

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

