

IUVSTA
Thin Film Division
Roger De Gryse
Chairman

ECM-99
San Diego
April 29-30, 2006

**Report of the Thin Film Division activities
September 2005 – April 2006**

1. A mailing organised by the secretary, N. Radic, made clear that only a few members of the Thin Film Division will attend the ECM-99 meeting and the subsequent ICMCTF conference and as such, no meeting of the division has been planned on the occasion of ECM-99.

2. The TF division wishes to thank Prof. Barna for the ongoing organisation of the 48th IUVSTA Workshop entitled: “Influence of Trace elements on the Nucleation and Growth of Thin Films”.
 - ❖ The workshop is scheduled for August 26-31, 2006
 - ❖ The venue is: Hotel Agro Panorama Kft
1121 Budapest, Normafa út 54
The hotel is situated in the hills of Buda and has all facilities for hosting the workshop
 - ❖ Co-organiser: Roland Eötvös Physical Society
 - ❖ The board of directors of the workshop consists of:
 - Prof. Peter Barna; Research Institute for Technical Physics and Materials Science of the Hungarian Academy of Sciences.
 - Prof. Roger De Gryse; Department of Solid State Sciences, Ghent University.
 - Prof. György Radnoczi; Research Institute for Technical Physics and Materials Science of the Hungarian Academy of Sciences.
 - Prof. Frank Richter; Institut für Physics, T.U. Chemnitz.
 - ❖ At the ECM-98 meeting in Gumpoldskirchen it was not fully clarified what organisation would underwrite possible financial losses and the organisers wish to thank the AVS ASE Division for taking that responsibility. In the mean time Prof. Barna negotiated with the R. Eötvös Physical Society of Hungary and this society will assume all responsibility and will be helpful in solving all practical organisational problems.
 - ❖ The following *Keynote Lecturers* are planned (preliminary list):
 - Joe Greene**, University of Illinois, USA (accepted)
Effects of reactive gases on thin film nanostructural evolution and physical properties
 - P.B. Barna**, Research Institute for Technical Physics and Materials Science, Budapest, Hungary
Operation principles of trace elements in structure evolution of thin films as deduced from experimental results
 - M. Kotrla**, Institute of Physics Academy of Sciences, Praha, Czech Republic, (accepted)
Segregation of excessive species and their influence on monolayer crystal growth, MC simulation
 - R. Miranda**, Universidad Autónoma de Madrid, Madrid, Spain (preliminary acceptance, he is on vacation)
Operation of surfactants during structure evolution of thin films, experiments and simulation
 - Th. Michely**, RWTH Aachen, Aachen, Germany (accepted)
Effects of adsorbates on the monolayer crystal growth, STM studies
 - Y. Hirotsu**, Osaka University, Osaka, Japan (accepted)
Application of additives for promoting the formation and stabilisation of specific phases or variants in thin films
 - G. van Tendelo**, University Antwerpen, Antwerpen, Belgium (no response yet)

Microchemical and structural Characterization of minority phases of trace elements in the bulk of thin films

T. Watanabe, Tokyo Metropolitan University, Tokyo, Japan (no response yet)

Operation of additives at electrolytic deposition

J. Woltersdorf, Max Planck Institute of Microstructure Physik, Halle/S, Germany (no response yet, but he could receive the invitation recently)

Growth and structuring of graphitic interlayers in Si-C-O high-tech materials: Influence of transition metals.

3. ICTF-14 14th International Conference on Thin Films

- ❖ A local organizing committee is meeting monthly
- ❖ The conference is scheduled for 17-20 November 2008
- ❖ Venue: Ghent University Congress Facility “Het Pand” Ghent, Belgium
- ❖ About 300 participants are expected at most
- ❖ The Belgian Vacuum Society, BELVAC, started negotiations with the Dutch Vacuum Society, NEVAC, about a possible cooperation
- ❖ Main Topics
 - Thin film Growth
 - Surface/Interface Structures and properties
 - Deposition Techniques and Processes
 - Organic Thin Films
 - Reaction and Dynamics
 - Applied Thin Films: optical, magnetic, hard.... coatings
 - Characterization and Instrumentation
 - Bio surfaces
 - Nanostructured thin films
 - Molecular Assembly, Manipulation and Self organisation
- ❖ Website: <http://www.ictf14.ugent.be>
- ❖ E-mail: ictf14@UGent.be

4. I received a demand from Prof. Paolo Milani for sponsoring a workshop entitled: “Structure and Dynamics of free clusters and nanoparticles using short wavelength radiation”. In this respect I contacted all members of the TF division and all answers are in favour of this workshop. It looks a sound initiative, the application form is nearly complete and meets all the essential requirements for sponsoring.

Chairman TFD
R. De Gryse

Secretary TFD
N. Radic