

# Workshop program

## Monday 23.03.2015

- 8.00-10.00 **Presentation**  
9.00-9.10 **Opening and welcome**  
Dr. Pavol Hvizdoš, director of the Institute
- 9.10-9.55 **Effect of Interfaces on Fractography of Sintered Steels**  
Prof. Lars Nyborg, Chalmers University of Technology, Sweden
- 9.55-10.40 **Understanding the Contribution of the Microstructure in the Fracture Behaviour of Sintered Steels**  
Prof. Jose M. Torralba, IMDEA Materials Institute, Universidad Carlos III Madrid, Spain
- 10.40-10.50 Coffee break**
- 10.50-11.35 **Fracture Micromechanics of a Sintered Cr-steel**  
Prof. A. S. Wronski, Kraków
- 11.35-12.20 **Fractography as a Tool for Evaluation of the Sintering Process Quality**  
Assoc.Prof. Eduard Hryha, Chalmers University of Technology, Sweden
- 12.20-13.30 Lunch**
- 13.30-14.15 **Fractography as a Tool for Failure Case Analysis: Practical Examples**  
Dr Magdalena Dlapka and Dr. Petro Shykula, Miba Sinter Group
- 14.15-15.00 **Role of Porosity in Fatigue of PM - Fracture Mechanics Approach**  
Dr. Michael Andersson, Höganäs AB, Sweden
- 15.00-15.15 Coffee break**
- 15.15-16.00 **Fatigue Consideration on PM Application**  
Mr. Fredrik Vinnerborg, Höganäs AB, Sweden
- 16.00-16.45 **Fractography of Brittle Materials**  
Prof. Ján Dusza, IMR SAS Košice
- 16.45-17.30 Discussion – round table**

## Tuesday 24.03.2015

- 8.30–9.15 **Fractography of Cyclically Loaded Sintered Materials**  
Prof. Herbert Danninger, Vienna University of Technology, Faculty of Technical Chemistry, Vienna Austria
- 9.15-10.00 **Fraktography of Steels Loaded at Elevated Temperature**  
Dr. Ladislav Falat, IMR SAS Kosice
- 10.00-10.10 Coffee break**
- 10.10-10.55 **Fractography of Sintered Steels I**  
Assoc. Prof. Eva Dudrová, IMR SAS Košice
- 10.55-11.40 **Fractography of Sintered Steels II**  
Assoc. Prof. Eva Dudrová, IMR SAS Košice
- 11.00-11.15 Coffee break**
- 11.15-12.30 **Visiting laboratories IMR SAS**
- 12.30-13.30 Lunch**
- 13.30-17.00 **Practical – SEM Laboratory**

## Wednesday 25.03. 2015

- 9.00-12.00 **Practical – SEM Laboratory**  
**12.00-12.10 Closing Remarks**