Hidai, Tokyo, Japan
- "Dinitrogen Activation and Its Chemical Transformation into Heterocyclic Compounds "
- Peter May, Murdoch, Australia
- Douglas Rees, Caltech, Pasadena, CA, USA

- Barry Smith, Norwich, UK  
"Recent studies on the structure and function of Nitrogenase "
- A. G. Sykes, Newcastle, UK  
"Reactivity of the Cull/Free-Radical Containing Enzyme Galactose Oxidase "
- Rudi van Eldik, Erlangen, Germany  
"Activation of Small Molecules by Transition Metal Centers in Biological and Environmental Systems. A Mechanistic Approach "
- John Webb, Perth, Australia  
"Biominerals, Medicine & Materials Science "
- James Wild, Austin, TX, USA
- David R. Williams, Cardiff, UK

For more information:

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