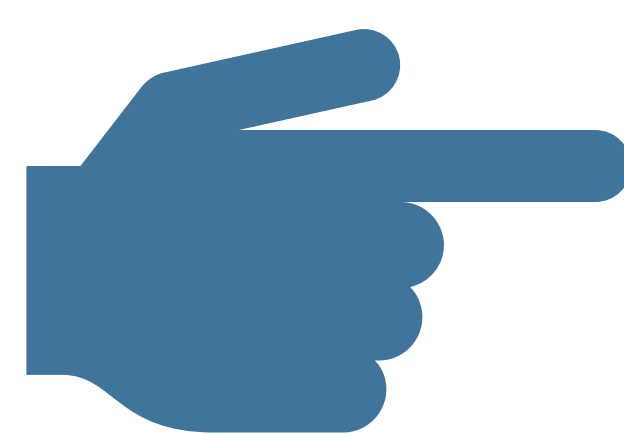


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SUMMER SCHOOL FOR NANOMATERIALS 2025

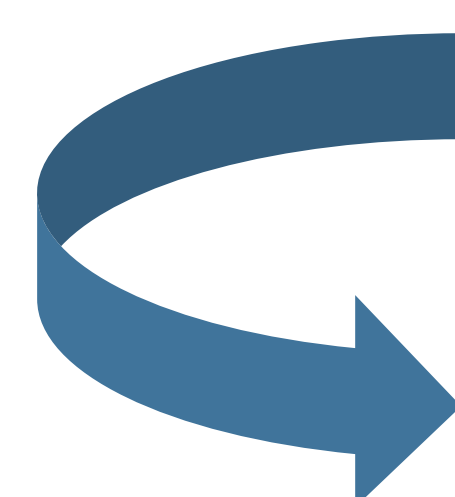
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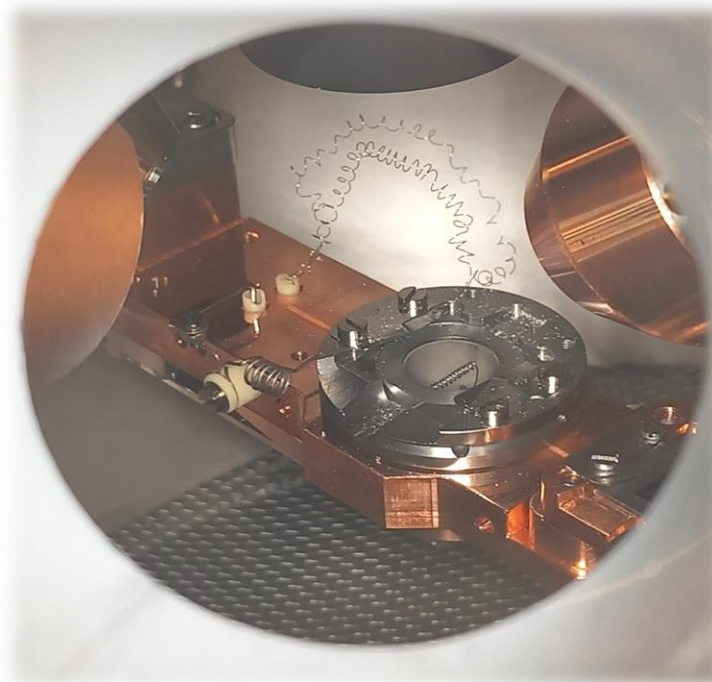


SUMMER SCHOOL TOPICS

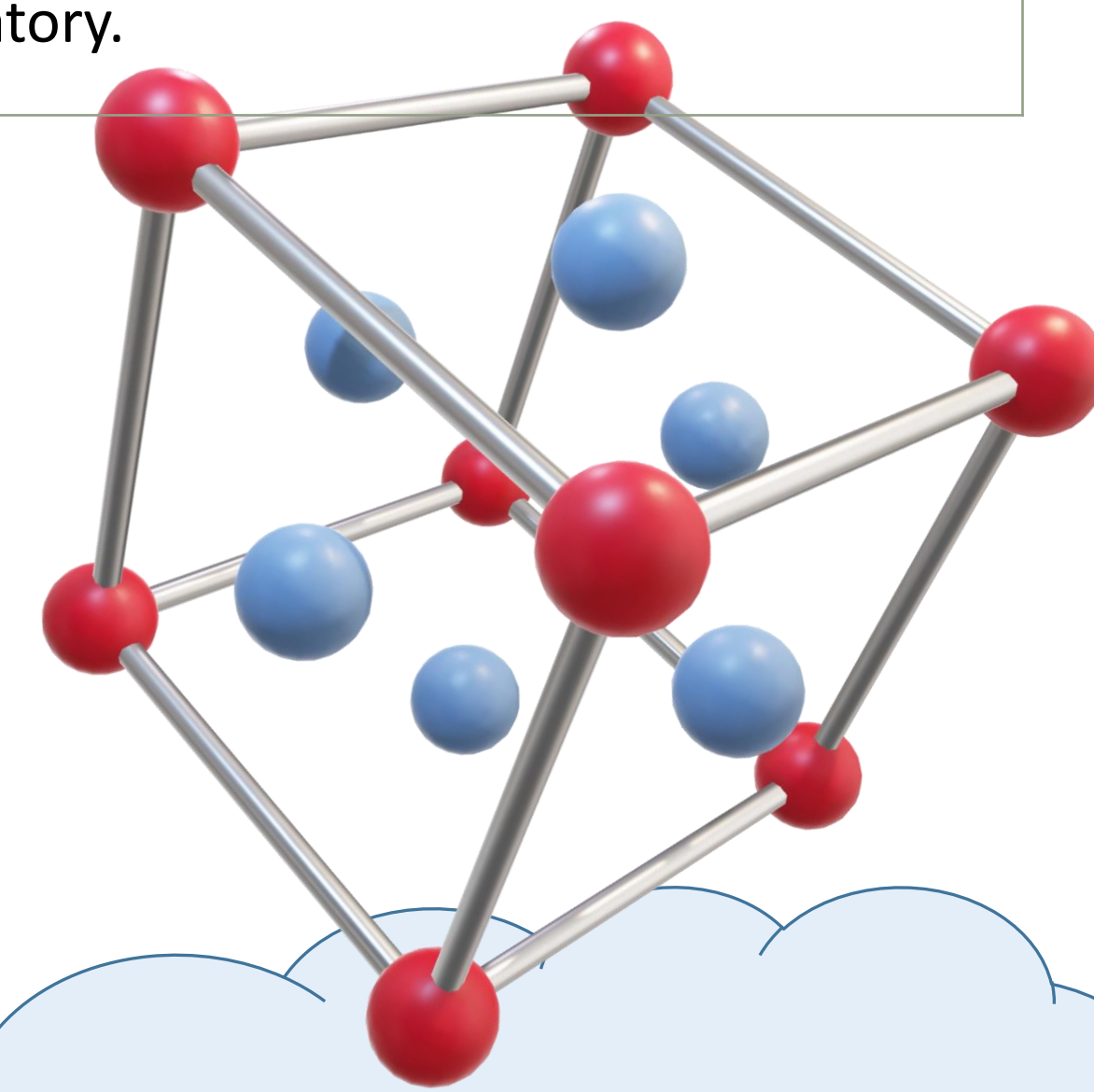
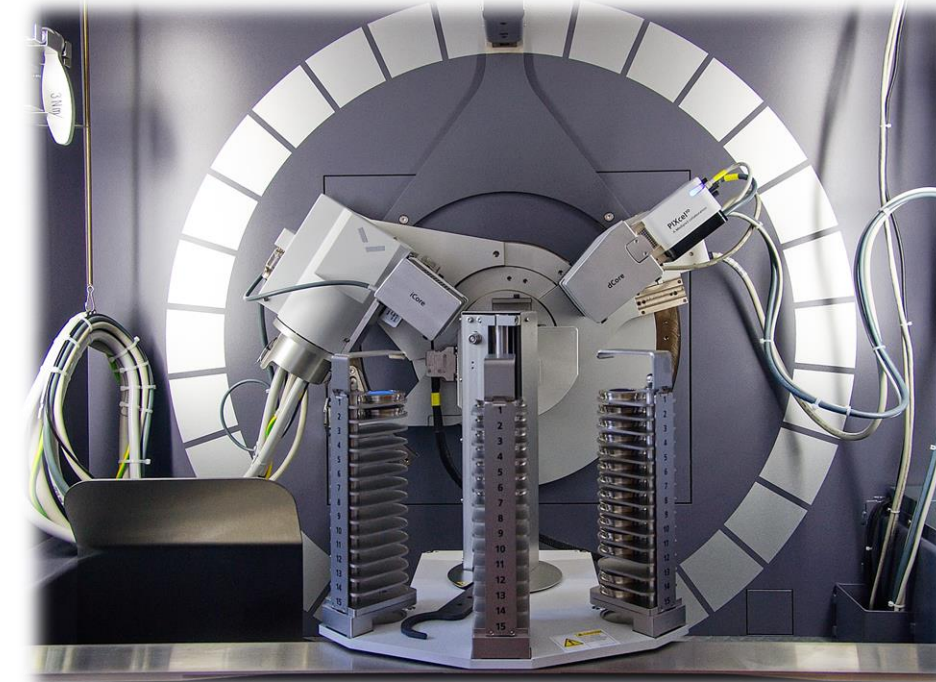
DATE	CITY	VENUE	TITLE	SHORT DESCRIPTION
2. 9. 2025	Liberec	Technical University of Liberec	Revealing Nanomaterial Secrets with Solid-State NMR Tiny Traces, Big Insights: HPLC/MS	Preparation of samples for NMR measurements, giving hands-on experience for the methods and processes needed for each type of NMR measurements. Quantification of a tablet's active ingredient and the non-target analysis will be demonstrated by attempting to identify degradation products of the active ingredient.
4. 9. 2025	Olomouc	Palacký University	The Boundaries of the Nanoscale World through the Optics of Electron Microscopy Supercapacitors: The Future of Energy Storage Applications	Preparation of samples at the nanoscale for three microscopic methods: TEM, SEM, and AFM, with participation in their measurement followed by the result comparison and evaluation of the benefits and limits of individual measurements. The participants will be involved in preparing supercapacitor cells and testing them using modern battery testing equipment, including both small and large potentiostats.
8. 9. 2025	Ústí nad Labem	Purkyně University Faculty of Environment Faculty of Science	Identification of PAHs in Soils by GC-MS Measurement of Heavy Metal Content in Contaminated Soils Using ICP-MS Polymer Nanofiber Membrane Prepared by Electrospinning Technology	Preparing samples from contaminated soils for both qualitative and quantitative analysis of polycyclic aromatic hydrocarbons. Preparing samples from contaminated soils for the qualitative and quantitative analysis of heavy metals. Preparation of nanofiber materials using electrospinning technology from polymer solutions and their subsequent treatment and use.
9. 9. 2025	Řež	Institute of Inorganic Chemistry, CAS	Monitoring of Degradation of Environmental Pollutants Complex Analyses for Monitoring of Structural Changes	Preparation of samples for TEM and SEM characterization and study of kinetic of environmental pollutants' degradation by HPLC/DAD. Preparation of nanomaterial samples and their characterization using FTIR and X-ray powder diffraction before and after thermal analysis.
10. 9. 2025	Praha 8	J. Heyrovský Institute of Physical Chemistry, CAS	Photocatalytic Water Purification Preparation and Characterization of Low-dimensional Materials in the Cleanroom Environment	Realization of demonstration experiment showing the efficiency of heterogenous photocatalysis in the degradation of an important aqueous pollutant, including all procedures from catalyst preparation and sampling to the treatment of kinetic data. Lithographic preparation of electrode systems followed by surface modification using RF plasma and basic AC/DC characterization of low-dimensional materials.
11. 9. 2025	Praha 4	Institute of Experimental Medicine, CAS	Best Practices for Working Safely with Nanomaterials in Research Laboratories In vitro Toxicity Testing of Nanomaterials	Theoretical introduction as well as practical demonstration of nano-safety. Practical demonstration of sample toxicity tests in laboratory.

All university and technical school students are welcome!

We are the Czech large research infrastructure providing services in the field of nanoparticles, nanocomposites and nanotechnologies:



- synthesis
- characterization
- tuning the functional properties
- testing the functionality
- monitoring toxicity and hazard



More information:
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PROJECT PARTNERS



Palacký University
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