

Science Meetup MATUR 2025

January 27, 2025

Lecture hall UA4

09:30 – 10:00 Coffee break

10:00 – 11:30 Lecture block

HYBRID SILICATE MATERIALS AND THEIR TECHNOLOGICAL APPLICATIONS

PETR MIARKA

Damage localisation in fresh cement mortar using a time-lapse X-ray μ CT imaging

VLASTIMIL MATĚJKA

Self-cleaning surfaces of building materials prepared using graphitic carbon nitride

VLASTIMIL BÍLEK

Frost resistance of alkali-activated concrete with different compositions

EVA BARTONÍČKOVÁ

Recycling of Refractory Materials for Applications in Additive Manufacturing

11:30 – 11:45 Break

11:45 – 13:15 Lecture block II.

MATERIALS AND TECHNOLOGIES REDUCING THE ENVIRONMENTAL IMPACT OF USED INDUSTRIAL PRODUCTS

GABRIELA KRATOŠOVÁ

Advancing Sorbent Materials: Cutting-Edge Designs for Efficient Metal Recovery

GRAŽYNA SIMHA MARTYNKOVÁ

Building a Sustainable Future Through Battery Recycling: Progress, Challenges, and Opportunities

MICHAL WEISZ

Renovation - possibilities for secondary use of automotive parts

13:15 – 14:00 Snack (banquet)

14:00 – 15:00 Laboratory visits

StudentCar, building K

3D print of refractory mixtures materials, building N, room N408

3D print of ceramic clay, building N, room N102