



9th International Microsymposium on Electrochemical Impedance Analysis

02 – 05 June, 2011 St. Andrew Island, Rovinj, Croatia

Program

June 02, Thursday

20:30 Welcome Party

June 03, Friday

9:00 Opening

Chairperson: *Andrzej Lasia*

9:15 P. Zoltowski: *Chosen problems of the modeling of impedance and transfer function spectra*

9:45 G. Mészáros: *A note on the immitance data validation*

10:10 L. Pospišil, M. Hromadová, V. Kolivoška, M. Valášek, M. Gál, N. Fanelli:
Coupling of heterogeneous and homogeneous electron transfers: Source of electrochemical oscillations and chaos

10:35 – 11:00

Coffee break

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Chairperson: *Tamás Pajkossy*

- 11:00 A. Sadkowski: *The problem of electrochemical stability revisited. EIS data on anodisation of Ti*
- 11:25 V. Panić, T. Vidaković-Koch, M. Petkovska, M. Andrić, K. Sundmacher: *Non-linear frequency response analysis: Generalized electrochemical impedance spectroscopy for electrode reactions*
- 11:50 P. Millet: *Electrochemical impedance spectroscopy from potential steps. (I) Model electrical circuits*
- 12:15 P. Millet: *Electrochemical impedance spectroscopy from potential steps. (II) Hydrogen electro-insertion into palladium foils*

12:40 –15:30 *Break*

Chairperson: *Magdaléna Hromadová*

- 15:30 S. Amand, M. Musiani, M. E. Orazem, N. Pébère, B. Tribollet, V. Vivier: *Constant phase element (CPE) behaviour of electrodes coated by films with a power-law resistivity profile: Theory and application to hybrid sol-gel coatings on 2024 aluminium alloy*
- 16:00 D. A. Koleva, J. Hu, K. Van Bruegel: *Correlation of EIS parameters and microstructural characteristics in studying reinforced mortar systems*
- 16:25 T. Pajkossy: *The double-layer impedance of metals in binary electrolytes of strongly adsorbing ions*

16:50 –17:20 *Coffee break*



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Chairperson: *Daria Vladikova*

17:20 S. Vesztergom, G. G. Láng, T. Pajkossy:

On the construction of a flexible impedance fitting software and the demonstration of its capabilities for fitting impedance spectra obtained from monocrystalline gold / ionic liquid interfaces

17:45 V. Vetterl, S. Hason, L. Fojt:

Application of EIS by biopolymer adsorption at mercury electrodes and at titanium surface

18:10 G. G. Láng, M. Ujvári, F. Bazsó:

Monitoring of the electrochemical degradation of polymer modified electrodes using the electrochemical bending beam method and impedance spectroscopy

18:35 R. Sokolova, L. Pospíšil, S. Giannarelli:

Organic electrochemistry of pesticide ioxynil and the application of EIS



June 04, Saturday

Chairperson: *Marco Musiani*

9:00 Z. Stoynov, D. Vladikova, G. Raikova, D. Levi, A. Thorel, A. Chesnaud
Impedance techniques for SOFC studies-advances and challenges

9:30 N. Wagner, K. A. Friedrich:
Theory and application of electrochemical impedance spectroscopy for fuel cell characterization

10:00 –10:30 *Coffee break*

10:30 M. L. Tremblay, D. Guay, A. Lasia:
Dynamic impedance studies of ethanol oxidation at polycrystalline Pt

10:55 D. Vladikova, Z. Stoynov, G. Raikova, M. Krapchanska:
Dual membrane fuel cell-concept and investigations

11:20 M. Ujvári, F. Bázsó, G. G. Láng:
Investigation of the electrochemical reduction of perchlorate and chlorate ion on rhodium and ruthenium

Break

EXCURSION (depending on weather conditions)

20:30 DINNER PARTY: **Lanterna restaurant**
GET TOGETHER WITH TAMÁS PAJKOSSY:
Electrochemical impedance spectroscopy: The early history ☺



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June 05, Sunday

Chairperson: *Vladimir Panić*

- 9:30 M. Hromadová, V. Kolivoška, L. Pospišil :
*EIS analysis of the electrodimmerization process.
Reduction of dodecylpyridinium bromide*
- 9:55 M. Warczak, A. Sadkowski:
*Electrochemical impedance of Ti at different states of
anodisation. Relation to oscillatory mode of anodisation*
- 10:20 V. Horvat-Radošević, K. Magdić, K. Kvastek:
*Parametrization of impedance spectra of GC/H₂SO₄
electrode: Trials and errors*
- 10:45 General discussion
Closing