

## Dr. Sonja Hausmann

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### EDUCATION

Ph.D.: University of Bern, Switzerland, 2001, Paleolimnology  
M.S.: Technical University of Munich, Germany, 1997, Limnology  
B.S.: University of Würzburg, 1993, Germany, Major-Biology

### WORK HISTORY

2006-Present: Assistant Professor, Department of Geosciences, University of Arkansas  
2007-2009: Adjunct Professor, Department of Geography, Université Laval  
2005-2006: Research Associate in Arctic Net, Department of Geography, Université Laval, Canada  
2002-2005: Postdoctoral Researcher, Department of Geography, Université Laval  
1997-2001: Research Associate, Institute of Plant Sciences, U. of Berne, Switzerland  
1996-1997: Research Assistant in Ecotoxicology Swiss Federal Institute for Environmental Science and Technology (EAWAG), Zurich, Switzerland

### COURSES TAUGHT

- Conservation of Natural Resources GEOG 3003, H-GEOG 3003: Fall 2006, 2007, 2008, 2009, 2010, 2011 and Spring 2008, 2009, 2011
- Climate through Time ENDY/BIO/GEOS 5063: Spring 2007, 2010 and 2009, Fall 2011
- Pollution of Lakes and Rivers ENDY 6023/BIO 480/GEOG 4333: Fall 2007, Fall 2008, Spring 2011
- Research Methods for Geographers GEOG 5333: Fall 2009
- Ecology and Taxonomy of Algae GEOL 580V: Fall 2010

### PEER REVIEWED PUBLICATIONS

1. Hausmann S., Larocque I., Richard P.J.H., Pienitz R., St-Onge G. and Fye F. (2011). Diatom-inferred wind activity at Lac du Sommet, southern Québec, Canada: adding coherence to a multi-proxy paleoclimate reconstruction based on diatoms, chironomids and pollen for the past 9500 years. *The Holocene*. 21, 6, 925-938.
2. Guyard H., St-Onge G., Pienitz R., Clarke G., Francus P., Hausmann S., Zolitschka B., Lamothe M., Lajeunesse P., Black J., Salonen V-P. (in press). Deglacial and postglacial history from the Pingualuit Crater Lake (Nunavik, Canada) Sediments. *Quaternary Science Reviews*.
3. Rosén P., Vogel H., Cunningham L., Hahn A., Hausmann S., Reinhard Pienitz R., Bernd Zolitschka B., Bernd Wagner B. and Persson P. (in press). A globally applicable model for quantitative determination of lake sediment properties using Fourier transform infrared spectroscopy submitted to *Environmental Science and Technology*.
4. Hausmann S., Hall R. and Gell P. (2011). Floodplain Lakes: Evolution and Response, *EOS, Transactions, American Geophysical Union*, (92)18, 154.
5. Black J.L., Hausmann S., Pienitz R. and Edlund M.B. (accepted). *Cyclotella Pingualuitii*, sp. nov a new Pleistocene diatom from Pingualuit Crater Lake, northern Quebec, Canada, *Diatom research*.
6. Winston B., Hausmann S., Scott J.T., Boss S.K., Davis R.K., Green R., Robert Morgan R. (accepted) Climatic Control of Taste and Odor Production in a South Central U.S Reservoir, *Harmful Algae*.
7. Hausmann S. and Pienitz R. (2009). Seasonal water chemistry and diatom changes in six boreal lakes of the Laurentian Mountains (Québec, Canada): impacts of climate and timber. *Hydrobiologia*, 635, 1-14.
8. Laperrière L., Fallu M.A., Hausmann S., Pienitz R. and Muir D. (2008). Paleolimnological evidence of mining and demographic impacts on lac Dauriat, Schefferville (subarctic Québec, Canada). *Journal of Paleolimnology*, 40(1), 309-324.
9. Hausmann S. and Pienitz R. (2007). Seasonal climate inferences from high-resolution modern diatom data along a climate gradient: A case study. *Journal of Paleolimnology*, (38) 73-96.

10. Bigler Ch., von Gunten L., Lotter A.F., **Hausmann S.**, Blass A., Ohlendorf Ch., Sturm M. (2007) Quantifying human-induced eutrophication in Swiss mountain lakes since AD 1800 using diatoms. *The Holocene*, 17 (8), 1141-1154.
11. **Hausmann S.** and Kienast F. (2006). Optimisation of transfer functions by homogenisation of environmental variables: A validated case study for Greifensee in central Europe. *Palaeogeography, Palaeoclimatology, Palaeoecology*, (223), 96-112.
12. Heiri O., Lotter A.F., **Hausmann S.** and Kienast F. (2003). A chironomid-based Holocene summer air temperature reconstruction from the Swiss Alps. *The Holocene*, 13(4), 477-484. Cited 79 times,
13. Ohlendorf C., Sturm M. and **Hausmann S.** (2003). Natural environmental changes and human impact reflected in sediments of a high alpine lake in Switzerland. *Journal of Paleolimnology*, 30 (3), 297-306.
14. **Hausmann S.**, Lotter A.F., van Leeuwen J.F.N., Sturm M., Ohlendorf Ch. and Lemcke G. (2002). Climate alter grazing regimes: A quantitative multi-proxy, high-resolution study of varved sediments from a small Swiss alpine lake. *The Holocene*, 12 (3), 279-289.
15. **Hausmann S.** and Lotter A.F. (2001). Numerical *Cyclotella comensis* taxonomy and its Importance for quantitative temperature reconstruction. *Freshwater Biology*, 46(10), 1323-1333.
16. **Hausmann S.**, v. Leuween J., Lotter A.F., Ohlendorf C., and Sturm M. (1999). Étude à haute résolution des derniers siècles dans les sédiments laminés du lac subalpin de Seeberg (Suisse). *Cryptogamie Algologie*, 20 (2), 111-112.

#### MEMBERSHIP IN SCHOLARLY SOCIETIES

American Association of Geographers (AAG), American Quaternary Association (AMQUA), Geological Society of America (GSA), American Geophysical Union (AGU), International Paleolimnology Association (IPA), Vice president of the Association of Women in Sciences (AWIS) Ozark Chapter

#### STUDENTS

- M.S.:** R. Keveren (defended in 2010, principal advisor), Colton Flynn (principal advisor) Courtney Ciapciak (principal advisor), Haley Hames (co-advisor)
- Ph.D.:** Byron Winston (principal advisor), Ruchi Bhattacharya (principal advisor), Diana Storch (co-advisor), Alice Jernigan (co-advisor), Renee Vardy (co-advisor), Anna Wiesner (co-advisor)

#### HONORS and AWARDS

- Funding from NSF, USGS, Swiss National Science Foundation, Canadian Foundation of Climate and Atmo-spheric Sciences, Foundation of German Natural Scientists, Fulbright College, PAGES (Past Global Change)
- 2010 Recognized as Outstanding Mentor by UofA Provost and Chancellor
- 2008 Connor Faculty Fellow: I got awarded with the Sandra Connor Endowed Faculty. Fellowship for highest quality teaching, research and service to the college, \$ 1,500
- 2008 New Faculty Commendation for Teaching Commitment at the University of Arkansas
- 1998 Best poster at the advanced EU course "Climate reconstruction of Holocene", UCL, London, U.K.

#### SYNERGISTIC ACTIVITIES

- Reviewer for National Science Foundation, German National Science Foundation, National Geographic, J. of Paleolimnology, Hydrobiologia, The Holocene, Geology, Journal of Phycology, Journal of Quaternary Reviews, Paleo3.
- Scientific project manager for the New Quebec Crater Lake Project (30 scientists, five countries).
- Research projects related to climate impact on taste and odor problems in Beaver Reservoir in collaboration with the Beaver Water District.
- Convened a Floodplain Lake session "at the International Paleolimnology Symposium in Dec 2009 and at the North American Diatom Symposium Sept 2011 and organizes an international PAGES Floodplain lake workshop in Arkansas in September 2010.
- Steering committee member of the Environmental Dynamics PhD program of the University of Arkansas, Departmental representative in the Library Committee. Fulbright Sustainability representative, Vice president of the Association of Women in Sciences (AWIS) Ozark Chapter.