

Winter School

“Modelling of Corrosion”

INSTN - CEA Saclay, January 28 - February 1st, 2019

European Federation of Corrosion: Courses in Corrosion and related areas

- Corrosion Mechanisms
 - Overview on Phase and Pourbaix Diagrams
 - Atomistic modelling of corrosion
 - Modelling of Corrosion by Cellular Automata
 - Point Defect Model
 - DPCM Model
 - High temperature oxidation
 - Corrosion data mining & neuronal network
 - Localized Corrosion
 - Flow accelerated Corrosion
 - Rebar corrosion modeling
 - Stress Corrosion Cracking
 - Modelling of Inter-granular Corrosion
 - Atmospheric Corrosion
 - Cathodic Protection
 - Corrosion Modelling and Safety Management
 - Multiscale Contribution on Corrosion Prediction
- D. FERON**, CEA-DEN, Saclay, France
 - C. GUENEAU**, CEA – DEN, Saclay, France
 - B. DIAWARA**, ENSCP Chime ParisTech, France
 - L. VAN BRUTZEL & A. CHARTIER**, CEA-DEN, Saclay
 - D. DI CAPRIO**, ENSCP Chime ParisTech, France
 - D. MACDONALD**, University of California Berkeley, USA
 - C. BATAILLON**, CEA-DEN, Saclay, France
 - C. DESGRANGES, L. MARTINELLI**, CEA-DEN, Saclay
 - M. URQUIDI-MACDONALD**, Penn State University, USA
 - R. OLTRA**, Université de Bourgogne, France
 - S. TREVIN & E. GIPON**, EDF, France
 - V. L’HOSTIS**, CEA-DEN, Saclay, France
 - T. COUVANT**, EDF, France
 - B. GWINNER**, CEA-DEN, Saclay, France
 - J. DE LAMARRE**, CEA - DEN, Saclay, France
 - A-M GROLLEAU**, Naval Group, France
 - Y. WATANABE**, Tohoku University, Japan
 - D. FERON**, CEA-DEN, Saclay, France

Computer Sessions using relevant software:

- Atomistic modelling of Corrosion - oxidation
 - Localized Corrosion
 - EKINOX model
 - DPCM Model
 - Point Defect Model
 - BRT-CICERO (FAC code)
- B. DIAWARA**, ENSCP, **L. Van BRUTZEL, A. CHARTIER**, CEA
 - R. OLTRA & B. VUILLEMIN**, Université de Bourgogne
 - C. DESGRANGES & L. MARTINELLI**, CEA-DEN, Saclay
 - C. BATAILLON**, CEA-DEN, Saclay
 - D. MACDONALD**, University of California Berkeley
 - & **M. URQUIDI**, Penn State University, USA
 - S. TREVIN & E. GIPON**, EDF

Organizers:

Damien FERON, CEA - DEN, Saclay, damien.feron@cea.fr
 Laure MARTINELLI, CEA - DEN, Saclay, laure.martinelli@cea.fr
 Constantin MEIS, CEA - INSTN, Saclay, constantin.meis@cea.fr
 Pierre Richard DAHOO, UVSQ, pierre-richard.dahoo@uvsq.fr

Contact: Alexandra FECTAY alexandra.fectay@uvsq.fr

Registration on-line: www.mse-chair.org

Registration deadline: December 7, 2018

