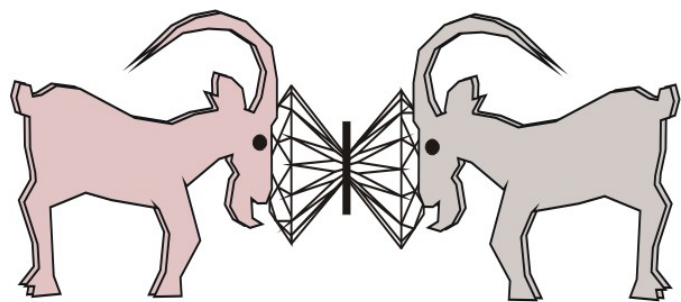


**High-Pressure  
Single-Crystal  
Diffraction Workshop**  
13-16 April, 2008  
Faculty of Chemistry  
Adam Mickiewicz University, Poznań



**HIGH-PRESSURE DIFFRACTION IN POZNAŃ**

**Local Organizing Committee**

Andrzej Katrusiak (chairman), Małgorzata Ratajczak-Sitarz, Armand Budzianowski, Maciej Bujak, Marcin Podsiadło, Anna Olejniczak, Roman Gajda, Hanna Piotrowicz

The Frolic Goats Workshop on High-Pressure Single-Crystal X-Ray Diffraction using laboratory equipment will consist of a series of general lectures and hands-on laboratory exercises. Its primary goal is to disseminate practical skills allowing one to perform high-pressure experiments in an x-ray lab, and to outline possibilities to continue one's studies at dedicated high-pressure beamlines in synchrotrons, nuclear reactors, and spallation sources.

Modern x-ray diffraction equipment installed in most laboratories can be used for high-pressure experiments straightforwardly, or after few minor modifications – these modifications can be as simple as mounting a shorter collimator and re-positioning the beam-stop to provide space for the diamond-anvil cell (DAC). The DAC is a simple and relatively cheap device, so crystal structures in high pressure can be studied in most x-ray labs.

**Registration**

Because of the available laboratory space and equipment, the number of participants will have to be limited. The application should be e-mailed to [hannap@amu.edu.pl](mailto:hannap@amu.edu.pl). The candidates will be accepted on the basis of geographical distribution and dates of application. The registration costs will be covered by Organizers and provision will be made for convenient accommodation.

**Venue**

The workshop will be held at the Faculty of Chemistry, Collegium Chemicum, Adam Mickiewicz University, ul. Grunwaldzka 6, 60-780 Poznań.

The historical building of Collegium Chemicum (PEWUKA, Governmental Palace) is located close to the accommodation, Main Railway Station (1.0 km) and to the Old Market (medieval center of the city, 2.0 km).

**Accommodation**

Accommodation of various standards is conveniently located close to the Collegium Chemicum:

- Sheraton Hotel ul. Bukowska 3/9 (200 m from Collegium Chemicum) *ca.* 170 Euro/600 złotych ([online reservation](#))
- Jowita ul. Zwierzyniecka 7 (200 m from Collegium Chemicum)
  - bed & breakfast *ca.* 17 Euro/60 złotych
  - apartament *ca.* 33 Euro/120 złotych
- Frolic Goats Hostel ul. Wroclawska 16/6 – bed & breakfast; *ca.* 50 Euro/200 złotych ([online reservations](#))

Organizers can assist in booking rooms in Jowita, whereas Sheraton Hotel and Frolic Goats Hostel booking and payments should be arranged by participants themselves.

**Travel**

Poznań can be easily reached through its [airport](#), [railways](#), and [roads](#). Consult your travel agent or contact us for advice.

## *Weather*

In Poznań we enjoy moderate climate, usually warm and sunny in early Spring, although a jacket and umbrella can prove useful.

## **Programme of the Workshop**

**13.IV.2008**

Arrivals

**14.IV.2008**

- 8:30 Registration (Collegium Chemicum, first floor, room 24)
- 9:00 Opening Ceremony
- 9:10 Lecture 1 – Diamond-anvil cell (DAC) design and operation
- 11:00 Lecture 2 – Single-crystal diffractometry with a DAC
- 14:30 – 18:30 Laboratory exercises in groups

Lab 1: DAC preparation, loading, pressure calibration

Lab 2: X-Ray diffraction experiments with a DAC

**15.IV.2008**

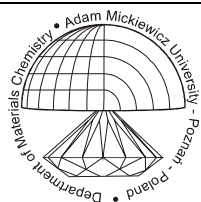
- 9:00 Lecture 3 – Solution and refinement of high-pressure structures
- 11:00 Lecture 4 – High-pressure in materials sciences
- 14:30 – 18:30 Laboratory exercises in groups

**16.IV.2008**

- 9:00 Lecture 5 – High-pressure complementary techniques
  - 10:30 Concluding remarks
  - 11:00 Closing ceremony
- Departures.



The frolic goats (Bartłomiej of Gubin, 1551) at high noon on the Poznań Town Hall.



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Sponsors: **Oxford Diffraction**, **Bruker Polska**,  
**Faculty of Chemistry, Adam Mickiewicz University**