

Anais Férot, PhD

PROFESSIONAL EXPERIENCE

Science Coordinator

Since 2016 GeoPRISMS NSF Program - Pennsylvania State University

2013-2016 GeoPRISMS NSF Program - University of Michigan

2013-2016 GeoPRISMS NSF Program - Rice University

- Assistant to the Chair of the Program

 - Responsible for the day-to-day Office operations

 - National and International Meeting logistics, on-site support

- Science Communication

 - Scientific interaction with scientists around the world to promote the Office activities

 - Implementing education and outreach components of the program

 - Developing scientific and educational materials for the GeoPRISMS website

 - Reporting Program activity, working groups, and the annual Steering & Oversight Committee

- Website Manager and Graphic Designer

 - Designer and Editor of the semi-annual newsletter

 - Responsible for the website content management, development, and administration

Experimental Petrologist - Master & PhD

2007-2011 Laboratoire Magmas et Volcans, Clermont-Ferrand, France

2006-2007 Laboratoire des Mécanismes et Transferts en Géologie, Toulouse, France

- Project management, scientific collaborations with researchers

- Strong expertise in data processing and designing

- Strong expertise in experimental and analytical techniques

 - High pressure and high temperature experiments using a multi-anvil press apparatus

 - FTIR spectroscopy, electronic microprobe, SEM, XANES spectroscopy

- Science Communication

 - Poster designing and Power Point presentations for national and international conferences

 - Attending international workshops and schools (US, Japan, Germany, Austria, France)

 - Scientific publications in international journals

 - Scientific literature survey

EDUCATION

- 2011 PhD Thesis, Earth Science.** Blaise Pascal University, Laboratoire Magmas et Volcans, France.
- 2007 Master of Science, Earth Science.** Paul Sabatier University, France.
- 2006 Bachelor of Science, Earth Science.** Blaise Pascal University, France.
- 2004 Associate of Science, Earth Science.** François Rabelais University, France.

AWARDS

- 2010 Young Student Outstanding Poster Presentation Award.** EGU General Assembly, Vienna, Austria.
- 2007 Grant for the participation at the Misasa International Student Intern Program.** Misasa, Japan.
- 2007 PhD Studentship from the French Research Ministry (3-year program).** Clermont-Ferrand, France.
- 2007 Student Poster Presentation Award.** First EuroMinSci Meeting, La Colle sur Loup, France.

ADDITIONAL SKILLS

- Languages** French (native), English (fluent), Spanish (moderate)
- Computer** Microsoft Office, Adobe, WordPress, Joomla!, Kaleidagraph, Opus, PeakFit

COMMUNITY INVOLVMENT

- 2012** Volunteer, Ten Thousand Villages, Houston, TX.
- 2009** Head coordinator of the annual PhD Student Conference (30 participants). Clermont-Ferrand, France.
- 2009** Volunteer for the organization of the ILP Task Force Meeting (75 participants from 21 countries). Clermont-Ferrand, France.
- 2009** Founding member of the amateur theatre company Les Bons Dimanches.
- 2005** Elected Officer in the Students' Union. Clermont-Ferrand, France.

LIST OF PUBLICATIONS

- 2012** **A. Férot**, N. Bolfan-Casanova. Water storage capacity in olivine and pyroxene to 14 GPa: Implications for the water content of the Earth's upper mantle and nature of seismic discontinuities. *Earth and Planetary Science Letters*, 349-350, 218-230.
- 2012** N. Bolfan-Casanova, M. Munoz, C. Mccammon, E. Deloule, **A. Férot**, S. Demouchy, L. France, D. Andrault, S. Pascarelli. Ferric iron and water incorporation in wadsleyite under hydrous and oxidizing conditions: A XANES, Mossbauer, and SIMS study. *American Mineralogist*, 97, no.8-9, 1483-1493.
- 2010** A. Shatskiy, D. Yamazaki, Y.M., Borzdov, T. Matsuzaki, K.D. Litasov, T. Cooray, **A. Férot**, E. Ito, T. Katsura. Stishovite single-crystal growth and application to silicon self-diffusion measurements. *American Mineralogist*, 95, 135-143.

LIST OF COMMUNICATIONS

- 2012-2019** Updates on GeoPRISMS Office activities at the annual GeoPRISMS Steering & Oversight Committee meeting. NSF Headquarters, Alexandria, VA. **Oral presentation*
- 2014** EarthScope Alaska-Yukon Regional Workshop for Interpretive Professionals, Anchorage, AK, USA. **A. Férot**. GeoPRISMS and the Alaska & Aleutian Subduction Zone. **Oral presentation*
- 2013** Goldschmidt, Florence, Italy. N. Bolfan-Casanova, **A. Férot**. Water storage in the Earth Mantle.
- 2011** ECMS Postdam, Germany. N. Bolfan-Casanova, M. Munoz, C. McCammon, E. Deloule, **A. Férot**, S. Demouchy, L. France, D. Andrault, S. Pascarelli. Ferric iron and water incorporation in wadsleyite under hydrous and oxidizing conditions: a XANES and SIMS study.
- 2011** Goldschmidt, Prague, Czech Republic. N. Bolfan-Casanova, M. Munoz, C. McCammon, E. Deloule, **A. Férot**, S. Demouchy, L. France, D. Andrault, S. Pascarelli. Ferric iron and water incorporation in wadsleyite under hydrous and oxidizing conditions.
- 2010** AGU Fall Meeting, San Francisco, CA, USA. **A. Férot**, N. Bolfan-Casanova. Experimentally determined water storage capacity in the Earth's upper mantle. **Oral presentation*
- 2010** AGU Fall Meeting, San Francisco, CA, USA. N. Bolfan-Casanova, **A. Férot**, M. Munoz, S. Pascarelli, C.A. McCammon. Ferric iron and water incorporation in wadsleyite at 410-km depth.
- 2010** EGU General Assembly, Vienna, Austria. **A. Férot**, N. Bolfan-Casanova. High pressure and high temperature experiments on water solubility in olivine and orthopyroxene in Al and Fe bearing systems. **Poster presentation*
- 2010** EMPG, Toulouse, France. **A. Férot**, N. Bolfan-Casanova. High pressure and high temperature experiments on water solubility in olivine and orthopyroxene in Al and Fe bearing systems. **Oral presentation*
- 2008** Ecole Thematique les Houches, Les Houches, France. **A. Férot**, N. Bolfan-Casanova. High-pressure experiments on water solubility in olivine and orthopyroxene: preliminary study on the effect of aluminum and iron. **Poster presentation*
- 2008** EGU General Assembly, Vienna, Austria. **A. Férot**, N. Bolfan-Casanova. Effect of temperature and Al content on water solubility in periclase. **Poster presentation*
- 2008** EGU General Assembly, Vienna, Austria. J. Ingrin, **A. Férot**. Results of H-D exchange experiments in forsterite.
- 2007** International Student Intern Program, Misasa, Japan. **A. Férot**. Si self-diffusion in stishovite at high P-T. **Oral presentation*
- 2007** AGU Joint Assembly, Acapulco, Mexico. J. Ingrin, **A. Férot**. Hydrogen diffusion in olivine: Implication for point defects models in olivine.
- 2007** Frontiers in Mineral Sciences 2007, Cambridge, UK. J. Ingrin, **A. Férot**. Mechanisms of hydrogen diffusion in olivine: new data and perspectives.
- 2007** First EuroMinSci Meeting, La Colle sur Loup, France. **A. Férot**, J. Ingrin. Isotopic diffusion of hydrogen in Fo-rich olivine. **Poster presentation*

SCHOOLS ATTENDED

- 2009** Short Course "High Pressure Experimental Techniques and Applications to the Earth's Interior". Bayerisches GeoInstitut, Bayreuth, Germany.
- 2008** Les Houches Physics School. Université Joseph Fourier, Les Houches, France.
- 2007** Misasa International Student Intern Program. Institute for the Study of the Earth's Interior, Okayama University, Misasa, Japan.