

| April 11 | | Time |
|-------------|---|------|
| 16:30-18:30 | Session 0 : <u>Jaeyoung Lee</u> | 120 |
| | <p>Opening of the Symposium Jaeyoung Lee (Conference Chair)</p> <p>OS M Eiswirth (Fritz-Haber-Institut der Max-Planck-Gesellschaft, Germany)</p> <p>▶ Surface Chemistry – Quo Vadis?</p> <p>IS1 H Varela (University of São Paulo, Brazil)</p> <p>▶ The influence of temperature on the oscillatory electro-oxidation of small organic molecules</p> <p>KS1 H Kim (Seoul National University, South Korea)</p> <p>▶ Fuel Cell as a Green Energy Alternative</p> | |
| 18:30-20:30 | Welcome reception | 120 |
| April 12 | | Time |
| 08:10-08:50 | <i>Registration</i> | 40 |
| 08:50-10:30 | Session 1 : <u>Peter Strasser</u> | 100 |
| | <p>KS2 A Friedrich (German Aerospace Center, Germany)</p> <p>▶ Fuel Cells for Aircraft Application</p> <p>IS2 T Homma (Waseda University, Japan)</p> <p>▶ Electrochemical approaches for fabrication of micro/ nano scale functional structures and devices</p> <p>IS3 S Daniele (University of Venice, Italy)</p> <p>▶ Investigation of formic acid electrooxidation at mesoporous platinum microelectrodes. The effect of temperature, anion and bismuth ad-atoms</p> | |
| 10:30-11:00 | <i>Coffee Break</i> | 30 |
| 11:00-12:40 | Session 2 : <u>Masatoshi Osawa</u> | 100 |
| | <p>KS3 R Schuster (Karlsruhe Institute of Technology, Germany)</p> <p>▶ Electrochemical Microcalorimetry</p> <p>IS4 P Parmananda (IIT Bombay, India)</p> <p>▶ Coupling electrochemical oscillators</p> <p>IS5 H Jensen (University of Copenhagen, Denmark)</p> <p>▶ Electrochemical at ITIES as a Microanalytical Tool for Nanoliter Analyte Detection and Sample Preparation</p> | |
| 12:40-14:20 | <i>Lunch & Ertl center Visit</i> | 100 |
| 14:20-15:50 | Session 3 : <u>T Homma</u> | 90 |
| | <p>KS4 P Plath (Minir-Chemie-Informatik, Germany)</p> <p>▶ Battery – Forecast via Synergetics</p> <p>OS1 JM Lee (Ertl center, South Korea)</p> <p>▶ Phase Transformation of Thermoelectric Bismuth Telluride Nanowires as a Result of an Annealing Process</p> <p>IS6 G Ganteför (University of Konstanz, Germany)</p> <p>▶ Chances and Challenges of Cluster Chemistry</p> | |
| 15:50-16:20 | <i>Coffee Break & Photograph</i> | 30 |
| 16:20-18:00 | Session 4 : <u>Andreas Friedrich</u> | 100 |
| | <p>IS7 SI Woo (KAIST, South Korea)</p> <p>▶ Reliable Combinatorial method for Fuel cell Electrode and MEA</p> <p>OS2 JJ Woo (GIST, South Korea)</p> <p>▶ Enhanced fuel cell performance under humidified and non-humidified conditions by the structural modification of a polymer electrolyte membrane</p> <p>IS8 HJ Lee (Kyungpook National University, South Korea)</p> <p>▶ Creating ITIES for Ion-selective Sensing and Fuel Cell Applications</p> <p>OS3 S Haram (University of Pune, India)</p> <p>▶ Synergistic Effect of Carbon Nanotubes Support on Electrocatalytic Properties of Silver in the Nitrate Ions Reduction</p> | |
| 18:00-20:30 | Poster Session (<u>K Nielsch, H Varela, M Behrens, YD Kim, H Jensen</u>) Beer & Wine Party | 150 |

| April 13 | | Time |
|-----------------|---|------|
| 08:10-08:40 | <i>Registration</i> | 30 |
| 08:40-10:20 | Session 5 : <u>Olaf Magnussen</u> | 100 |
| | <p>KS5 E Savinova (University of Strasbourg, France) ▶ Interplay of the electrochemical reaction and diffusion in 3D nanoparticle arrays</p> <p>IS9 BS Mun (Hanyang University, South Korea) ▶ The study of Pd₇₀Au₃₀(110) surface properties under CO, O₂ and CO+O₂ elevated pressures</p> <p>IS10 P Maire (Paul Scherrer Institut, Switzerland) ▶ In situ methods for the investigation of lithium batteries</p> | |
| 10:20-10:50 | <i>Coffee Break</i> | 30 |
| 10:50-12:40 | Session 6 : <u>Salvatore Daniele</u> | 110 |
| | <p>IS11 Z Ding (The University of Western Ontario, Canada) ▶ Electrochemical Avenue toward Cu(In,Ga)Se₂-Based Solar Cells</p> <p>O4 G-G Park (Korea Institute of Energy Research, South Korea) ▶ Temperature cycling effects on the durability of polymer electrolyte fuel cells</p> <p>IS12 K Nielsch (University of Hamburg, Germany) ▶ Multifunctional Cylindrical Nanoobjects: From ALD Growth towards Physical Model Systems</p> <p>IS13 JS Yu (Korea University, South Korea) ▶ Ordered hierarchical nanostructured carbon as a highly efficient catalyst support in low-temperature fuel cell</p> | |
| 12:40-14:00 | <i>Lunch & Ertl center Visit</i> | 80 |
| 14:00-15:50 | Session 7 : <u>Pascal Maire</u> | 110 |
| | <p>IS14 O Magnussen (University of Kiel, Germany) ▶ In situ Video-STM studies of the surface reconstruction of Cu(100) electrodes during hydrogen evolution_</p> <p>IS15 SW Nam (Korea Institute of Science and Technology, South Korea) ▶ Sulfur-tolerant Ni-based anodes for high-temperature fuel cells</p> <p>OS5 S Uhm (Ertl center, South Korea) ▶ Synthesis and Electrochemical Activity of PGM-free Cathode Catalysts in Alkaline Ethanol Fuel Cells</p> <p>IS16 J Cheng (University of California Riverside, USA) ▶ Biosensing with SPR-Active Surface: Exploring Cell-Surface Phenomenon in Combination with Electrochemistry and Mass Spectrometry</p> | |
| 15:50-16:20 | <i>Coffee Break</i> | 30 |
| 16:20-18:10 | Session 8 : <u>Zhifeng Ding</u> | 110 |
| | <p>IS17 IS Kim (GIST, South Korea) ▶ Bioelectricity and biohydrogen production through biocatalyzed electron harvesting from organic compounds in microbial fuel cell-based systems</p> <p>IS18 M Behrens (Fritz-Haber-Institut der Max-Planck-Gesellschaft, Germany) ▶ Synthesis of high performance Cu-based catalysts active in the conversion of carbon dioxide to methanol</p> <p>IS19 J Starke (Technical University of Denmark, Denmark) ▶ Deterministic and stochastic modelling of catalytic surface processes</p> <p>OS6 J Choi (Inha University, South Korea) ▶ Potential shock method for through-hole TiO₂ nanotubes</p> | |
| 18:10-20:40 | <u>Markus Eiswirth</u> | 150 |
| | <p><i>Poster Award Ceremony (Seung-Hyeon Moon & Jaeyoung Lee)</i> <i>Congratulatory Remarks (President of GIST)</i> <i>Korean Traditional Music Concerts (MOHO)</i> Symposium Dinner</p> | |

| April 14 | | Time |
|-----------------|---|------|
| 08:10-08:40 | <i>Registration</i> | 30 |
| 08:40-10:20 | Session 9 : <u>Hye Jin Lee</u> | 100 |
| | <p>KS6 H Girault (Ecole Polytechnique Fédérale de Lausanne, Switzerland) ▶ Molecular electrocatalysis at soft interfaces : Oxygen reduction by amphiphilic porphyrins</p> <p>IS20 YD Kim (Sungkyunkwan University, South Korea) ▶ Photocatalytic activity of various TiO₂ nanostructures</p> <p>IS21 C Pereira (University of Porto, Portugal) ▶ Characterization of catecholamines electrochemical sensors</p> | |
| 10:20-10:50 | <i>Coffee Break</i> | 30 |
| 10:50-12:40 | Session 10 : <u>JS Yu</u> | 110 |
| | <p>KS7 M Koper (Leiden University, The Netherlands) ▶ Electrocatalysis at gold</p> <p>IS22 M Osawa (Hokkaido University, Japan) ▶ Role of bridge-bonded formate in formic acid electrooxidation on Pt : Reaction intermediate or site-blocking spectator?</p> <p>IS23 P Strasser (TU Berlin, Germany) ▶ Tuning surface electrocatalytic reactivity using core-shell structural concepts</p> <p>Close of Symposium (P Strasser)</p> | |
| 12:40-13:30 | <i>Lunch</i> | 50 |
| 13:30-20:00 | <p style="text-align: center;">Excursion</p> <p style="text-align: center;">Naganeupseong Folk Village & Damyang (30,000won/person)</p> | |