

Curriculum Vitae

Ulf-Niklas Berninger

Citizenship: German

Scientific education

since 2012	Ph.D.-Thesis co-tutelle at Géosciences et Environnement Toulouse (GET), UMR 5563, CNRS, Université Toulouse III – Paul Sabatier, France and Ludwig-Maximilians-Universität München (LMU), Germany Macroscopic and microscopic investigation of dolomite growth kinetics. Main macroscopic and microscopic techniques: - Hydrothermal Batch/Mixed Flow Reactor - Hydrothermal Atomic Force Microscopy supervisors: Prof. E. Oelkers, Prof. G. Jordan
2009 - 2011	Geomaterials and Geochemistry, LMU M.Sc.-Thesis: Influence of citrate on the growth kinetics of magnesite. supervisor: Prof. G. Jordan Master of Science degree
2006 - 2009	Geosciences, Technische Universität München (TUM), Germany B.Sc.-Thesis: Scanning Tunnel Microscopy investigation of concentration dependent occupancy in a supramolecular host-guest system. supervisor: Prof. M. Lackinger Bachelor of Science degree

Research project assistance

2010/11	Can organic ligands help to reduce atmospheric CO ₂ by facilitating the formation of anhydrous magnesium carbonate? Project of Bayerisch-Französisches Hochschulzentrum (BFHZ) Prof G. Jordan (LMU), Prof. J. Schott (GET)
2010	Quantification of quartz grain-boundary networks. Project of Deutsche Forschungsgemeinschaft (DFG) Prof. J. Kruhl (TUM), Prof. C. Wilson (Univ. of Melbourne, Australia)
2009/10	Quantification of magmatic structures in granitoids. Prof. J. Kruhl (TUM), Prof. B. Clarke (Dalhousie Univ., Canada)

2009	Volcán de Colima. Project of the Centre of Exchange and Research in Volcanology N. Varley (Observatorio Vulcanológico de la Univ. de Colima, Mexico)
2008/09	Fabric quantification in plutonic and metamorphic rocks. Project of THESIS-International Graduate School Prof. J. Kruhl (TUM), A. Gerik
2008	Tectonically induced drainage network reorganization of central Zagros mountains (Iran) and its pattern quantification. Prof. A. Friedrich (LMU), B. Guest (Univ. of Calgary, USA)

Conference contribution

Berninger, U.-N., Gautier, Q., Jordan, G. & Schott, J. (2012): How citrate slows magnesite growth: a high temperature AFM study. – *22nd V.M. Goldschmidt Conference*, held 24-29 June in Montréal, Canada.

Berninger, U.-N., Gautier, Q., Schott, J. & Jordan, G. (2011): Citrate induced effects on magnesite growth kinetics. – *Joint Meeting DGK, DMG, ÖMG*, held 20-24 September in Salzburg, Austria.

Gautier, Q., Bénézeth, P., Jordan, G., Berninger, U.-N. & Schott, J. (2011): Magnesite growth inhibition by organic ligands: Complexation and adsorption. – *21st V.M. Goldschmidt Conference*, held 14-19 August in Prag, Czech Republic.

Kruhl, J.H., Berninger, U-N., Clarke, D.B. & Peternell, M. (2011): Quantification and interpretation of mineral distribution patterns from the South Mountain Batholith (Canada). – *VII Hutton Symposium on Granites and Related Rocks*, held 4-9 July in Avila, Spain.

Goldstein, F., Varley, N., Bustillos, J., Kueppers, U., Lavallee, Y., Dingwell, D.B. & the ColTungu Team [Alatore, M., Becker, S., Berninger, U.-N., Douillet, G., Hanson, J. & Kolzenburg, S.](2010): Comparing Pyroclastic Density Current (PDC) deposits at Colima (Mexico) and Tungurahua (Ecuador) volcanoes. – *EGU General Assembly 2010*, held 2-7 May in Vienna, Austria.