

Crystallographic Association, Regional committee of IUCr,  
Institute of Biotechnology of the Czech Academy of Sciences, BIOCEV



# 301.MEETING

## of the Czech and Slovak Crystallographic Association

Meeting is dedicated to the methods for molecular structure studies available in the new scientific centers BIOCEV and ELI

**Date:** Wednesday, April 26, 2017  
**Place:** BIOCEV, Průmyslová 525, Vestec - Conference hall

### PROGRAM

- 9.00 - 9.30** Joel. L. Sussman, Jamie Prilusky - Proteopedia - a world-wide source of knowledge of structure and function of proteins.  
**9.30 - 9.50** Bohdan Schneider - Structural dynamics of biomolecular systems, a joint ELI - IBT project  
**9.50 - 10.10** Borislav Angelov, Jacob Andreason - Present state and future of the X-ray diffraction station at ELI Beamlines  
**10.10 - 10.30** Jan Dohnálek - The Czech Infrastructure for Integrative Structural Biology (CIISB)  
**10.30 - 10.50** Jiří Pavlíček - Center of Molecular Structure in BIOCEV
- 10.50 - 11.10** Coffee break
- 11.10 - 11.30** Jindřich Hašek - Distribution of the software package "ENTERPRISE" provided by the Cambridge Crystallographic Data Center in the Czech Republic  
[www.ccdc.cam.ac.uk/solutions/rsd-enterprise](http://www.ccdc.cam.ac.uk/solutions/rsd-enterprise)
- 11.30 - 11.50** Petr Pompach - Structural Mass Spectrometry (XR FT-ICR, MALDI, HPCL)  
**11.50 - 12.10** Aleš Benda - Imaging methods  
**12.10 - 12.30** Zdeněk Lánský - Measurement of intermolecular interactions - "optical tweezers"
- 12.30 - 13.30** Lunch - choice of 5 meals. Restaurant vouchers accepted.

### EXCURSION TO THE BIOCEV LABORATORIES

**13.00 - 15.30** Excursion to the BIOCEV laboratories, information on possible measurements and cooperation

1. Source of X-rays with liquid anode METALJET, diffractometer BRUKER with kappa geometry, area detector PHOTON-2. Diffraction measurement directly from crystallization plate. Crystallization hotel FORMULATRIX (Jiří Pavlíček)
2. Dynamic light scattering in microliter drops (IN-DROP DLS) (Karla Fejfarová)
3. Structural Mass Spectrometry (Petr Pompach)
4. Imaging techniques - Electron microscopy with ion beam milling, optical microscopy with high resolution, fluorescence methods (Aleš Benda, Adam Schrofel).
5. Optical tweezers - Piconewton forces, nanomicro movements (Zdeněk Lánský)

### HOW TO GET THERE?

Adress: BIOCEV, Průmyslová 595, Vestec, Czech Republic [www.biocev.eu](http://www.biocev.eu)

#### CAR:

There is large parking place in the Biocev area for visitors for free.

#### PUBLIC TRANSPORTATION - BUS:

- 1) bus 326 - bus stop BIOCEV
- 2) buses 332, 327 - bus stop Vestec-Safina (700m from BIOCEV)

#### TRAIN:

- 1) Main railwaystation (underground station Hlavní nádraží C, red) - Opatov (C) - bus 326
- 2) Main railwaystation (underground station Hlavní nádraží C, red) - Budějovická (C) - bus 332 or 337.

