

**THE ROYAL SOCIETY OF CHEMISTRY
DALTON DIVISION
DALTON DISCUSSION NO. 2
BIOINORGANIC CHEMISTRY**

2-5, September 1997
University of East Anglia/Nitrogen Fixation Laboratory, UK

Sessions and Keynote Speakers

Oxomolybdenum and Oxotungsten Enzymes

Session Leader: **Dave Garner**

A Crystallographic View of the Molybdenum-Cofactor

Doug Rees - Caltech, USA

Molybdenum Enzymes: Learning from Chemistry

Ed Stiefel - Exxon Research, USA

Small Molecule Activation by Metalloproteins

Session Leader: **Roger Thorneley**

Principles of Small Molecule Activation by Metalloenzymes as Exemplified by the Soluble Methane Monooxygenases

Ann Valentine - MIT, USA

Oxygen Activation at Nonheme Diiron Active Sites in Biology: Lessons from Model Complexes

Larry Que - University of Minnesota, USA

Bioineralisation

Session Leaders: **Annie Powell** and **Geoff Moore**

Bioineralization: the Form(id)able Part of Bioinorganic Chemistry!

Steve Mann - University of Bath, UK

Inorganic Life. Morphogenesis of Natural Form

Geoff Ozin - University of Toronto, Canada

Mixed-valance Metal Clusters in Biology

Session Leader: **Andrew Thomson**

EPR Study of the $S = 1/2$ Ground State of Radiolysis-generated Mn(III) Mn(IV)₃ form of [Mn(IV)₄O₆(bpy)₆]⁴⁺. Comparison with the Photosynthetic Oxygen Evolving Complex

Genevieve Blondin - University of Paris Sud, France

Manganese Clusters: A Common Ground for Photosynthesis, Quantum Tunnelling of Magnetization and Colossal Magnetoresistance

Dante Gatteschi - University of Florence, Italy

Metals in Medicine

Session Leader: **Peter Sadler**

Hydrogen Bonding of Nucleobases: Effects of Metal Ion Binding

Bernhardt Lippert - University of Dortmund, Germany

Intramolecular Migration of Coordinated Platinum from a Sulfur to N7 in the Nucleopeptide Met-d (TpG)

Jan Reedijk - University of Leiden, The Netherlands

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