Workshop „Correlative microscopy of beam sensitive samples“
1st November 2018
Institute of Scientific Instruments, Czech Academy of Sciences, Královopolská 147, Brno (map)

Preliminary program (for the updated schedule see http://info.isibrno.cz/bioem/workshop.pdf):

8:00 – 8:20 Registration
8:20 – 8:30 Welcome (Vladislav Krzyžánek)
8:30 – 10:00 Morning session 1
  Thomas Heuser (Vienna Biocenter Core Facilities, Vienna/AT):
  Introduction to Cryo-EM and cryo-FIB-SEM
  Dimitri Scholz (University College Dublin, Dublin/IR):
  New developments in 3D and correlative microscopy
  Zuzana Burdikova (Geisel School of Medicine at Dartmouth, Hanover/USA):
  Insight into physico-chemistry of dairy products by advanced microscopic techniques

10:00 – 10:30 Coffee break
10:30 – 12:00 Morning session 2
  Marie Vancová (Biology Centre, Czech Academy of Sciences, České Budějovice):
  Biological applications of cryo-SEM in CLEM
  Oldřich Benada (Institute of Microbiology, Czech Academy of Sciences, Praha):
  MALDI-Imaging and Scanning Electron Microscopy in an Invasive Aspergillus
  Miroslav Šlouf (Institute of Macromolecular Chemistry, Czech Academy of Sciences, Praha):
  Preparation and micromechanical properties of new types of embedding resins
  Ota Samek (Institute of Scientific Instruments, Czech Academy of Sciences, Brno):
  Combined Raman spectroscopy and SEM for characterization of microorganisms

12:00 – 13:00 Lunch break
13:00 – 15:00 Afternoon session
  Markéta Dalecká and Aleš Benda (BIOCEV, Vestec u Prahy):
  Examples of correlative light and electron microscopy on cells from IMCF at BIOCEV
  Petr Sediláček (Materials Research Centre, Brno University of Technology, Brno):
  Contribution of EM to understanding flow and barrier performance of hydrogels
  Radim Skoupý (Institute of Scientific Instruments, Czech Academy of Sciences, Brno):
  Multi-detector imaging in SEM
  Jana Nebesářová (Biology Centre, Czech Academy of Sciences, České Budějovice):
  High pressure freezing: the crucial step in CLEM procedures
  Vladislav Krzyžánek (Institute of Scientific Instruments, Czech Academy of Sciences, Brno):
  Developments and new possibilities at BioEM lab

15:00 – 15:15 Coffee break
15:15 – 17:00 Lab tour (HPF, cryo-SEM, Raman spectroscopy, optical tweezers...)

Registration: https://goo.gl/VFR6kZ (deadline 25.10.2018)
Questions: Kamila Hrubanová (hrubanova@isibrno.cz) / Vladislav Krzyžánek (krzyzanek@isibrno.cz)

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