

Sunday (11.06.2017)

17:00 –	Registration
19:30 – 22:00	Welcome dinner

Monday (12.06.2017)

8:15 – 8:30	Opening ceremony					
8:30 – 9:30	PL216	K.J.J. Mayrhofer High-throughput methods with online analytics – from fundamental electrocatalysis to real applications	Chair: G. Inzelt, G.G. Láng, T. Pajkossy, S. Vesztegom			
9:30 – 10:00	KN177	D. Vladikova Advanced testing analysis for SOFC degradation studies				
10:00 – 10:30	Coffee break					
10:30 – 10:50	OEN124	B.B. Berkes <i>In situ</i> characterization of gassing processes in lithium-ion batteries by DEMS-DEIRS	Chair: I. Milošev, S. Vesztegom	OGN125	R. Sokolová Oxidation of bioflavonoids with respect to their chemical structure	Chair: J. Lović, N. Hodnik
10:50 – 11:10	OEN147	M. Lammer Characterisation of thermally induced battery failure on cylindrical 18650 lithium ion cells		OGN111	J. Bajat Cathodic breakdown of deep eutectic solvents based on choline chloride and urea	
11:10 – 11:30	OEN132	A. Ivanishchev Electrochemical study of fast Li-ion transport in $\text{Li}_3\text{V}_2(\text{PO}_4)_3$ -electrode		OGN166	K.J. Szekeres Electrochemical and morphological investigations of poly(3,4-ethylenedioxythiophene) films in different electrolyte solutions	
11:30 – 11:50	OEN141	D. Schloffer The electrochemical behaviour of magnesium alloys for secondary magnesium ion batteries		OGN203	L. Teixeira Electrochemical insights on a key protein from <i>Geobacter sulfurreducens</i> crucial to bacterial electricity production	
11:50 – 12:10	OEN151	Á. Kriston Electrochemistry under off-normal conditions: Assessed from an EU policy-making perspective		OGN140	G.G. Láng What happens to gold during the electrochemical reduction of the surface oxide layer?	
12:10 – 14:00	Lunch break					
14:00 – 14:30	KN229	I. Ciglenciki-Jušić Electroanalytical methods in characterization of sulfur species in water environment	Chair: T. Pajkossy, S. Vesztegom			
14:30 – 14:45	EX159	I. Fromondi Cyclic voltammetry: Staircase CV vs. true analog CV				
14:45 – 15:00	EX160	I. Fromondi New electrochemical techniques in Nova: electrochemical frequency modulation and fully integrated spectroelectrochemistry				
15:00 – 15:30	EX221	S. Feihl A novel multi-sine excitation procedure for impedance spectroscopy supports automatic drift correction and online error determination				
15:30 – 16:00	Coffee break					
16:00 – 16:20	OEN148	B. Pichler Investigations on long-term behavior of bifunctional air electrodes for zinc-air flow batteries	Chair: D. Vladikova, B. Berkes	OAN181	F. Matysik Hyphenation of electrochemistry and mass spectrometry using disposable sensors	Chair: R. Sokolová, G. Mészáros
16:20 – 16:40	OEN145	G. Kasiri Stable cathodic material for zinc-ion batteries based on Prussian blue derivatives for stationary applications		OAN120	L. Čížmek Electrochemical determination of carotenoids in fish samples	
16:40 – 17:00	OEN195	M. Gatalo Imaging the formation of PtCu_3/C electrocatalyst by <i>in situ</i> annealing transmission electron microscopy		OAN172	K. Takamura Characterization of titanium(IV)-4-(2-pyridylazo)resorcinol complex as an effective reagent for determining hydrogen peroxide in bioelectroanalysis	
17:00 – 17:20	OEN178	B. Broda Over-discharge investigation of lead-acid batteries		OAN175	P. Jovanović Novel hydrazinium EDTA-based electrochemical gas sensor for benzaldehyde	
17:20 – 17:40	OEN119	Á. Nemes Electrochemical nanogravimetric and conductivity studies on phtalocyanines		OAN179	A.-M. Sacara Glassy carbon electrode modified with nano- CeO_2 and Nafion for malachite green detection in aqueous solutions	
18:00 – 20:00	Poster session 1					

Tuesday (13.06.2017)

8:30 – 9:30	PL113	G. Inzelt Conducting polymers: Past, present, future	Chair: N. Eliaz, E.-M. Ungureanu			
9:30 – 10:00	KN217	N. Hodnik Insights into electrochemical dealloying of Pt-based nanoparticles at the sub-nano-scale				
10:00 – 10:30	<i>Coffee break</i>					
10:30 – 10:50	OEN210	K. Lota The capacitance properties of activated carbon obtained from biopolymers as the electrode material for electrochemical capacitors	Chair: A. Trifonova, A. Nemes	OCA191	A. Rudnev The electrochemical reduction of CO ₂ in ionic liquid + water mixtures under diffusion control	Chair: J. Bajat, Z. Mandić
10:50 – 11:10	OEN212	I. AczNIK Comparison of electrochemical properties of activated carbons and graphene-like materials used as electrode materials in various energy storage devices		OCA131	R. Argurio Highly efficient electrocatalysts by N-, S-doping of mesoporous carbons for enhanced oxygen reduction reaction	
11:10 – 11:30	OEN155	I. Felhősi High-power supercapacitor electrodes based on vertically aligned carbon nanotube layer		OCA143	R. Rashkov Multicomponent catalysts containing non-precious metal for hydrogen and oxygen evolution reaction	
11:30 – 11:50	OIF154	T. Pajkossy On the nature of the electrochemical double layer		OCA197	S. Gutić Promotion effects of reduced graphene oxide on the catalytic properties of nickel towards the hydrogen evolution reaction	
11:50 – 12:10	OIF158	G. Mészáros Electrochemical flicker noise of redox reactions		OCA137	V. Guterman M _x Pt/C electrocatalysts based on bimetallic nanoparticles with non-uniform distribution of components	
12:10 – 14:00	<i>Lunch break</i>					
14:00 – 14:30	KN189	L. Péter Component distribution in electrodeposited alloys and multilayers	Chair: V. Horvat-Radošević, V. Kondratiev			
14:30 – 15:00	EX150	L. Pini Scanning electrochemical microscopy: New possibilities, new techniques				
15:00 – 15:30	EX136	L. Stratmann Portable electrochemistry: The new generation of portable electrochemical devices				
15:30 – 16:00	<i>Coffee break</i>					
16:00 – 16:20	OIF157	A. Friedemann Investigations on the structure of PEO layers	Chair: E. Diau, Z. Stoyanov	OCA146	S. Stamatini Understanding Ru-Ti interplay in electrocatalysis	Chair: M. Ujvári, S. Gutić
16:20 – 16:40	OIF187	D. Ścieszka What do laser-induced transient techniques reveal about electrochemical systems?		OCA164	E. Petkucheva Influence of the thickness of an Au sublayer on the catalytic properties of Ir films prepared by DCMS	
16:40 – 17:00	OIF186	A. Marković Electrochemical and spectroelectrochemical studies on electron transfer reactions on transition metal complexes with π-acceptor ligands		OCA184	A.I. Mardare Electrooxidation compositional mapping of copper-based thin film combinatorial libraries for sensor applications	
17:00 – 17:20	OIF192	M. Poberznik Atomistic insight into the bonding of silanol molecules to oxidized aluminum surfaces		OCA194	V. Čolić Carbon catalysts for hydrogen peroxide production by oxygen electroreduction	
17:20 – 17:40	OIF204	P. Altimari A method to compute the current transient generated by nucleation and growth of metal particles under mixed kinetic-diffusion control				
18:00 – 20:00	Poster session 2					

Wednesday (14.06.2017)

8:30 – 9:30	PL228	N. Eliaz Electrochemical deposition of rhenium-based alloys as thermal barrier coatings	Chair: V. Tsakova, E. Gyenge			
9:30 – 10:00	KN114	J. Lović Electrochemical determination of selected pharmaceutical compounds combined with different analytical methods				
10:00 – 10:30	<i>Coffee break</i>					
10:30 – 10:50	OFM121	V. Kondratiev Electrochemical impedance spectroscopy of cathode materials modified by conducting polymer PEDOT:PSS	Chair: I. Ciglenečki-Jusić, G. Inzelt	OCR207	I. Milošev Alkyl and perfluoro compounds as corrosion inhibitors for aluminium alloys containing Si	Chair: I. Felhősi, L. Péter
10:50 – 11:10	OFM133	V. Tsakova Electroless deposition of metal particles on conducting polymer layers		OCR123	N. Kovács Investigation of titanium dissolution in acidic media with rotating ring-disk electrodes by using dual dynamic potential control	
11:10 – 11:30	OFM167	T. Takamura Novel Li-Ion capacitor having an ultra-high specific capacity comparable to that of Li-ion Batteries		OCR174	P. Rodič Simple and fast fabrication of superhydrophobic and corrosion resistant coatings based on fluoroalkyl silanes	
11:30 – 11:50	OFM180	Á.F. Szőke Colloidal coatings with improved corrosion inhibition properties		OCR122	S. Cenolli Piperine for corrosion protection of iron B500 in acidic media	
11:50 – 12:10				OCR185	U. Tiringier Self-healing effect of Ce(NO ₃) ₃ in coating based on GPTMS, TEOS and SiO ₂ nanoparticles applied on aluminium alloy 7075-T6	
12:10 – 14:00	<i>Lunch break</i>					
14:00 – 22:00	Excursion + dinner					

Thursday (15.06.2017)

8:30 – 9:30	PL225	E. Gyenge Bifunctional oxygen reduction / evolution reaction (ORR/OER) catalysts for rechargeable metal-air batteries and regenerative fuel cells	Chair: M. Kraljić-Roković, G.G. Láng	
9:30 – 10:00	KN144	E.-M. Ungureanu New polyazulene-based materials for heavy metal ions detection		
10:00 – 10:30	KN103	S. Vesztergom On the electrolysis of dilute solutions of strong acids		
10:30 – 11:00	<i>Coffee break</i>			
11:00 – 11:20	OFM169	D. Zalka Determination of the charge transfer resistance of poly(3,4-ethylenedioxythiophene)- and poly(3,4-ethylenedioxyppyrole)-modified electrodes immediately after overoxidation	Chair: N. Kovács, A. Rudnev	
11:20 – 11:40	OFM176	M. Kraljić Roković Electrochemical approach for exfoliation of graphite and graphene production		
11:40 – 12:00	OFM211	I. Boshnakova PEMECs with Ir/MMT as anode material		
12:00 – 12:30	Closing ceremony			

List of posters

P1CR01	B. Kapun Imidazole-based compounds with different functional groups as corrosion inhibitors for copper and zinc
P1CR02	G. Šekularac Investigation of corrosion behaviour of aluminium alloy ENAC–AlSi ₇ Mg _{0.3} in artificial seawater with addition of inorganic sulfides
P1CR03	L. Péter Localized corrosion of an austenitic stainless steel pipeline
P1CR04	J. Bajat Protective properties of epoxy coatings containing CeO ₂ and ZrO ₂ nanoparticles
P1EN01	M. Krstajić Pajić Electrodeposited Ag-Pd alloys as catalysts for oxygen reduction
P1EN02	M. Krstajić Pajić Nanostructured PtAu catalysts for formic acid electrooxidation
P1EN03	V. Kondratiev Improvement of the electrochemical performance of Li ₄ Ti ₅ O ₁₂ electrode material with conducting PEDOT:PSS binder
P1EN04	S. Sopčić Influence of the electrode preparation conditions on the performance of the activated carbon symmetric supercapacitors
P1EN05	S. Sopčić Microwave-assisted synthesis of graphene/SnO ₂ composite material and its supercapacitive properties
P1EN06	T. Kulova Maricite-type NaFePO ₄ as cathode material for sodium-ion battery
P1EN07	G. Ivanova MnO ₂ and MnFe ₂ O ₄ as electrode materials for hybrid supercapacitors
P1EN08	J. Georgieva Preparation and characterization of an Ir-TiO ₂ composite
P1EN09	N. Dimitrova Pt(Cu) catalyst for methanol oxidation prepared by galvanic replacement on TiO ₂ powder support
P1EN10	V. Jovanović PtSn versus PtSnO ₂ carbon supported catalysts for methanol oxidation
P1EN11	T. Lazarova Solution combustion synthesis of spinel ferrites as electrode materials in asymmetric supercapacitors
P1EN12	A. Skundin The problems of electrolyte for sodium-ion batteries
P1GN01	B. Malinović Treatment of reverse osmosis retentate of landfill leachate by electrocoagulation
P1GN02	J. Lović Catalytical activity of electrodeposited PdNi coatings for the ethanol oxidation in alkaline solution
P1GN03	Y. Hubenova Influence of applied potentials on charge transfer in biofuel cells
P1GN04	S. Strmečki Kos Tensammetry of proteins and polysaccharides on mercury electrode under conditions of catalytic activity
P1IF02	A. Pavlišić Kinetic Monte Carlo investigation into reshaping of Pt-based nanoparticle catalysts for PEM fuel cells
P2AN01	M. Avramov-Ivić Characterization of surface morphology and content of layers of glucose sensor containing glucose oxidase-glutaraldehyde-cysteine on modified gold electrode
P2AN02	M. Avramov-Ivić Degradation of azithromycin using Ti/RuO ₂ anode as catalyst followed by DPV, HPLC-UV and MS analysis
P2AN03	M. Finšgar Electrochemical analysis of TiAlV alloy in chloride solution
P2AN04	I. Tomac Electrochemical properties of 5-O-caffeoylquinic acid investigated by square-wave voltammetry and differential pulse voltammetry
P2AN05	E. Diacu Heavy metal ions electroanalysis from waters using chemically modified electrodes based on 2,6-bis((E)-2-(thiophen-2-yl)viny)-4-(4,6,8-trimethylazulen-1-yl)pyridine
P2AN06	B. Petovar Long-time immersion study of medical grade stainless steel in chloride solution using different electroanalytical techniques
P2AN07	I. Ciglencečki-Jušić Voltammetric analysis of organic surface active substances in the aquatic environment
P2AN08	D. Jadreško Voltammetric determination of β-carotene in fruits and vegetables
P2CA01	J. Geppert Electrocatalytic oxygen reduction and oxygen evolution on thin film manganite perovskites
P2CA02	A. Kellenberger Enhancement of cathodic hydrogen evolution reaction using proton carriers
P2CA03	J. Katić Tin sulfide films as promising materials for solar assisted catalysis and solar cells: Investigation of electronic structural properties
P2FM01	S. Kozhukharov Actual trends in the elaboration of advanced multifunctional protective coating systems for (Al–Cu–Mg) lightweight aircraft alloys
P2FM02	C. Girginov Effect of the thermal treatment of combined (Al/Ce)-oxide films deposited on AA2024–T3 aircraft alloy

P2FM03	A. Nakova Electroless deposition of palladium nanoparticles on poly(3,4-ethylenedioxythiophene)
P2FM04	G. Ljubek One-pot electrochemical synthesis of polypyrrole/graphene oxide composite
P2FM05	M. Kraljić Roković Reduction of graphene oxide by using phenolic compounds from olive leaf extract
P2FM06	A. Kellenberger Scan rate dependent electrodeposition of polyaniline nanofibers
P2FM07	E.-M. Ungureanu Studies related to the preparation of modified electrodes with azulene derivatives in order to optimize the detection of heavy metals
P2IF01	M. Özcan A new insight into the mathematics behind the extraction of double layer capacitance