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/csd-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, nanomicron movements (Zdeněk Lánský)

HOW TO GET THERE?

Adress: BIOCEV, Průmyslová 595, Vestec, Czech Republic 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.

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