

Project code: 2022-1-IT02-KA171-HED-000073309

Name and Surname: Ruben Filipovich
Home Institution: Universidad Nacional de Salta
Host Institution: Università di Camerino
Type of mobility: Training
Duration: 17 days

Description of the activities:

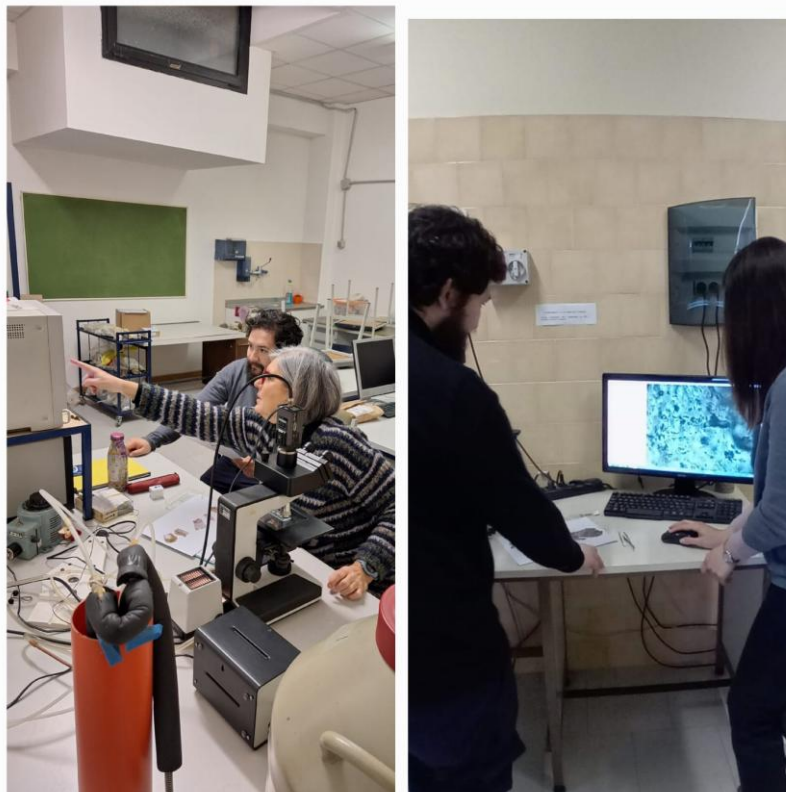
The primary objectives of this mobility program were fieldwork training and geological data collection in complex structural settings, aimed at assessing the structural control on hydrothermal fluid circulation and reservoir development. Additionally, the program included laboratory training on fluid inclusion petrography and analysis, as well as exploring new opportunities for collaboration to further strengthen the academic ties between our institutions.

The fieldwork activities were conducted in the Calabria region as part of a 5-day field school, involving Master's students, Erasmus+ students, and professors from Unicam. During this period, hands-on training in field techniques and data collection was carried out on world-class geological outcrops. This experience provided a unique opportunity not only to enhance my knowledge and skills but also to engage in discussions with leading researchers specializing in tectonics and geofluids. Furthermore, before and during the field trip, we explored the possibility of one of the Erasmus+ students conducting their degree thesis under this framework.



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During the mobility period, I also collaborated with Prof. Chiara Invernizzi on the petrology and analysis of fluid inclusions in travertines. This work required significant effort and expertise, as handling fragile carbonate minerals demands specialized techniques. Prof. Invernizzi's experience was instrumental in developing a basic workflow for working with fragile, low-temperature carbonates to minimize biases and achieve reliable results. All samples were prepared at Unicam, and the fluid inclusion analysis was conducted at the University of Bari in collaboration with Dr. Martina Zucchi. One of the Erasmus+ students was involved in this project and will use the data for their degree thesis. These activities were particularly valuable as we are currently setting up a new fluid inclusion analysis laboratory in Salta.



Throughout the mobility program, I held several meetings with young researchers and department heads to explore opportunities for new scientific collaborations and exchange programs. Notably, we initiated discussions on the possibility of establishing a double degree program between our universities. Additionally, I had the opportunity to deliver a seminar titled "The Andes: The World's Least Developed Geothermal Area. Why? Strategies for De-risking Geothermal Exploration." This seminar provided an excellent platform to contextualize the geothermal situation in Argentina, compare it with the European context, and discuss strategies to improve and accelerate the development of geothermal energy.

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