

## 19.5.2025 08:00 - 13:00 TRIPS



### 1. Excursion to Glassworks & Tavern AJETO in Lindava (approx. 90-minute excursion)

- Departure by pre-booked bus from the congress venue at 9:00
- Return around 12:30
- participants only pay the **excursion fee of 150 CZK, max. 25 participants, the pre-booked bus for max. 18 participants**

### 2. Hike to Ještěd (organized group)

Public transport + walk along the blue trail to Ještěd

- Walk from the hotel to the Fügnerova tram stop – 10 minutes
- Take tram no. 3 in the direction of Horní Hanychov, get off at Horní Hanychov – 15 minutes (departure times: 8:01 / **8:17** / 8:37 / 8:57 / 9:17)
- Hike a circular route along the blue trail + Padáky educational trail
- Map: <https://mapy.cz/s/hohugecepa>
- Total time hotel–Ještěd–hotel: 4 hours 20 minutes
- Return around 13:00



## 21.5.2025 09:00 - 10:00 WORKSHOPS

### 1. SVEN + Hana Polášek-Sedláčková: ScanR workshop: Basics of high-content imaging

ScanR high-content screening station delivers advanced imaging capabilities to obtain high-quality and quantity data in a short amount of time. The scanR system offers fully automated image acquisition and data analysis of biological samples through deep-learning technology. During the workshop, we will showcase the key features of the system and demonstrate examples of single-cell and molecule acquisition and analysis.

## 2. yCSMS session: LiftOff: Launching Early Careers in Microscopy and Science

This section offers a supportive platform for early-career microscopists from all fields of science to present their work. The session also features an inspiring talk by an experienced scientist, followed by a discussion that encourages the audience to ask not only about science but also about the challenges of pursuing a scientific career. Both early-career and experienced scientists are welcome to join the session, share perspectives, and engage in an open dialogue!

**LiftOff** is designed to motivate, connect, and empower the future of science.

### 21.5.2026 14:30 - 16:00 EXCURSIONS and hands-on WORKSHOP

**Only 1 option is available.** Transportation for excursions within Liberec is to be arranged individually. For the excursion to Turnov, a pre-booked bus for 18 participants will be available.

**Departure from the hotel is 14:00.**

## 1. CXI TUL: Institute for Nanomaterials, Advanced Technologies and Innovation

- [3D Technologies Department](#)

The department focuses on R&D in additive manufacturing and 3D printing using state-of-the-art technologies for processing both metal and polymer materials. We specialize in the preparation of 3D CAD data, optimizing geometries for additive manufacturing technologies, including considerations for load-bearing performance. Special attention is also given to post-processing operations in order to enhance the functional properties of 3D-printed products.

- [Microscopy Laboratory](#)



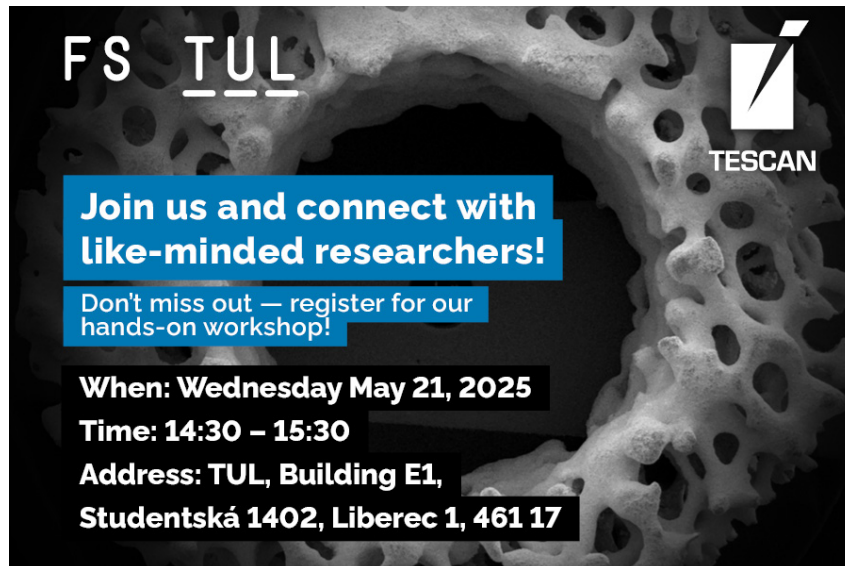
The lab focuses on microscopic, chemical, and crystallographic analysis aimed at structural characterization, phase identification, fractography, and defectoscopy. We also support student theses and collaborate on research with academia and industry. We offer the analysis of micro and nanomaterials, composites, thin films, intermetallics, iron and non-ferrous metal alloys, polymer materials, geopolymers and natural materials. Our activities include particle size measurements, determining composition, identifying material defects and the causes of failure in machine components, distribution, and statistical processing of results for material research purposes.

- [Nanofiber Preparation Laboratory](#)

The lab specializes in optimizing the production of flat nanofiber membranes tailored to the specific requirements of final applications using the electrospinning method. The facility is equipped with a Nanospider™ NS1WS500U electrospinning device, which enables production of nanofiber layers up to 0.5 meters in width. We can achieve high quality and uniformity of the nanofiber layers. The laboratory is also equipped with a system for producing composite nanofiber yarns. The prepared nanofiber layers and composites are further utilized by specialized departments within CXI or by commercial partners, primarily for applications in filtration, acoustics, and medicine.

## 2. TESCAN workshop at the Technical University of Liberec — hands-on workshop where innovation meets real-world application

- High-resolution analytical SEM - TESCAN MIRA - EBSD weld showcase
- Analytical SEM - TESCAN VEGA - waste from carbon composite processing



## 3. CRYTUR, spol. s r.o. (Turnov)

Crytur is the provider of integrated solutions with application in electron microscopy, lasers, detection and high-power lighting for hi-tech industry and research. The Lab Tour will take you through the process of growing of synthetic garnet crystals, precision material processing, clean-room assembly of integrated opto-electronic devices and high-precision CNC workshop in the brand-new manufacturing premises in Turnov. [More info](#)



## 4. Institute of Plasma Physics of the CAS: toptec (Turnov)

Explore Innovative Optics at TOPTEC! Interested in precision optics and real-world applications of optical research? Visit TOPTEC, a specialized center of the Czech Academy of Sciences, located in Turnov – a town with a long tradition in optics. At TOPTEC, we develop high-precision optical systems for space, industry, and scientific research. Take a closer look at how optics shape modern technologies, from astronomy to advanced manufacturing. Our experts will introduce you to exciting projects and the unique challenges of designing and producing specialized optical components. Don't miss this opportunity to explore a research facility where science meets practical innovation. Join us at TOPTEC and see how optics make a difference! [More info](#)