

### III Polish Forum

#### Smart Materials for Hydrogen and Renewable Energy

Warsaw University of Technology, Small Hall, Plac Politechniki 1, Warsaw

#### Program of the Conference

##### November 29<sup>th</sup> 2011

- 11.00 – 11.20 **Opening of the Conference**
- 11.20 – 11.40 *EIT KIC Lighthouse Innodriver on „New Materials for Energy Systems” (NewMat) – bridging a gap between science and industry*  
**A. Czyska-Filemonowicz**, AGH University of Science and Technology, Krakow
- 11.40 – 12.10 *Zinc oxide by Atomic Layer Deposition for the second and third generation of photovoltaic cells*  
**M. Godlewski**, Institute of Physics, Polish Academy of Sciences, Warsaw
- 12.10 – 12.40 *Smart photocatalysts for solar energy conversion*  
**W. Macyk**, Jagiellonian University, Krakow
- 12.40 – 13.10 *Titanium dioxide for hydrogen generation in photoelectrochemical cells*  
**K. Zakrzewska, M. Radecka**, AGH University of Science and Technology, Krakow
- 13.10 – 14.30 **Lunch**
- 14.30 – 15.00 *Material problems and prospects of Li-ion batteries for vehicles applications*  
**J. Molenda**, AGH University of Science and Technology, Krakow
- 15.00 – 15.30 *Smart carbon coatings for Li-ion batteries*  
**M. Molenda**, Jagiellonian University, Krakow
- 15.30 – 16.00 *New lithium electrolytes for Li-ion batteries*  
**W. Wiczorek**, Warsaw University of Technology
- 16.00 – 16.30 *New electrode materials for hydrogen storage in batteries*  
**A. Czerwiński**, Warsaw University & Industrial Chemistry Research Institute, Warsaw
- 16.30 – 17.00 **Coffee break**

- 17.00 – 17.30 *Electrochemical capacitors for quick harvesting energy*  
**E. Fraćkowiak**, Poznan University of Technology
- 17.30 – 18.00 *New materials for thermoelectric generators based on PbTe-MnTe and PbTe-CdTe semiconductor alloys and nanocomposites*  
**T. Story**, Institute of Physics, Polish Academy of Sciences, Warsaw

18.00 – 19.30 **Poster session (with catering)**

##### November 30<sup>th</sup> 2011

- 9.00 – 9.30 *Development of nanostructured hybrid materials for application as catalysts in low-temperature polymer-membrane fuel cells: electrooxidation of ethanol at platinum supported on gold admixed with titanium oxide*  
**P. Kulesza**, University of Warsaw
- 9.30 – 10.00 *Trends in LT/HT-PEMFC core technology components R&D*  
**S. Hočevár**, National Institute of Chemistry, Ljubljana, Slovenia
- 10.00 – 10.30 *Cathode materials for SOFC*  
**K. Świerczek**, AGH University of Science and Technology, Krakow
- 10.30 – 11.00 **Coffee break**
- 11.00 – 11.30 *The IV generation vessels for hydrogen storage applied in vehicles. Modeling and experiment*  
**J. Kaleta**, Wrocław University of Technology
- 11.30 – 12.00 *Hydrogen absorption ability and corrosion behavior of metal hydride materials*  
**H. Bala**, Częstochowa University of Technology
- 12.00 – 12.30 *High temperature activated AB<sub>2</sub> nanopowders for hydrogen compression applications*  
**S. Makridis**, Institute of Nuclear Technology and Radiation Protection, Athens, Greece
- 12.30 – 13.00 *EU policy and funding for the development and deployment of fuel cell and hydrogen technologies*  
**M. Reijalt**, European Hydrogen Association
- 13.00 – 13.15 **Closing of the Conference**
- 13.15 – 14.30 **Lunch**