

# 9<sup>th</sup> International conference Solid State Surfaces and Interfaces

## Preliminary Program of the SSSI 2016 – Piešťany, hotel Signal

<b>Sunday, 20 November 2016</b>			
<b>Registration of participants in the hotel Signal: 16:00 – 20:00</b>			
<b>Monday, 21 November 2016</b>			
<b>7:30 – 10:30</b>	<b>Registration of participants (it will continue during whole day in the SSSI Registration office)</b>		
<b>10:30 – 10:50</b>	<b>Opening</b>		
<b>Moderator:</b>	<b>Prof. Thomas Chasse</b>		
10:50 – 11:30	Hikaru Kobayashi	High efficiency crystalline Si solar cells fabricated with new chemical technologies and Si nanopowder for hydrogen generation and photoluminescence.	Institute of Scientific and Industrial Research, Osaka University and CREST, Japan
11:30 – 12:10	Dietrich R.T. Zahn	Raman spectroscopy of semiconductor quantum dots	Technisch Universität Chemnitz, Chemnitz, Germany
<b>12:10 – 13:30</b>	<b>Lunch</b>		
<b>Moderator:</b>	<b>Prof. Hikaru Kobayashi</b>		
13:30 – 14:10	Nour-eddine Gabouze	Morphological and optical properties of stain etched silicon in vanadium oxide (V <sub>2</sub> O <sub>5</sub> ) / hydrofluoric acid (HF) solution	Unite De Development Technologie Silicium, Alger, Algeria
14:10 – 14:50	Gustáv Plesch	Arrays of photocatalytically active TiO <sub>2</sub> nanotubes on various substrates	FNS, Comenius University, Bratislava, Slovak Republic
<b>14:50 – 15:10</b>	<b>Coffee Break</b>		
15:10 – 15:50	Syed Ansar Md. Tofail	Electrically polarized interface	University of Limerick, Limerick, Ireland
15:50 – 16:30	Peter Bury	Acoustoelectric effect in semiconductor structures – expedient tool for interface states investigation by complex acoustic spectroscopy	FEE University of Žilina, Žilina, Slovak Republic
16:30 – 16:55	Tomas Roch	Influence of ex-situ annealing in Ar and O <sub>2</sub> atmospheres on structure of superconducting MgB <sub>2</sub> thin films	FMPI Comenius University, Bratislava, Slovakia
<b>18:00 – 21:00</b>	<b>Welcome party</b>		

<b>Tuesday, 22 November 2016</b>			
<b>7:30 – 9:00</b>	<b>Breakfast</b>		
<b>Moderator:</b>	<b>Prof. DRT Zahn</b>		
9:00 – 9:40	Thomas Chassé	Organic films for electronics and optoelectronics – reactions and interfaces	Institut für Physikalische und Theoretische Chemie, Universität Tübingen, Germany
9:40 – 10:20	Ratiba Outemzabet	Enhancement of the photoelectrochemical activity of doped tin dioxide film / chromate solution	Université des Sciences et de la Technologie Houari Boumedienne, Alger, Algeria
<b>10:20 – 10:40</b>	<b>Coffee Break</b>		
10:40 – 11:20	Jozef Novák	Environmental applications of gallium phosphide based nanowires	Institute of Electrical Engineering SAS, Bratislava, Slovak Republic
11:20 – 12:00	Alexander Kromka	Linear antenna microwave plasma: 4L technology for diamond growth	Institute of Physics of the ASCR, Prague, Czech Republic
<b>12:00 – 13:30</b>	<b>Lunch</b>		
<b>Moderator:</b>	<b>Prof. Nour-eddine Gabouze</b>		
13:30 – 14:10	Yossi Paltiel	Surface induced local magnetic order using chiral molecules Basic quantum physics and recent applications	Faculty of Science, The Hebrew University, Jerusalem, Israel
14:10 – 14:50	Štefan Chromik	The preparation and properties of MoS <sub>2</sub> two dimensional system prepared by different deposition methods	Institute of Electrical Engineering, SAS Bratislava, Slovak Republic
14:50 – 15:15	Stanislav Jurečka	Properties of nanocrystalline Si layers embedded in structure of solar cell	Institute of Aurel Stodola, FEE University of Žilina, Liptovský Mikuláš, Slovak Republic
<b>15:15 – 15:35</b>	<b>Coffee break</b>		
15:35 - 16:15	Joanna Bauer	Silver nanoparticles and silver-doped nanomaterials in medical applications	Wroclaw University of Technology, Poland
16:15 – 16:55	Wu Lu	Graphene Supercapacitors: Achieving Both High Energy Density and Power Density	Electrical & Computer Engr., United States
16:55 – 17:20	Sali Samira	Structural, optical and electrical properties of Nb doped TiO <sub>2</sub> thin film deposited by ultrasonic spray pulverization for solar cells applications	CRTSE—Division DDCS, Algiers, Algeria
<b>17:20 – 17:30</b>	<b>Coffee break</b>		
<b>17:30 – 19:30</b>	<b>Poster session with the refreshment</b>		

<b>Wednesday, 23 November 2016</b>			
<b>7:30 – 9:00</b>	<b>Breakfast</b>		
<b>Moderator:</b>	<b>Prof. Joanna Bauer</b>		
9:00 – 9:40	Harri Lipsanen	Fabrication and properties of novel III-V semiconductor nanowire structures	Department of Micro- and Nanosciences, Aalto University, Finland
9:40 – 10:20	Jun Xu	Electroluminescence and photovoltaic properties of Si quantum dots-based multilayers	School of Electronic Science and Engineering, Nanjing University, China
<b>10:20 – 10:40</b>	<b>Coffee break</b>		
10:40 – 11:20	Andrej Plecenik	Surface properties of high-Tc and middle-Tc superconducting thin films.	FMPI Comenius University, Bratislava, Slovakia
11:20 – 12:00	Nadia Saoula	TiOxNy coatings deposited by Radio frequency magnetron sputtering technique	Centre de Développement des Technologies Avancées, Alger, Algérie
<b>12:00 – 13:30</b>	<b>Lunch</b>		
<b>Moderator:</b>	<b>Prof. Taketoshi Matsumoto</b>		
13:30 – 14:00	Kentaro Imamura	High conversion efficiency black Si solar cells with a nanocrystalline Si layer	Institute of Scientific and Industrial Research, Osaka University and CREST, Osaka, Japan
14:00 – 14:40	Jan J. Dubowski	Detection of biomolecules with photocorrosion of GaAs/AlGaAs nano--heterostructures	Department of Electrical and Computer Engineering, Université de Sherbrooke, Quebec, Canada
14:40 – 15:05	Martin Kopani	Effect of HCN passivation on silicon oxide thin layer	Comenius University, Slovak Republic
15:05 – 15:45	Monika Kwoka	Title will be specified later	Silesian University of Technology, Institute of Electronics, Gliwice, Poland
<b>15:45 – 16:00</b>	<b>Coffee break</b>		
<b>16:00 – 23:30</b>	<b>Visit of Opera in Slovak National Theatre, Bratislava: opera of Giuseppe Verdi: La Traviatta and/or</b>		
<b>16:00 – 18:30</b>	<b>Conference trip and/or visit of Piestany spa</b>		
<b>18:30 – 21:00</b>	<b>Dinner</b>		

<b>Thursday, 24 November 2016</b>			
<b>7:30 – 9:00</b>	<b>Breakfast</b>		
<b>Moderator:</b>	<b>Prof. Harri Lipsanen</b>		
9:00 – 9:40	Taketoshi Matsumoto	Li ion battery with Si nanopowder fabricated from Si swarf	Institute of Scientific and Industrial Research, Osaka University, Osaka, Mihogaoka, Ibaraki, Japan
9:40 – 10:20	Dagmar Gregušová	Semiconductor surface processing for GaN-based normally-off transistors	Institute of Electrical Engineering SAS, Bratislava, Slovak Republic
<b>10:20 – 10:40</b>	<b>Coffee Break</b>		
10:40 – 11:20	Aarne Kasikov	Transferred CVD graphene on Si/SiO <sub>2</sub> substrate viewed by ellipsometry	Institute of Physics, University of Tartu, Tartu, Estonia
11:20 – 12:00	Grzegorz Jung	Low energy electron beam processing of superconducting YBCO thin films	Ben-Gurion University, Israel
12:00 – 12:25	Jarmila Müllerová	Optical properties of zinc titanate perovskite prepared by reactive rf sputtering	FEE University of Žilina, Žilina, Slovak Republic
12:25 – 12:50	Emil Pincik	Photoluminescence of porous and black Si	Institute of Physics, SAS, Bratislava, Slovak Republic
<b>12:50 – 13:00</b>	<b>Conclusion – results of competition of works of young researchers</b>		
<b>13:00 – 13:30</b>	<b>Lunch</b>		
<b>13:30 – 18:00</b>	<b>Excursion</b>		