
Workshop 18: ***Tribocorrosion: Industrial Needs and Scientific Insights.***
 organisers: J.-P. Célis, P. Ponthiaux, S. Mischler, M. Stack

Poster Sessions **Monday 13 September: 18:00 – 19:30**
 Tuesday 14 September: 18:00 – 19:30

List of Posters: see at the end of this Workshop Program

Tuesday 14 September

Co-chairs: V. Neubert, D. Landolt

- 08:40** **18-KN-443**
From observation to understanding : Approach to analysis of wear mechanisms, case of RCCAs and CRDM latch arms.
Dominique HERTZ
- 09:20** **18-O-027**
Analysis of mechanisms induced by sliding and corrosion: dedicated apparatus for PWR environments.
Jean-Philippe VERNOT
- 09:40** **18-O-211**
Corrosion of materials used as cutting tools of wood.
Marc GAUVENT
- 10:00** **18-O-268** Withdrawn
Nanoscale Studies of Surface Glaze Formed During High Temperature Sliding.
Ian A. INMAN
Replaced by:
Tribo-corrosion measurements of stainless steel and PVD coated stainless steel using the scanning reference electrode technique.
Robert AKID
- 10:20** *Coffee break*
- 10:50** **18-KN-528**
Erosion-corrosion interactions and their affect on marine and offshore components.
Robert WOOD
- 11:30** **18-O-356**
X-ray analysis of a high temperature oxidised tribological contact between two materials involving in hot strip mill.
C. VERGNE

- 11:50** **18-O-516**
Problems of the behaviour of materials in hyper-aggressive phosphoric medium.
Frédéric NOVELLO
- 12:30** *Lunch*
- Co-chairs: A. Fischer, C. Richard
- 14:00** **18-KN-545**
The Combined Chemical and Mechanical Nature of in vivo Wear Mechanisms of Metal-on-Metal Hip Joint.
Alfons FISCHER
- 14:40** **18-O-300**
Tribocorrosion behaviour of titanium in artificial saliva solutions.
Ana VIEIRA
- 15:00** **18-O-394**
Fretting-corrosion damage of materials used as orthopaedic implants.
Jean GERINGER
- 15:20** **18-O-408**
In Vivo Degradation of CoCrMo Implants: Analysis of Corrosion and Wear.
Stefano MISCHLER
- 15:40** *Coffee break*
- 16:10** **18-O-573**
Tribocorrosion in dentistry: degradation of tooth structure and restorative materials.
Paul LAMBRECHTS
- 16:30** **18-O-503**
Effect of sliding wear contact on tribocorrosion behavior of stainless steel 304L in Ringer's solution.
Felicia BRATU
- 16:50** **18-O-445**
Micro-abrasion mapping in aqueous conditions.
Mathew MATHEW
- 17:10** **18-O-515**
Fretting-corrosion behaviour of Ti alloy in the presence of albumin.
Sachiko HIROMOTO
- 17:30** **18-O-546**
Wear debris in articular joints.
Caroline RICHARD
- 18:00 - 19:30** **Poster Session - List of Posters: see at the end of this Workshop Program**

Wednesday 15 September

Co-chairs: S. Mischler, P. Ponthiaux

- 08:40** **18-KN-365**
Modelling Sliding Wear: From Dry to Wet Environments.
Jiaren JIANG
- 09:20** **18-O-202**
Tribocorrosion characterization of cermet coatings.
Luca VALENTINELLI
- 09:40** **18-O-346**
Wear debris analyses of zirconia ceramics slided in various aqueous solutions.
Mitjan KALIN
- 10:00** **18-O-423**
The lubricant effect of Al₂O₃ nano-particles in aqueous suspensions on the tribocorrosion of austenitic stainless steel.
Simona RADICE
- 10:20** *Coffee break*
- 10:50** **18-O-575**
M. HASSEL
- 11:10** **18-O-392**
Determination of the Wear Mechanisms of Hardmetals in Abrasion-Corrosion by Stepwise Techniques.
Mark GEE
- 11:30** **18-O-519**
Influence of friction damages on the local electrochemical behaviour of duplex stainless steels.
Vincent VIGNAL
- 11:50** **18-O-548**
On cavities formation during tribocorrosion tests and working conditions.
Petre Stelian NITA
- 12:30** *Lunch*

Co-chairs: M. Stack, J-P Célis

- 14:00** **Poster Session** - *List of Posters: see at the end of this Workshop Program*
- 15:40** *Coffee break*

- 16:10** **18-KN-534**
The challenges to science and technology in the field of tribocorrosion.
Dieter LANDOLT
- 16:50** **Award for the best poster and Farewell drink**

Workshop 18: List of Posters

- 18-P-101** Effects of Graphite on the Wear and Corrosion Properties of SiCp Reinforced Copper Matrix Composites.
Cheng-Kuo LEE
- 18-P-112** Corrosion-wear behaviour of nano-structured coatings.
Animesh BASAK
- 18-P-133** Wear-Corrosion Synergism of AISI 304 Stainless Steel in Sliding Contacts.
Jean-Pierre CÉLIS
- 18-P-138** Ion conduction model applied to repassivation kinetics of tribo-activated surfaces.
Jean-Pierre CÉLIS
- 18-P-305** Influence of Plastic Deformation on the Corrosion Behavior of the Austenitic and Martensitic Stainless Steels.
Andreia RANZAN
- 18-P-436** Use of electrochemical tests for assessment of corrosion-erosion synergism in bare and TiN-coated stainless steels.
Alejandro TORO
- 18-P-446** Modelling impact angle effects on the erosion-corrosion of pure metals.
Buddhadev JANA
- 18-P-447** Velocity effects on the erosion-corrosion of Nb/CrN superlattice PVD coatings.
Yashodhan PURANDARE
- 18-P-520** Influence of impact-sliding wear on electrochemical properties of 304L stainless steel in PWR environment.
Damien DÉFORGE
- 18-P-521** Tribo-corrosion of Stellite 6 alloy : mechanism of the electrochemical reactions.
François WENGER