

## Programme for the scientific workshop on Mechanisms of Copper Corrosion in Aqueous Environments

Moderator: Professor David J. Duquette

09.00 Welcome

*Torsten Carlsson, The Swedish National Council for Nuclear Waste*

### *Knowledge building*

09.10 Questions, hypotheses and facts related to copper corrosion in water

*Gunnar Hultqvist, The Royal Institute of Technology*

09.35 Copper corrosion processes in the Cu-O-H system, and their role in long-term safety assessments

*Christina Lilja, The Swedish Nuclear Fuel and Waste Management Co*

10.00 Coffee

10.30 Thermodynamics and kinetics of copper corrosion in oxygen free water

*Peter Szakálos, The Royal Institute of Technology*

*Olle Grinder, PM Technology AB*

10.55 Thermodynamic properties of Cu-O-H phases from first principles calculations

*Pavel Korzhavyi, The Royal Institute of Technology*

11.20 Introductory talks by the panel members

*Gaik Khuan Chuah, National University of Singapore*

*Ron Latanision, Massachusetts Institute of Technology*

*Digby Macdonald, Penn State University*

*Dave Shoesmith, University of Western Ontario*

12.40 Lunch

### *Hearing and panel discussion*

13.40 Topic 1: Fundamental understanding of the corrosion characteristics of copper regarding oxygen-free environments.

14.40 Coffee

15.10 Topic 2: What additional information is needed to confirm this specific corrosion process and to assess the importance of the process for the final repository?

16.10 Concluding remarks by the panel members

17.00 End of the day