

## SEMINARIUM RENTGENOWSKIE

Dnia 22.01.2016r. o godz. 10.30, w sali D Instytutu Fizyki PAN, odbędzie się seminarium rtg., na którym **dr Damian Paliwoda** z European Synchrotron Radiation Facility (Grenoble, France) wygłosi referat, przygotowany w ramach projektu EAgLE, na temat:

### "ID15B – a New High Pressure Beamline for Single Crystal and Powder Diffraction"

#### **Streszczenie:**

High pressure beamline ID09A will soon be replaced by new ID15B white beam beamline according the ESRF Upgrade Programme.

The new station is going to be extended to a full beamline dedicated to diffraction experiments using diamond anvil cells on one canted undulator branch. ID15B will continue to use monochromatic diffraction with large area detectors on single crystals and powdered samples at high pressures in diamond anvil cells. It will provide variable beam sizes down to  $< 10 \mu\text{m} \times 10 \mu\text{m}$ , to study samples from a few GPa to approximately 200 GPa and higher, fixed energies at 30 and 50 keV and very high photon fluxes of  $\sim 10^{13}/\text{sec}$ . It will continue to offer state of the art optical systems for additional *in situ* characterisation of the samples at high pressure (Raman, etc.). In addition it will offer improved sample environment and both a better temporal and spatial resolution through the use of new and improved area detectors.

A brief description of ID15B setup and characteristics is going to be presented.

Prof. dr hab. Krystyna Jabłońska  
Prof. dr hab. Wojciech Paszkowicz