Faculty of Earth Sciences, Geography and Astronomy

nowaGEA
network of women in academia
at the faculty of earth sciences,
geography and astronomy

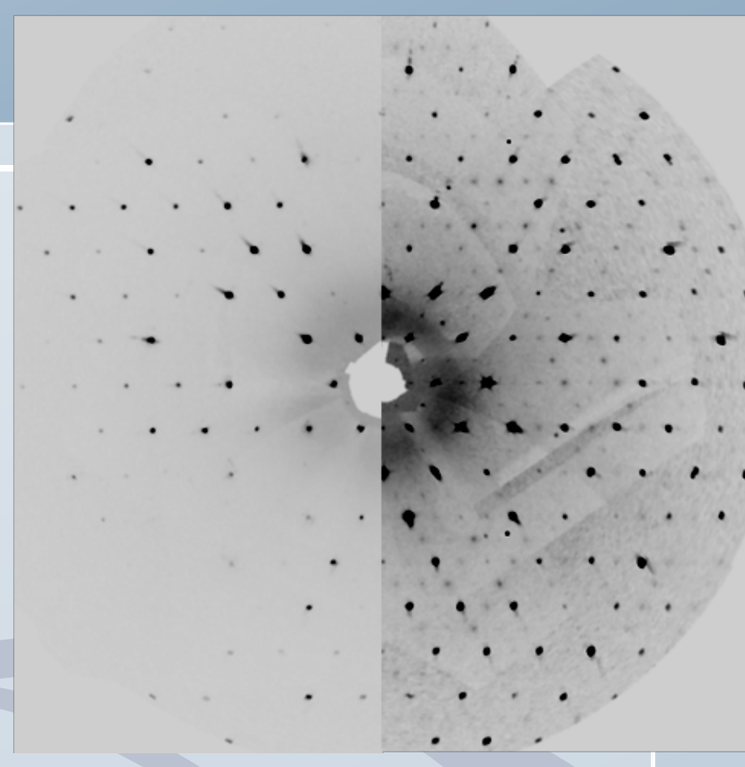
universität wien

Mentoring Lecture Series

Empowering Women to Develop Academic Careers

November 19, 2013, 16:00
2A502, UZAII

Prof. Clivia Hejny
University of Innsbruck, Austria



In-situ high-pressure research in the diamond anvil cell

Due to the inaccessibility of our earth's interior scientists are restricted to study minerals and their properties as they are present in the earth's depth by simulating high pressure and temperature conditions in the lab. Pressurising minerals in the diamond anvil cell allows the analysis in-situ at extreme conditions, i.e. while the mineral sample is under pressure. This is a big advantage in comparison to other pressurising techniques that analyse recovered samples at atmospheric conditions after the material has experienced high pressure. In this way changes of the atomic arrangement and associated changes of material properties, such as a change of colour to give an example, can be studied. In this presentation the high-pressure behaviour of some selected beautiful and intriguing minerals will be shown and discussed.

The science lecture (ca. 1 hour) is followed by a Question & Answer period on issues specific to career development of women in academia (e.g., options, barriers, how to overcome them, good practices and strategies).

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