

**COST Action CM1003**  
**“Biological oxidation catalysts – mechanisms and design of new catalysts”**  
**Meeting, July 24, Alpes Congrès, room OISANS**

**ALL ARE WELCOME TO ATTEND**

**Program**

**14.00-14.05** Welcome, Introduction to COST Action CM1003

**14.05-14.30** Robertus Klein Gebbink, University of Utrecht, the Netherlands  
“Modelling the 2-His-1-Carboxylate facial triad in non-heme iron enzymes”

**14.30-14.45** Kathrin Benzing, University of Heidelberg, Germany  
“High-valent iron-bispidine complexes: oxidation and oxygenation properties”

**14.45-15.05** Stephane Torrelli, University Joseph Fourier and CEA, Grenoble, France  
“{Cu<sub>2</sub>S} Cores as potential functional motifs of nitrous oxide reductase activity”

**15.05-15.20** *break*

**15.20-15.45** Nadia Moesch-Zanetti, University of Graz, Austria  
“Influence of isomers in molybdenum and rhenium complexes on oxygen atom transfer properties”

**15.45-16.00** Muhammed Zubair, Trinity College Dublin, Ireland  
“Facile molybdenum-mediated formation and characterisation of pentathiepins and novel pyrazine-dithiolene complexes as models for the molybdenum cofactor”

**16.00-16.25** *break*

**16.25-16.30** Hans-Petter Hersleth, University of Oslo, Norway – *flash presentation*  
“Using *in situ* single-crystal UV-vis and Raman spectroscopy to study the effect of X-ray radiation damage on the crystal structures of haem and flavoproteins”

**16.30-16.55** Silke Leimkühler, University of Potsdam, Germany  
“Studies on the formation of the molybdenum cofactor in *Escherichia coli*”

**16.55-17.15** Ricardo Louro, ITQB-UNL, Oeiras, Portugal  
“Redox tuning of the catalytic activity of soluble fumarate reductases”

**17.15-17.35** Rosa Vitale, University of Naples, Italy  
“Developing metalloprotein models for catalytic applications”

**17.35-17.55** Nobutaka Fujieda, University of Basel, Switzerland  
“Development of artificial mononuclear non-heme iron monooxygenase containing a 4-His metal binding motif”