

# **EBSD WORKSHOP**

## **PROGRAMME**

**MONDAY, November 3rd 2008**

**13.00 – 14.00**

Registration

**14.00**

Opening of the workshop

**14.10 – 14.30**

Few words about company COMTES FHT a.s. - Zbyšek NOVÝ

**14.30 – 15.00**

The latest developments in SEM and FE-SEM technology - Shunshuke ASAHINA,  
JEOL(EUROPE)SAS

**15.00 – 15.30**

Sample preparation using the JEOL Cross Section Polisher - Shunshuke ASAHINA,  
JEOL (EUROPE)SAS

**15.30 – 16.00**

COFFEE BREAK

**16.00 – 17.00**

Introduction to Electron Backscatter Diffraction - Keith DICKS, Oxford Instruments

**17.00– 18.00**

EBSD Applications - Keith DICKS, Oxford Instruments

**19.00**

**DINNER AT DOBRANY BREWERY**

## TUESDAY, November 4th 2008

**9.00 – 10.00** Practical demonstration for 5 – 6 participants

Lectures:

„Crystallographic contrast in back scattered electron image“ - Karel JUREK, Physical Institute CAS Prague

„Microstructure analysis of rapidly quenched nanocrystalline alloys by X-ray and electron microscopy methods“ – Peter SVEC (Sr.) + Peter SVEC (Jr.), Physical Institute SAS Bratislava, Slovakia

„Analysis of Ni alloys“ – Pavel PODANÝ, COMTES FHT a.s.

**10.00 – 11.00** Practical demonstration for 5 - 6 participants

Lectures:

„Application of electron back-scattering diffraction techniques for investigation of electrotechnical steels at IMR SAS“ – Volodymyr STOYKA, Institute of Material Research SAS

"EBSD measurements of the retained austenite content in TRIP steel during straining“ – Ondřej MAN, Brno University of Technology

„SEM in Materials engineering research, analysis and education“ – Jakub HORNÍK, Czech Technical University Prague

**11.00 – 11.30**

COFFEE BREAK

**11.30 – 12.30** Practical demonstration for 5-6 participants

Lectures:

„Study of the precipitation and its influence on the corrosion resistance of austenitic stainless steels“ – Mária DOMÁNKOVÁ, Slovak University of Technology, Bratislava

“Crystallization of B2-FeAl based alloys with carbon“ – Jaromír KOPEČEK, Physical Institute CAS Prague“

„Electron microscopy study of acid treated ground vermiculite from Santa Olalla, Spain“ – Jan ŠUBRT<sup>1</sup>, N. MURAFÁ<sup>1</sup>, J.L. Pérez-Rodríguez<sup>2</sup>, L.A Pérez-Maqueda - Institute of Inorganic Chemistry CAS, Řež

**12.30 – 13.30**

LUNCH

**13.30 – 14.30** Practical demonstration for 5-6 participants

Lectures:

“Imaging at low energy electrons with cathode lens system – application for material engineering” – Filip MIKA Institute of Scientific Instruments CAS, Brno

“The structure of core-shell Ge-nanowires “ – Mariana KLEMENTOVÁ, Institute of Inorganic Chemistry CAS, Řez

**14.30 – 15.30** Practical demonstration for 5-6 participants

Lectures:

The preparation of oriented samples from ferromagnetic shape memory alloy CoNiAl - Jaromír KOPEČEK, Physical Institute CAS Prague“

"Introducing X-Max: Large area SDD detectors enhancing the performance of your SEM/EDS combination." – Christina BECKER, Oxford Instruments

**15.30 – 16.30** Practical demonstration for 5-6 participants

Discussion

**16.30**

**Estimated workshop closure**