Seismic imaging uses elastic waves generated by natural earthquakes to illuminate the earth's internal structure. It is a powerful tool for improving our understanding of the global dynamics within our planet, which drive tectonic plate motions, causing earthquakes and volcanic eruptions. I will briefly explain how global mantle seismic imaging works, and discuss how it has improved in recent years owing to new capabilities for the computation of seismic wave propagation through the earth, what we have learned about the earth's interior structure and the challenges ahead of us to achieve ever sharper images.

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).

contact: nowagea.univie.ac.at