

Stephan Klemme

1) General information

- Klemme, Stephan, Ph.D, date of birth: 01/11/1968, male.
- WWU Münster, Institut für Mineralogie, Corrensstraße 24, D-48149 Münster, Tel.: +49 251 8333047, e-mail: stephan.klemme@uni-münster.de.
- Current position: Professor (W2)

2) Academic education and degrees

- Mineralogy, Chemistry (1991 – 1995), University of Göttingen, Diploma (Prof. S.F. Foley)

3) Scientific degrees

- Habilitation: Mineralogy, Heidelberg University, 2005 (Prof. Dr. R. Altherr)
- Doctoral degree: Ph.D, Experimental Petrology, ANU, 1999 (Prof. D.H. Green, Prof. H. StC. O'Neill)

4) Professional experience

- Since 2008, Professor, WWU Münster
- (2005 – 2008), Lecturer, University of Edinburgh
- (2001 – 2005), wiss. Assistent, Heidelberg University
- (1999 – 2000), Marie Curie postdoctoral fellow, Bristol University

5) Professional activities

- Convener of 13 sessions at international conferences (Goldschmidt, EGU, IGC) from 2002 to 2014.
- Reviewer for international scientific journals (e.g. GCA, EPSL, Nature, Am Mineral, CMP)
- Reviewer of grant proposals for DFG, NERC, EPSRC, ARC, NSF

Professional affiliation:

- European Geosciences Union, European Association of Geochemistry, Deutsche Mineralogische Gesellschaft, American Geophysical Union.

6) Publications

Published or accepted peer-reviewed publications, etc.

- Ziberna, L., Nimis, P., Klemme, S., 2013. Garnet and spinel in fertile and depleted mantle: Insights from thermodynamic modelling, *Contributions to Mineralogy and Petrology* 166, 411-421.
- Beyer, C., Klemme, S., Wiedenbeck, M., Stracke, A., Vollmer, C., 2012. Fluorine in nominally fluorine-free mantle minerals: Experimental partitioning of F between olivine, orthopyroxene and silicate melts with implications for magmatic processes. *Earth and Planetary Science Letters* 337-338, 1-9.
- Rapp JF, Klemme S, Butler IB, Harley SL (2010). Extremely high solubility of rutile in chloride and fluoride bearing metamorphic fluids: An experimental investigation, *Geology* 38: 323-326.
- Klemme S, Günther D, Hametner K, Prowatke S, Zack T (2006). The partitioning of trace elements between ilmenite, ulvospinel, armalcolite and silicate melts with implications for the early differentiation of the moon, *Chemical Geology*, 234: 251-263.
- Prowatke, S., Klemme, S., 2005. Effect of melt composition on the partitioning of trace elements between titanite and silicate melt. *Geochimica et Cosmochimica Acta* 69, 695-709.
- Klemme S (2004). Evidence for Fluoride melts in Earth's mantle formed by liquid immiscibility. *Geology* 32(5), 441-444.
- Klemme S (2004) The influence of Cr on the garnet-spinel transition in the Earth's mantle: Experiments in the system MgO-Cr₂O₃-SiO₂ and thermodynamic modelling. *Lithos*, 77: 639-646.
- Klemme S, Blundy JD, Wood BJ (2002). Experimental constraints on major and trace element partitioning during partial melting of eclogite. *Geochimica et Cosmochimica Acta*, 66: 3109-3123.
- Klemme, S., O'Neill, H.S.C., 2000. The near-solidus transition from garnet lherzolite to spinel lherzolite. *Contributions to Mineralogy and Petrology* 138, 237-248.