

Prof. Dr. rer. nat. Dipl.-Min. Wolf Uwe Reimold

Museum für Naturkunde (MfN)
Science Program Impacts, Meteorites and
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Department of Research Infrastructure

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Tasks

Professor of Mineralogy and Petrography
Head – Department of Research Infrastructure

Research Interests

Impact cratering studies (impactite mineralogy, geochemistry, geochronology; crater geology and geophysics); ore deposits related to impact structures; geoheritage and geoconservation

Academic Training

- 1977 Diploma, Mineralogy, Westf. Wilhelms-Universität Münster (Germany)
- 1980 Dr. rer. nat., Mineralogy, WWU Münster (magna cum laude)
- 1980 -82 Post-Doc, NASA Johnson Space Center/Lunar and Planetary Institute, Houston (USA)

Professional Appointments

- 1982-83 Scientific Co-worker at WWU Münster
- 1984-86 CSIR-FRD Research Fellow/Senior Research Fellow at Bernard Price Inst. of Geophysical Res., University of the Witwatersrand (Wits Univ.), Johannesburg
- 1986-97 Senior Research Associate, then Senior Research Officer, Senior Lecturer, Wits Univ., Johannesburg
- 1998-2005 Associate Professor, from 5/2003 Full Professor, of Mineralogy, School of Geosciences, Wits Univ., Johannesburg
- 1999-2005 Head, Impact Cratering Research Group, School of Geosciences, Wits Univ., Johannesburg
- since 2006 Chair, Mineralogy & Petrography, Humboldt University Berlin
- since 2006 Deputy Head, Research – Museum für Naturkunde; since 2/2009 – Act. Head, Research; since 10/2010 – Head, Research Infrastructure

Five most relevant (recent) publications

Gohn, G.S., Koeberl, C., Miller, K.G., **Reimold, W.U.**, Browning, J.V., Cockell, C.S., Horton, J.W.Jr., Kenkmann, T., Kulpecz, A.A., Powars, D.S., Sanford, W.E., Voytek, M.A. (2008). Deep drilling into the Chesapeake Bay impact structure. *Science*, 320, 1740-1745.

Coney, L., **Reimold, W.U.**, Gibson, R.L., Koeberl, C., and Ogilvie, P. (2010). Melt particle characteristics of the within- and out-of-crater suevites from the Bosumtwi Structure, Ghana: Implications for crater formation. *Large Meteorite Impacts IV*, Geol. Soc. Amer. Spec. Pap. 465, 411-442.

Reimold, W.U. and Gibson, R.L. (2010). Meteorite Impact! The Danger from Space and South Africa's Mega-Impact, the Vredefort Structure. *Geoparks of the World*, vol. 1, Springer Publishers, Heidelberg-Berlin, 337pp.

Mohr-Westheide, T. and **Reimold, W.U.** (2011). Formation of pseudotachylitic breccias in the central uplifts of very large impact structures: Scaling the melt formation. *Meteorit. Planet. Sci.* 46, 543-555.

Reimold, W.U., Hansen, B.K., Jacob, J., Artemieva, N.A., Wünnemann, K., and Meyer, C. (2011). Petrography of the impact breccias of the Enkingen (SUBO 18) drill core, southern Ries crater, Germany: new estimate of impact melt volume. *GSA Bulletin* published online September 19, 2011, doi: 10.1130/B30470.1.

Teaching and Education

- Impact Cratering Studies / Impact Geology / Petrography / Transmitted and Reflected Light Microscopy
- Supervision of 35 BSc Honours projects at the University of the Witwatersrand (1995-2005), 13 MSc projects and 11 PhD projects (Univ. of the Witwatersrand and Humboldt University)

Cooperation/Consultancy in National and Intl. Committees (selected)

- Member, Board of Trustees, Fraunhofer-Institute: Ernst-Mach-Institute for Short-Time Dynamics, Freiburg – since June 2008
- Member, Board, Geoscientific Center, Austrian Academy of Sciences – 2009-2011
- Chair, Advisory Board, Rieskratermuseum Nördlingen – since March 2010
- IMA representative, Executive Comm., German Mineralogical Society – since 2010
- Member, Endowment Fund Committee, Meteoritical Society – since 2010
- Member, Steering Committee, Geo.X Alliance Berlin-Brandenburg – since 2010

Editorial Activities

- Associate Editor, *Geochimica et Cosmochimica Acta* (since 2001) and *Meteoritics and Planetary Science (MAPS)*; since 2003)
- Member Editorial Board, *Impact Studies Series* (Springer Publ.; since 2000) and *South African Journal of Geology* (since 1/2008)
- Associate Editor, Guest Editor, *Geol. Soc. Amer. Spec. Paps. 405* (Processes on the Early Earth) and 465 (Large Meteorite Impacts IV), *ELEMENTS "IMPACT!"* – vol. 8 No. 1, 2012
- Associate Editor, *Geol. Soc. Amer. Bulletin* – since 1/2009

Other Professional Service Activities (national and international – selected)

- Principal Investigator, ICDP Chesapeake Bay Project, 2004-2009
- Chair, *Metsoc 62nd*, Johannesburg 1999; Co-Chair, *Geoscience Africa*, Johannesburg 2004; Co-Chair, *Large Meteorite Impacts IV Conference*, Vredefort 2008
- Member, Organizing Committee, 100th Anniversary Annual Meeting of the German Mineralogical Society 2008 and 1st + 2nd Arab Impact Cratering and Astrogeology Conferences, Amman (Jordan), 2009 + Casablanca (Morocco), 2011

Awards and Nominations

- Jubilee Medal Award, Geological Society of South Africa – 1995
- Honours Award, Geological Society of South Africa – 2001
- Fellow, Geological Society of South Africa – 2002
- Fellow, Meteoritical Society – 2004
- President, Geological Society of South Africa for 2002
- Honorary Research Professor, University of the Witwatersrand – since 1/2006
- "De Beers Alex L. Du Toit Memorial Lecturer" of the Geol. Soc. S. Afr., 2006
- Elected Corresponding Member, Austrian Academy of Sciences - 2007
- Barringer Medal Award for Outstanding Contribution to Impact Cratering Science, 2009, by the Meteoritical Society