**Solar Renewable Energy News**

**2-8 April 2005 Firenze, Italy**

**Invited Speakers**

**Section 1**

·                     **K. Akimoto**, "*Thin film deposition of Cu2O and application for solar cells*", Institute of Applied Physics, University of Tsukuba, Tsukuba, Japan

·                     **J. Cárabe**, "*New approaches in silicon photovoltaics*", CIEMAT, Madrid, Spain

·                     **M. Fujimoto**, "*Defects in Non-stoichiometric Perovskite Thin Films*" Graduate School of Electronic Science and Technology, Shizuoka University, Hamamatsu, Japan

·                     **H. Glesková, I. Cheng, S. Wagner, J.C. Sturm and Z. Suo**, "*Mechanics of thin-film electronics on flexible substrates*" Department of Electrical Engineering and Princeton Institute for the Science and Technology of Materials, Princeton University, Princeton and Division of Engineering and Applied Sciences, Harvard University, Cambridge, USA

·                     **M. Hartmanová, M. Jergel, I. Thurzo**, "*Trends of Structural and Electrical Properties in Materials for Advanced Technologies - New non-traditional Energetic Sources and Environmental Problems*", Institute of Physics SAS, Bratislava, Slovakia

·                     **H. Hasegawa**, "*Dynamics and Control of Recombination Processes at Semiconductor Surfaces, Interfaces and Nanostructures*", Research Center for Integrated Quantum Electronics, Hokkaido University, Sapporo, Japan

·                     **Zs.J. Horvath**, "*Electrical and Optical Behaviour of Sputtered Amorphous and Polycrystalline Si/Ge Multilayers and SiGe Layers Deposited on Monocrystalline Si Substrates*", Research Institute for Technical Physics and Materials Science of HAS, Budapest, Hungary

·                     **S. Chromik**, "*Nanogranular MgB2 thin films on buffered Si substrates*", Institute of Electrical Engineering, SAS, Bratislava, Slovak Republic

·                     **R. Ishihara**, "*Growth of large, location-controlled Si grains by excimer-laser crystallization and electrical property of single grain TFTs*", ME&CE, DIMES, Delft University of Technology, Delft, The Netherlands

·                     **J. Ivančo**, "*Active organic electro-optic films: Electronic and geometric structure*", Institute für Physik, Karl-Franzens-Universität, Graz, Austria

·                     **M. Jergel, E. Majkova, S. Luby**, "*Diffractometry and Reflectometry of Thin Films and Surfaces*", Institute of Physics SAS, Bratislava, Slovakia

·                     **P. Klapetek**, "*Atomic force microscopy analysis of morphology of thin film boundaries*", Czech Metrology Institute, Brno, Czech Republic

·                     **H. Kobayashi**, "*Detection and Elimination of Semiconductor Interface States and Improvement of Solar Cell Characteristics*", Institute of Scientific and Industrial Research, Osaka University and CREST, JST, Osaka, Japan

·                     **H. Koinuma**, "*Combinatorial Technology and its application to solar energy materials and devices research*" Tokyo Institute of Technology, Materials and Structures Laboratory and CREST, JST, Yokohama, Japan

·                     **E.V.Konenkova 1), M.Morgenstern 2), R.Wiesendanger 3)**, "*Electron-phase transition in graphite: magnetotransport and Scanning Tunnelling Spectroscopy-investigations*" 1) A.F.Ioffe Physico-Technical institute, St.Petersburg, Russia; 2) Institute of Experimental Physics, Aachen, Germany; 3) Institute of Applied Physics, Hamburg, Germany

·                     **T. Makabe**, "*Basis of a radiofrequency plasma and large area VHF plasma for thin film deposition*", KEIO University, Yokohama, Japan

·                     **H. Matsumura**, "*Feasibility Study on New Solar Cell Materials - Cat-CVD a-Si:H and Nano-Grain Poly-Si Prepared by Rapid Thermal Process of Cat-CVD a-Si:H Films*", Japan Advanced Institute of Science and Technology, Ishikawa, Japan

·                     **H. Minoura**, "*Flexible and Colorful Dye-Sensitized Solar cells*", "*Rainbow Cell*", Gifu University, Environmental and Renewable Energy Systems, Graduate School of Engineering, Gifu, Japan

·                     **S. Miyazaki**, "*High Rate Growth of Crystalline Si and Ge Films from Inductively-Coupled Plasma*", Graduate School of Advanced Sciences of Matter, Hiroshima University, Hiroshima, Japan

·                     **A. Morales-Acevedo**, "*Thin Film CdS/CdTe Solar Cells: Research Perspectives*", CINVESTAV, Mexico, Mexico

·                     **J. Müllerová**, "*Optical characterisation of polysilicon thin films for solar applications*", University of Žilina, Liptovský Mikuláš, Slovak Republic

·                     **Y. Nakato**, "*New Approach to High-Efficiency and Low-Cost Solar Cells to Chemical Conversion with a Semiconductor Electrode*", Graduate School of Engineering Science, Osaka University and CREST, JST, Osaka, Japan

·                     **I. Ohlídal**, "*Ellipsometry in characterization of thin films*", Masaryk University, Brno, Czech Republic

·                     **L. Ortega**, Laboratoire de Crystallographie du CNRS, Grenoble, France

·                     **P. Roca i Cabarrocas**, CNRS-LPICM Palaiseau, Paris, France

·                     **R.E.I. Schropp**, *"Thin film silicon cells and technologies"*, Debye Instituut, SID-Physics of Devices, Universiteit Utrecht, Utrecht, The Netherlands

·                     **P. Sladek**, *"Mechanical stability of the P-I-N solar cells studied by indentation method "*, PdF of Masaryk University, Brno, Czech Republic

·                     **E. Strub**, *"Characterization of Solar Cell Material by Heavy Ion Elastic Recoil Detection Analysis"*, Hahn-Meitner-Institut, Berlin, Germany

·                     **J. Sullivan**, *"PECVD deposition of thin diamond like carbon films at very low energies and high deposition rates "*, Electronics Research Institute, School of Engineering and Applied Science, Aston University, Birmingham, UK

·                     **J. Szuber**, Silesian University of Technology, Gliwice, Poland

·                     **P. Šutta**, "*Promising TCO materials for solar technologies as seen by X-ray diffraction*", University of West Bohemia, Plzeň, Czech Republic

·                     **M. Takahashi**, "*Defect passivation and improvement of solar cell characteristics by the use of new cleaning solutions*", Institute of Scientific and Industrial Research, Osaka University and CREST, JST, Osaka, Japan

·                     **T. Toyama**, "*Structural and electrical studies on plasma-deposited polycrystalline silicon thin films for photovoltaic application*" Faculty of Engineering Science, Osaka University, Osaka, Japan

·                     **K. Vojtěchovský**, "*Solar Wafer Production - Wire Saw Technology*" THEMIS a.s., Rožnov pod Radhoštěm, Czech Republic

·                     **G.P. Wei**, Shanghai University, Shanghai, China

·                     **J. Xu**, Nanjing University, Nanjing, China

·                     **S. Yanagida**, "*Novel and Practicable Dye Solar Cells based on Nanotechnology of Metal Oxides*", Osaka University, Center for Advanced Science and Innovation, Osaka, Japan

·                     **D.R.T. Zahn**, "*Photovoltaic Relevant Organic Molecular Layers and their Interfaces*", Institute für Physik, Technische Universität Chemnitz, Chemnitz, Germany

**Section 2 - 3**

·                     **L. Bánhidi**, Faculty of Mech. Eng., Budapest University of Technology and Economics, Hungary

·                     **J. Bartl**, "*Physical methods in preservation of the cultural heritage*", Institute of Measurement Science SAS, Bratislava, Slovak Republic

·                     **M. Budiaková**, "*Facade Photovoltaic Modules and their Energy Evaluation*", Faculty of Architecture, SUT, Bratislava, Slovak Republic

·                     **A. Ferko**, *"Measuring and Reconstructing Genius Loci - Virtual Heart of Central Europe "*, Comenius University, Bratislava, Slovakia

·                     **O.V. Frank-Kamenetskaya, V.G. Sorin**, *"Stock Company "Intarsiya". Influence of Saint Petersburg air on historical surface of cupper alloies monuments. New methods of control and conservation "*, Saint Petersburg State University, Russia

·                     **J. Hanus**, "*Knowledge of cultural heritage and application of chemistry and physics in its preservation*" Slovak National Archives, Bratislava, Slovak Republic

·                     **J. Havermans**, "*Evaluation of archival/library storages room related to the Dutch Archival Act*", TNO Environment & Geosciences, Delft, The Netherlands

·                     **J. Janca**, "*Plazmochemical regeneration of archaeological artefacts*" Czech Republic

·                     **Y. Keheyan**, "*...*" CNR, Istituto per lo Studio dei Materiali Nanostrutturati, ISMN, Dipartimento di Chimica, Roma

·                     **L. Pinčíková**, *"Geographical Information System of Monument Fund of Slovak Republic"*, Monuments Board of Slovak Republic, Bratislava; ECOVAST - national section Slovakia, Slovak Republic

·                     **M. Sarafin**, *"Experience and profit / Slovakian rural regions and geothermal energy"*, ATELIER DOMOVA - Architectural Studio, Bratislava, Slovakia

·                     **A. Spiegler**, *"Renewable Energy Use - Landscape and Rural Development"*, ECOVAST International, Vienna, Austria

·                     **M. Strlic**, *"..."*, University of Ljubljana, Faculty of Chemistry and Chemical Technology, Slovenia

·                     **D.Yu. Vlasov, O.V. Frank-Kamenetskaya**, *"Biodeterioration of rock monuments in urban environment: physical-chemical methods of control and preservation "*, Saint Petersburg State University, Russia

**LIST OF POSTERS**

**AFFILIATION OF AUTHORS OF THE FOLLOWING POSTERS OF THE LOW ENERGY BUILDINGS SECTION:
FACULTY OF ARCHITECTURE, SLOVAK UNIVERSITY OF TECHNOLOGY, BRATISLAVA, SLOVAK REPUBLIC**

1.      **Jana Hutková**: FLAT HOUSE WITH STARTING FLATS

2.      **Vojtech Vasaráb**: STUDIO HOUSE

3.      **Miroslava Kolimárová**: RELAX CENTRE – FOR MEN ONLY

4.      **Branislav Puškár**: HOTEL – KOLLÁR SQUARE

5.      **Alexandra Vrtáková, Zuzana Šimlaštíková**: CITY RELAX CENTRE

6.      **Jana Kvočíková**: RELAX CENTRE – CASCADA

7.      **Juraj Hriň**: CITY AQUAPARK

8.      **Branislav Rataj**: SMALL FLOOR RESIDENTIAL BUILDINGS

9.      **Matej Grébert**: WINE SHOP, BODEGA – SVÄTÝ JUR

10.  **Ján Bátora**: ONE FAMILY HOUSE – KAKTUS

11.  **Zuzana Šimlaštíková**: TEMPORARY HOUSING – ZIMNÝ PRÍSTAV

12.  **Zuzana Švikruhová**: RESIDENTIAL BUILDING

13.  **Daniel Rakyta**: PENSION – NAPOLEÓNSKY VŔŠOK

14.  **Eva Hajasova**: RELAX CENTRE – PLANÉTA

15.  **Zuzana Gabrišová**: FLAT HOUSE

16.  **Michaela Lörincová**: SLNEČNÉ JAZERÁ – TEMPORARY ACCOMMODATION

17.  **Tomáš Čechvala**: COFFEE-HOUSE, RESTAURANT – WAVE