



DEAR GUESTS WELCOME!

26th September 2022

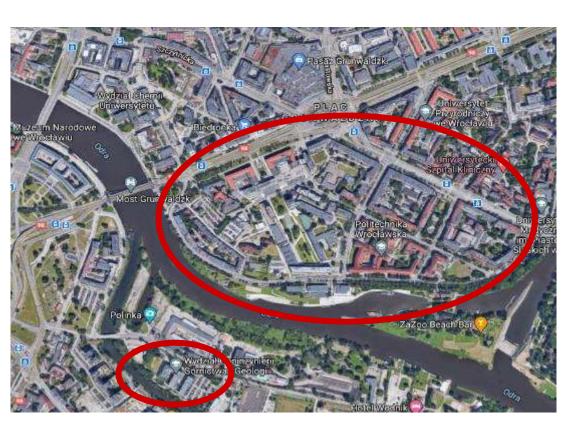
GENERAL INFORMATION

about the campus of Wrocław University of Science and Technology (WUST) and the Faculty of Geoengineering, Mining and Geology.



Wrocław University of Science and Technology

The University is using its current name since 1945. It was established and organised by scientists from Lviv and Warsaw. Since the very beginning of its existence, it has been an important centre of technical education.



Today it is one the best technical universities in Poland:

24 984 students study here under the guidance of over 2 100 academic teachers, at 13 Faculties in Wrocław and 3 branches in Jelenia Góra, Legnica, Wałbrzych















Faculty of Geoengineering, Mining and Geology





Discover our Faculty

- The Faculty was established in 1968
- ➤ In February 2013 we moved to the new Geocentrum building
- Since November 2019 we have a new laboratory building GEO-3EM beside Geocentrum
- ➤ The GEO buildings are connected with the main WUST campus by a cable car
- Our campus is close to the city center but it is very green and quiet



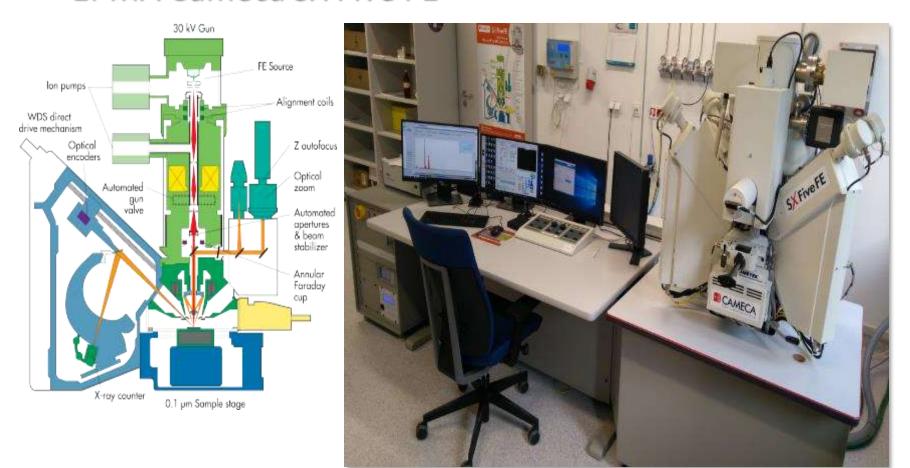


GEO-3EM - ENERGY ECOLOGY EDUCATION

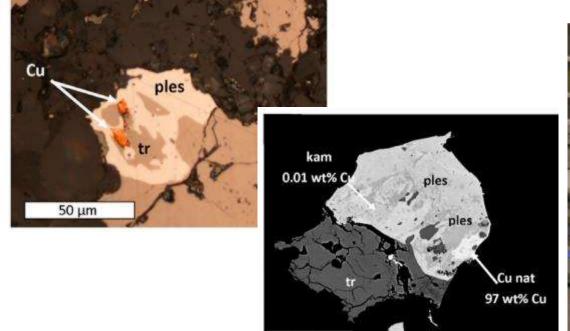
- Laboratory of Earth Sciences and Mineral Engineering
- Laboratory of Modelling Technology in Mining
- Laboratory of Machine
 Systems in Mining
- Accredited Belt Conveying Laboratory
- Accredited Work Safety Laboratory

Laboratory of Earth Sciences and Mineral Engineering

EPMA Cameca SX Five FE Electron Probe Microanalizer



Isotopic, chemistry, geochemistry and cosmochemistry, geophysics, mineralogy and petrology labs.







Sky is not the limit

EPMA Cameca SX Five FE Electron Probe Microanalizer

Unique lab for rocks, natural stone and aggregates testing



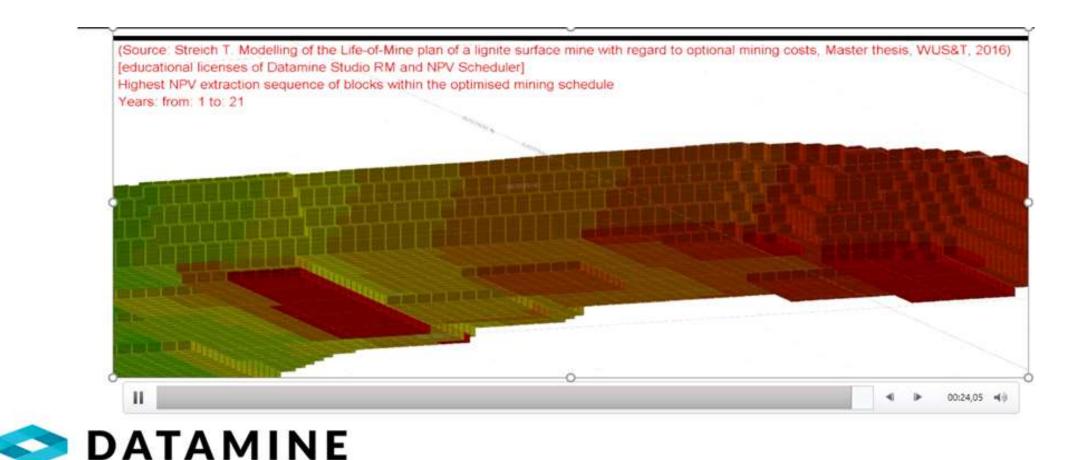






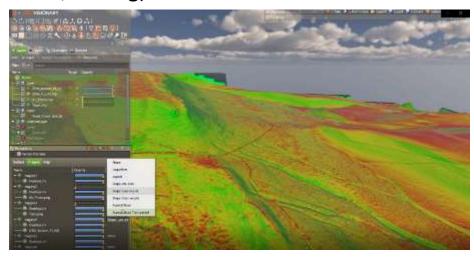


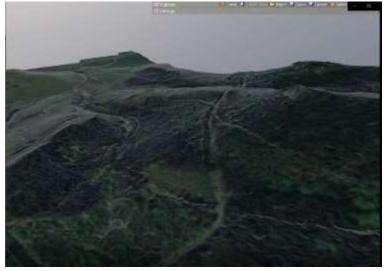
Laboratory of Modelling Technology in Mining

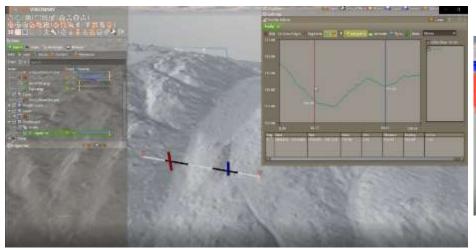


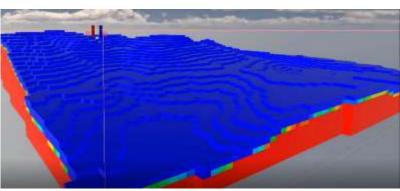
Laboratory of Modeling Technology in Mining

VR Visualization (GeoVisionary, FlexSim with Floworks, OptQuest and EDEM modules) in order to carry out analyses on the construction of comprehensive virtual simulation models presenting and processing geospatial objects (geology, surface area, mining) and others.

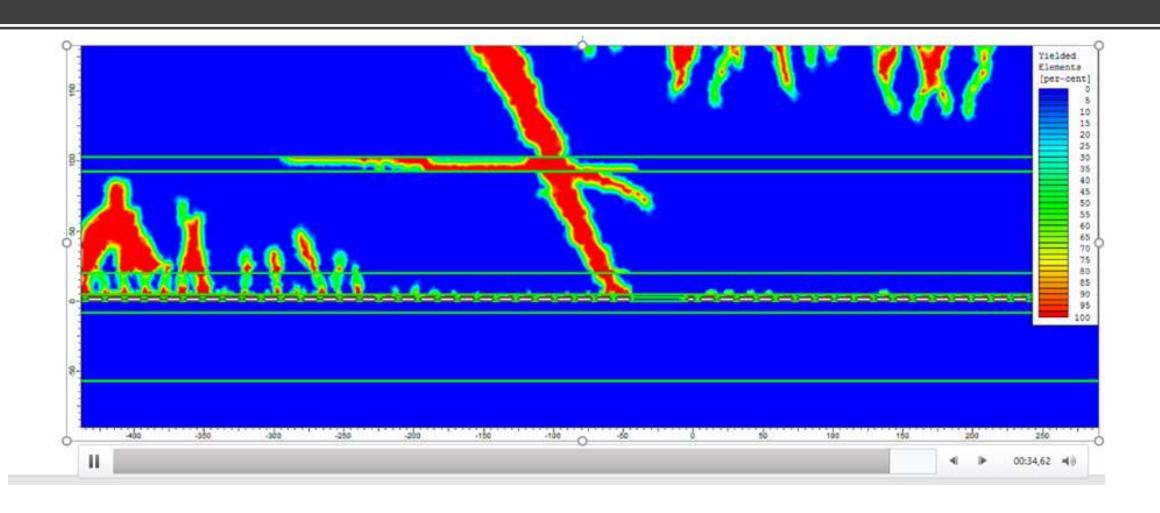


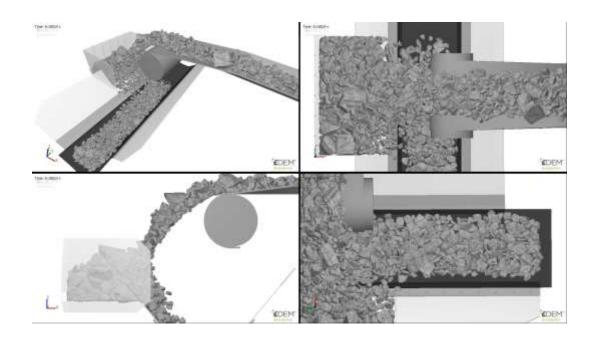




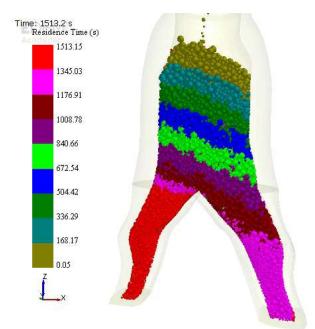


LABORATORY OF MODELLING TECHNOLOGY IN MINING





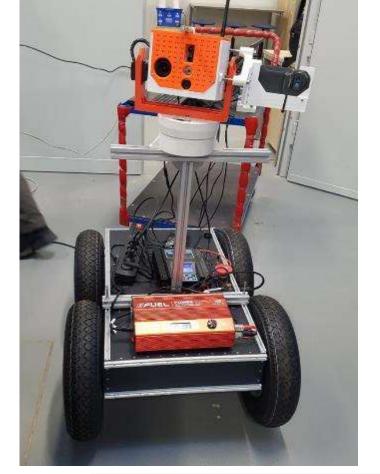




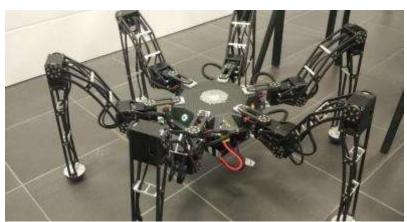












DIGITAL MINING CENTRE

Mobile Inspection Robotics Lab and Monitoring, Diagnostics and Modeling of Processes, Machines and Environment Lab

Modern Geodesy for mineral exploration and mining

Mobile Laser Scanning System (MLS LiDAR)



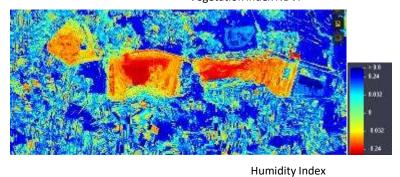
Remote sensing (Sentinel)



Landslides and quarries monitoring



Vegetation Index NDVI



Photogrammetry



Projects

Wrocław University of Science

and Technology

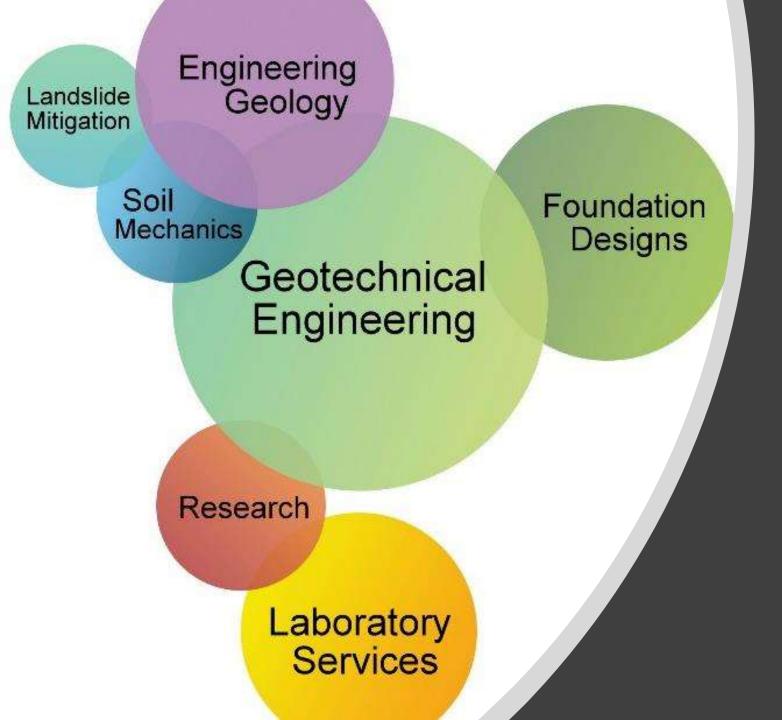
- VOT3D: Ventilation Optimizing Technology based on 3D-scanning
- Electrical Computerised Hammering Operator (ECHO)
- TIMREX T-Shaped Master Programme for Innovative Mineral Resource Exploration
- RIS Internship
- "The European Training Network on Monitoring Large-Scale Complex Systems (MOIRA)"
- "Master in Entrepreneurship, Innovation and Technology Integration in Mining (MEITIM),
- "AMICOS. Autonomous Monitoring and Control System for Mining Plants"







Students Activity
Mining traditions



PROGRAM INFORMATION

Fields of study

- •Mining and Geology
 BSc and MSc studies both full time and part time
- Geodesy and Cartography
 BSc studies since 2011/2012,
 MSc studies since 2017/18
- •Geoinformatics
 BSc studies offered for the first time in 2021 (full time)
- Ocupational Health and SafetyMSc studies new in 2022
- Geoenergy EngineeringBSc studies new in 2022
- Raw Materials Engineering
 BSc studies new in 2022



Understand Experience Share Discover









High proportion of active classwork hours (projects, laboratory classes, seminars, calculation classes)

Good cooperation with the mining industry in Poland – internships, technical excursions, MSc project topics

State of the art computer software for the Mining industry

Datamine Studio, Datamine 5DP & EPS, Geovariances Istatis, Minesatis, Statsoft Statistica, FlexSim, Geovisionary (VR), : RS3 v.2.0, Dips v.7.0, RocTopple v.1.0, RS2 v.9.0, Slide v. 7.0, RocData, FLAC3D v. 6.0, PFC3D, 3DEC v. 5.2, Rhino, Griddle, ExaMine, SIMCENTER3D, NASTRAN, ARC GIS, Geostudio, GMTSAR, and more

Industry specialists employeed

Master Programs in English

- Field of study: Mining and Geology
- Specialisations:
 - Mining Engineering
 - Geotechnical and Environmental Engineering
 - Geomatics for Mineral Resource Management
- Field of study: Geodesy and Cartography
- Specialisations:
 - Geomatics



THANK YOU FOR YOUR ATTENTION

HAVE A NICE STAY
IN WROCLAW!

