

Curriculum Vitae Walter Goetz, Ph.D. in Planetary Science

Born in 1963, Nürnberg

[photo: Phoenix Operations Center, Tucson]



Education & positions

- Since 2013: Privatdozent at Univ. Göttingen.
- Since 2004: Senior Research Scientist at MPS.
- 1994 – 2003: Ph.D. & post-doctoral position at Univ. of Copenhagen (next to teaching).
- 1992 – 1994: Research affiliate at the Oersted Laboratory, Univ. of Copenhagen, Denmark.
- 1987-1992: Master studies of physics/chemistry at Universities Paris VI & Paris XI, France.
- 1984-1986: Bachelor of chemistry at University of Freiburg i. Br., Germany.

Work experience

- Since 2011: MSL Science Team (2011-2016 as NASA-selected Participating Scientist)
- Since 2011: MOMA Science Team (Mars Organic Molecule Analyzer) & ExoMars Rover Team
- 2007 – 2010: Robotic Arm Camera/Optical Microscope Team for Phoenix Mars Lander
- 2004 – 2006: Dawn Framing Camera Team

Teaching

- Recent/current student supervision: H. Mißbach (since 06/2015, PhD) and M. Reinhardt (since 05/2016, PhD) on biosignatures in sediments. A. Müller-Kirschbaum (Raman of carbonaceous sediments, 04-07/2016, Bachelor).
- Spring terms (since 2015): “Ringvorlesung” on Planetary System (PhD), Univ. Göttingen.
- Spring terms (since 2009): Geoscience seminar (4th semester), Univ. Göttingen.
- 1994 – 2001: Teaching physics & chemistry at Christianshavns Gymnasium, Copenhagen.

Publications

55 peer-reviewed publications (thereof 10 in Nature or Science), 1 book chapter, 1800 citations on Web of Science, $H_{\text{index}}=23$; 2725 citations on Google Scholar, $H_{\text{index}}=26$ (as of Oct. 2016);

EPO: Large number of public talks, contributions to popular magazines, television and radio interviews, e.g. American Scientist, Spektrum der Wissenschaften (e.g. [Why Mars?](#)), The Planetary Society/Planetary Radio (19-Apr-2004, [Magnets roving on Mars](#)), Video [Ist Mars wirklich rot?](#) (in German) produced together with JPL.

5 recent publications in international journals

Goesmann et al., The Mars Organic Molecule Analyzer (MOMA) Instrument: Characterization of Organic Material in Martian Sediments, *Astrobiology* 17(6-7), 655-685 (2017). [doi:10.1089/ast.2016.1551](https://doi.org/10.1089/ast.2016.1551)

Wiens, R. C. et al., Centimeter to Decimeter Spherical Shells and Voids in Gale Crater Sediments, Mars, *Icarus*, 289, 144–156 (2017). [doi:10.1016/j.icarus.2017.02.003](https://doi.org/10.1016/j.icarus.2017.02.003)

Goetz, W. et al., MOMA: The Challenge to Search for Organics and Biosignatures on Mars, *International Journal of Astrobiology*, 15(3), 239-250 (2016). [doi:10.1017/S1473550416000227](https://doi.org/10.1017/S1473550416000227)

Kinch K. M. et al., Dust deposition on the decks of the Mars Exploration Rovers: 10 years of dust dynamics on the Panoramic Camera calibration targets, *Earth Space Sci.*, 2(5), 144-172 (2015).

[doi:10.1002/2014EA000073](https://doi.org/10.1002/2014EA000073)

Siljeström, S. et al., Comparison of Prototype and Laboratory Experiments on MOMA GC-MS; Results from the AMASE11 Campaign, *Astrobiology* 14(9), 780-797 (2014). [doi:10.1089/ast.2014.1197](https://doi.org/10.1089/ast.2014.1197)

Additional information

Much interested in Raman spectroscopy, Mars Educational & Public Outreach (EPO), and geologic field trips (anywhere on this planet). Fluent in 3 foreign languages (English, French, Danish).