PREFACE

9th SOLID STATE SURFACES AND INTERFACES, NOVEMBER 21-24, 2016, PIEŠŤANY, SLOVAKIA

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SSSI 2016 — was the 9th continuation of the series of international conferences Solid State Surfaces and Interfaces taking place usually in Slovakia. This event has been held in Piešťany in the hotel SIGNAL from 21 to 24 November 2016. As much as 85 participants took part on the event. <https://lm.uniza.sk/jurecka/konferencie/SSSI-2016/?str=6>

ORGANIZING INSTITUTIONS

- Institute of Physics SAS, Bratislava, Slovakia;
- Faculty of Mathematics, Physics, and Informatics, Comenius University, Bratislava, Slovakia;
- Institute of Aurel Stodola, University of Žilina, Slovakia;
- Faculty of Medicine, Institute of Medical Physics, Biophysics, Informatics and Telemedicine, Comenius University, Bratislava, Slovakia

CONFERENCE TOPICS

- Physics and chemistry of atomically clean surfaces
- Physics and chemistry of surface and interface defect states
- Physics and chemistry of ultra-and very-thin film growth

- Physics and chemistry of interfaces with ultra- and very-thin films
- Role of interfaces in LTS and HTS structures
- New approaches at formation and investigation of ultra- and very-thin films
- Low temperature plasma- and low energy ion-surface interactions related with formation of thin Films
- Nanotechnology and Nanostructured Materials
- Nanostructures in Cryoelectronics
- Single- and Multi-layer Based Devices and Applications
- Role of Negative Ions in Thin Film Growth
- Thin Film-based Photovoltaic and MOSFET Devices

The list of topics indicates that conference interests cover the development of basic theoretical physical and chemical principles and performance of surfaces, thin films, interface related procedures, and corresponding experimental research on atomic scale. Topical results are applied at development of new inventive industrial equip-

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ment(s) needed for investigation of electrical, optical, and structural properties and other parameters of atomic-size research objects. The conference range spreads from physical point of view, from fundamental research done on sub-atomic and quantum level to production of devices built on new physical principles. The conference topics include also presentation of principally new devices in following fields: solar cells, liquid crystal displays, high temperature superconductivity, and sensors. During the event special attention was given to evaluation of scientific and technical quality of works prepared by PhD students. Following young scientists were successful in the competition:

1. Tibor Ižák, Institute of Physics AS of Czech Republic, Praha, Czech Republic Title: Diamond/GaN heterostructures: Stress evaluation from top- and cross-sectional Raman measurements

2. Marek Pleva, Faculty of Mathematics, Physics and Informatics, Comenius University in Bratislava, Slovakia Title: Thermal stability and mechanical properties of Ti-B-Si-N coatings prepared by magnetron sputtering

3. Kentaro Imamura, Institute of Scientific and Industrial Research, Osaka University and CREST, Osaka, Japan Title: High conversion efficiency black Si solar cells with a nanocrystalline Si layer

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