

WSC6:

**Neutron diffraction and neutron spectroscopies:
Instruments at the Budapest Neutron Center
(short course)**

Date: August 28, 2010 (post-conference IMA2010)

Location: KFKI CAMPUS - Budapest, 1121. Konkoly Thege Miklós út 29-33. Building XXI.

INTRODUCTION

09:00-09:30 Zsolt Révay:
Application of neutrons in the investigation of matter

STRUCTURE ANALYSIS

9:30-09:50 Margit Fábán:
Structure study from neutron diffraction measurements

09:50-10:10 Noémi Székely:
Nanoscale structure of cements and marbles seen by small angle neutron scattering

10:10-10:30 Márton Markó:
Atomic resolution neutron holography - finding impurity atoms in the crystal lattice

10:30-11:00 COFFEE BREAK

CHEMICAL ANALYSIS

11:00-11:20 Zsolt Révay:
Neutron Activation Analysis and Prompt Gamma Activation Analysis (NAA and PGAA)

11:20-11:40 Veronika Szilágyi:
Application of neutron activation analytical techniques in cultural heritage research

11:40-12:00 Katalin Gméling:
Geochemical result of gamma spectroscopy (NAA and PGAA)

12:00-14:00 LUNCH: Walking through the forest to have lunch in the Frank-hegyi Guesthouse

VISIT OF THE NEUTRON GUIDE HALL

14:00-15:30

Márton Markó:
Triple Angle Spectrometers and a high-pressure anvil cell

Noémi Székely:
Small angle neutron scattering (SANS)

Zsolt Kasztovszky:
Prompt-gamma activation analysis (PGAA)

Zsombor Sánta:
High-resolution time-of-flight diffractometer (TOF)