

## **Fourth Specialized Short Course within IMPROVE SSC: Petrophysical Properties - from the laboratory to the field and modelling**

The course focuses on techniques to characterize petrophysical properties in the laboratory and in the field, such as e.g. permeability, porosity, rock mechanical strength. The participants are introduced to the theoretical concepts and the different techniques to characterize petrophysical properties in field and in the lab (including hands-on experience mainly on surficial Krafla samples). Further we will discuss scaling and how to transfer and incorporate this knowledge with geophysical data and models.

The IMPROVE SSC will take place at LMU directly prior to the KMT symposium (<https://kmt.is/product/kmt-symposium/>), that is also hosted at LMU from 10-12.04.2024

### IMPROVE SSC at LMU:

Start: Monday 08.04.2024 – 14.00

End: Wednesday 10.04.2024 – noon

Registration please via email to: [b.scheu@lmu.de](mailto:b.scheu@lmu.de)

Lectures, lab tours and hand-on practicals will be held by LMU researchers:

- Prof. Bettina Scheu
- Dr. Jackie Kendrick
- Prof. Yan Lavallée
- Dr. Anthony Lamur



What are you signing up for?

**Monday:** lectures – petrophysical concepts, scaling

**Tuesday:** lab-tours (rock mechanic lab, FragLab, fluid-rock interaction) and hands-on exercises – you will measure permeability of a variety of Krafla surficial rocks applying different techniques, you will measure sound speeds ( $V_p$ ,  $V_s$ ) and discuss your results.

**Wednesday:** discussion - how to use lab values for modelling & interpretation of geophysical signals, including limitations; wrap up

*You have a Krafla/Etna sample you like to measure its density, connected porosity, permeability, sound speed?*

*→ bring a cylindrical core with the following dimensions:*

*diameter: 25 mm*

*length: 50 mm (ideally, but can be everything from 25 – 60mm)*

*You cannot core your sample?*

*→ Make it arrive latest by 02.04.2024 and we can core it for you.*

