

**Tuesday, October 10**

Head of session:

**Dr., Prof Volodymyr KOTSYUBYNSKYI, Ivano-Frankivsk, Ukraine**

**10-30**

**Invite report**

Feasibility of high performance in AIVBVI and AVBVI nano- and polycrystalline films for thermoelectric device applications

**Prof. Zinovi DASHEVSKY,**

Ben-Gurion University of the Negev,  
Beer Sheva, Israel

**11-15**

**Invite report**

Electronic and chemical surface properties of  $\text{Bi}_2\text{Se}_{3-y}\text{S}_y$ ,  $\text{Bi}_{1.993}\text{Cr}_{0.007}\text{Se}_3$  and  $\text{Bi}_2\text{MnSe}_4$  compounds

**Prof. Sandra GARDONIO**

School of Science, Materials Research Laboratory, University of Nova Gorica,  
Nova Gorica, Slovenija,

**12<sup>00</sup> – 12<sup>30</sup>      Coffee break**

**Session 1.**

**Thin films technology**

(metals, semiconductors, dielectrics, conductive polymers) **and their research methods**

**12-30**

**Advanced Nanoindentation in Vanadium Oxide Characterizations**

Speaker: **Dr. Petro LYTVYN,**

*V. Lashkaryov Institute of Semiconductors Physics, NAS of Ukraine, Kyiv, Ukraine*

*Lytvyn P.M., Dzhagan V.M., Valakh M.Ya., Korchovi A.A., Isaieva O.F., Stadnik O.A., Yukhymchuk V.O., Gudymenko O.Yo., Romanyuk B.M., Melnik V.P.*

*V. Lashkaryov Institute of Semiconductors Physics, NAS of Ukraine, Kyiv, Ukraine;*

**12-45**

**Effect of substrate bias on the properties of Al-doped ZnO films deposited by magnetron sputtering**

Speaker: **Dr. Arsenii IEVTUSHENKO**

Frantsevich Institute for Problems of Material Science, NASU, Kyiv, Ukraine

Ievtushenko A.I., Karpyna V.A., Bykov O.I., Olifan O.I., Mamykin S.V., Kolomys O.F., Strelchuk V.V., Lytvyn P.M., Korchovyi A.A., Tkach V.M., Starik S.P., Baturin V.A., Karpenko O.Y.  
(I. Frantsevich Institute for Problems of Material Science, NASU, Kyiv, Ukraine,; V. Lashkarev Institute of Semiconductor Physics, NASU, Kyiv, Ukraine; V.Bakul Institute for Superhard Materials, NASU, Kyiv, Ukraine; Institute of Applied Physics, NASU, Sumy, Ukraine)

**13-00**

**Problems of creation laser-induced thin films**

Speaker: **Dr. Petro TROKHIMCHUCK**

Lesya Ukrainka Volyn National University, Lutsk, Ukraine

Trokhimchuck P.

Lesya Ukrainka Volyn National University, Lutsk, Ukraine

**13-15**

**Structural and phase transformations in vanadium oxide under the ultrasound loading**

Speaker: **Dr. Mykola TYMOCHKO**

V.E. Lashkaryov Institute of Semiconductor Physics NAS of Ukraine, Kyiv, Ukraine

Tymochko M., Melnik V.P., Dubikovskiy O.V., Olikh Ya.M., Romanyuk B.M., Lepikh Ya.I.

(V.E. Lashkaryov Institute of Semiconductor Physics NAS of Ukraine, Kyiv, Ukraine; I.I. Mechnikov National University Odessa, Ukraine)