

# Frank Sohl

## 1) General Information

- Sohl, Frank, Dr. rer. nat., date of birth: 16/05/1961, male
- Deutsches Zentrum für Luft- und Raumfahrt e.V., Institut für Planetenforschung, Rutherfordstr. 2, D-12489 Berlin, Tel.: +49 30 67055 311, e-mail: frank.sohl@dlr.de
- Current position: Research scientist.

## 2) Academic education and degrees

- Geophysics (1985 – 1991), University Kiel, Diploma (Prof. Dr. Jochen Zschau)
- Physics (1982 – 1985), University Göttingen, Vordiplom

## 3) Scientific degrees

- Doctoral degree: Dr. rer. nat., Geophysics, University Kiel, 1995 (Prof. Dr. Peter Janle)

## 4) Professional experience

- 2004 Research scientist, section Planetary Physics, Institute of Planetary Research, DLR Berlin
- 2002 - 2004 Researcher, working group Planetary Physics, Institute for Planetology, WWU Münster
- 1998 – 2001 Research associate, research group Planetary Physics, Institute for Planetology, WWU Münster
- 1995 – 1997 Postdoctoral fellowship, DFG Research Training Group Evolution and Origin of the Solar System, WWU Münster

## 5) Professional activities

Editorships: Guest Editor Planetary Space Science, Special Issue on Surfaces and Atmospheres of the Outer Planets, their Satellites and Ring Systems: Part IV (A. Coustenis, head guest editor, 2008); Topical Editor Planetary Space Science, Special Issue on Comparative Planetology of Venus, Earth, and Mars (H. Svedham, head guest editor, 2009); Topical Editor Planetary Space Science, Special Issue on Planetary Evolution and Life (T. Spohn, head guest editor, 2012 – 2014).

Science Programme Committees: 31st annual meeting of the Division for Planetary Sciences, Padova, Italy, 1999. 43rd ESLAB Symposium, International Conference on Comparative Planetology: Venus – Earth – Mars, Noordwijk, the Netherlands, 2009. 4th European Planetary Science Congress, Potsdam, Germany, 2009. 5th European Planetary Science Congress, Rome, Italy, 2010; since 2004 Co-organizer of scientific sessions on interiors, surfaces, and atmospheres of outer planet satellites (Asia Oceania Geosciences Society annual meetings 2005 - 2013; European Planetary Science Congress 2006 – 2009); and terrestrial planet interiors (43rd ESLAB Symposium 2009).

Science Teams: Since 2011 Member of the Plato Science Team. Former member of the NASA-ESA Joint Science Definition Teams *EJSM (Laplace)* and *TSSM (TandEM)* (2008 – 2009).

Research Networks: Since 2008 Member of the Helmholtz Research Alliance *Planetary Evolution and Life* (WP2200 responsibility - Internal structure of generic planetary bodies); since 2012 Member of the Helmholtz Research Alliance *Robotic Exploration of Extreme Environments*; Former member of the MARS Geophysical European Training Network (MAGE, 2002 – 2006).

## 6) Publications

*Published or accepted peer-reviewed publications, book chapters, etc.*

- Wagner, F. W., F. Sohl, H. Hussmann, M. Grott, and H. Rauer. Interior structure models of solid exoplanets using material laws in the infinite pressure limit. *Icarus*, 214:366 - 376, 2011. SCI(28).
- Sohl, F. and G. Schubert. Interior structure, composition, and mineralogy of the terrestrial planets. In T. Spohn, volume editor, *Treatise on Geophysics* (edited by G. Schubert) – Planets and Moons, Vol. 10, 27-68, Elsevier, Amsterdam, 2007 (2nd revised and extended edition to appear in 2015).
- Sohl, F., G. Schubert, and T. Spohn. Geophysical constraints on the composition and structure of the Martian interior. *J. Geophys. Res.*, 110, E12008, doi:10.1029/2005JE002520, 2005. SCI(30).
- Sohl, F., T. Spohn, D. Breuer, and K. Nagel. Implications from Galileo observations on the interior structure and chemistry of the Galilean satellites. *Icarus*, 157:104 - 119, 2002. SCI(95).
- Sohl, F. and T. Spohn. The interior structure of Mars: Implications from SNC meteorites. *J. Geophys. Res.*, 102, 1613-1635, 1997. SCI(158).

