

SURF Academic Seminar

'Local Electrochemistry Monitoring and Modelling'

Friday 19 February 2010

Vrije Universiteit Brussel - Incubatie Centrum Arsenal Brussels (ICAB)

The Programme

08u30	Registration
09u00	Welcome address by Annick Hubin & Johan Deconinck
09u30	Achim W. Hassel (Max-Planck Institut für Eisenforschung, Düsseldorf, Germany) <i>"Use of micro-capillary cells for electrochemical experiments" *</i>
10u15	Steven Van Damme (Vrije Universiteit Brussel, SURF Research Group, Belgium) <i>"Modelling localized aluminium alloy corrosion in chloride solution"</i>
10u45	Coffee break
11u00	Ricardo Souto (University of La Laguna, Tenerife, Spain) <i>"Characterisation of metal-organic coating systems by scanning electrochemical microscopy: water uptake, debonding, blistering and surface topology"</i>
11u45	Els Tourwé (Vrije Universiteit Brussel, SURF Research Group, Belgium) <i>"Corrosion studies at SURF: an overview of our experimental approach"</i>
12u15	Lunch break
13u30	Leslie Bortels (Elsyca nv, Belgium) <i>"Cathodic protection for pipeline networks and off-shore structures - towards a fully integrated integrity management software"</i>
14u15	Neil McMurray (Swansea University, School of Engineering, Swansea, UK) <i>"Scanning Kelvin probe studies of cut-edge corrosion on organic-coated galvanized steels"</i>
15u00	Coffee break
15u30	Sviatlana Lamaka (Technical University of Lisbon, ICEMS, Portugal) <i>"In-situ visualisation of local corrosion by scanning ion-selective electrode technique (SIET)"</i>
16u15	Round-up by Iris De Graeve & Herman Terryn
16u30	Reception + Networking

* Exact title to be confirmed. For an update, please consult our website: <http://www.vub.ac.be/SURF/seminar>.



Practical

The seminar on 'Local Electrochemistry Monitoring and Modelling' is organized by the VUB research group Electrochemical and Surface Engineering (SURF), with support of the Scientific Research Community of F.W.O. Flanders (WOG): "Structural and chemical characterisation of materials at the micro- and nanoscale".

The topic of this seminar covers both the monitoring (by means of STM, AFM, Kelvin probe, Microcapillary cell, Scanning Vibrating Electrode, Local Electrochemical Impedance) and the modelling of local electrochemical phenomena.

This activity will take place on Friday 19th of February 2010 in the Incubation Centre Arsenal Brussels (ICAB, Witte Paterstraat 4, 1040 Brussels), near the Vrije Universiteit Brussel (see route map below).

There is no participation fee. The number of participants is however limited and registration is required. Please complete the online registration form on our website before 5 February 2010 (<http://www.vub.ac.be/SURF/seminar>).

Additional information

On the organizing SURF research group ...

The main research activities of the Electrochemical and Surface engineering group (SURF) are built around 5 cross-linked research domains: electrochemical engineering, electrochemical modelling, corrosion technology, surface engineering and surface characterisation.

The unique combination of expertise in electrochemical methods, surface processing, computational software for process simulation and in-situ & ex-situ surface analytical techniques within SURF promotes a multidisciplinary research focus in each of these 5 research domains.

More information on our researchers and their research activities can be found on our website <http://www.vub.ac.be/SURF/>

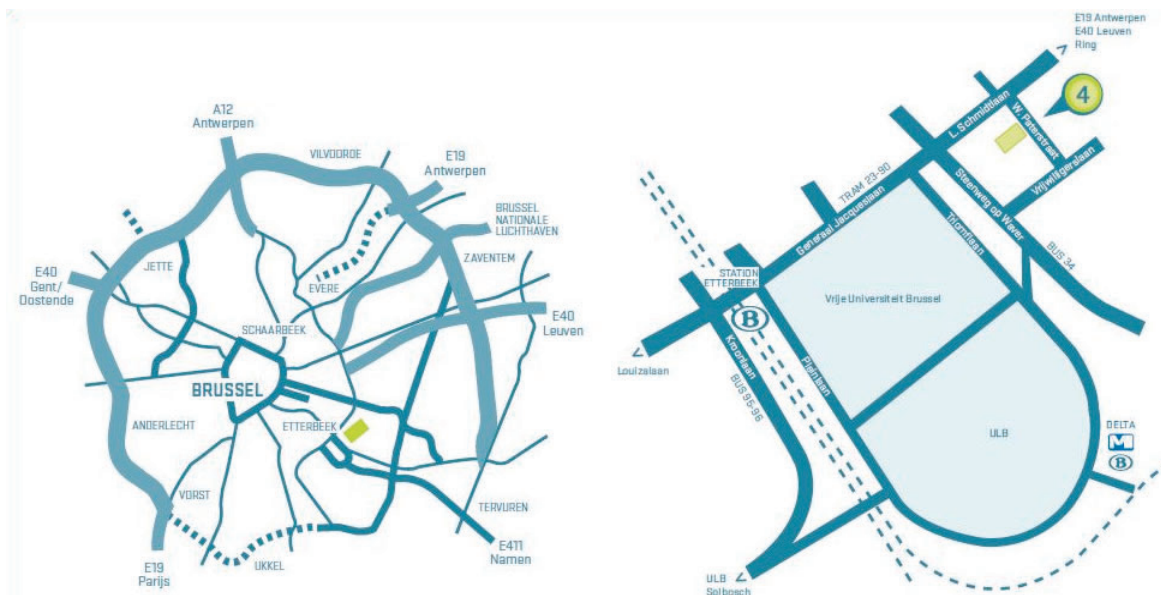


Vrije
Universiteit
Brussel



Venue & Route description

Incubatiecentrum Brussel Arsenaal (ICAB), Witte Paterstraat 4, 1040 Brussel



Further information can be obtained from Iris De Graeve (idgraeve@vub.ac.be) or Leen Lauwers (lslauwer@vub.ac.be).