

CURRICULUM VITAE
ANDREW S. COHEN

Chronology of Education

B.A. Middlebury College, Biology/Geology, 1976

Ph.D. University of California-Davis, Geology-Paleontology, 1982

Dissertation Title: *Ecological and Paleoeological Aspects of the Rift Valley Lakes of East*

Africa. Dissertation Director: Richard Cowen

Chronology of Employment

Present Position: Distinguished Professor of Geosciences
Joint Professor of Ecology and Evolutionary Biology
The University of Arizona
Tucson, Arizona 85721

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2019-2022 Associate Department Head-Geosciences. University of Arizona

2016 Visiting Professor, Institute of Zoology, University of Basel,
Switzerland

2015 Visiting Professor, Columbia University (Lamont-Dohert Earth
Institute)

2006-2007 Senior Fellow-Smithsonian Institution-National Museum of Natural History

1999/2000 Visiting Scholar, Monash University, Clayton, Victoria, Australia

1995-present Professor, University of Arizona

1993 Visiting Lecturer, Consejo Superior d'Investigaciones Cientificas, Barcelona,
Spain

1990-1995 Associate Professor, University of Arizona (since 1994, Joint Associate
Professor in Department of Ecology and Evolutionary Biology)

1986-1990 Assistant Professor, University of Arizona

1982-1986 Assistant Professor, Colorado College

1981-1983 Summer Lecturer, University of California-Davis, Natural History of Kenya

1982 Lecturer, University of California-Davis

1976-1980 Teaching Assistant, University of California-Davis

Honors and Awards

2021 Geological Society of America-Continental Scientific Drilling Division
Distinguished Lecturer

2018 American Geophysical Union Fellow

2018 International Limnogeology Association Wilmot H. Bradley Medal

2015 Geological Society of America (Limnogeology Division) Israel C. Russell Award

2014 University of Arizona Distinguished Professor Award

2003 University of Arizona Creative Teaching Award

1999 Middlebury College. Alumni Achievement Award

1994 Fellow, Geological Society of America

Scholarly Publications

Books

Cohen, A.S., (2003) *Paleolimnology. History and Evolution of Lake Systems*. Oxford Univ. Press, 500pp.

Peer-Reviewed Articles (174 peer reviewed publications, 11991 total citations as of Jan. 2, 2023; h-index 56)

1. **Cohen, A.S.** 1981 Paleolimnological Research at Lake Turkana, Kenya. *Paleoecology of Africa* 113: 61-82.
2. **Cohen, A.S.** 1982 Paleoenvironments of Root Casts from the Kobi Fora Formation, Kenya. *Jour. Sed. Pet.* 52: 401-414.
3. **Cohen, A.S.**, Dussinger, R. and Richardson, J. 1983 Lacustrine Paleochemical Interpretations Based on East and South African Ostracodes. *Paleogeog., Paleoclim., Paleoecol.* 43: 129-151.
4. **Cohen, A.S.** and Schwartz, H. 1983 Speciation in Molluscs from Turkana Basin. *Nature* 304: 659-660.
5. **Cohen, A.S.** 1984 The Significance of Zoobenthic Standing Crop for Laminae Formation in Tropical Lake Sediments. *Jour. Paleo.* 58: 499-510.
6. Mount, J.F. and **Cohen, A.S.** 1984 Petrology and Geochemistry of Rhizoliths Plio-Pleistocene Fluvial and Marginal Lacustrine Deposits, East Lake Turkana, Kenya. *Jour. Sed. Pet.* 54: 263-275.
7. **Cohen, A.S.**, Ferguson, D., Gram, P.M., Hubler, S. and Sims, K. 1986 The Distribution of Coarse Grained Sediments in Modern Lake Turkana: Implications for Clastic Sedimentation Models of Rift Lakes. In Frostick, L.E. (ed.) *Sedimentation in the African Rifts*, Geological Society of London Spec. Pub. 25, p. 127-139.
8. **Cohen, A.S.** 1986 Distribution and Faunal Associations of Benthic Invertebrates at Lake Turkana, Kenya. *Hydrobiologia* 74: 179-197.
9. **Cohen, A.S.** and Nielsen, C. 1986 Ostracodes as Indicators of Paleohydrochemistry in Lakes: A Late Quaternary Example from Lake Elmenteita, Kenya. *Palaios* 1: 601-609.
10. **Cohen, A.S.** and Thouin, C. 1987 Nearshore Carbonate Deposits in Lake Tanganyika. *Geology* 15: 414-418.
11. Noblett, J., **Cohen, A.**, Leonard, E., Loeffler, B. and Gevirtzman, D. 1987 The Garden of the Gods and Basal Phanerozoic Nonconformity In and Near Colorado Springs, CO. In Beuss, S. (ed.) *Centennial Field Guide vol. 2, Geol. Soc. Amer., Rocky Mtn. Sect.*, p. 335-338.
12. **Cohen, A.S.** 1987 Fossil Ostracodes from Lake Mobutu (L. Albert): Paleoecologic and Taphonomic Implications. *Paleoecology of Africa* 18: 271-281.
13. **Cohen, A.S.** and Johnston, M.R. 1987 Speciation in Brooding and Poorly Dispersing Lacustrine Organisms. *Palaios* 2: 426-435.
14. Johnston, M.R. and **Cohen, A.S.** 1987 Modes of Speciation in Gastropods from Lake Tanganyika. *Palaios* 2: 413--25.
15. **Cohen, A.S.** 1989 The taphonomy of gastropod shell accumulations in large lakes: An example from Lake Tanganyika, Africa. *Paleobiology* 15: 26-44.

16. **Cohen, A.S.** 1989 Facies Relationships and Sedimentation in Large Rift Lakes: Examples from Lakes Turkana and Tanganyika. *Paleogeog., Paleoclim., Paleoecol.* 70: 65-80
17. **Cohen, A.S.** 1990 A Tectonostratigraphic Model for Sedimentation in Lake Tanganyika, Africa. In Katz, B. Lacustrine Basin Exploration — Case Studies and Modern Analogs, *AAPG Mem.* 50: 137-150.
18. West, K., **Cohen, A.S.** and Baron, M. 1991 Morphology and Behavior of Crabs and Gastropods from Lake Tanganyika, Africa: Implications for Lacustrine Predator-Prey Coevolution. *Evolution* 45: 589-607.
19. **Cohen, A.S.** and Johnson, T. 1991 Penrose Conference Report — Large Lake Systems and their Stratigraphic Record. *GSA Today* 1.
20. **Cohen, A.S.** 1992 Criteria for Developing Viable Underwater Natural Reserves in Lake Tanganyika. *S.I.L. Mitteilungen Series. (Mitt. Internat., Verein Limnol.)* 23:109-116.
21. **Cohen, A.S.**, Lockley, M., Halfpenny, J. and Michel, A. 1991 Modern Vertebrate Track Taphonomy at Lake Manyara, Tanzania. *Palaios* 6: 371-389.
22. Michel, A.E., **Cohen, A.S.**, West, K., Johnston, M. and Kat, P. 1991 Large African Lakes as Natural Laboratories for Evolution: Examples from the Endemic Gastropod Fauna of Lake Tanganyika. *S.I.L. Mitteilungen Series* 23: 109-116.
23. Tiercelin, J.-J., Soreghan, M., **Cohen, A.S.**, Lezzar, K.E. and Bouroullec, J.-L. 1992 Sedimentation in Large Rift Lakes: Example from the Middle Pleistocene - Modern Deposits of the Tanganyika Trough, East African Rift System. *Bull. Centres Rech. Explor.-Prod. Elf Aquitaine* 16: 83-111.
24. **Cohen, A.S.**, Soreghan, M. and Scholz, C. 1993 Estimating the Age of Ancient Lake Basins: An Example from L. Tanganyika. *Geology* 21: 511-514.
25. **Cohen, A.**, Bills, R., Cocquyt, C. and Caljon, A. 1993. The Impact of Sediment Pollution on Biodiversity in Lake Tanganyika. *Conservation Biology* 7: 667-677.
26. Palacios-Fest, M., **Cohen, A.S.**, Ruiz, J. and Blank, B. 1993 Comparative Paleoclimatic Interpretations from Nonmarine Ostracodes using Faunal Assemblages, Trace Element Shell Chemistry and Stable Isotope Data. In Swart, P., Lohman, K., McKenzie, J. and Savin, S. (eds.) *Climate Change in Continental Isotopic Records*. AGU Monograph 78: 179-190.
27. **Cohen, A.**, Halfpenny, J., Lockley, M. and Michel, E. 1993 Modern Vertebrate Tracks from Lake Manyara, Tanzania and their Paleobiological Implications. *Paleobiology* 19: 433-458.
28. Soreghan, M.J. and **Cohen, A.S.** 1993 The Effects of Basin Asymmetry on Sand Composition: Examples from Lake Tanganyika, Africa. In Johnson, M. and Basu, A. (eds.) *Geol. Soc. Amer. Spec. Publ.* 284: 285-302.
29. Kaufman, L. and Cohen, A.S., 1993, The Great Lakes of Africa. *Conservation Biology* 7:632-633.
30. **Cohen, A.** 1994 Extinction in Ancient Lakes: Biodiversity Crises and Conservation 40 Years after J.L. Brooks. In Martens, K., Gooderis, B., and Coulter, G. (eds.) *Speciation in Ancient Lakes*. *Arch. Hydrobiol.* 44: 453-481.
31. Palacios-Fest, M., **Cohen A.** and Anadon, P. 1994 Use of Ostracodes as Paleoenvironmental Tools in the Interpretation of Ancient Lacustrine Records. *Rev. Paleo. Española* 9: 145-164.
32. Tiercelin, J.J., **Cohen, A.**, Soreghan, M. and Lezzar, K.E. 1994 Pleistocene-Modern Deposits of the Lake Tanganyika rift basin, E. Africa: An Example of

- Lacustrine Source Rocks and Reservoirs. In Harris, P. et al. (eds.) *Lacustrine Reservoirs and Depositional Systems*. 1994 SEPM Core Workshop 19: 37-60.
33. West, K. and **Cohen, A.** 1994 Predator-Prey Coevolution as a Model for the Unusual Morphologies of the Crabs and Gastropods of Lake Tanganyika. In Martens, K. et al. (eds.) Speciation in Ancient Lakes. *Arch. Hydrobiol.* 44: 267-283.
 34. **Cohen, A.** 1995 Paleoeological Approaches to the Conservation Biology of Benthos in Ancient Lakes: A Case Study from Lake Tanganyika. *Jour. North Amer. Benthological Soc.* 14: 654-668.
 35. Lezzar, K., Tiercelin, J.J., DeBatist, M., **Cohen, A.S.**, Bandora, P., Van Rensberger, P., Le Turdu, C., Mifundu, W. and Klerkx, J. 1996 New seismic stratigraphy and Late Tertiary history of the North Tanganyika Basin, East African Rift System, deduced from multichannel and high resolution reflection seismic data and piston core evidence. *Basin Research* 8: 1-28.
 36. Soreghan, M. and **Cohen, A.** 1996 Textural and compositional variability across littoral segments of Lake Tanganyika: The effect of asymmetric basin *structure on sedimentation in large rift lakes*. *American Association of Petroleum Geologists Bulletin* 80: 382-409.
 37. West, K. and **Cohen, A.S.** 1996 Shell microstructure of gastropods from Lake Tanganyika, Africa. Adaptation, convergent evolution and escalation: *Evolution* 50: 672-681.
 38. **Cohen, A.**, Kaufman, L. and Ogutu-Ohwayo, R. 1996 Anthropogenic threats, impacts and conservation strategies in the African Great Lakes — A review, in *The Limnology, Climatology and Paleoclimatology of the East African Lakes* (T. Johnson and E. Odada, editors): Gordon & Breach Publ., Newark, N.J., p. 575-624
 39. **Cohen, A.S.**, Talbot, M.R., Awramik, S.M., Dettman, D.L. and Abell, P. 1997 Lake level and paleoenvironmental history of Lake Tanganyika, Africa as inferred from Late Holocene and modern stromatolites. *Geol. Soc. Amer. Bull.* 109: 444-460.
 40. **Cohen, A.S.**, Lezzar, K.E., Tiercelin, J.-J. and Soreghan, M.R. 1997 New palaeogeographic and lake level reconstructions of Lake Tanganyika: Implications for tectonic, climatic and biologic evolution in a rift lake. *Basin Research* 9: 107-132.
 41. Ogutu-Ohwayo, R., Hecky R.E., **Cohen A.S.** & Kaufman L. (1999) Human impacts on the African great lakes. *Environmental Biology of Fishes*, 50, 117–131.
 42. **Cohen, A.S.**, 1998 Reflections on community ecology and the community of ecology: The view from a 1998 Penrose Conference on “Linking Spatial and Temporal Scales in Paleoeology and Ecology”. *Palaios* 13:603-605.
 43. Kowalewska, A. and **Cohen, A.** 1998 Reconstruction of paleoenvironments of the Great Salt Lake Basin during the late Cenozoic. *Jour. Paleolimnology*, 20:381-407.
 44. Alin, S., **Cohen, A.**, Bills, R., Gashagaza, M.M., Michel, E., Tiercelin, J.J., Martens, K., Coveliers, P., Mboko, S., West, K., Soreghan, M., Kimbadi, S. and Ntakimazi, G. 1999 Effects of landscape disturbance on animal communities in Lake Tanganyika, East Africa. *Conservation Biology* 13:1017-1033.
 45. Wells, T., **Cohen, A.S.**, Park, L.E., Dettman, D. and McKee, B. 1999 Ostracode stratigraphy and paleoecology from surficial sediments of Lake Tanganyika, Africa. *Jour Paleolimnology* 22:259-276.
 46. **Cohen, A.S.** 1999 Evolution at Lake Tanganyika. *McGraw Hill Yearbook of Science and Technology*, New York.
 47. **Cohen, A.S.**, 2000, Linking spatial and temporal change in the diversity structure of ancient lakes: Implications for both theoretical ecology and conservation biology.

- In Rossiter, A. and Kawanabe, H. (eds.) *The Biology of Ancient Lakes*, Academic Press, San Diego, p. 521-538.
48. **Cohen, A.S.**, Palacios, M., Negrini, R.M., Wigand, P. and Erbes, D., 2000, A high resolution continental paleoclimate record for the Middle-Late Pleistocene from Summer Lake, Oregon, II: Sedimentology, Paleontology and Geochemistry. *Jour. Paleolimnology*. 24:151-182.
 49. **Cohen, A.S.**, Scholz, C.A., and Johnson, T.C., 2000, The International Decade of East African Lakes (IDEAL) drilling initiative for the African great lakes. *Jour. Paleolimnology* 24:231-235.
 50. Negrini, R.M., Erbes, D.B., Faber, K., Herrera, A. M., Roberts, A.P., **Cohen, A.S.**, Wigand, P.E. and Foit, F.F., 2000, A high resolution continental paleoclimate record for the Middle-Late Pleistocene from Summer Lake, Oregon, I: Age control and magnetic climate proxies. *Jour. Paleolimnology*. 24:125-149.
 51. Park, L.E., **Cohen, A.S.**, and Martens, K., 2000. Ecology and speciation of the ostracod clade, (*Gomphocythere*) in Lake Tanganyika, East Africa. *Verh. Internat. Verein. Limnol.* 27:2665-2669.
 - 51a. Park, L.E., **Cohen, A.S.**, and Martens, K., 2001, Ecology and speciation of the ostracode clade *Gomphocythere* in Lake Tanganyika, East Africa. *Proc. XXVII Soc. Intl. Limnol. Congress, Dublin*, 27:1-5.
 52. Alin, S.R., O'Reilly, C.M., **Cohen, A.S.**, Dettman, D.L., Palacios-Fest, M.R., and McKee, B.A., 2002, Effects of land use change on aquatic biodiversity: A view from the paleorecord at Lake Tanganyika, East Africa. *Geology* 30:1143-1146.
 53. Dean, W., Rosenbaum, J., Haskell, B., Kelts, K., Schnurrenberger, D., Valero-Garcés, B., **Cohen, A.**, Davis, O., Dinter, D. and Nielsen, D., 2002 Progress in global lake drilling holds potential for global change research. *EOS* 83:85,90-91.
 54. O'Reilly, C., Hecky, R.E., **Cohen, A.S.**, and Plisnier, P.D., 2002, Interpreting stable isotopes in food webs: Recognizing the role of time averaging at different trophic levels. *Limnol. Oceanogr.* 47:306-309.
 55. Lezzar, K.E., Tiercelin, J.J., Le Turdu, C., **Cohen, A.S.**, Reynolds, D.J., Le Gall, B., and Scholz, C. 2002, Control of normal fault interaction on the distribution of major Neogene sedimentary depocenters, Lake Tanganyika, East African Rift. *Amer. Assoc. Petrol. Geol. Bull.* 86:1027-1059
 56. Dettman, D., Palacios-Fest-M. and **Cohen, A.S.**, 2002, Comment on G. Wansard and F. Mezquita, The response of ostracode shell chemistry to seasonal change in a Mediterranean freshwater spring environment. *Jour. Paleolimnology* 27:487-491.
 57. Park, L.E., Martens, K., and **Cohen, A.S.**, 2002. Phylogenetic Relationships of *Gomphocythere* (Crustacea: Ostracoda) in Lake Tanganyika, East Africa. *Journal of Crustacean Biology*. 22:15-27.
 58. O'Reilly, C.M., Alin, S.R., Plisnier, P.D., **Cohen, A.S.**, and McKee, B.A., 2003 Climate change decreases aquatic ecosystem productivity of Lake Tanganyika, Africa. *Nature* 424:766-768.
 59. Park, L.E., **Cohen, A.S.**, Martens, K., and Bralek, R., 2003 The impact of taphonomic processes on interpreting paleoecologic changes in large lake ecosystems: Ostracodes in Lake Tanganyika and Malawi. *Jour. Paleolim.* 30:127-138.
 60. O'Reilly, C. M., P. Verburg, R. E. Hecky, P.-D. Plisnier, and **A. S. Cohen**. 2003. "Food web dynamics in stable isotope ecology: Time integration of different trophic levels" pp. 125-134, In: L. Seuront and P. Sutton (eds.), *Handbook of scaling*

methods in aquatic ecology: Measurement, analysis, simulation. CRC Press, Boca Raton, Florida.

61. Alin, S.R., and **Cohen, A.S.**, 2003, Lake-level history of Lake Tanganyika, East Africa, for the past 2500 years based on ostracode-inferred water-depth reconstruction. *Palaeogeog., Palaeoclim., Palaeoecol.* 199:31-49.
62. Alin, S.R., and **Cohen, A.S.**, 2004, The live, the dead and the very dead: taphonomic calibration of the recent record of paleoecological change in Lake Tanganyika, East Africa. *Paleobiology* 30:44-81.
63. O'Reilly, C.A., Plisnier, P.D., **Cohen, A.S.** and Alin, S.R., 2004, Reply to "Climate change not shown to affect Lake Tanganyika" Brief Communications Arising *Nature* doi: 10.1038/nature02737.
64. Michel, E., Todd, J.A., Cleary D.F.R., Kingma, I., **Cohen, A.S.** & Genner, M.J. (2004) Scales of endemism: Challenges for conservation and incentives for evolutionary studies in a gastropod species flock from Lake Tanganyika. *Journal of Conchology Special Publication* 3, 155-172.
65. Balch, D.P., **Cohen, A.S.**, Schnurrenberger, D.W., Haskell, B.J., Valero Garces, B.L., Beck, J.W., Cheng, H. and Edwards, R.L., 2005 Ecosystem And Paleohydrological Response To Quaternary Climate Change In The Bonneville Basin, Utah. *Palaeogeog., Palaeoclim. Palaeoecol.* 221:99-122.
66. **Cohen A.S.**, Palacios-Fest M.R., McGill J., Swarzenski P., Verschuren D., Sinyinza R., Songori T., Kakagozo B., Syampila M., O'Reilly C.M. and Alin S.R. 2005. Paleolimnological investigations of anthropogenic environmental change in Lake Tanganyika: I. An introduction to the project. *J. Paleolim.* 34:1-18.
67. McKee B.A. **Cohen A.S.**, Dettman D.L., Palacios-Fest M.R., Alin S.A. and Ntungumburanye G. 2005. Paleolimnological investigations of anthropogenic environmental change in Lake Tanganyika: II: Geochronologies and mass sedimentation rates based on ¹⁴C and ²¹⁰Pb data. *J. Paleolim.* 34:19-29.
68. Palacios-Fest M.R., **Cohen A.S.**, Lezzar K.E., Nahimana L. and Tanner B.M. 2005a. Paleolimnological investigations of anthropogenic environmental change in Lake Tanganyika: III. Physical stratigraphy and charcoal analysis. *J. Paleolim.* 34:31-49.
69. Palacios-Fest M.R., Alin S.R., **Cohen A.S.**, Tanner B. and Heuser H. 2005b. Paleolimnological investigations of anthropogenic environmental change in Lake Tanganyika: IV. Lacustrine paleoecology. *J. Paleolim.* 34:51-71.
70. O'Reilly C.M., Dettman D.L., and **Cohen A.S.** 2005. Paleolimnological investigations of anthropogenic environmental change in Lake Tanganyika: VI. Geochemical indicators from lacustrine organic matter. *J. Paleolim.* 34:85-91.
71. Dettman D., Palacios-Fest M.R., Nkotagu H.H. and **Cohen A.S.** 2005. Paleolimnological investigations of anthropogenic environmental change in Lake Tanganyika: VII. Carbonate isotope geochemistry and riverine runoff. *J. Paleolim.* 34:93-105.
72. **Cohen A.S.**, Palacios-Fest, M.R., Msaky, E.S., Alin, S.R., McKee, B., O'Reilly, C.M., Dettman, D.L., Nkotagu, H.H., and Lezzar, K.E. 2005. Paleolimnological investigations of anthropogenic environmental change in Lake Tanganyika: IX. Summary of paleorecords of environmental change and catchment deforestation at Lake Tanganyika and impacts on the Lake Tanganyika ecosystem. *J. Paleolim.* 34:125-145.

73. Bailey, J.V., **Cohen, A.S.**, and Kring, D.A., 2005, Lakes in well-buffered catchments: Implications for fossil preservation and survival of freshwater organisms following the Cretaceous-Tertiary boundary acid rain trauma. *Palaios*. 20:376-389.
74. McIntyre, P.B., Michel, E., France, K., Rivers, A., Hakizimana, P. and **Cohen, A.S.** 2005, Effects of anthropogenic sedimentation on snails in Lake Tanganyika: comparing individual and assemblage level measures *Conservation Biology* 19:171-181.
75. **Cohen, A.S.**, Lezzar, K.E., Cole, J., Dettman, D., Ellis, G.S., Eagle, M., Plisnier, P.D., Langenberg, V., Blaauw, M. and Zilifi, D. Late Holocene linkages between decade-century scale climate variability and productivity at Lake Tanganyika, Africa. *Jour. Paleolimnology* DOI 10.1007/s10933-006-9004-y
76. Scholz, C.A., **Cohen, A.S.**, Johnson, T.C. and King, J. W., 2006 The 2005 Lake Malawi Scientific Drilling Project. *Scientific Drilling* Mar 2006:17-19, doi:10.2204/iodp.sd.1.04.2006.
77. **Cohen, A.S.**, Ashley, G.M., Potts, R., Behrensmeier, A.K., Feibel, C., and Quade, J., Paleoclimate and Human Evolution Workshop. *EOS* 87:161.
78. Felton, A., Russell, J.M., **Cohen, A.S.**, Baker, M.E., Chesley, J.T., Lezzar, K.E., McGlue, M.M., Pigati, J.S., Quade, J., Stager, J.C., and Tiercelin, J.J. (2007) Paleolimnological evidence for the onset and termination of glacial aridity from Lake Tanganyika, Tropical East Africa. *Palaeogeog., Palaeoclim., Palaeoecol.* 252:405-423
79. Scholz, CA, Johnson, TC, **Cohen, AS**, King, JW, Peck, J, Overpeck, JT, Talbot, MR, Brown, ET, Kalindekaffe, L, Amoako, P, et al. 2007, East African megadroughts between 135-75 kyr ago and implications for early human history *Proc. Nat. Acad. Sci.* 104:16416-16421.
80. **Cohen, A.S.**, Stone, J.R., Beuning, K.R., Park, L.E., Reinthal, P.N., Dettman, D., Scholz, C.A., Johnson, T.C., King, J.W., Talbot, M.R., Brown, E.T., and Ivory, S.J., 2007 Ecological Consequences of Early Late-Pleistocene Megadroughts in Tropical Africa. *Proc. Nat. Acad. Sci.* 104:16422-16427.
81. Brown, E.T. Johnson, T.C., Scholz, C.A., **Cohen, A.S.** and King, J. 2007, Abrupt Change in Tropical African Climate Linked to the Bipolar Seesaw Over the Past 55,000 Years. In Press, *Geophys. Res. Lett.* 34, L20702, doi:10.1029/2007/GL031240.
82. McGlue, M.M., Lezzar, K.E., **Cohen, A.S.**, Russell, J.M., Tiercelin, J.J., Felton, A.A., Mbede, E., Nkotagu, H.H., 2007 Seismic records of late Pleistocene aridity in Lake Tanganyika, tropical East Africa *J Paleolimnol* DOI 10.1007/s10933-007-9187-x.
83. Brown, E.T., Johnson, T.C., Scholz, C.A., **Cohen, A.S.** and King, J.W., 2008, Reply to comment by Yannick Garcin on "Abrupt change in tropical African climate linked to the bipolar seesaw over the past 55,000 years" *Geophysical Research Letters*, Vol. 35, L04702, doi:10.1029/2007GL033004, 2008.
84. Tierney, J.E., Russell, J.M., Huang, Y., Sinninghe Damsté, J.S., Hopmans, E.C., and **Cohen, A.S.**, 2008, Northern Hemisphere Controls on Tropical Southeast African Climate During the Past 60,000 Years. *Science* 10 October 2008 322: 252-255.
85. Eggermont, H., Kennedy, D., Hasiotis, S.T., Verschuren, D. and **Cohen, A.**, 2008, Distribution of living larval Chironomidae (Insecta: Diptera) along a depth transect at Kigoma Bay, Lake Tanganyika: implications for palaeoenvironmental reconstruction. *African Entomology* 16:162-184.

86. **Cohen, A.S.** and Umer, M., 2009, Connecting Scientific Drilling and Human Evolution. *EOS*. 90:122.
87. **Cohen, A.S.**, Arrowsmith, R., Behrensmeier, A.K., Campisano, C., Feibel, C., Fisseha, S., Bedaso, Z., Lockwood, C., Mbua, E., Olago, D., Potts, R., Reed, K., Renaut, R., Tiercelin, J.J., and Umer, M. 2009 Understanding paleoclimate and human evolution through the Hominin Sites and Paleolakes Drilling Project. *Scientific Drilling no. 8*:60-65.
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89. Tierney, J.E., Mayes, M.M., Meyer, N., Johnson, C., Swarzenski, P., **Cohen, A.S.**, and Russell, J.M. 2010, The Unprecedented Warming of Lake Tanganyika. *Nature Geoscience* 16 May 2010 DOI: 10.1038/NNGEO865
90. Committee on the Earth System Context For Hominin Evolution (I was one of 13 committee members), 2010. *Understanding Climate's Influence On Human Evolution*. National Research Council, The National Academies Press. Washington, D.C., 115pp.
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92. Scholz, C.A., **Cohen, A.S.**, Johnson, T.C., King, J., Talbot, M.R. and Brown, E.T., 2011 Scientific Drilling in the Great Rift Valley: The 2005 Lake Malawi Scientific Drilling Hemisphere East Africa. *Palaeogeog., Palaeoclim. Palaeoecol.* 303:3-19, doi: 10.1016/j.palaeo.2010.10.030.
93. Stone, J.R., Westover, K.S. and **Cohen, A.S.**, 2011, Late Pleistocene Diatom Paleoecology of the Central Basin of Lake Malawi, Africa. *Palaeogeog., Palaeoclim. Palaeoecol.* 303:51-70, doi:10.1016/j.palaeo.2010.01.012
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- Scott, J., Stockhecke, M., Deino, A., Kingston, J., Westover, K., and **Cohen, A.S.**, 2019, Sequence-stratigraphic and X-ray fluorescence characterization of lake transgression-regression cycles at the late Pliocene to Pleistocene transition, central Kenya Rift valley. AGU Annual Fall Mtg., San Francisco, CA, PP44A-09.
- Arnold, G., Szczech, C., Asrat, A., **Cohen, A.S.**, Foerster, V., Schäbitz, F., Lamb, H. and Trauth, M.H. (2020): Advanced hyperspectral analysis of sediment core samples from the Chew Bahir Basin, Ethiopian Rift in the spectral range from 0.25 to 17 μm : support for climate proxy information. EGU General Assembly 2020, on-line.
- Duesing, W., Asrat, A., **Cohen, A.S.**, Foerster, V., Kaboth-Bahr, S., Kraemer, H., Lamb, H.F., Marwan, N., Roberts, H.M. and Schaebitz, F. (2020): Climate beats from Africa: a statistical analysis of the 620 kyr Chew Bahir climate record, eastern Africa. EGU General Assembly 2020, EGU2020-13026.
- Kamulali, T.M., Mcglue, M. M., Stone, J. R., Kimirei, I. and **Cohen, A.** Paleoecological Analysis Of Holocene Sediment Cores From The Southern Basin Of Lake Tanganyika: Implications For The Future Of The Fishery In One Of Africa's Largest Lakes. GSA Ann. Mtg. online Abstract 210-14.
- Upadhyay, D., Brown, C.M., Hailemichael, M., Bedaso, Z.K., Aronson, J., **Cohen, A.S.**, and Tripathi, A.K., Application of carbonate geochemistry to determining the role of climate change in hominin evolution. AGU Ann. Mtg. on-line Abstract PP023-0003.
- Sier, M. J., Dupont-Nivet, G., Langereis, C., and **Cohen, A.** and the HSPDP science team: Magnetostratigraphy from the Hominin Sites Paleolakes Drilling Project (HSPDP) drill cores, low latitudes reorientation, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-12503, <https://doi.org/10.5194/egusphere-egu21-12503>, 2021.
- Beck, C. C., Van Der Lubbe, J. H., Feibel, C. S., Wegter, B. and **Cohen, A. S.**, 2021, Quantifying Depositional Environments Using Ultra High-Resolution Grain Size Analyses, EGU General Virtual Assembly, Session SSP2.11. EGU21-16309.
- Ivory, S.J., McGlue, M.M., **Cohen, A.S.**, Kimirei, I., Kamulali, T., Msaky, E., Stone, J., and Soreghan, M., 2021, Links between landscape and lakescape in East Africa, Inferences for conservation paleobiology from Lake Tanganyika. GSA Ann. Mtg., Portland, OR, 172-8.
- Mao, H., **Cohen, A.S.**, Rosli, N.S., and McGlue, M., 2021 Fire History of Lake Tanganyika (Mahale Coast) Watersheds Reconstructed from Macrocharcoal Records. AGU Meeting, New Orleans A45U-2144.

- Soreghan, M.R., **Cohen, A.S.**, Bright, J.E., Kaufman, D.S., McGlue, M. and Kimirei, I., 2021, Time averaging of shell beds in Lake Tanganyika, Africa; implications for a biodiverse and threatened ecosystem. AGU National Meeting, New Orleans, GC45N-0965.
- Cohen, A.S.**, Gravina, A.N., Soreghan, M.J., McGlue, M.M., and Kimirei, I., 2021 GC45N-0966 - Watershed Deforestation Impacts on Littoral/Sublittoral Shell Bed Communities in Lake Tanganyika, Africa: A Biodiverse and Threatened Ecosystem. AGU National Meeting, New Orleans, GC45N-0966.
- Schaebitz, F. Asrat, A., Lamb, H.F., **Cohen, A.S.**, Foerster, V., Duesing, W., Kaboth-Bahr, S., Opitz, S., Viehberg, F.A., Vogelsang, R., Dean, J., Leng, M.J., Junginger, A., Ramsey, C.B., Chapot, M.S., Deino, A., Lane, C.S., Roberts, H.M., Vidal, C., Tiedemann, R., and Trauth, M.H., 2022. Hydroclimate changes in eastern Africa over the past 200,000 years may have influenced early human dispersal. PAGES 6th Open Science Meeting Agadir, Morocco, Session 36. p. 268-269.
- Foerster, V., Asrat, A., Arnold, G., **Cohen, A.S.**, Gebregiorgis, D., Günter, C., Grove, M., Lamb, H.F., Duesing, W., Kaboth-Bahr, S., Opitz, S., Viehberg, F.A., Vogelsang, R., Dean, J., Leng, M.J., Junginger, A., Ramsey, C.B., Chapot, M.S., Deino, A., Lane, C.S., Roberts, H.M., Schaebitz, F., Vidal, C., Tiedemann, R., Trauth, M.H., 2022, Deciphering environmental thresholds in the habitat of early humans: a new 620,000-year mineralogical proxy record from Chew Bahir in southern Ethiopia. PAGES 6th Open Science Mtg., Agadir, Morocco, Session 36 (virtual). P. 270.
- Trauth, M.H., Asrat, A., **Cohen, A.S.**, Duesing, W., Foerster, V., Kaboth-Bahr, S., Kraemer, K.H., Lamb, H.F., Marwan, N., Maslin, M.A., Schäbitz, F., 2022. Tipping points in the 620 kyr proxy record from Chew Bahir, S Ethiopia. PAGES 6th Open Science Meeting, Agadir, Morocco, Session 25 (virtual). P. 197-198.
- Kaboth-Bahr, S. Gosling, William D. Vogelsang, R., Bahr, A., Scerri, E., Asrat, A., **Cohen, A.S.** Düsing, W., Foerster, V., Lamb, H., Maslin, M., Roberts, H.M., Schäbitz, F., and Trauth, M. 2022 Paleo-ENSO influence on African environments and early modern humans. European Geosciences Union Annual Meeting. Vienna, Austria Presentation CL1.1.4.
- Cohen, A.S.** SIAL 9 Welcome-Looking Back and Looking Forward. Species in Ancient Lakes (SIAL9), Kigoma, Tanzania, July 18-21, 2022.
- Soreghan, M.J., **Cohen, A.S.**, McGlue, M., Bright, J., Kaufman, D., and Kimirei, I., 2022. Origin and significance of shell bed habitats of Lake Tanganyika: Implications for biodiversity and conservation efforts, Species in Ancient Lakes (SIAL9), Kigoma, Tanzania, July 18-21, 2022.
- Leet, K., Lowenstein, T., Linzmeier, B., Renaut, R., Owen R.B., Valley, J. and **Cohen, A.S.**, 2022, Conditions of formation of Magadi-type cherts from SIMS oxygen isotope microanalysis. Geol. Soc. Amer. Ann. Mtg., Denver, CO, 95-6.
- Cohen, A.S.**, McGlue, M. and Soreghan, M., 2022, Paleolimnological data to understand the tempo and mode of anthropogenic ecosystem change in tropical African Lake Tanganyika. *Int. Paleolimnol. Assoc./ Int. Assoc. Limnogeol.* Joint Meeting, Bariloche, AR Nov. 27-Dec. 1, 2022. Talk FS-30.

Edited Volumes

- Cohen, A.S.** (editor) 1991 Report on the First International Conference on the Conservation and Biodiversity of Lake Tanganyika. Biodiversity Support Program, 128 p.
- Cohen, A.S.** and Kaufman, L. 1993 Special Section on the African Great Lakes. *Conservation Biology* 7(3).
- Cohen, A.S.** and Zur, D., 2014 Continental Scientific Drilling Workshop Series Report 2013, 74pp (paper) and online (<http://csdworkshops.geo.arizona.edu/> with complete appendices, 498pp).

Conference Proceedings

- Cohen, A.S.** 1988 Lake Sediments Reviewed in China: IGCP Project #219 Conference Report. *Episodes* 11: 294-296.
- Scholz, C., **Cohen, A.S.**, Johnson, T.C. and Potts, R. 1999 An NSF/ICDP Workshop Report on Scientific Drilling on Lakes Malawi and Tanganyika, October 10-16, 1999, 20 pp.

Technical Report/Other Non-refereed Publications

- Cohen, A.S.** and Scott, L. 1982 A Geological Roadguide to Parts of Kenya. Univ. of California-Davis Extension Publ., 93 pp.
- Cohen, A.S.** (ed.) 1991, *Report of the First International Conference on the Conservation and Biodiversity of Lake Tanganyika*. Biodiversity Support Program USAID/WWF/ Nature Conservancy/WRI, 128pp.
- Cohen, A.S.**, Coulter, G. and Cardy, F. 1991 Pollution control and other measures to protect biodiversity in Lake Tanganyika. United Nations Global Environmental Facility Planning Mission Report, 87 p.
- Cohen, A.S.** 1998 Penrose Conference Report "Linking spatial and temporal change in paleoecology and ecology. *GSA Today*
- Cohen, A.S.**, Palacios-Fest, M., Msaky, E., Dettman, D., McKee, B. and Livingstone, D.A., 1999, Final report on paleolimnological subcomponent of Sedimentation Special Study for the Lake Tanganyika Biodiversity Project, 63pp., 26 fig.
- Cohen, A.S.**, and Reinthal, P. (B. Blundell Producer) CD-ROM *Biodiversity: The Great Lakes Of Africa*
- Cohen, A.S.** (ed.), 1998-2005, The Nyanza Project 2000 Annual Report Series (extended abstracts of Nyanza Project Research).
- Cohen, A.S.** and Nielson, D. 2003, Final Workshop Report *Best Practices In The Development Of Scientific Drilling Projects*, DOSECC Report, 41pp. (2nd ed. 2007)
- Cohen, A.S.** (ed.), 2003, *Third International Limnogeology Congress (Tucson AZ) Technical Program Abstract Volume*. International Association of Limnogeology, 330 pp.
- Brigham-Grette, J., Walton, A.W., **Cohen, A.S.**, and Rack, F., 2012, Towards a Strategic Plan for U.S. Continental Scientific Drilling: Into the New Decade. *DOSECC Workshop Publication 3*. 25pp.
- Cohen, A.S.**, and Zur, D.M. (eds), 2014, *Continental Scientific Drilling Workshop Series Report 2013*. 498pp.
- Rosen, M.R., **Cohen, A.S.**, Kirby, M., Gierlowski-Kordesch, E., Starratt, S.W., Valero Garcés, B.L., and Varekamp, J., (eds.) 2015 Sixth International Limnogeology

Congress: abstract volume, Reno, Nevada, June 15-19, 2015 USGS Open-File Report 2015-1092 Prepared in cooperation with the International Association of Limnogeology

Verheyen, E., Abila, R., Akoll, P., Albertson, C., Antunes, D., Banda, T., Bills, R., Bulirani, A., Chocha Manda, A., **Cohen, A.S.**, Cunha-Saraiva, F., Derycke, S., Donohue, I., Du, M., Dudu, A.M., Egger, B., Fritzsche, K., Frommen, J.G., Gante, H.F., Genner, M.J., Härer, A., Hata, H., Irvine, K., Isumbisho Mwapu, P., Janssens de Bisthoven, L., Jungwirth, A., Kaleme, P., Katongo, C. Kéver, L., Koblmüller, S., Konings, A., Lamboj, A., Lemmel-Schaedelin, F., Machado Schiaffino, G., Martens, K., Masilya Mulungula, P., Meyer, A., More, H.L., Musilova, Z., Muterezi Bukinga, F., Muzumani, R., Ntakimazi, G., Okello, W., Phiri, H., Pialek, L., Plisnier, P.D. Raeymaekers, J.A.M., Rajkov, J., Rican, O., Roberts, R., Salzburger, W., Schoen, I., Sefc, K.M., Singh, P., Skelton, P., Snoeks, J., Schneider, K., Sturmbauer, C., Svardal, H., Svensson, O., Torres Dowdall, J., Turner, G.F., Tyers, A., van Rijssel, J.C., Van Steenberge, M., Vanhove, M.P.M., Weber, A.T. Weyl, O., Ziegelbecker, A., 2016 Oil extraction imperils Africa's Great Lakes, *Science*. 354 (6312), 561-562. [doi: 10.1126/science.aal1722]

Op Eds

Cohen, A.S. 2017 The fate of Africa's Lake Tanganyika lies in the balance. *The Conversation*. <http://theconversation.com/the-fate-of-africas-lake-tanganyika-lies-in-the-balance-75467>

Awarded Grants and Contracts (~\$14.6M total grants and contracts over career)

- 1977 Sigma Xi Student Grant-In-Aid. Trace Fossils and Root Casts from Northern Sierra Nevada Lake Deposits. \$400.
- 1979 Chancellors' Patent Fund U.C. Davis. Dissertation Research Support. \$2000
- 1981 ARCO Research Fund Award. Sedimentology of Recent Lacustrine Deposits in Lake Turkana, Kenya. \$1000.
- 1982 Mellon Scholarly Research Award. A Preliminary Study of Ostracode Morphometrics. \$800.
- 1983 Colorado College Natural Science Division Research Award. Morphometric Analysis of the Ostracode *Sclerocypris exserta*. \$2400.
- 1985 NSF An Analysis of Endemism, Speciation and Adaptive Radiation in Lake Tanganyika, Africa. \$93,945.
- 1986 University of Arizona Small Grants Program. Sediment Accumulation in the Northern Gulf of California. \$4970.
- 1987 University of Arizona International Travel Grant to attend International Geological Correlation Program Workshop #219, Kehrsiten, Switzerland. \$600.
- 1987 Northland Research Inc. Contract for Investigating Price Road Hohokam Canal Ostracode Paleochemistry. \$2000.
- 1987 The Keck Foundation. Acquisition of a Scanning Electron Microscopy, Energy Dispersive X-ray Spectroscopy, Image Analysis Facility. \$200,000 (with William R. Dickinson).
- 1987 University of Arizona. Peripheral Support of the SEM-EDS-IA Facility. \$32,000

- 1988 University of Arizona International Travel Grant to attend International Geological Correlation Program Workshop #219, Beijing, China. \$500.
- 1988 National Geographic Society Grant. Modern Mammal Trackways: A Key to Understanding Dinosaur Behavior. \$27,732 (with Martin Lockley).
- 1989 Marathon Oil Co. Modern Sedimentology of Lake Tanganyika. \$20,000 (\$5,000 additional to be allocated on completion of initial report -- 11/89).
- 1989 Conoco Oil Co. Modern Sedimentology of Lake Tanganyika. \$5,000.
- 1989 Amoco Oil Co. Modern Sedimentology of Lake Tanganyika. \$20,300.
- 1989 University of Arizona International Travel Grant to attend Soc. Int. du Limnologie Workshop, Bujumbura Burundi. \$700.
- 1989 California State University, Bakersfield (Robert Negrini, PI). Ostracodes of Summer Lake, Oregon. \$1,000.
- 1990 Joint Industrial Support (Chevron, Amoco, Exxon) for GSA Penrose Conference on Large Lakes and their Stratigraphic Record. \$11,000.
- 1990 USAID. Workshop on Lake Tanganyika Biodiversity. \$48,403.
- 1990 Minerale para la Industria. Paleontology/sedimentology analysis of Sonoran lake deposits. \$480.
- 1991 Minerale para la Industria. Paleontology/sedimentology analysis of Sonoran lake deposits. \$735.
- 1991 University of Arizona International Travel Grant to attend Soc. Internat. Limnology Conference on Land-Water Interactions, New Delhi, India. \$800.
- 1991 Exxon. Lacustrine Sequence Stratigraphic Modeling (with Clement G. Chase). \$15,000.
- 1991 NSF- High resolution paleoclimate and paleomagnetic records from the middle-late Pleistocene, nonmarine sediments in s-central Oregon (with Robert Negrini and Peter Wigand). \$151,086.
- 1991 NSF Training Grant to University of Arizona in the Analysis of Biological Diversification — morphometrics laboratory upgrade. \$32,000.
- 1992 National Underseas Research Program. Analysis of the impact of excess sediment discharge caused by deforestation on the benthic lacustrine communities of Lake Tanganyika (with Jean Jacques Tiercelin). \$42,000.
- 1992 NSF. Neogene climatic and depositional evolution of the eastern Basin and Range: Integrated paleoecologic and stratigraphic analyses of the Great Salt Lake, Utah (with Owen Davis, Clement G. Chase and Roy Johnson). \$159,998.
- 1993 Exxon. Lacustrine Sequence Stratigraphic Modeling (with Clement G. Chase). \$19,350.
- 1993 Consejo Superior d'Investigaciones Cientificas (Spain). Visiting Scholar Fellowship. Investigation of the Rubielos de Mora Basin using the 3-D stratigraphic model GILBERT. \$20,000.
- 1993 University of Arizona International Travel Grant to attend conference on Fish Biodiversity and Conservation in Africa. \$1000.
- 1995 University of Arizona International Travel Grant to attend International Limnological Society (S.I.L.) in Sao Paulo, Brazil. \$600.
- 1995 ASU/CIMD Paleoclimate Investigation of the Great Salt Lake. \$2760.
- 1996 NSF- High resolution paleoecology in a complex tropical ecosystem and the development of paleoecological models for lake conservation biology. \$172,000.
- 1997 NSF- Development of a research experience for undergraduate students site for tropical limnology. \$783,391.

- 1997 Supplement to NSF Research Grant. High resolution paleoecology in a complex tropical ecosystem and the development of paleoecological models for lake conservation biology. Supplement to support instructional CD-ROM development. \$8000.
- 1997 NSF support for a GSA Penrose Conference entitled "Linking spatial and temporal scales in paleoecology and ecology. \$18,000.
- 1997 Natural Resources Institute UK grant for Lake Tanganyika Biodiversity Project - Limnology Studies. \$25,800.
- 1997 Natural Resources Institute UK grant for Lake Tanganyika Biodiversity Project - Paleolimnology Studies. \$70,738.
- 1998 Natural Resources Institute UK supplemental funding for Nyanza Project. \$16,000.
- 1998 NSF Research Experience for Undergraduates (REU) Program supplement to grant for tropical limnology associated with the International Decade of East African Lakes (IDEAL) program. \$128,000.
- 1998 International Continental Drilling Program (Potsdam, Germany) (ICDP) Grant. Development of global lake drilling facility with pilot testing in Lake Bonneville basin: (GLAD 800). Approved pending final negotiations between NSF and ICDP. \$717,255.
- 1999 NSF Grant to upgrade a stable isotope mass spectrometer by the addition of an automated carbonate preparation device. \$58,630 (plus \$58,370 UA matching funds).
- 2000 Development of a facility for global lakes drilling and testing in the Bonneville Basin. \$37,010 (with O.K. Davis, R. Johnson and J. Quade - UA component only).
- 2000 NSF Research Experience for Undergraduates (REU) Program Supplement for tropical limnology associated with IDEAL. \$35,000.
- 2000 National Resources Institute UK contract for support of African student participation in the NYANZA Project. \$16,000.
- 2000 WWF-US contract for African student participation in NYANZA Project (2001-2002). \$45902.
- 2001 NSF- Scientific drilling in Lake Malawi, East African Rift - Paleobiology Subcomponent. \$100,785 (UA component only out of total drilling grant of ~\$2.05 million).
- 2001 NSF- Supplement to provide funding for graduate student participation to "Development of an REU (Research Experience for Undergraduates) for tropical limnology associated with the International Decade of East African Lakes (IDEAL) program. \$56,760.
- 2002 NSF Support for student attendance to the International Limnogeology Congress \$5,000
- 2002 NSF The Nyanza Project: An REU Site for Interdisciplinary tropical lake studies associated with the International Decade of East African Lakes \$1,006,482
- 2002 USGS/UA Surficial Processes Consortium. Support for student attendance to the International Limnogeology Congress \$5,000
- 2002 DOSECC Support for drilling workshop participant attendance to the International Limnogeology Congress ~\$5,000 (funding paid directly from DOSECC to participants).

- 2003 NSF Supplement to The Nyanza Project: An REU Site for Interdisciplinary tropical lake studies associated with the International Decade of East African Lakes (for environmental education activities) \$39,600
- 2004 REU Site: Support for Biological and Limnological Research in Affiliation with the Nyanza Project. \$214,034 (co-PI with C. O'Reilly and E. Michel).
- 2005 DOSECC Support for drilling workshop on Human Evolution and Paleoclimates (with G.M. Ashley, A.K. Behrensmeyer, R. Potts and J. Quade).\$5,000
- 2006 NSF. Stratigraphy and sedimentology of South American foreland basin lakes: Keys to deciphering climatic and tectonic controls on lacustrine deposition in ancient foreland basins. \$30,000
- 2006 American Chemical Society-Petroleum Research Fund: Modern Andean Foreland Basin Lakes: Key to deciphering ancient foreland basin lacustrine stratigraphy \$90,000.
- 2007 ICDP Workshop: Scientific Drilling For Human Origins: An ICDP Workshop Proposal To Investigate Critical Time Intervals In Hominin-Paleoenvironmental History. \$44,000.
- 2007 SGER Scientific Drilling for Human Origins: Exploring the Application of Drill Core Records to Understanding Hominin Evolution \$125,423.
- 2007 ExxonMobil: Convergent Orogenic Systems Analysis, Foreland Basin Lakes Evolution Component. \$215,000
- 2010 ExxonMobil: Convergent Orogenic Systems Analysis, Cretaceous Lakes Component. \$92,135
- 2010 USGS-CESU Geochronological and paleoenvironmental analyses in support of Quaternary research in the western United States by the U.S. Geological Survey. \$19952
- 2010 ExxonMobil: Convergent Orogenic Systems Analysis, Cretaceous Lakes Component. \$50,000
- 2011 USGS-CESU Geochronological and paleoenvironmental analyses in support of Quaternary research in the western United States by the U.S. Geological Survey. \$20,805
- 2011 Australian Research Council (ARC): The Emergence of Early Modern Human Behaviour and Technology in Central Africa \$420,000 (Aus. \$-J. Thompson-lead PI)
- 2011 International Continental Drilling Program: The Hominin Sites And Paleolakes Drilling Project \$1,332,000.
- 2012 USGS-CESU Geochronological and paleoenvironmental analyses in support of Quaternary research in the western United States by the U.S. Geological Survey. \$23615
- 2012 NSF-Integrative Paleoanthropology Grant (IPG) "Collaborative Research: A high resolution analysis of unique paleoenvironmental data from key hominin sites in East Africa" lead PI on \$1,000,000 total grant (UA portion \$312,803)
- 2012 NSF-EAR "Collaborative Research: The Hominid Sites and Paleolakes Drilling Project: Acquiring a high resolution paleoenvironmental context of human evolution" lead PI on \$879,632, total grant (UA portion \$344,884)
- 2013 NSF-IF Operations support for continental scientific drilling workshops \$49,999

- 2013 NSF-IF Scientific Drilling and the Evolution of the Earth System: Climate Biota, Biogeochemistry and Extreme Events-Workshop. (co-PI with Lynn Soreghan) \$48,645 to OU.
- 2013 NSF-EAR Supplement "Collaborative Research: The Hominid Sites and Paleolakes Drilling Project: Acquiring a high resolution paleoenvironmental context of human evolution" for production of a 3-D film by Earth Images Foundation. \$68,893 to UA.
- 2013 NSF-PI "FESD Type I: Earth System Dynamics and its Role in Human Evolution in Africa" \$4.78M
- 2013 USGS-CESU Geochronological and paleoenvironmental analyses in support of Quaternary research in the western United States by the U.S. Geological Survey. \$24657
- 2013 Smithsonian Institution-contract to analyze scientific drill core samples from the Olorgesailie Drilling Project \$19180
- 2013 University of Minnesota, Limnological Research Center-contract for phytolith analyses \$9000.
- 2014 NSF Land Use and Climate Influences on Lake Tanganyika Floor Sediments and Ecosystems \$314,000 (all funds for Cohen will be through U. Oklahoma but Cohen is listed as a coPI)
- 2014 USGS-CESU Geochronological and paleoenvironmental analyses in support of Quaternary research in the western United States by the U.S. Geological Survey. \$25125.
- 2015 Columbia University Visiting Faculty Stipend \$10,000.
- 2015 Swiss National Science Foundation (SNF), International Short Visit Award (U. Basel) CHF 10,500 (approx. \$10,700).
- 2016 Collaborative Research: Reconstructing the Origins of the Colorado River: An Integrative Study of the Miocene-Pliocene Bouse Formation \$111,143
- 2016 Swiss National Science Foundation (SNF) Workshop Support Scientific Drilling at Lake Tanganyika, Africa: A Transformative Record for Understanding Evolution in Isolation and the Biological History of the African Continent 17,000 CHF (approx. \$17,300)
- 2018 International Continental Drilling Program. Lake Tanganyika Drilling: Addressing World-Class Scientific Questions in Paleoclimatology, Tectonics, and Evolutionary Ecology in Africa's Oldest Lake \$73,550 Proponents: James Russell, Philip Barker, Andrew Cohen, Sarah Ivory, Ishmael Kimirei, Christine Lane, Melanie Leng, Michael McGlue, Emma Msaky, Anders Noren, Lisa Park Boush, Walter Salzberger and Chris Scholz
- 2019 University of Arizona Research, Discovery & Innovation Research Advancement Grants Preliminary subsurface investigations of the Bouse Formation, Western AZ: A unique paleoenvironmental archive of Colorado River history and opportunity for Native American STEM training. \$49,371 (Andrew Cohen PI, Jessica Tierney, Claudia Nelson, Roy Johnson and Philip Pearthree co-PIs)
- 2020 International Continental Drilling Program. The Tanganyika Scientific Drilling Project (TSDP) \$1.5M (Proponents: James Russell (Lead PI), Michael McGlue, Walter Salzburger, Phillip Barker, Andrew Cohen, Sarah Ivory, Jens Kallmeyer, Ishmael Kimirei, Christine Lane, Melanie Leng, Neema Maganza, Emma Msaky, Anders Noren, Lisa Park Boush, Christopher Scholz, Ralph Tiedemann)

- 2022 REU Site: From the clouds to the core: A place-based REU for southwestern US community/tribal college students to increase under-represented group recruitment to the geosciences. \$391374 (Andrew Cohen PI, Kaustubh Thirumalai PI).
- 2022 Collaborative Research: BoCP-Implementation: The impact of climate change on functional biodiversity across spatiotemporal scales at Lake Tanganyika, Africa. \$239872 (Andrew Cohen PI, Michael McGlue Lead PI of Collaboration).

Field Experience

- 1978-1979 Paleoeologist and Ecologist for U.C. Santa Cruz Expedition to East Turkana, Kenya
- 1980 Consultant to Ecological Associates, Davis, CA, on Donner Lake Study
- 1981 Field Geologist for Union Geothermal Exploration
- 1982 Stratigrapher for Government of Malawi, Department of Antiquities Study of Plio-Pleistocene Lake Beds of Lake Malawi
- 1983 Reconnaissance and feasibility study of collecting localities at Lake Tanganyika
- 1986 Reconnaissance and feasibility study of research localities at Lake Amboseli
- 1988 Fieldwork at Reconcavo Basin, Brazil and Pingyi Basina, China
- 1985-2015 Fieldwork at Lake Tanganyika
- 1989, 1990 Field course lecturer — Newark Supergroup, New Jersey and Connecticut
- 1990-1992 Field work at Summer Lake, Oregon
- 1995, 2000 Field work at Great Salt Lake (Scientific drilling in 2000)
- 2003-2008 Field work in the Pantanal (Brazil) and N. Argentina lakes
- 2005 Scientific drilling campaign at Lake Malawi
- 2008-2013 Reconnaissance and reflection seismics fieldwork in Ethiopia and Kenya for developing drilling project
- 2010 Fieldwork on Cretaceous lake deposits, South Dakota
- 2011 Fieldwork on geoarchaeology, northern Malawi
- 2013-2014 Lead PI/Project Director, Hominin Sites and Paleolakes Drilling Project (Kenya, Ethiopia) <http://hspdp.asu.edu/>

Other Professional Experience

- 1979 Participant, Societe Internationale du Limnologie, Workshop on African Lakes, Nairobi, Kenya
- 1980 Geologist, Division of Oil and Gas, Geothermal Unit, State of California
- 1980-1981 U.C. Davis Extension Conference Coordinator, Our Ancestors Ourselves: A Symposium on Human Origins
- 1980 Invited Participant, Deep Drilling in the African Lakes Workshop, NSF, Washington, D.C.
- 1983 Invited Speaker, Nonmarine Trace Fossils and Bioturbation Symposium, Geological Society of America Joint Rocky Mountain Cordilleran Meeting, Salt Lake City
- 1984 Invited Short Course Lecturer, Ecology and Paleoeology of African Rift Lakes, Petrobras Research (Natl. Petroleum Corp. of Brazil) Rio de Janeiro
- 1984 Invited Participant, Geol. Soc. London Symposium-Sedimentation in the African Rift System
- 1985 Invited Lecturer, Univ. of Colorado-Rocky Mtn. Assoc. Geol. Roundtable, Models of Sedimentation in African Rift Lakes

- 1986 Coordinator and Symposium Chair, North American Paleontological Convention
Symposium on the Paleobiology of Lakes
- 1987 Invited Lecturer, Loma Linda University, Sedimentation in African Rift Lakes
- 1987 Invited Speaker and Workshop Participant, IGCP #219, Lakes in Space and
Time, Kehrsiten, Switzerland
- 1987 Invited Symposium Participant, Nonmarine Biotas and Depositional Systems,
GSA Rocky Mtn. Sect., Boulder, Colorado
- 1987 Research Affiliate, Kenyatta University
- 1988 Invited Symposium Speaker, IGCP #219, Lakes in Space and Time, Beijing,
China
- 1988 Invited Conference Speaker, AAPG Research Conference on Lacustrine
Exploration: Case Studies and Modern Analogues, Snowbird, Utah
- 1988 Invited Short Course Lecturer — Course Title: The African Rift Lakes:
Sedimentology, Limnology and Ecology; Petrobras, Rio de Janeiro, Brazil
- 1989 Invited Symposium Speaker, Int. Soc. du Limnologie, Workshop on African
Lakes, Bujumbura, Burundi
- 1990 Penrose Conference Co-Convenor (with T. Johnson) — "Large Lakes and their
Stratigraphic Record"
- 1990 Invited Lecturer, Smithsonian Inst. Evolution of Terrestrial Ecosystems Program
- 1991 USAID/WWF Conference Convenor — "Workshop on Lake Tanganyika
Conservation and Biodiversity"
- 1991 Invited Speaker, International Symposium on the Limnology and Fisheries of
Lake Tanganyika, Kuopio, Finland
- 1991 Member, Scientific Advisory Working Group — Desert Research Institute, Reno,
Nevada
- 1991 United Nations/World Bank — Mission Leader — Global Environmental Facility
Planning Mission for Lake Tanganyika
- 1991-1995 Principal Scientific Consultant, United Nations Development Programme,
Global Environmental Facility Program for Lake Tanganyika
- 1991-2003 Member, North American Steering Committee, International Decade of
East African Lakes
- 1991-1996 U.S. Representative to International Global Correlation Program Project
324 — Global Paleoenvironmental Signals from Lakes
- 1992 Special Issue Editor — CONSERVATION BIOLOGY — The Conservation of the
African Great Lakes
- 1992 Convenor, Paleontological Society-Cordilleran Section, Eugene, Oregon —
"Neogene Paleoenvironmental Change in the Pacific Northwest"
- 1992 Invited Public Lecturer, U.S. and French Cultural Centers, Bujumbura, Burundi
- 1993 Invited Short Course Lecturer — "Advances in Lacustrine Facies Analysis" —
Inst. Geol. Corr. Project 364 GLOPALS, Barcelona, 10-11 May
- 1993 Invited Lecturer, Speciation in Ancient Lakes Conference, Mont-Rigy, Belgium
- 1993 Invited Speaker, International Decade of East African Lakes, Jinja, Uganda
- 1993 Invited Speaker at Short Course — "Advances in Paleolimnology" — CSIS/Univ.
of Barcelona, Barcelona, Spain
- 1994 Invited Speaker, University of California, Santa Barbara
- 1994 Plenary Speaker, North American Benthological Society Natl. Mtg., Orlando,
Florida
- 1994 Invited Participant, SEPM/AAPG Lacustrine Core Workshop, Denver, Colorado

- 1994 Invited Speaker, New Mexico State University, Department Colloquium
- 1995 Invited Member, International Limnological Society (S.I.L.) Panel on Biodiversity Issues
- 1995 Keynote Speaker, International Limnogeological Congress, Copenhagen, Denmark
- 1996 Executive Committee Member, University of Arizona Institute for the Study of Planet Earth
- 1998-2007 Director. The Nyanza Project. Summer International Research Experience for Undergraduates in tropical lake studies.
- 1998 Convenor and Keynote Speaker, Penrose Conference (Geological Society of America) on Linking Spatial and Temporal Scales in Ecology and Paleoecology, Solomons, MD
- 1999 Co-convenor, NSF/ICDP Workshop on Scientific Drilling in Lakes Malawi and Tanganyika. Club Makakola, Malawi
- 1999-2003 General Chair of local organizing committee. 3rd International Limnogeology Congress (ILIC3)
- 2000 Board of Directors Member-DOSECC (Drilling, Observation and Sampling of the Earth's Continental Crust) 2000-present, Chairman of the Board 2011-present Co-Chair Science Planning Committee, 2003-2009, Chair-Nominations Committee, 2004-2005
- 2001 Invited Participant. NSF International REU Best Practices Workshop, Washington, D.C.
- 2002 Invited Speaker, Dead Sea Scientific Drilling Workshop, Luckenwalde, Germany
- 2002 Invited Department Speaker, Zoology Dept., Univ. of Amsterdam
- 2002 Invited Department Speaker, Geology Dept. UC Davis
- 2002 Invited Speaker DOSECC Annual Scientific Drilling Conference, Hilo, Hawaii
- 2002 Species In Ancient Lakes (SIAL) Congress Co-Chair and Invited Keynote Speaker, Irkutsk, Russia.
- 2002-present Secretary-Treasurer International Association of Limnogeology
- 2003 Invited Speaker-DOSECC Annual Drilling Workshop, Minneapolis
- 2003 Workshop Co-organizer and volume co-editor- DOSECC "Best Practices in Scientific Drilling" workshop, Minneapolis, MN
- 2003 Invited Speaker-Dept. of Chemistry, University of Cordoba, Cordoba, Argentina
- 2003 Invited Speaker-Dept. of Geosciences, University of Arizona, Tucson
- 2003 Invited Speaker-Dept. of Geosciences, University of Kansas, Lawrence KS
- 2003 Invited Speaker-Los Alamos National Laboratory Scientific Drilling Workshop on the Valles Caldera
- 2004-2005 Steering Committee Member-NSF's Pan-REU Workshop
- 2006 Co-Convener Paleoclimates and Human Evolution" workshop, Front Royal VA (Nov 17-20)
- 2006 Invited Speaker-Cornell University
- 2006 Invited Speaker-Syracuse University
- 2007 Invited Speaker-University of Maryland Geoscience Colloquium
- 2007 Invited Speaker-University of Akron
- 2007 Invited Speaker-Geological Society of Washington

- 2007- Invited Committee Member-National Research Council, Committee on the Earth System Context for Hominin Evolution
- 2007- *Journal of Paleolimnology* Editorial Board of Advisors Member
- 2008 Invited Speaker AGU ICDP/DOSECC Townhall
- 2008-11 Science Advisory Group, International Continental Scientific Drilling Program
- 2008 Co-convener-ICDP/NSF Workshop: Scientific Drilling for Human Origins: Exploring the Application of Drill Core Records to Understanding Hominid Evolution, Addis Ababa, Ethiopia,
- 2008-present Project Director and Lead investigator of Hominid Sites and Paleolakes Drilling Project (4 preparation field expeditions for geology, geophysics and logistics, plus 5 drill areas in Kenya and Ethiopia, drilled between 06/13 and 11/14)
- 2008 Invited Speaker Brown University
- 2009 Invited Speaker (DOSECC Distinguished Speaker Series)-University of Southern Illinois
- 2010 Invited Speaker (DOSECC Distinguished Speaker Series)-Chapman University
- 2010 Invited Keynote Speaker, Developing the US Initiative in Continental Scientific Drilling, Arlington VA
- 2010 Invited Keynote Speaker, Africa from Stages 6 to 2, Population Dynamics and Palaeoenvironments, University of Cambridge.
- 2010- Co-Chair (with P. deMenocal) International Ocean Drilling Program-International Continental Drilling Program (IODP-ICDP) Joint Program Planning Group on Climate and Human Evolution
- 2010 Invited expert witness/consultant. Lake Tanganyika Authority Decadal Strategic Planning Commission Mtg. Bujumbura, Burundi
- 2011-2013 DOSECC-Chairman of the Board of Directors
- 2011-15 Geological Society of America Bulletin-Associate Editor.
- 2011 Invited Speaker, Continental Scientific Drilling Workshop, Washington D.C.
- 2011 Invited Speaker, Southern Methodist U. Geoscience Lecture Series
- 2011 Invited Speaker, African Lakes Drilling Workshop, Providence, RI
- 2012 Invited Keynote Speaker, Magmatic Rifting and Active Volcanism Conference, Addis Ababa, Ethiopia
- 2012 Co-Convener GeoPRISMS East Africa Rift System workshop. Morristown, NJ Oct 25-27, 2012
- 2012 Invited Speaker GSA Annual Meeting Theme Session on Cenozoic Nonmarine Ostracoda, Charlotte, NC
- 2013 Invited Speaker, University of Texas-EI Paso
- 2013 Co-Convener (with Lynn Soreghan) NSF funded workshop "Scientific Drilling and the Evolution of the Earth System: Climate Biota, Biogeochemistry and Extreme Events" Norman, OK May 17-19, 2013
- 2013 Invited Speaker, National Museums of Kenya. Progress Report on the Hominin Sites and Paleolakes Drilling Project, Nairobi, Kenya.
- 2014-2015 Organizing Committee Member: 6th International Limnogeology Congress, Reno, Nevada, June 15-19, 2015.
- 2014 Invited Speaker, AAAS Annual Meeting Symposium: The Evolving Great Lakes: New Techniques, Discoveries, and Management Implications. "A 1.3 million year record of extraordinary climatic and ecological variability.", Chicago, IL.

- 2014 Invited Speaker. Olduvai Gorge Drilling Project Planning Workshop. April 2014, Bloomington, IN
- 2014 Session Co-Convener (with Mordechai Stein) "The Late Quaternary Afro-Syrian Rift Valley: Climate, Hydrology, and Human Dispersal (combined oral and poster sessions)
- 2015 Invited Short Course Instructor: E. African Rift Lake Paleolimnology. U. Strassbourg (Institut de Physique du Globe de Strasbourg (IPGS) École et Observatoire des Sciences de la Terre (EOST) équipe "Dynamique de la lithosphère et des bassins sédimentaires"). Feb 1-5, 2015.
- 2015 Invited Speaker, Geological Society of Saskatchewan, Regina, Saskatchewan, Mar 19, 2015
- 2015 Invited Speaker, Department of Geology, University of Regina, Regina Saskatchewan, Mar 19, 2015
- 2015 Invited Keynote Speaker. International Paleolimnology Symposium Progress and New Advances from Lake Drilling for Paleoclimate Records Session. Lanzhou, China Aug 4-7, 2015
- 2015- Policy Committee Member-Continental Scientific Drilling Coordination Office (CSDCO)
- 2015 Invited Department Speaker-University of Minnesota-Duluth
- 2015- Invited Department Speaker, Occidental College
- 2015 Invited Department Speaker, University of Connecticut
- 2015 Invited Department Speaker, Lamont Doherty Earth Observatory, Columbia University
- 2015 Invited Participant "The biogeography of modern human origins, diversity, and dispersals from East Africa" Radcliffe Institute, Harvard University
- 2015 Invited Participant STEPPE Workshop, Source to Sink Science and Scientific Drilling at Lake Tanganyika
- 2016 Invited Colloquium Speaker, EAWAG (Swiss Federal Water Research Agency), Kastanienbaum, Switzerland
- 2016 Invited Speaker, Institute of Geological Sciences, University of Bern, Bern, Switzerland
- 2016 Invited Speaker, Department of Earth Sciences, ETH, Zurich, Switzerland
- 2016 Invited Speaker, Zoology Institute, University of Basel, Basel, Switzerland
- 2016 Invited Speaker, Chew Bahir Symposium, University of Aberystwyth, Aberystwyth, Wales, U.K.
- 2016 Invited Evening Public Lecture, University of Aberystwyth, Aberystwyth, Wales, UK
- 2016 Invited Speaker, University of Braunschweig, Braunschweig, Germany
- 2016 Invited Speaker, Seminar for Geography University of Cologne, Cologne, Germany
- 2016 Invited Participant, International Continental Drilling Program Review of Operational Support Group, Potsdam, Germany
- 2016 invited Speaker, Max Planck Inst. For Study of Human History, Jena Germany
- 2017 Invited Speaker, University of Minnesota, Earth Sciences Department Colloquium (Apr 6, 2017)
- 2017 Invited Class Lecture Humans and Climate Course, Department of Earth Sciences, University of Minnesota (Apr 7, 2017)
- 2017 Invited Class Lecture, Historical Geology, University of Arizona (Apr. 11, 2017)

- 2017 Colloquium Speaker, Department of Geosciences, University of Arizona (Nov. 30, 2017)
- 2018 University of Arizona Saddlebrooke Science Café (Feb. 15, 2018)
- 2018 Invited Keynote Speaker, University of Maine, Climate Change Institute Borns Symposium (May 1, 2018)
- 2018 Invited Plenary Speaker (W.H. Bradley Keynote Address) Int. Assoc. Limnogeology / Intl. Paleolimnology Assoc. Joint Meeting, Stockholm, Sweden (June 21, 2018)
- 2018 Continental Scientific Drilling Coordination Office Annual Workshop Invited Speaker, June 4, 2018, Alexandria, VA.
- 2018 African Quaternary Assoc. Meeting, Nairobi Kenya, Invited Keynote Speaker, July 14, 2018.
- 2018 Speaker, Dept. of Geology, University of Dar es Salaam, July 20, 2018
- 2018 Graduate Program Reviewer, Department of Geosciences, Baylor University, Oct 29-30, 2018
- 2018 Convener (w/ G. Ashley) Geol. Soc. Amer. Pardee Keynote Symposium and Associated Poster Session and Pardee Showcase, Human Evolution and Environmental History in Africa: 25 Years of Transformative Research. Geological Society of America Annual Meeting Nov. 6-7, 2018, Indianapolis, IN
- 2018 Invited Speaker, *Dead Sea Borehole Workshop: The Longest Archive of the Late Quaternary Levant Geological and Geophysical Environments*. Hebrew University, Jerusalem, Israel, Nov 25-29, 2018.
- 2019 Convener/Organizer, HSPDP Annual Workshop, Biosphere 2, 25-27 Jan., Catalina, AZ
- 2019 Convener, Scientific Drilling In The Bouse Formation (CA/AZ, USA): Key Records for Understanding the Evolution of the Colorado River and Pliocene Climate in the Southwestern US. Feb. 28-Mar 3, 2019, Parker, AZ
- 2019 Co-Convener, The Tanganyika Drilling Project: The paleoclimatic, tectonic and evolutionary history of Africa's oldest lake. June 17-21 Dar es Salaam, Tanzania.
- 2019 Co-Convener (w/ Andrea Zerboni and Kathleen Nicoll) "African Paleoclimates and Paleoenvironments: From Offshore Records to Continental Archives" Session. INQUA2019, July 25-31, .Dublin, Ireland
- 2019 Invited Speaker, "Plio-Pleistocene Environmental Change and Human Origins" Session, INQUA2019, July 25-31, .Dublin, Ireland
- 2019 Invited Speaker, "HSPDP latest news, developments and future directions" Chew Bahir Workshop, Sept. 24, Neanderthal Museum, Germany
- 2019 Invited Speaker, University of Michigan, Department of Earth Sciences, University of Michigan, Oct. 18, Ann Arbor, MI
- 2019- Lead Organizer, Species In Ancient Lakes 9th Workshop, Kigoma, Tanzania
- 2021 Invited Speaker, Chandler-Gilbert Community College (AZ) Geology Chautauqua, April 15, 2021 (remote)
- 2021 Invited Speaker, University of Arizona, Department of Geosciences Colloquium Series, April 22, 2021 (remote).
- 2021 Invited Speaker, Duke University, Nicholas School of the Environment, (through GSA Continental Scientific Drilling Division Distinguished Lectureship), Oct 8 (remote).

- 2021 Invited Speaker, Eastern Carolina University, Department of Geological Sciences, (through GSA Continental Scientific Drilling Division Distinguished Lectureship), Dec. 3 (remote).
- 2022 Invited Speaker, George Mason University, Department of Atmospheric, Oceanic and Geological Sciences, (through GSA Continental Scientific Drilling Division Distinguished Lectureship), Jan. 27 (remote).
- 2022 Co-Convener. PAGES (Past Global Change) Agadir 2022, Session 36 Quaternary climate change and human evolution in Africa. May 2022 (remote).
- 2022 Co-Convener Species In Ancient Lakes-SIAL9 Conference, Kigoma, Tanzania, July 18-21, 2022

Professional Society Membership

- Geological Society of America (Fellow since 1994)
American Geophysical Union (Fellow since 2018)
International Association of Limnogeology
International Paleolimnology Association
European Geoscience Union
Species in Ancient Lakes (SIAL) President (2018-)