Program of the Conference

November 29th, 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 – 13.30 Lunch

13.30 – 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. Wieczorek, 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. Frąckowiak, 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)

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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. Hočevar, 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, Wroclaw 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 AB₂ 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