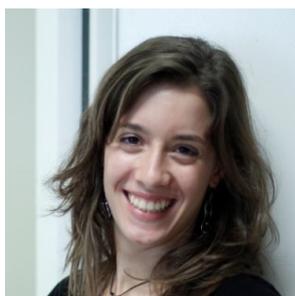


Mineralogical Society Bursaries Report: EGU 2016

The Mineralogical Society Bursary partially contributed towards my attendance to the European Geophysical Union international conference held in Vienna, from the 16th to the 23rd of April 2016. My contribution to this conference was given in two oral presentations in different sessions, showing the results of my PhD. The first talk – “The 4D evolution of porosity during ongoing pressure-solution processes in NaCl monitored using x-ray microtomography” – was presented in session TS1.3 “Fracturing, Flow and Transformation of Porous Media”. The talk highlighted the results of the experiments I carried out at the micro-CT scanner in the School of Geosciences, in Edinburgh. For the first time ever, I was able to identify, quantify and map the evolution of grains and porosity during deformation and pressure-solution processes in 4D. My second oral contribution – “Strain-dependent evolution of garnets in a high pressure ductile shear zone of the Western Gneiss Region (Norway) investigated using synchrotron x-ray microtomography” – was presented in the co-organized session GMPV4.1/TS2.5 “Chemo-mechanical feedback between mineral reactions, stress generation, deformation and mass transport in the presence of fluids”. In this contribution, I presented the results of using synchrotron x-ray microtomography in combination of more classical analytical techniques, to extrapolate qualitative and quantitative information from 3-dimensional datasets on metamorphic reactions, fluid pathways and morphological evolution of garnets grains as a function of strain.

Both oral contributions led to deep and important discussions, followed by important networking across many different disciplines. I believe the most fascinating aspect of EGU is the ability of gathering together in the same place scientists from all over the world and from all the scientific fields. As a PhD student nearly at the end of the PhD, I am really thankful that I had the possibility to partake in such extraordinary occasion, as it stimulated meetings with possible future post-doc supervisors, and new collaborations.



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