

# Curriculum Vitae David Lazarus

Dr. David B. Lazarus  
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## **General**

1954            born Minneapolis, Minnesota; US Citizen  
1988            married; (2 daughters)

## **Education**

1959-1971      Public schools in Minnesota, Michigan, California and Oregon  
1971-1972      Macalaster College in Minneapolis  
1973-1977      University of Minnesota, Minneapolis; B. Sc.  
1977-1979      Columbia University, New York; M. A. and M. Phil.  
1984            Ph. D., Columbia University/Lamont Doherty Geological Observatory (Palisades, New York), Dr. J.D. Hays, advisor. Thesis title: "Speciation and Phyletic Evolution in the Radiolarian Species-complex *Pterocanium*".

## **Professional Employment**

1983-1984      Assistant Scientist, Lamont-Doherty Geological Observatory  
1984-1988      Assistant Scientist, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts  
1987-1995      Staff Scientist, Geologischen Institut, ETH Zürich  
1996 -Recent   Curator for Micropaleontology, Museum für Naturkunde, Berlin

## **Scientific Interests**

Taxonomy (radiolarians), biostratigraphy, paleoceanography and evolutionary biology (theory and applied studies using various fossil materials), applications of information technology in paleontology.

## **Professional Memberships**

American Association for the Advancement of Science  
American Geophysical Union  
The Micropalaeontological Society  
International Association of Radiolarian Paleontologists

## **Field Experience**

June 1981            Graduate assistant, NOAA Mt. Mitchell, U.S. Continental Slope  
Sept.-Oct. 1985      Micropaleontology, ODP Leg 105, Labrador Sea and Baffin Bay  
Jan.-March 1987      Micropaleontology, ODP Leg 113, Weddell Sea, Antarctica  
Feb.-April 1988      Micropaleontology, ODP Leg 120, Kerguelen Plateau, Antarctica  
Oct. 2017            Radiolarian biology, Sesoko Station, Okinawa

## **Technical Skills**

Languages: English (native), German (fluent)  
Simple programming in procedural languages (several since 1960s, currently Python) - command-line and GUI apps: data munging, statistics, simulations and graphics; SQL databases (Postgres); image analysis.

## ***Older Activities (selected)***

- various** Invited Speaker, Harvard, Yale, National Science Museum Tokyo, UCL, Linnean Society, Lyell symposia, Utsunomiya U.; Tohoku U., Kyushu U.; various special symposia at AGU, NAPC, TMS, IPC, other prof. societies; museums
- various** Keynote speaker, various meetings
- various** Invited Participant, ODP IHP and IODP STP meetings
- various** Participant, COSOD II, COMPLEX deep-sea drilling planning conferences
- 1998-2001** Editor, Marine Micropaleontology (Europe, Africa and the Near East)
- 2004-2008** SOCRATES Guest Lecturer in Micropaleontology, University College London
- 2005-2009** Chair, Siliceous Microfossils Section, The Micropalaeontological Society
- 2009** Invited Participant, Encyclopedia of Life workshop, Woods Hole, MA
- 2004-2009** Member, Joint Haeckel and Ehrenberg Project (National Science Museum, Japan) and resulting NSMJ monograph No. 40 (2009): p. 1-106; plus ca 250 plates
- 2004-2010** Chairman, Micropaleontology Working Group, The Paleobiology Database project (PBDB)
- 2006-2010** Member, Advisory Board, The Paleobiology Database
- various** Organizer or Co-organizer of symposia and workshops at Interrad, International Paleontological Congresses, TMS, other prof. meetings; in support of chairman responsibilities (MRC workshops etc), often with following special journal issue editorial responsibility
- various** Invited Participant, national and international biodiversity informatics workshops/planning meetings

## ***Activities (selected, last 5 years)***

- various-Rec.** Editorial board, Marine Micropaleontology; Palaeogeography, Palaeoclimatology, Palaeoecology; Journal of Micropalaeontology; Revue de Micropaléontologie
- 2005-Recent** Lead Curator, ODP Micropaleontology Reference Center Network
- 2007-Recent** Co-chair, Paleontology Coordination Group (PCG), IODP-MI
- 2010-Recent** Editor, Polycystina, World Register of Marine Species (WoRMS)
- 2013** Invited speaker, TMS Silicofossil Meeting, Cambridge
- 2013** Lecturer, IODP-ECORD Summer School, Bremen, 16.9.2013
- 2013-2017** Head, MfN Paleontology Main Lab Facilities
- 2013-2017** Manager, GBIF-D Node 'Fossils'
- 2014** Member, GNS/NZARI New Zealand 'Southern Ocean and Antarctic climate response to high atmospheric CO<sub>2</sub> forcing' project (focus on Miocene, R. Levy, R. McKay, heads)
- 2015** Invited speaker, GeoX Meeting, Berlin
- 2015-2016** Scientific manager, MSc. Thesis, J. Giblin - 'Paleoceanography of Pleistocene Western Tropical Pacific', joint with T. Danelian, Lille, and Univ. South Pacific, Fiji
- 2016** Invited keynote speaker, joint DGGV/Austria GeoTirol Meeting, Innsbruck, 25-8.9.16
- 2016** Invited speaker, Lyell meeting 'Paleoinformatics', 9.3.16, London
- 2016** Invited speaker & external Ph.D. examiner, G. Fontorbe, 'Silicon Isotopes of Radiolaria', Lund, Sweden
- 2017-Recent** Member, MfN Taxonomy group
- 2017-Recent** Scientific co-manager, w. P. Noble, Ph.D. Thesis S. Trubovitz - 'Paleoenvironmental Impacts on Neogene Radiolarian Evolution', Reno, Nevada
- continuing** Reviews for journals-*PNAS*, *Nature Geosci.*, *PLoS-One*, *Geology*, *Deep-Sea Res.*, *Paleobiol.*, *Paleoc.*, *Clim. Past*, *Mar. Micropal.*, *Paleo-3*, *Geobio.*, *J. Plankton Res.*, *J. Paleon.*, *J. Sys. Pal.*, *Glob. Planet. Ch.*, *J. Biog.*, *Prog. Ocean.*, *Stratig.*, etc; proposals for *NSF*, *NERC*, *IODP*; *Swiss*, *Polish*, *Italian National Science Foundations*

## *Ten Selected Publications*

(full list at: <http://scholar.google.com/citations?user=NcEPVbsAAAAJ&hl=en>)  
see also resources at Researchgate

- Harwood, D., **Lazarus**, D. B., Aubry, M., Berggren, W. A., Heider, F., Inokuchi, H., Maruyama, T. 1992. Neogene stratigraphic synthesis, ODP Leg 120. In: *Proceedings of the Ocean Drilling Program, Scientific Results*, eds. Wise, W., Schlich, R., O'Connell, S., al., e., pp. 1031-1052. College Station, TX: Ocean Drilling Program.
- Lazarus**, D. B. 1994. The Neptune Project - a marine micropaleontology database. *Math. Geol.*, 26, 817-832. [current version NSB at: [www.nsb-mfn-berlin.de](http://www.nsb-mfn-berlin.de)]
- Lazarus**, D. B., Spencer-Cervato, C., Pianka-Biolzi, M., Beckmann, J. P., von Salis, K., Hilbrecht, H., Thierstein, H. R. 1995. Revised chronology of Neogene DSDP holes from the world ocean. *Ocean Drilling Program, Technical Notes* 24: ca. 250p. [frequently cited by use in Neptune, via publ. of Spencer-Cervato 1999]
- Lazarus**, D., Bittniok, B., Diester-Haass, L., Billups, K., Ogawa, Y., Takahashi, K. & Meyers, P. 2008. Radiolarian and sedimentologic paleoproductivity proxies in late Pleistocene sediments of the Benguela Upwelling System, ODP Site 1084. *Marine Micropaleontology*, 68: 223-235.
- Lazarus**, D., Kotrc, B., Wulf, G., Schmidt, D. N. 2009. Radiolarians decreased silicification as an evolutionary response to reduced Cenozoic ocean silica availability. *Proc. Nat. Acad. Sci. USA* 106: 9333-9338.
- Lazarus**, D. 2011. The deep-sea microfossil record of macroevolutionary change in plankton and its study. In: *Comparing the Geological and Fossil Records: Implications for Biodiversity Studies*, eds. Smith, A., McGowan, A., pp. 141-166. *Geological Society Special Publications*, 358; London: The Geological Society.
- Lazarus**, D., Dolven, J. K., Sanfilippo, A. 2011. Polycystina. *WoRMS*. [www.marinespecies.org](http://www.marinespecies.org)
- Lazarus**, D., Barron, J., Renaudie, J., Diver, P., Türke, A. 2014. Cenozoic diatom diversity and correlation to climate change. *PLoS One*, 9, 1-18.
- Lazarus**, D. 2014. The legacy of early radiolarian taxonomists, with a focus on the species published by early German workers. *Journal of Micropaleontology*, 33, 3-19.
- Wiese, R., Renaudie, J. and **Lazarus**, D. 2016. Testing the accuracy of genus-level data to predict species diversity in Cenozoic marine diatoms. *Geology* 44(12): 1051-1054.