

# **DR. HABIL. SABINE WULF**

## **EDUCATION**

Habilitation (02/2014)	University of Potsdam, Quaternary Geology
Ph.D. (12/2000)	University of Potsdam and the GeoForschungsZentrum (GFZ) Potsdam, Geology
Diploma (05/1997)	Justus-Liebig-University of Giessen, Geology
Abitur (06/1990)	Johanneum-Gymnasium Herborn, Hessen

## **PROFESSIONAL EXPERIENCE**

Since 03/2015	Research Scientist, University Frankfurt/Heidelberg
08/2011 – 02/2015	Research Scientist, GFZ German Research Centre for Geosciences, Potsdam, Section 5.2 – Climate dynamics and landscape evolution
03/2011 – 07/2011	Research Assistant, GFZ German Research Centre for Geosciences, Potsdam, Section 5.2 – Climate dynamics and landscape evolution
09/2010 – 02/2011	self-employed, guest scientist at the GFZ German Research Centre for Geosciences, Potsdam
04/2010 – 08/2010	self-employed, lecturer at the Austin Community College and translator at the “Inlingua” language school in Austin, Texas, USA
01/2010 – 03/2010	self-employed, teacher at the ‘Abrakadabra’ language pre-school in Potsdam
10/2008 – 01/2010	maternity leave, unemployed
04/2006 – 09/2008	Research fellow at the Institute for Geophysics, University of Texas at Austin (UTIG), USA
10/2005 – 04/2006	unemployed guest scientist at the GeoForschungsZentrum Potsdam, Section 3.3 – Climate dynamics and sediments
10/2000 – 10/2005	Postdoctoral Fellow, GeoForschungsZentrum Potsdam, Section 3.3 – Climate dynamics and sediments
05/1997 – 09/2000	Graduate Research Assistant, GeoForschungsZentrum Potsdam, Section 3.3 – Sediments and Basin analysis
01/1994 – 05/1997	University fellow, Institute for Geosciences, Justus-Liebig-University of Giessen and University of Frankfurt a.M.

## **TEACHING EXPERIENCE**

- March 2013: Lecturer of the international short courses “Tephrochronology” at the University of Potsdam / GFZ Potsdam (20 hours)
- September 2012: Lecturer at the INTIMATE summer school at the GFZ Potsdam (8 hours)
- May 2012: Lecturer of the short course “Tephrochronology” at the University of Potsdam / GFZ Potsdam (26 hours)
- September 2011: Co-Lecturer of the short course “Exercises in Quaternary Geology” (Prof. A. Brauer) at the University of Potsdam / GFZ Potsdam (30 hours)

- June-August 2010: Lecturer of the course “Physical Geology” (class room lecture, laboratory exercises, fieldtrip) at the Austin Community College in Austin, USA (96 hours)
- October 2006 - January 2008: Lecturer of the laboratory course “Techniques in extracting palaeoenvironmental information from lake sediments” at the University of Texas at Austin (USA), Department of Geography and the Environment (20 hours per week)
- October 2006: Guest lecturer at the Department of Geography and the Environment, two lectures within the course “Quaternary Landscapes” and “Natural and environmental hazards” (4 hours)
- September 2006: Co-leader of a 1-day coring field trip in the Palmetto State Park (Texas, USA), University of Texas at Austin, Department of Geography and the Environment

## COMMUNITY SERVICE

- Co-convener of the INTIMATE tephra workshop “From Greenland to the Levantine: developing a tephra based framework for palaeoclimate correlation in the North Atlantic and Europe over the last 60,000 years”, April 25-26, 2014, University of Pisa, Italy.
- Co-convener of the INTIMATE workshop “Towards high-precision chronologies”, February 7-9, 2011, GFZ Potsdam, Germany
- Co-convener of the International Helmert summer school “Natural climate variability from 10,000 years to the present day”, September 12-18, 2002, GFZ Potsdam,

## MEMBERSHIPS

- Member of the Editorial Board of “Quaternary Science Reviews”
- International Association of Volcanology and Chemistry of the Earth’s Interior (IAVCEI)
- International Union of Quaternary Research – International focus group on Tephrochronology and Volcanism (INQUA-INTAV)
- Virtual Institute of Integrated Climate and Landscape Evolution Analyses (ICLEA)

## SCIENTIFIC PROJECTS (in chronological order)

- “*Tephrostratigraphy of the Ciomadul volcanic province, Romania*” (2014-), in collaboration with the Romanian Academy of Science (Dr. Daniel Veres), Eötvös University/Hungaria (Prof. Dávid Karátson) and Keele University/U.K. (Dr. Ralf Gertisser)
- “*Synchronisation of high-resolution lacustrine sediments and palaeosoils in Northeastern Germany and Poland by tephrochronology*” (2011-), in collaboration with members of the REKLIM, ICLEA, TERENO and INTIMATE projects
- “*Tephrochronology of Lake Iznik, Turkey*” (2010-2011): in collaboration with the University of Bonn (Dr. Sven-Oliver Franz, Patricia Roeser)
- “*Tephrochronology of core HM03-10-133 from the Norwegian Sea*” (2010-2011): GFZ German Research Centre for Geosciences (Dr. Janina Baier)
- “*Tephrochronology of the Rehwiese palaeolake sequence, Berlin, Germany*” (2010-2012): GFZ German Research Centre for Geosciences (Prof. Dr. Achim Brauer, Ina Neugebauer)

- “*RESET – Response of Humans to Abrupt Environmental Transitions*”, in cooperation with Royal Holloway University of London (Prof. John Lowe, Prof. Martin McKenzie, Dr. Simon Blockley, Dr. Paul Albert, Dr. Emma Tomlinson, Dr. Mark Hardiman), Oxford University (Dr. Victoria Smith, Dr. Christine Lane)
- „*Tephrochronology of Tenaghi Philippon*“ (2008): tephrochronological dating of the high-resolution peat sequence of Tenaghi Philippon (Macedonia), in collaboration with the University of Frankfurt (Dr. Ulrich Müller, Prof. Dr. Jörg Pross)
- “*Paleoclimate reconstruction of laminated lake sediments from Efate (Vanuatu) and Fiji, South Pacific*” (2007-): Pilot project, in collaboration with UTIG (Dr. Frederick Taylor, Dr. Terrence Quinn), DGMWR Port Vila, Vanuatu (Douglas Charley, Morris Jim Harrison), SOPAC Suva, Fiji (Michael Bonte)
- “*Assessing slope stability at Caracas Bay (Curacao, Netherlands Antilles)*” (2007-2008): reconstruction of Tsunami, storm and drought events from lake and shallow marine sediments, in collaboration with UTIG (Dr. Matthew Hornbach, Dr. Paul Mann)
- “*NicLakes project*” (2006-2008): seismological guided coring survey to interpret tectonic features in the Nicaragua depression and to reconstruct Holocene paleoclimate and –environmental variability in the Tropics, in collaboration with UTIG (Dr. Paul Mann, Dr. Kirk McIntosh), UT Department of Geography and the Environment (Dr. Robert Dull), UTDGS (Dr. James Gardner), Illinois State University (Dr. Amy Bloom), Northeastern Illinois University (Dr. Jennifer Slate)
- “*Tephrochronology of Lake Ohrid (Macedonia/Albany)*”(2004-2005): in collaboration with the University of Leipzig (Dr. Bernd Wagner), Laboratoire des Sciences du Climat et de l’Environnement, Gif-sur-Yvette, France (Dr. Ulrich von Grafenstein), University of Pisa, Italy (Dr. Roberto Sulpizio, Dr. Giovanni Zanchetta)
- “*Tephrochronology of the sediments from Laguna Potrok Aike (Southern Patagonia)*”(2003-2005): SALSA Project, GEOPOLAR, University of Bremen, Germany (Prof. Bernd Zolitschka, Dr. Torsten Haberzettl)
- “*Proximal-medial distal tephrostratigraphic investigations in the central Apennines (southern Italy)*”(2004): in collaboration with the University of Pisa, Italy (Dr. Roberto Sulpizio, Dr. Giovanni Zanchetta)
- “*Tephra studies in Loess deposits from south-eastern Europe*”(2003-2004): in collaboration with the University of Bayreuth (Dr. Ulrich Hambach), the Romanian Academy of Bucharest (Dr. Ioan Seghedi) and the University of Novi Sad (Prof. Slobodan Marković)
- “*Tephrostratigraphy of sediment records from the Valle de Santiago maar lakes (Michoacan-Guanajuato volcanic field, central Mexico)*”(2002-2003): in collaboration with UNAM Querétaro, Mexico (Dr. Harald Böhnel, Dr. Gerardo Carrasco Nuñez) and the University of California, Berkeley, USA (Dr. Roger A. Byrne)
- “*Tephrochronology of the Pianico-Sellere interglacial deposits (Northern Italy)*”(2001-2002): GeoForschungsZentrum Potsdam (Dr. Achim Brauer) and University of Bergamo, Italy (Clara Mangili)
- “*Marine tephrochronology of sediments from the Sea of Marmara*”(1999-): in collaboration with the Free University of Berlin (Dr. Thomas Kuhn), University of Freiburg, Germany (Prof. Jörg Keller, Dr. Michael Kraml) and Istanbul Technical University (Prof. Namik Cagatay)
- “*Tephrostratigraphy of the 133 ka sediment record of Lago Grande di Monticchio, Southern Italy*”(1997-): ICDP/KTB project (1997-2000), GeoForschungsZentrum Potsdam (Prof. Jörg F.W. Negendank); in collaboration with the Osservatorio Vesuviano, Naples, Italy (Prof. Giovanni Orsi, Prof. Lucia Civetta, Dr. Lucia Pappalardo, Dr. Monica Piochi), University of Pisa, Italy (Prof. Raffaele Cioni, Dr. Roberto Sulpizio, Dr. Giovanni Zanchetta, Prof. Mauro Rosi), University of Rome (Dr. Biagio Giaccio, Dr. Gianluca Sottoli)

## FIELD CAMPAIGNS

- Seismological guided coring campaign at Caracas Bay, *Curacao*, August 2007, in cooperation with Dr. Matthew Hornbach and Dr. Paul Mann (UTIG)
- Lake sediment sampling campaign in *Vanuatu* and *Fiji*, May 2007, in cooperation with Dr. Frederick Taylor (UTIG)
- Coring campaign Lake Nicaragua, *Nicaragua*, May/June 2006, in cooperation with Dr. Robert Dull (UT Department of Geography and the Environment), Dr. Kirk McIntosh, Dr. Paul Mann, Justin Funk (UTIG)
- Lake coring campaign in *Central Mexico*, September/October 2004, in cooperation with Dr. Ulrike Kienel (GFZ Potsdam) and Dr. Harald Böhnke (UNAM Queretaro)
- Tephra and lake sediment sampling campaign, Valle de Santiago, *Central Mexico*, February/March 2003, in cooperation with Dr. Ulrike Kienel (GFZ Potsdam), Dr. Harald Böhnke and Dr. Gerardo Carrasco Nuñez (UNAM Queretaro)
- Lake coring campaign at Lago Grande di Monticchio, *southern Italy*, August/September 2000, in co-operation with Dr. Jens Mingram (GFZ Potsdam)
- Coring survey Eifel maar lakes (*Germany*, June 1998) and Masurian lakes (*Poland*, June 1999), in cooperation with Dr. Thomas Kulbe and Dr. Cathrin Brüchmann (GFZ Potsdam)

## LIST OF PUBLICATIONS (1997 – 2015)

### ISI (peer-reviewed) publications

#### 2015:

- Çağatay, M.N., **Wulf**, S., Sancar, Ü., Özmaral, A., Vidal, L., Henry, P., Appelt, O., Gasperini, L. (2015): The tephra record from the Sea of Marmara for the last ca. 70 ka and its palaeoceanographic implications. *Marine Geology* 361, 96-110.
- Regattieri, E., Giaccio, B., Zanchetta, G., Drysdale, R.N., Galli, P., Nomade, S., Peronace, E., **Wulf**, S. (2015): Hydrological variability over Apennine during the Early Last Glacial precession minimum, as revealed by a stable isotope record from Sulmona basin, central Italy. *Journal of Quaternary Science* 30 (1), 19-31.
- Blockley, S., Bourne, A., Brauer, A., Davies, S., Hardiman, M., Harding, P., Lane, C., MacLeod, A., Matthews, I., Pyne-O'Donnell, S., Rasmussen, S.O., **Wulf**, S., Zanchetta, G. (2015): Tephrochronology and the extended INTIMATE (INTEGRATION of ICE-core, Marine and Terrestrial records) event stratigraphy 8-128 ka b2k. *Quaternary Science Reviews* 106, 88-100.
- Matthews, I.P., Trincardi, F., Lowe, J.J., Bourne, A.J., MacLeod, A., Abbott, P.M., Andersen, N., Ascoli, A., Blockley, S.P., Lane, C.S., Oh, A., Satow, C.S., Staff, R.A., **Wulf**, S. (2015): Developing a robust tephrochronological framework for Late Quaternary marine records in the Southern Adriatic Sea: new data from core station SA03-11. *Quaternary Science Reviews*. doi:10.1016/j.quascirev.2014.10.009

#### 2014:

- Tomlinson, E.L., Albert, P.G., **Wulf**, S., Brown, R.J., Smith, V.C., Keller, J., Orsi, G., Bourne, A.J., Menzies, M.A. (2014): Age and geochemistry of tephra layers from Ischia, Italy: constraints from proximal-distal correlations with Lago Grande di Monticchio. *Journal of Volcanology and Geothermal Research*. DOI: 10.1016/j.jvolgeores.2014.09.006.
- Moreno, A., Svensson, A., Brooks, S.J., Connor, S., Engels, S., Fletcher, W., Genty, D., Heiri, O., Labuhn, I., Persiou, A., Peyron, O., Saduri, L., Valero-Garcés, B., **Wulf**, S., Zanchetta, G., data

- contributors (2014): A compilation of Western European terrestrial records 60-8 ka BP: towards an understanding of latitudinal climatic gradients. *Quaternary Science Reviews* 106, 167-185.
- Wutke, K., **Wulf**, S., Tomlinson, E.L., Hardiman, M., Dulski, P., Luterbacher, J., Brauer, A. (2014): Geochemical properties and environmental impacts of seven Campanian tephra layers deposited between 40 and 38 ka BP in the varved lake sediments of Lago Grande di Monticchio, southern Italy. *Quaternary Science Reviews*. DOI: 10.1016/j.quascirev.2014.05.017.
- Albert, P.G., Hardiman, M., Keller, J., Tomlinson, E.L., Smith, V.C., Bourne, A.J., **Wulf**, S., Zanchetta, G., Sulpizio, R., Müller, U.C., Pross, J., Ottolini, L., Matthews, I.P., Blockley, S.P., Menzies, M.A. (2014): Revisiting the Y-3 tephrostratigraphic marker: a new diagnostic glass geochemistry, age estimate, and details on its climastratigraphical. *Quaternary Science Reviews*. DOI: 10.1016/j.quascirev.2014.04.002.
- Martin-Puertas, C., Brauer, A., **Wulf**, S., Ott, F., Lauterbach, S., Dulski, P. (2014): Annual proxy data from Lago Grande di Monticchio (southern Italy) contributing to chronological constraints and abrupt climate oscillations between 76 and 112 ka. *Climate of the Past Discussions* 10, 2595-2626.
- Douka, K., Jacobs, Z., Lane, C., Grün, R., Farr, L., Hunt, C., Inglis, R.H., Reynolds, T., Albert, P., Aubert, M., Cullen, V., Hill, E., Kinsley, L., Roberts, R.G., Tomlinson, E.L., **Wulf**, S., Barker, G. (2014). The chronostratigraphy of the Haua Fteah cave (Cyrenaica, northeast Libya). *Journal of Human Evolution* 66, 39-63.
- Cross, J.K., Tomlinson, E.L., Giordano, G., Smith, V.C., De Benedetti, A.A., Roberge, J., Manning, C.J., **Wulf**, S., Menzies, M.A. (2014): High level triggers for explosive maar volcanism: Albano Maar, Italy. *Lithos* 190-191, 137-153.

### **2013:**

- Albert, P.G., Tomlinson, E., Lane, C.S., **Wulf**, S., Smith, V.C., Coltell, M., Keller, J., Lo Castro, D., Manning, C.J., Müller, W., Menzies, M.A. (2013): Late glacial explosive activity on Mount Etna: implications for proximal-distal tephra correlations and the synchronization of Mediterranean archives. *Journal of Volcanology and Geothermal Research* 265, 9-26.
- Wulf**, S., Ott, F., Słowiński, M., Noryśkiewicz, A.M., Dräger, N., Martin-Puertas, C., Czymzik, M., Neugebauer, I., Dulski, P., Bourne, A., Błaszkiewicz, M., Brauer, A. (2013): Tracing the Laacher See Tephra in the varved sediment record of the Trzechowskie palaeolake in central Northern Poland. *Quaternary Science Reviews* 76, 129-139.

### **2012:**

- Wulf**, S., Keller, J., Paterne, M., Mingram, J., Lauterbach, S., Opitz, S., Sottili, G., Giaccio, B., Albert, P., Satow, C., Viccaro, M., Brauer, A. (2012): The 100-133 record of Italian explosive volcanism and revised tephrochronology of Lago Grande di Monticchio. *Quaternary Science Reviews* 58, 104-123.
- Giaccio, B., Nomade, S., **Wulf**, S., Isaia, R., Sottili, G., Cavuoto, G., Galli, P., Messina, P., Sposato, A., Sulpizio, R., Zanchetta, G. (2012): The late MIS 5 Mediterranean tephra markers: a reappraisal from peninsular Italy terrestrial records. *Quaternary Science Reviews* 56, 31-45.
- Tomlinson, E.L., Arienzo, I., Civetta, L., **Wulf**, S., Smith, V.C., Hardiman, M., Lane, C.S., Carandente, A., Orsi, G., Rosi, M., Müller, W., Thirlwall, M.F., Menzies, M.F. (2012): Geochemistry of the Phlegraean Fields (Italy) proximal sources for major Mediterranean tephras. *Geochimica et Cosmochimica Acta* 93, 102-128.
- Roeser, P., Franz, S.O., Litt, T., Ülgen, U.B., Hilgers, A., **Wulf**, S., Wennrich, V., Ön, S.A., Viehberg, F.A., Cagatay, M.N., Melles, M. (2012): Lithostratigraphic and geochronological framework for the paleoenvironmental reconstruction of the last ~36 ka calBP from a sediment record from Lake Iznik (NW Turkey). *Quaternary International* 274, 73-87.
- Neugebauer, I., Brauer, A., Dräger, N., Dulski, P., **Wulf**, S., Plessen, B., Mingram, J., Herzschuh, U., Brande, A. (2012): A younger Dryas varve chronology from the Rehwiese palaeolake record in NE-Germany. *Quaternary Science Reviews* 36, 91-102.

### **2011:**

- Müller, U.C., Pross, J., Tzedakis, P.C., Gamble, C., Kotthoff, U., Schmiedl, G., **Wulf**, S., Christianis, K. (2011): The role of climate in the spread of modern humans into Europe. *Quaternary Science Reviews* 30, 273-279.

## 2010:

- Bourne, A., Lowe, J.J., Trincardi, F., Asioli, A., Blockley, S.P.E., **Wulf**, S., Matthews, I.P., Piva, A., Vigliotti, L. (2010): Distal tephra record for the last c. 105,000 years from core PRAD 1-2 in the central Adriatic Sea: implications for marine tephrostratigraphy. *Quaternary Science Reviews* 29, 3079-3094.
- Hamann, Y., **Wulf**, S., Ersoy, O., Ehrmann, W., Aydar, E., Schmiedl, G. (2010): First evidence of a distal early Holocene ash layer in Eastern Mediterranean deep-sea sediments derived from the Anatolian volcanic province. *Quaternary Research* 73, 497-506.

## 2009:

- Kienel, U., **Wulf** Bowen, S., Byrne, R., Böhnel, H., Dulski, P., Luhr, J.F., Siebert, L., Haug, G., Negendank, J.F.W. (2009): First lacustrine varve chronologies from Mexico: impact of droughts, ENSO and human activity since AD 1840 as recorded in maar sediments from Valle de Santiago. *Journal of Paleolimnology* 42, 587-609.
- Haberzettl, T., Anselmetti, F.S., **Wulf** Bowen, S., Fey, M., Mayr, C., Zolitschka, B., Ariztegui, D., Mauz, B., Ohlendorf, C., Kastner, S., Lücke, A., Schäbitz, F., Wille, M. (2009): Late Pleistocene dust deposition in the Patagonian steppe - extending and refining the paleoenvironmental and tephrochronological record from Laguna Potrok Aike back to 55 ka. *Journal of Quaternary Science Reviews* 28, 2927-2939.

## 2008:

- Wulf**, S., Kraml, M., Keller, J. (2008): Towards a detailed distal tephrostratigraphy in the Central Mediterranean: the last 20,000 yrs record of Lago Grande di Monticchio. *Journal of Volcanology and Geothermal Research* 177, 118-132.
- Zanchetta, G., Sulpizio, R., Giaccio, B., Siani, G., Paterne, M., **Wulf**, S., D'Orazio, M. (2008): The Y-3 tephra: a last glacial stratigraphic marker for the central Mediterranean basin. *Journal of Volcanology and Geothermal Research* 177, 145-154.
- Wagner, B., Sulpizio, R., Zanchetta, G., **Wulf**, S., Wessel, M., Daut, G., Nowaczyk, N. (2008): The last 40 ka tephrostratigraphic record of Lake Ohrid, Albania and Macedonia: a very distal archive for ash dispersal from Italian volcanoes. *Journal of Volcanology and Geothermal Research* 177, 71-80.
- Kwiecien, O., Arz, H.W., Lamy, F., **Wulf**, S., Bahr, A., Röhl, U., Haug, G.H. (2008): Estimated reservoir ages of the Black Sea since the last Glacial. *Radiocarbon* 50, 1-20.
- Haberzettl, T., Kück, B., **Wulf**, S., Anselmetti, F., Ariztegui, D., Corbella, H., Fey, M., Janssen, S., Lücke, A., Mayr, C., Ohlendorf, C., Schäbitz, F., Schleser, G.H., Wille, M., Zolitschka, B. (2008): Hydrological variability and explosive volcanic activity in southeastern Patagonia during Oxygen Isotope Stage 3 and the Holocene inferred from lake sediments of Laguna Potrok Aike, Argentina. *Palaeogeography, Palaeoclimatology, Palaeoecology* 259, 213-229.
- Turney, C.S.M., Blockley, S.P.E., Lowe, J.J., **Wulf**, S., Branch, N.P., Mastrolorenzo, G., Swindle, G., Nathan, R., Pollard, M. (2008): Geochemical characterisation of Quaternary tephras from the Campanian Province, Italy. *Quaternary International* 178, 288-305.

## 2007:

- Brauer, A., Allen, J.R.M., Mingram, J., Dulski, P., **Wulf**, S., Huntley, B. (2007): Evidence for last interglacial chronology and environmental change from Southern Europe. *PNAS* 104, 450-455.
- Brauer, A., **Wulf**, S., Mangili, C., Appelt, O., Moscariello, A. (2007): Tephrochronological dating of varved interglacial lake deposits from Piànico-Sellere (Southern Alps, Italy) to around 400 ka: a reply to D. Pinti, V. Rouchon, X. Quidelleur, P.-Y. Gillot, S. Chiesa, C. Ravazzi. *Journal of Quaternary Science* 22, 415-418.
- Brauer, A., **Wulf**, S., Mangili, C., Moscariello, A. (2007): Tephrochronological dating of varved interglacial lake deposits from Piànico-Sellere (Southern Alps, Italy) to around 400 ka. *Journal of Quaternary Science* 22, 85-96.

Lowe, J.J., Blockley, S., Trincardi, F., Asioli, A., Cattaneo, A., Matthews, I.P., Pollard, M., **Wulf**, S. (2007): Age modelling of late Quaternary marine sequences in the Adriatic: towards improved precision and accuracy using volcanic event stratigraphy. *Continental Shelf Research* 27, 560-582.

Haberzettl, T., Corbella, H., Fey, M., Janssen, S., Lücke, A., Mayr, C., Ohlendorf, C., Schäbitz, F., Schleser, G.H., Wille, M., **Wulf**, S., Zolitschka, B. (2007): Lateglacial and Holocene wet-dry cycles in southern Patagonia: chronology, sedimentology and geochemistry of a lacustrine record from Laguna Potrok Aike, Argentina. *The Holocene* 17, 297-310.

#### **2004:**

**Wulf**, S., Kraml, M., Keller, J., Negendank, J.F.W. (2004): Tephrochronology of the 100 ka lacustrine sediment record of Lago Grande di Monticchio (southern Italy). *Quaternary International* 122, 7-30.

#### **2002:**

**Wulf**, S., Kraml, M., Kuhn, T., Schwarz, M., Inthorn, M., Keller, J., Kuscu, I., Halbach, P. (2002): Marine tephra from the Cape Riva eruption (22 ka) of Santorini in the Sea of Marmara. *Marine Geology* 183, 131-141.

#### **2000:**

Zolitschka, B., **Wulf**, S., Negendank, J.F.W. (2000): Circum-Mediterranean lake records as archive of climatic and human history. *Quaternary International* 73/74, 1-5.

Brauer, A., Mingram, J., Frank, U., Günter, C., Schettler, G., **Wulf**, S., Zolitschka, B., Negendank, J.F.W. (2000): Abrupt environmental oscillations during the Early Weichselian recorded at Lago Grande di Monticchio, southern Italy. *Quaternary International* 73/74, 79-90.

#### **1999:**

Allen, J.R.M., Brandt, U., Brauer, A., Hubberten, H.-W., Huntley, B., Keller, J., Kraml, M., Mackensen, A., Mingram, J., Negendank, J.F.W., Nowaczyk, N.R., Oberhänsli, H., Watts, W.A., **Wulf**, S., Zolitschka, B. (1999): Rapid environmental changes in southern Europe during the last glacial period. *Nature* Vol. 400, No. 6746, 740-743.

Ramrath, A., Zolitschka, B., **Wulf**, S., Negendank, J.F.W. (1999): Late Pleistocene climatic variations as recorded in two Italian maar lakes (Lago di Mezzano, Lago Grande di Monticchio). *Quaternary Science Reviews* 18, 977-992.

Brandt, U., Nowaczyk, N.R., Ramrath, A., Brauer, A., Mingram, J., **Wulf**, S., Negendank, J.F.W. (1999): Palaeomagnetism of Holocene and Late Pleistocene sediments from Lago di Mezzano and Lago Grande di Monticchio (Italy): initial results. *Quaternary Science Reviews* 18, 961-976.

### **Other Publications**

#### **In press:**

Marchetto, A., Ariztegui, D., Brauer, A., Lami, A., Mercuri, A.M., Sadori, L., Vigliotti, L., **Wulf**, S., Guilizzoni, P (in press): Volcanic lake sediments as sensitive archives of climate and environmental change. In: Rouwet, D., Christenson, B., Tassi, F., Vandemeulebrouck, J. (eds.), *Volcanic Lakes*. Springer-Verlag.

#### **2010:**

Hornbach, M., J., Mann, P., Taylor, F.W., **Wulf** Bowen, S. (2010): Estimating the age of near-shore carbonate slides using coral reefs and erosional markers: a case study from Curacao, Netherlands Antilles. *The Sedimentary record, Society for Sedimentary Geology*, Vol.8, 4-10, DOI: 10.2101/sedred.2010.1.

#### **2006:**

**Wulf**, S., Brauer, A., Mingram, J., Zolitschka, B., Negendank, J.F.W. (2006): Distal tephras in the sediments of Monticchio maar lakes. In: Principe, C. (ed.), *Geologia del Monte Vulture. Bollettino della Società Geologica Italiana*, 105-122.

## **2001:**

Allen, J.R.M., Brandt, U., Brauer, A., Hubberten, H.-W., Huntley, B., Keller, J., Kraml, M., Mingram, J., Negendank, J.F.W., Nowaczyk, N.R., Oberhänsli, H., Watts, W.A., **Wulf**, S., Zolitschka, B. (2001): One hundred thousand years of environmental change – new high-resolution evidence from Mediterranean lacustrine and marine sediments. *Biology and Environment: Proceedings of the Royal Irish Academy* 101B (1-2), 157-158.

## **2000:**

Frank, U., **Wulf**, S., Nowaczyk, N.R., Negendank, J.F.W. (2000): Identifying ash layers from different Italian volcanic provinces by their rock magnetic properties. *Geophysical Research Abstracts* 2, 142.

## **1999:**

Vos, H., **Wulf**, S., Negendank, J.F.W. (1999): Lago Grande di Monticchio - time series analysis of tephra deposition. *Terra Nostra* 99/10, 107-112

## **1998:**

Oberhänsli, H., Brandt, U., Brauer, A., Hubberten, H., Kraml, M., Keller, J., Mackensen, A., Mingram, J., Negendank, J.F.W., Nowaczyk, N.R., Schettler, G., **Wulf**, S., Zolitschka, B. (1998): Paleoclimatic signals of the last 100 kyrs: A comparison of results from Lago Grande di Monticchio and METEOR core ME 25/4-11 (N slope of Ionian Basin). *Terra Nostra* 98/6, 103-108.

## **Habilitation Thesis:**

Wulf, S. (2014): Methods and applications of tephrochronology in sedimentary archives. University of Potsdam.

## **PhD Thesis:**

Wulf, S. (2001): Das tephrochronologische Referenzprofil des Lago Grande di Monticchio – eine detaillierte Stratigraphie des Süditalienischen explosiven Vulkanismus der letzten 100.000 Jahre. University of Potsdam, *Scientific Technical Report* STR01/03, 124 pp.

## **Diploma Thesis:**

Wulf, S. (1997): Typologie und Internstrukturen von Zirkonen von syn-tektonischen Granitoids der West- und Zentralböhmischen Scherzone. Justus-Liebig-University Giessen, 151 pp.

## **ORAL PRESENTATIONS (International Conferences and Workshops)**

Wulf, S., Ott, F., Słowinski, M., Dräger, N., Neugebauer, I., Martin-Puertas, C., Brauer, A. (2014): The use of tephras as tools for synchronizing palaeoclimate records – an example from Lateglacial central European varved lake records. International REKLIM conference “Our Climate – Our Future”, Berlin, Germany, October 6-9, 2014.

Wulf, S., Martin-Puertas, C., Brauer, A. (2012): Quantitative climate reconstruction from varved German and Italian lake records. INTIMATE Sub WG2 Workshop: Western Europe terrestrial records. Zaragoza, Spain, November 29 – December 1, 2012.

Wulf, S., Brauer, A., Mingram, J., Zolitschka, B., Negendank, J.F.W. (2011): Varved maar and crater lake sediments: Implications for a detailed tephrostratigraphy. 2<sup>nd</sup> Workshop of the PAGES Varves Working Group, Texas A&M University, Corpus Christi, USA, March 17-19, 2011.

Wulf, S., Brauer, A., Mingram, J., Negendank, J.F.W. (2011): The sedimentary record of Lago Grande di Monticchio, southern Italy: Implications for Eastern Mediterranean tephrostratigraphy. INTIMATE workshop “Towards high-resolution chronologies”, Potsdam, Germany, February 7-9, 2011.

- Wulf, S. (2005): Tephrochronology – a powerful tool in palaeoclimate research. Lake Ohrid workshop, Leipzig, Germany, December 16-17, 2005.
- Wulf, S. (2005): Late Pleistocene and Holocene tephrostratigraphy in the Eastern Mediterranean. ESF LESC Exploratory Workshop „Building a tephrochronological framework for Europe: the key to better models of abrupt environmental change“. Swansea, UK, April 9-12, 2005
- Wulf, S., Kienel, U., Böhnle, H., Byrne, R.A., Negendank, J.F.W. (2004): The importance of tephrochronology to Central Mexican paleoclimate records. 4th Reunión Nacional de Ciencias de la Tierra, Juriquilla, Queretaro, Mexico, October 31 – November 5, 2004.
- Wulf, S. (2003): Holocene tephrostratigraphy in the Eastern Mediterranean – a case study from the Monticchio lacustrine record (southern Italy). ESF-HOLIVAR Workshop, Zeist, Netherlands, April 24-27, 2003.
- Wulf, S., Mingram, J., Brauer, A., Negendank, J.F.W. (2003): Sedimentological and tephrostratigraphical investigations of a Last Interglacial sediment profile from Lago Grande di Monticchio, southern Italy. EGS –AGU – EUG Joint Assembly, Nice, France, April 7-11, 2003.
- Negendank, J.F.W., Wulf, S., Brauer, A., Mingram, J. (2001): Maar lake sediments in the Mediterranean: high-resolution archives for tephra recording and paleoenvironmental reconstruction – a case study from Lago Grande di Monticchio (southern Italy). AGU 2001 Fall Meeting, San Francisco, California, December 10-14, 2001.
- Wulf, S., Negendank, J.F.W., Brauer, A., Mingram, J., Zolitschka, B. (2001): Application to tephrostratigraphy of lacustrine sediment records in the Mediterranean – a case study from Lago Grande di Monticchio (southern Italy). 6<sup>th</sup> Workshop of the European Lake Drilling Program (ELDP), Potsdam, Germany, May 11-16, 2001.
- Wulf, S., Brauer, A., Frank, U., Mingram, J., Negendank, J.F.W., Zolitschka, B. (2001): Linking Mediterranean terrestrial and marine paleorecords using the high-resolution tephrochronological record of the last 100 ka from Lago Grande di Monticchio (southern Italy). EUG, Strasbourg, France, April 8-12, 2001.
- Wulf, S., Negendank, J.F.W., Mingram, J., Zolitschka, B., Kraml, M., Keller, J. (1999): Detailed history of the Italian explosive volcanism as documented within a 110 ka sediment record of Lago Grande di Monticchio (Mt. Vulture, southern Italy). EUG, Strasbourg, France, March 28 – April 1, 1999.

## **INVITED TALKS**

- Wulf, S. (2013): RESET Finale Meeting, The British Museum, London, U.K., June 6-8, 2013; Prospects for adding to the tephra isochron record.
- Wulf, S. (2012): Department of Geography Seminars, Swansea University, Wales, November 7, 2012; Central Mediterranean tephrostratigraphy – an example from the 100-133 ka Lago Grande di Monticchio key record.
- Wulf, S. (2011): RHUL Geography Lectures, Royal Holloway University of London, U.K., November 02, 2011; The sedimentary record of Lago Grande di Monticchio, Southern Italy: Implications for the Eastern Mediterranean tephrostratigraphy of the last 135 kyrs.
- Wulf, S. (2010): RESET Mid-Programme Review and 2nd Advisory Panel Meeting, Salerno, Italy, September 19-24, 2010; The 135 ka tephrostratigraphic profile of Lago Grande di Monticchio (Basilicata, southern Italy).

## **POSTER PRESENTATION (selected work)**

- Wulf, S., Dräger, N., Ott, F., Serb, J., Brauer, A. (2014): Findings of historical Icelandic (Askja AD 1875) tephras in varved lake records from Lake Tiefer See and Lake Czechowskie: a new potential for synchronizing the recent environmental history in NE Germany and N central Poland. EGU Geophysical Research Abstracts Vol. 16, EGU2014-9947, EGU General Assembly Vienna, Austria, April 27-May 02, 2014.

- Wulf, S., Ott, F., Słowinski, M., Dräger, N., Dulski, P., Noryśkiewicz, A.M., Neugebauer, I., Martin-Puertas, C., Błaszkiewicz, M., Brauer, A. (2013): Tephrochronological linking of lake sediment sequences from Germany and northern Poland. 2<sup>nd</sup> Annual ICLEA Workshop 2013, Stara Kiszewa, Poland, April 23-26, 2013.
- Wulf, S., Ott, F., Słowinski, M., Dräger, N., Noryśkiewicz, A.M., Neugebauer, I., Martin-Puertas, C., Czymzik, M., Błaszkiewicz, M., Brauer, A. (2013): Synchronizing European terrestrial palaeoclimate records by tephrochronology – an example from the Laacher See Tephra (12.9 ka BP). REKLIM workshop, Bad Honnef, Germany, April 16-18, 2013.
- Wulf, S., Baier, J., Haug, G., Dokken, T., Jansen, E., Wastegard, S., Dulski, P., Nowaczyk, N.R., Brauer, A. (2011): A 140 ka medial-distal marine record of Icelandic tephra events: examples from core HMO3-133-10 (Norwegian Sea). Marine Tephrochronology Meeting, Burlington House, London, UK, October 26, 2011.
- Wulf, S., Boon, R., Hornbach, M., Mann, P., King, W. (2008): Distinguishing paleo-tsunami and storm deposits in distal lagoon and bay sediments in Curacao (Netherlands Antilles). Ocean Science Meeting, Orlando, Florida, March 2-7, 2008.
- Wulf, S., Dull, R.A., Mann, P., McIntosh, K.D., Gardner, J.E. (2007): Late Pleistocene/Holocene paleoclimate reconstruction and eruptive history of Central American volcanoes from bottom sediments of Lake Nicaragua. AGU 2007 Fall Meeting, San Francisco, California, December 10-14, 2007.
- Kienel, U., Wulf, S., Byrne, R., Böhnel, H., Haug, G. H. (2007): Annual paleolimnology of two maar lakes (Valle de Santiago, Mexico) back to AD 1840 based on varves, tephra and element chemistry. In: 4th International Limnogeology Congress (ILIC 2007) - Limnogeology: tales of an evolving Earth. Barcelona, Spain, July 11-14, 2007.
- Wulf, S., Dull, R., Mann, P., McIntosh, K.D., Funk, J., Gardner, E. (2007): Extracting paleoclimate records and the eruptive history of Central American volcanoes from late Pleistocene lake bottom sediments of Lake Nicaragua (Nicaragua). MARGINS workshop, Heredia, Costa Rica, June 18-22, 2007.
- Funk, J., Mann, P., McIntosh, K.D., Wulf, S., Dull, R., Perez, P., Strauch, W. (2006): Results from NICLAES survey of active faulting beneath Lake Nicaragua, Central American volcanic arc. AGU 2006 Fall Meeting, San Francisco, California, December 11-15, 2006.
- Kwiecien, O., Arz, H. W., Lamy, F., Bahr, A., Wulf, S., Haug, G. H. (2006): Preliminary results on core MD04 2760 from the southwestern Black Sea. 3rd General Assembly European Geosciences Union, Vienna, Austria, April 2-7, 2006.
- Kienel, U., Wulf, S., Böhnel, H. (2005): Annually laminated lacustrine sediments from Hoya La Alberca in Central Mexico – do they preserve a paleoclimate signal? – Preliminary results. Latin American colloquium, Potsdam, Germany, April 18-20, 2004.
- Wulf, S., Kienel, U., Böhnel, H., Negendank, J.F.W. (2004): The maar lakes of Valle de Santiago (Michoacán-Guanajuato Volcanic Field, Central Mexico): pitfalls for recording tephra events of TMVB high-explosive volcanoes. Penrose Conference “Neogene-Quaternary continental margin volcanism”, Metepec, Mexico, January 12-16, 2004.
- Wulf, S., Kuhn, T., Kraml, M., Schwarz, M., Inthorn, M., Keller, J., Halbach, P. (2001): New occurrence of the Y-2 tephra (Cape Riva eruption, Santorini) in sediments of the Sea of Marmara. AGU 2001 Fall Meeting, San Francisco, California, December 10-14, 2001.
- Wulf, S., Brauer, A., Frank, U., Mingram, J., Nowaczyk, N.R., Zolitschka, B., Negendank, J.F.W. (2001): The Lago Grande di Monticchio (Italy) – a high-resolution archive for palaeoenvironmental and tephrostratigraphical investigations of the last 101 ka. PAGES-PEP III Conference, Aix-en-Provence, France, August 27-30, 2001.

- Wulf, S., Brauer, A., Frank, U., Mingram, J., Negendank, J.F.W. (2001): Detailed stratigraphy of the Italian explosive volcanism in sediments of Lago Grande di Monticchio. IAVCEI Cities on Volcanoes 2 Conference, Auckland, New Zealand, February 12-16, 2001.
- Wulf, S., Brauer, A., Frank, U., Mingram, J., Negendank, J.F.W., Nowaczyk, N.R., Zolitschka, B. (2000): New evidence of rapid climate change in maar lake sediments of the Mediterranean: the high-resolution tephrochronological record of Lago Grande di Monticchio (Italy). International Maar Conference, Daun, Eifel volcanic field, Germany, August 20-23, 2000.
- Wulf, S., Negendank, J.F.W., Brauer, A., Mingram, J., Zolitschka, B. (1999): Tephra layers – tools for correlating high resolution sediment sequences in the Mediterranean. 1<sup>st</sup> Workshop Southern Europe Group ELDP, Zaragoza, Spain, November 26-27, 1999, Abstracts, p. 54-56.
- Vos, H., Wulf, S., Negendank, J. F. W. (1999): Lago Grande di Monticchio - time series analysis of tephra deposition. Correlations of late Weichselian and Holocene palaeoenvironment proxy data. 4th Workshop of the European Lake Drilling Programme, Lund, Sweden, September 22-26, 1999.
- Wulf, S., Negendank, J.F.W., Mingram, J., Zolitschka, B., Vos, H. (1999): Explosivity of South-Italian volcanoes and climate change during the last 110,000 years. IUGG 99, Birmingham, UK, July 19-30, 1999, Abstracts, p.174.
- Wulf, S., Negendank, J.F.W., Mingram, J., Zolitschka, B. (1999): Detailed history of the Italian explosive volcanism as documented within a 110 ka sediment record of Lago Grande di Monticchio (Mt. Vulture, southern Italy). IUGG 99, Birmingham, UK, July 19-30, 1999, Abstracts, p.173.
- Wulf, S., Negendank, J.F.W., Mingram, J., Zolitschka, B., Vos, H. (1999): Correlation between explosive activity of South-Italian volcanoes and climate change during the last glacial cycle. „Lennou“ - The 2<sup>nd</sup> International Congress of Limnogeology, Plouzane, France, May 25-28, 1999.
- Wulf, S., Negendank, J.F.W., Brauer, A., Mingram, J., Zolitschka, B. (1998): Tephrochronology of a 100,000 year sediment profile of Lago Grande di Monticchio (southern Italy). INQUA COT/UISPP 31 Inter-Congress Symposium, Brives-Charensac, France, August 24-29, 1998, Abstracts, p. 190-193.
- Wulf, S., Negendank, J.F.W., Brauer, A., Mingram, J., Zolitschka, B. (1998): The Italian explosive volcanic history (>300 tephra layers) documented within a 100 ka sediment profile of Lago Grande di Monticchio (Mt.Vulture, southern Italy). IAVCEI Cities on volcanoes I Conference, Rome and Naples, Italy, June 28 – July 4, 1998, Abstracts, p.140.