

Conference - Interaction'2010

**“RADIATION INTERACTION WITH MATERIAL AND ITS USE IN TECHNOLOGIES
2010”**

20 – 23 September, 2010, Kaunas (Lithuania)

Conference location:

Hotel “Daniela”

Mickevičiaus str. 28,
LT-44311 Kaunas, Lithuania

More information: <http://www.danielahotel.lt>

PROGRAM

20 September (Monday), 2010

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| 12.00–15.00 | Registration (hotel “Daniela”) |
| 15.00–15.30 | Opening of the Conference |
| Session I | |
| 15.30–16.00 | MO-1 (Invited)
Jean Paul Riviere, Universite de Poitiers, France
Ion beam induced amorphization in intermetallic systems |
| 16.00–16.30 | MO-2 (Invited)
Pawel Zhukowski, Lublin University of Technology, Poland,
Formation of coilless induction in $(Co_{45}Fe_{45}Zr_{10})_{49.5}(Al_2O_3)_{50.5}$
nanocomposites |
| 16.30–17.00 | Coffee break |
| 17.00–17.30 | MO-3 (Invited)
Juozas Vaitkus, Vilnius University, Lithuania
A new cluster model in neutron irradiated silicon |
| 17.30–18.00 | MO-4 (Invited)
Alexander Pogrebnyak, Sumy State University, Ukraine
Structure and properties of hard and superhard nanocomposite coatings |
| 18.00–18.30 | MO-5 (Invited)
Darius Milčius, Lithuanian energy institute, Lithuania
Plasma based technologies for the development of hydrogen storage
materials |
| 19.00–22.00 | "Welcome party" |

Session IV

- 15.00–15.30 TO-10 (Invited)
Arturs Medvids, Riga Technical University, Latvia
Nano-cones formed on a surface of semiconductors by laser radiation: technology, model and properties
- 15.30–16.00 TO-11 (Invited)
Liudvikas Pranevicius, Vytautas Magnus University, Lithuania
Study of hydrogen separation from water vapour using plasma technologies
- 16.00–16.30 TO-12 (Invited)
Mindaugas Šilinskas, Otto von Guericke University Magdeburg, Germany
Hot wire chemical vapor deposition and characterization of Ge-Sb-Te thin films
- 16.30–16.50 TO-13
Alontseva Darya, East Kazakhstan State Technical University, Kazakhstan
The structural phase changes in Ni-based coatings deposited by plasma detonation and the results of coatings modification by duplex treatment
- 16.50–17.10 TO-14
Liutauras Marcinauskas, Kaunas University of Technology, Lithuania
Formation of amorphous carbon structures at atmospheric pressure
- 17.10–17.30 Coffee break**

Session V

- 17.30–18.00 TO-15 (Invited)
Juozas Gražulevičius, Kaunas University of Technology, Lithuania
Organic glass-forming photoconductors for optoelectronic applications
- 18.00–18.30 TO-16 (Invited)
Gintautas Abrasonis, Forschungszentrum Dresden-Rossendorf, Dresden, Germany
PVD growth of carbon-transition metal nanocomposites: from energetic condensation to spin-dependent transport
- 18.30–18.50 TO-17
Andrzej Misiuk, Institute of Electron Technology, Warsaw, Poland
Oxygen-related defects in neutron irradiated silicon admixed with germanium or nitrogen and processed at enhanced temperatures/pressures
- 18.50–19.50 PII - Poster session**
- 20.30–23.00 Conference dinner**

22 September (Wednesday), 2010

Session VI

- 9.00–9.30 WO-1 (Invited)
Janis Maniks, Latvia,
Modification of the structure and nano-mechanical properties of LiF crystals under irradiation with swift heavy ions
- 9.30–10.00 WO-2 (Invited)
Henryk Manikowski, Poznan University of Technology, Poland
Fluorescence of PET polymer induced by thermal and visible radiation
- 10.00–10.30 WO-3 (Invited)
Romuald Brazis, Centre for Physical Sciences and Technology, Vilnius, Lithuania
On the fundamental laws of light emission and absorption
- 10.30–10.50 WO-4
Andrius Martinavičius, Forschungszentrum Dresden – Rossendorf, Dresden, Germany
Interstitial nitrogen induced decomposition of austenitic stainless steel
- 10.50–11.10 WO-5
Lukasz Januszkiewicz, Technical University of Lodz, Institute of Electronics, Poland
The computer simulation of electromagnetic radiation interaction with human body

11.10–11.30

Coffee break

11.30–12.30

PIII - Poster session

Session VII

- 12.30–12.50 WO-6
Leonid Makarenko, Belarusian State University, Belarus
Distribution of vacancy and interstitial defects formed after argon and xenon implantation into silicon structures
- 12.50–13.10 WO-7
Aleksiayenak Yulia, JINR, Dubna, Russia
Biomonitoring of Cs¹³⁷ in moss from Belarus: 20 years after Chernobyl
- 13.10–13.30 WO-8
Lada Bumbure, Riga Technical University, Latvia
Focal spot size impact to digital X-ray image brightness statistics
- 13.30–13.50 WO-9
Vytautas Narbutas, UAB "Elintos matavimo sistemas", Lithuania
Thermovision Cameras for Research & Development
- 13.50–14.00** **Closing of the conference.**
- 14.00–15.00** **Lunch**
- 15.00–21.00** **Excursion**
- 21.00–22.00** **Dinner**

22 September (Thursday), 2010 – Departure