TECHNICAL DETAILS

The Spring School will be held in English and is free to attend. However, the number of participants is limited to 19 for the workshop 20-22 March. The Spring School is designed for advanced students of earth sciences, such as PhD students, Postdocs, Researchers, and advanced Master students. The workshop will be organized as an in-person event. If you do not have a personal account for accessing the PC, you must create one in advance. Contact us in a private message using the specified contact.

REGISTRATION

Please indicate whether you intend to participate in person or online at the workshop 20.03/22.03 (limited to 19 participants, in person only):

https://indico.rz.unijena.de/e/aserm springschool 24 register

HOW TO FIND US

Burgweg 11, 07749 Jena PC-Pool H 219

Workshop:

Institute for Jena Paradie Geosciences Arbeitsagentur

CONTACT

Friedrich-Schiller-Universität Jena

Institut für Geowissenschaften Burgweg 11 07749 Jena zakhar.karly@uni-jena.de

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FRIEDRICH-SCHILLER-**UNIVERSITÄT** JENA Chemisch-Geowissenschaftliche Fakultät



ALGORITHMS AND SOFTWARE IN EXPLORATION FOR RAW MATERIALS

Spring School

20 — 22 March 2024 | Jena & online

MODELING IN MINING INDUSTRY

Today's realities of work in the mining industry require the ability to handle modern mining and geological software with large data sets. These tools allow to perform a versatile assessment of projects, create 3D models of deposits, adjust the direction and methods of exploration, simulate mining systems, make versatile economic evaluation, grade control at the stage of extraction, and minimize waste. Such products are widely used in large international multinational mining and consulting companies that conduct business from the "best practices" point of view.

WORKSHOP 21-22 MARCH

The Spring School offers a three-day workshop on 20-22 March, run by Dr. Zakhar Karly from General and Applied Mineralogy, Institute for Geosciences. The workshop will focus on best practices for the 3D modeling workflow with Micromine and Leapfrog GEO. There will be plenty of space for questions and acquiring skills, expanding the imagination of using geological software in the preparation of projects for industrial development.



PROGRAM

Wednesday, 20 March 2024 PC-Pool H 219, Burgweg 11

9:00 am INTRODUCTION – WORKSHOP Best practices in Virtual Geology The algorithm of actions necessary to create a resource model of the mineral deposit will be considered, possible data sources will be discussed, raster georeferencing, spatial understanding of possible exploration actions

Thursday, 21 March 2024 PC-Pool H 219, Burgweg 11

9:00 am WORKSHOP

Best practices in Virtual Geology Processing of the exploration data, basics of statistical analysis, creation of an ore body model. Volumetric and resource estimation

Friday, 22 March 2024 PC-Pool H 219, Burgweg 11

9:00 am WORKSHOP

Best practices in Virtual Geology Creation of the digital topographical model of the open pit at the time of the full development of mining operations. Reserves estimation

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