



AFM WORKSHOP

NANOSCALE WITH AFM

17TH - 18TH OCTOBER 2022

THIS WORKSHOP IS REALIZED IN COOPERATION OF CEITEC NANO WITH COMPANY MT-M

FOR WHO?

This workshop is intended especially for AFM users (beginners or intermediate level) or for anyone who is interested in this topic

HOW TO PARTICIPATE?

Register on CEITEC website and pay for the participation fee:

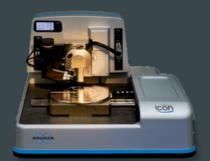
- 1) Academic users seminars only: 605 CZK, seminars + hands-on: 1 210 CZK (including lunch and refreshment)
- 2) Commercial users seminars only: 1 210 CZK, seminars + hands-on: 2 420 CZK (including lunch and refreshment)

REGISTRATION DEADLINE OCTOBER, 12

Capacity of practical measurements is very limited! (Participants out of Brno will be preferably placed in the morning group)

WHERE SHOULD I COME?

CEITEC NANO RI PURKYŇOVA 123 BUILDING C MEETING ROOM C2.11









OCTOBER, 17

09:00 - 09:15 CEITEC CORE FACILITY

09:15 - 09:45 TECHNICAL BACKGROUND OF AFM (BASIC

PRINCIPLES, PIEZO ELEMENTS, PROBES AND FEEDBACK SETTINGS)

09:45 - 10:15 CONTACT MODE AFM

(PRINCIPLES, PARAMETERS SETTINGS, LATERAL FORCES MICROSCOPY)

10:15 - 10:30 COFFEE BREAK 1

10:30 - 11:00 TAPPING MODE AFM

(PRINCIPLES, PARAMETERS SETTINGS, PHASE IMAGING)

11:00 - 12:00 ELECTRICAL PROPERTIES IN NANOSCALE USING

AFM (CONDUCTIVITY, SURFACE POTENTIAL, MAGNETIC

MEASUREMENT)

12:00 - 13:00 LUNCH BREAK

13:00 - 14:45 MECHANICAL PROPERTIES IN NANOSCALE USING

AFM (FORCE CURVES, SCANASYST, PEAKFORCE QNM)

14:45 - 15:00 COFFEE BREAK 2

15:00 - 15:15 AFM IMAGE QUALITY IMPROVEMENT

15:15 - 16:00 AFM IMAGE ANALYSIS

17:00 - 21:00 INFORMAL CITY TOUR

OCTOBER, 18

09:00 - 12:00 HANDS-ON / GROUP 1 (CEITEC NANO LABORATORIES)

12:00 - 13:00 LUNCH BREAK

13:00 - 16:00 HANDS-ON / GROUP 2 (CEITEC NANO

LABORATORIES)

*REFRESHMENT WILL BE AVAILABLE IN A SMALL MEETING ROOM DURING PRACTICE BLOCKS



