

CURRICULUM VITAE
GEORGE ALBERT BROOK
January, 2017

1. PERSONAL DATA

Place of Birth: Sunderland, England
Nationality: United States Citizen, United Kingdom Citizen
Address: Department of Geography, University of Georgia, Athens GA 30602, U.S.A.

2. PRESENT POSITIONS AND AFFILIATIONS

Merle C. Prunty Professor of Geography, 2001-present (Graduate Faculty 1978; Tenure 1981).
Director, University of Georgia Luminescence Dating Laboratory, 2001-present.
Associate, UGA Center for Archaeological Sciences (CAS), 2005-present.
Affiliate, UGA Latin American and Caribbean Studies Institute (LACSI), 2013-

3. FORMER POSITIONS AT UGA

Assistant Head, Department of Geography, May-August 1993
Acting Head, Department of Geography, 1993-94
Head, Department of Geography 1994-1999 and 2006-2011
Director, Center for Archaeological Sciences, University of Georgia, 1994-2005

3. UNIVERSITIES ATTENDED AND ACADEMIC RECORD

Edinburgh University, Edinburgh, Scotland. B.Sc. Geography 1967 awarded First Class Honors.
University of the Witwatersrand, Johannesburg, South Africa. M.Sc. Geography 1970. Dissertation: "An Investigation into the Origin and Evolution of Two Inselberg Landscapes in the Transvaal," 139 pp.
McMaster University, Hamilton, Ontario, Canada. Ph.D. Geography 1976. Dissertation: "Geomorphology of the North Karst, South Nahanni River Region, Northwest Territories, Canada," 627 pp.

4. HONORS

1967 First Class Honors B.Sc.
1967 Leverhulme Award (for performance in B.Sc. final examinations).
1971 South African Geographical Society Medal for the outstanding Master's thesis of the year.
1973-75 National Research Council of Canada Postgraduate Scholarship
1974 Distinction in Ph.D. Comprehensive Examinations
1983 University of Georgia M.G. Michael Award for Excellence in Research (\$2,000 cash award)
1987-88 Africa Regional Research Fulbright Senior Scholar Award to undertake 9 months of research in Botswana, Zambia, Zimbabwe, Zaire, and Kenya. Cooperative research and affiliations were as follows: **Botswana** - Affiliation with the Department of Earth Sciences, University of Botswana, Gaborone; **Zambia** - Research Affiliate of the Department of Geography, University of Zambia, Lusaka; **Zimbabwe** - Fulbright Research Associate in the Department of Geology, University of Zimbabwe, Harare. Cooperative research with the Zimbabwe Department of National Parks and Wildlife Management; **Zaire** - Member of the Semliki Research Expedition headed by Noel T. Boaz, Director of the Virginia Museum of Natural History, Martinsville, VA. Cooperative research with the Institut Zairois Pour la Conservation de la Nature; **Kenya** - Affiliation with the National Museums of Kenya (Director R.E. Leakey). Cooperative research with the Caving Group of East Africa.
1988 Resource advisor for countries in Eastern and Southern Africa, Fulbright Program for Africa, Pre-Departure Conference, June 28-July 1, 1988, Washington, D.C. (\$700 honorarium from the U.S. Information Agency).
1990 Chairman of the Working Group "Desert Paleoenvironments from Cave Sediments" within UNESCO's International Geological Correlation Program 252 "Past and Future Evolution of Deserts."
1990 Chairman of Working Group "Paleoenvironments of Presently Arid Karst Areas" within IGU Study Group "Anthropogenic Impact and Environmental Changes in Karst."

- 1991 "Study in a Second Discipline," University Faculty Development Award, University of Georgia (\$15,000 to Department of Geography).
- 1996-01 One of 11 Full Members of International Geographical Union Commission 96.C21 "Sustainable Development and Management of Karst Terrains."
- 1997-02 Co-leader of the "Hydrological Dynamics" working group within the UNESCO IGCP 413 "Future Dryland Environmental Change from Past Dynamics."
- 1998 Visiting Professor, Department of Geography, Ain Shams University, Cairo, Egypt, Feb. 28-March 16 (\$2,000 travel).
- 1998 University System of Georgia Chancellor's Award (\$1,500) for "China 1998 Faculty Development Seminar", Nanjing, China, July 1-July 30.
- 1999 Awarded prize of \$500 by the Editorial Board of *Physical Geography* for "Cyclicality in precipitation and stream discharge in Georgia and relationships with the Southern Oscillation", judged as one of the four best papers presented at the Association of American Geographers ENSO symposium in Hawaii, March 1999.
- 2001-02 University Partnership Program, Binational Fulbright Commission Visiting Professor, Ain Shams University, Cairo, Egypt, 3 weeks in March 2001 and 3 weeks in March 2002.
- 2001 Appointed Merle C. Prunty Jr. Professor of Geography, January 2001.
- 2005- U.S. Member of IGU Commission C0402-Arid Land, Humankind and Environment.
- 2007 Visiting Professor, Department of Geography, Ain Shams University, Cairo, Egypt, April 12-22 (\$2,000 travel).
- 2008 G. K. Gilbert Award for Excellence in Geomorphological Research (with D. S. Leigh and P. Srivastava) for paper "Late Pleistocene braided rivers on the Southeastern Atlantic Coastal Plain, U.S.A", *Quaternary Science Reviews* 23: 65-84, 2004.
- 2009 Member of the Core Committee of the Third LIMPACS (IGBP, PAGES) Conference, Chandigarh, India, March 5-8.
- 2010 Voted an honorary member of the Federación Argentina de Espeleología (Argentine Federation of Speleology), November 2010.
- 2012 Member of Scientific Advisory Board, Unión Latinoamericana de Espeleología (ULE).
- 2016 Member of University of Florida Mochena Borago, Ethiopia, Research Team (Geomorphologist).

5. RESEARCH INTERESTS, FIELD EXPERIENCE AND TRAVEL

Research Interests:

1) Quaternary climate change, 2) Geoarchaeology, 3) Arid lands, 4) Karst.

Field Experience:

Extensive fieldwork in Argentina, Belize, Canada, the U.S.A., Mexico, South Africa, Botswana, Namibia, Zimbabwe, Zambia, Zaire, Kenya, Somalia, Turkey, Oman, Egypt, Madagascar and China.

Travel:

Travel in 16 African countries (Egypt, Ethiopia, Somalia, Botswana, Namibia, Zambia, Zaire, Rwanda, Tanzania, Kenya, Malawi, Zimbabwe, Swaziland, Lesotho, South Africa, Madagascar, and Mozambique); 8 countries in the Americas and Caribbean (Argentina, Belize, Brazil, Mexico, U.S.A., Canada, Jamaica, Puerto Rico); 18 European countries (U.K., Portugal, Spain, France, Monaco, Luxembourg, Italy, Switzerland, Austria, Germany, Holland, Belgium, Slovenia, Croatia, Greece, Hungary, Czech Republic, Slovakia, and Turkey); 3 countries in Arabia (United Arab Emirates, Oman, Saudi Arabia); and 4 countries in E. and SE Asia (India, Singapore, Malaysia, China).

6. INTERNATIONAL COLLABORATIVE AGREEMENTS DEVELOPED

1. Department of Geography, University of Georgia and the Department of Geography at Ain Shams University, Cairo, Egypt, 2000-2010.
2. Center for Applied Isotope Studies and Luminescence Dating Laboratory, University of Georgia, and the Instituto de Investigaciones Antropológicas, Universidad Nacional Autónoma de México (UNAM), Mexico City, Mexico, 2006-2011.

7. FUNDING

1. Geoarchaeology of the Oconee Reservoir Site, Greene County. Georgia Power Co. subcontracted through

- the Dept. of Anthropology, University of Georgia, 1978 (\$8,094).
2. The historical development of sinkholes in southwest Georgia and predictive models for the future. Georgia Dept. of Natural Resources, Geologic and Water Resources Division, 1978 (\$800).
 3. Comparative analysis of terrestrial and Martian labyrinth terrains. NASA Mars Data Analysis Program, NSG 539, 1979-1982 (\$50,900).
 4. Relationships between lineaments and groundwater flow in the Southwest Georgia aquifer (with R. E. Carver). Department of the Interior, Office of Water Research and Technology, 1979-1981 (\$17,160).
 5. Paleoclimatic reconstruction by analysis of cave deposits. University of Georgia Research Foundation, Inc. 1980 (\$2,250).
 6. Geohydrology and paleohydrology of the Okefenokee Swamp, Georgia (with R. E. Carver and M. J. Duever). Funded through N.S.F. grant, "Integrated Studies of the Okefenokee Swamp Ecosystems," Principal Investigator B. C. Patten, 1979-1982 (\$89,771).
 7. Quaternary paleoclimates of the Eastern Transvaal, South Africa: The record preserved in caves. University of Georgia Research Foundation, Inc., 1981 (\$3,500).
 8. Richard B. Russell multiple resource areas, geomorphology of three prehistoric sites in Elbert County, Georgia. Project included in funding from the National Parks Service to Southeastern Wildlife Services, Inc., 1981 (\$700).
 9. Integrated studies of the Okefenokee Swamp ecosystem IV: long-term ecological research in freshwater wetlands (with B. C. Patten, K. Porter, R. Hodson and J. Laerm). National Science Foundation LTER Program, 1982-1987 (\$1,311,468).
 10. The late Quaternary paleoanthropology of Northeastern Somalia (with S. A. Brandt). University of Georgia Research Foundation, 1981-1983 (\$12,000).
 11. Paleoenvironmental analysis from cores of speleothems in Carlsbad Caverns (with B.B. Ellwood). National Geographic Society, 1983-84 (\$13,500).
 12. Geological factors influencing ground water flow and well productivity on the Georgia Piedmont. Office of Water Policy, 1983-84 (\$10,750).
 13. Collaborative research on the Okefenokee Swamp ecosystem (with B.C. Patten, R. E. Hodson, and M. J. Duever). National Science Foundation, 1984-85 (\$246,946).
 14. Estimating the surface water resources of the Georgia Coastal Plain and predicting the effects of changing land-use patterns. U.S. Geological Survey, Department of Interior, 1984-85 (\$12,000).
 15. Late Pleistocene/Early Holocene subsistence and settlement patterns in Southern Somalia (with S.A. Brandt and H. T. Bunn). National Science Foundation, 1985-86 (\$89,599).
 16. Quaternary paleoenvironmental data for tropical Africa from cave sediments. National Geographic Society, 1987-89 (\$19,600).
 17. Long paleoenvironmental records from African cave sediments (with D.A. Burney and J.B. Cowart). National Science Foundation, 1989-91 (\$154,473).
 18. Excavations of the White Paintings Shelter, Tsodilo Hills, Botswana. Subcontract of \$2,000 to undertake geomorphological studies of White Paintings Rock Shelter. National Geographic Society Grant #4097-89 to Larry H. Robbins of Michigan State University, 1989.
 19. Funds to establish a Palaeoecology Laboratory in the Department of Geography, Center for Archaeological Sciences, and University of Georgia Museum of Natural History (\$8,000 from University of Georgia), 1989.
 20. Paleoenvironmental data from speleothems in Karain Cave, Turkey. Invited research by Professor Isin Yalcinkaya, University of Ankara, Turkey, University of Georgia Research Foundation and College of Arts and Sciences (\$3,000), 1989.
 21. Ethnoarchaeology, prehistory and paleoenvironment in the Western Kalahari (with L.H. Robbins). National Science Foundation, 1991-1993, \$123,909.
 22. The consequences of continued global warming on the vegetation of the Southeastern U.S.A.: Evidence from the Last Interglacial. U.S. Department of Energy through the National Institute for Global Environmental Change, Southeast Regional Center, 1992-93, \$78,220.
 23. Ethnoarchaeology, prehistory and paleoenvironment in the Western Kalahari. National Science Foundation REU Supplement 1993, \$3,750.
 24. A high-resolution environmental record for Southern Africa from annual layers, pollen and microscopic charcoal in cave speleothems (with L.B. Railsback, J-C. Thill and R.S. Meltzer). NOAA #NA56GP0323,

- 1995-1997, (\$60,000).
25. Archaeological investigation and paleoenvironmental context of mining at the Tsodilo Hills, Western Kalahari Desert (with L. H. Robbins). National Science Foundation, 1995-97, \$150,000.
 26. Dissertation Research: Late Quaternary climate variation within the Maya Lowlands, Belize, Central America as evidenced by variations in speleothem deposition (with J.W. Webster). National Science Foundation, 1996-97, \$9,975.
 27. Protecting high-risk wetlands in Georgia's Coastal Plain from anthropogenic groundwater perturbations, 1995-97. U.S. Geological Survey, \$21,000.
 28. Quaternary environments at El-Garrah Cave, Western Desert of Egypt. University of Georgia Research Foundation, 1996-97, \$6,000.
 29. Plio-Pleistocene fossil breccias in caves of the Koanaka Hills, Botswana. Collaboration invited by Blythe Williams and Diane Waddle of the Department of Biological Anthropology and Anatomy, Duke University Medical Center, and Callum Ross, Department of Anatomical Sciences, SUNY, Stonybrook. ~\$1,000 provided by grant from Duke University for fieldwork in Botswana, June 1995.
 30. Exploration of caves in the Koanaka and Aha Hills of Botswana for Plio-Pleistocene fossils. Collaborator on National Geographic Grant to Callum Ross of SUNY, Stonybrook. Fieldwork in summer 1997.
 31. Establishment of a TL/OSL Dating Laboratory at the University of Georgia. University of Georgia Research Foundation, 1998, \$130,000.
 32. Dissertation Research: Human-environmental relationships in Coastal Plain Georgia based on high-resolution paleoenvironmental records from three peat deposits (with H. LaMoreaux). National Science Foundation, 1998-99, \$9,665.
 33. Dissertation Research: Hydrologic and geochemical response of conduit-flow and diffuse-flow karst systems to variability in seasonal climate and individual storm characteristics (with Shaw –Wen Sheen). National Science Foundation, 1999-2000, \$11,430.
 34. High-resolution ENSO and other paleoenvironmental data for the last 20 ka from cave speleothems in Madagascar and Botswana (with L. B. Railsback). National Science Foundation, 1999-2005, \$371,521.
 35. Ain Shams-University of Georgia Geography Partnership Program (with N.S. Embabi). Binational Fulbright Commission, 2000-2002, \$50,000.
 36. High-resolution climate records for China for the last 2,000 Years from cave stalagmites and gazetteer records (with C.P. Lo). University of Georgia Research Foundation, 1999-2001, \$12,850.
 37. Environmental change in Namibia during the last 300 ka from cave speleothems, tufas and fluvial sediments. National Science Foundation, 2000-2007, \$328,938.
 38. Development of a study abroad course, “The environment and archaeology of Egypt”, in association with a Binational Fulbright Grant between Ain Shams University, Cairo and the University of Georgia”. University of Georgia International Program Development Fund (\$2,400) and Dean, College of Arts and Sciences (\$500), 2000-2001, \$2,900.
 39. Doctoral Dissertation Research: High-resolution climate and land-use records from cave stalagmites and county gazetteers for China over the last 2000 years (with Honglin Xiao). National Science Foundation, 2000-2001, \$10,000.
 40. Paleobiogeographical tracks in isolated dune faunas of Southwestern Africa (with Eugene Marais and John Irish). National Geographic Society, 2002-2004, \$25,050.
 41. Archaeological and paleoenvironmental investigation of the initial appearance of domesticated livestock in the Lake Ngami region of Botswana and the LSA background (with Larry Robbins). National Science Foundation, 2003-2007, Georgia portion of grant \$56,286.
 42. Trace Element Fingerprinting of Hematite from Prehistoric Mines at the Tsodilo Hills, Botswana (with L. H. Robbins). Missouri University Research Reactor, Archaeological Neutron Activation Analysis Services. Awarded a reduced NSF-supported per-sample analysis rate, 2005-06.
 43. Doctoral Dissertation Research: Monsoonal climate of China and the Southeastern U.S.A. during the late Pleistocene and Holocene (with Fuyuan Liang). National Science Foundation, 2006-2008, \$12,000.
 44. A multi-proxy approach to understanding late Pleistocene climate change in Namibia, Botswana, and NW South Africa. National Science Foundation 2007-2014 (\$388,336).
 45. Socio-environmental dynamics in the North Vaca Plateau, Belize: A long term perspective (co-PI with Iannone, G. (PI), Awe, J. (PI), Bevan, A., Conolly, J., Downey, S., Longstaffe, F.J., Moyon, H., Polk, J.S., Reeder, P.R., Van Beynen, P., Webster, J.W., and Williams, J.). Alphawood Foundation, 2010-2013

(\$338,178 with \$43,580 to Brook).

46. Doctoral Dissertation Research: High-resolution, late Quaternary climate and vegetation record for the American Midwest: Isotope and pollen evidence from stalagmites and flowstone in three caves. (with Pete Akers). National Science Foundation, 2014-2015, \$15,964.

8. PUBLICATIONS

Journals

- Brook, G.A., Mametse, M.N. 1970. Rainfall trend patterns in South Africa. *The South African Geographical Journal* 52: 134-138.
- Ford, D.C., Brook, G.A. 1973. Nahanni Kras v severozapadni Kanade. *Lands and People* 8: 343-349.
- Brook, G.A. and Ford, D.C. (1974). Nahanni Karst: Unique Northern Landscape. *Canadian Geographical Journal* 88 (6): 36-43.
- Brook, G.A. 1977. Comment on 'Regional hydrochemistry of North American carbonate terrains' by Russell S. Harmon, William B. White, John J. Drake, and John W. Hess and 'The effect of climate on the chemistry of carbonate groundwater' by John J. Drake and T.M.L. Wigley. *Water Resources Research* 13 (5): 856-858.
- Brook, G.A. 1978. A quantitative study of erosion surface remnants in two multicyclic landscapes of South Africa. *The South African Geographical Journal* 60 (1): 23-40.
- Brook, G.A. 1978. A new approach to the study of inselberg landscapes. *Zeitschrift für Geomorphologie Supplement* 31: 138-160.
- Brook, G.A., Ford, D.C. 1978. The origin of labyrinth and tower karst and the climatic conditions necessary for their development. *Nature, London*, 275 (5680): 493-496.
- Brook, G.A., Ford, D.C. 1980. Hydrology of the Nahanni Karst and the importance of extreme summer storms. *Journal of Hydrology* 46: 103-121.
- Brook, G.A., Brook, D.L. 1980. Trends in geographic education in British Secondary Schools. *Journal of Geography* 79 (2): 60-70.
- Brook, G.A., Ford, D.C. 1981. Hydrologic and geologic control of carbonate water chemistry in the subarctic Nahanni Karst, Canada. *Earth Surface Processes and Landforms* 7: 1-16.
- Brook, G.A., 1981. An approach to modelling karst landscapes. *The South African Geographical Journal* 63 (1): 60-76.
- Brook, G.A. 1981. The limestone pavements of Nahanni: An example of micro-scale labyrinth karst. *The South African Geographical Journal* 63 (1): 35-46.
- Brook, G.A. 1983. Application of LANDSAT imagery to flood studies in the remote Nahanni Karst. *Journal of Hydrology* 61: 305-324.
- Brook, G.A. 1982. Stratigraphic evidence of Quaternary climatic change at Echo Cave, Transvaal, and a paleoclimatic record for Botswana and northeastern South Africa. *Catena* 9: 343-351.
- Brook, G.A., Folkoff, M.E., Box, E.O. 1982. A world model of soil carbon dioxide. *Earth Surface Processes and Landforms* 8: 79-88.
- Brook, G.A., Box, E.O. 1983. A World Model of Soil Carbon Dioxide: A Reply. *Earth Surface Processes and Landforms* 9: 85-87.
- Brandt, S.A., Brook, G.A. 1984. Archaeological and paleoenvironmental research in northern Somalia. *Current Anthropology* 25(1): 119-121.
- Brook, G.A., Hyatt, R.A. 1985. A hydrological budget for the Okefenokee Swamp watershed, 1981-82. *Physical Geography* 5(2): 127-141.
- Brook, G.A., Sun, C-H., Carver, R.E. 1986. Predicting Well Productivity Using Principal Components Analysis. *Professional Geographer* 38(4): 324-331.
- Brook, G.A., Sun, C-H. 1987. Hydrologic simulation of Okefenokee Swamp upland watersheds using a distributed model: The example of the Black River catchment. *Southeastern Geographer* 27(2): 71-89.
- Brook, G.A., Luft, E.R. 1987. Channel pattern changes along the lower Oconee River, Georgia, 1805/7 to 1949. *Physical Geography* 8(3): 191-209.
- Brook, G.A., Keferl, E.P., Nickmann, R.J. 1987. Paleoenvironmental data for N.W. Georgia, U.S.A., from fossils in cave speleothems. *International Journal of Speleology* 16(3-4): 69-78.
- Brook, G.A., Luft, E.R. 1988. Classroom simulation of small-scale solutional landforms. *Journal of Geography*

- 87(5): 179-187.
- Brook, G.A. 1988. Hydrogeological factors influencing well productivity in the crystalline rock regions of Georgia. *Southeastern Geology* 29 (2): 1-17.
- Sun, C-H, Brook, G.A. 1988. A hydrologic model for Lower Coastal Plain watersheds, Southeast United States. *Physical Geography* 9(1): 15-34.
- Brook, G.A., Sun, C-H., Carver, R.E. 1988. Predicting water well productivity in the Dougherty Plain, Georgia. *Georgia Journal of Science* 46: 190-203.
- Carver, R.E., Brook, G.A. 1989. Late Pleistocene paleowind directions, Atlantic Coastal Plain, U.S.A. *Palaeogeography, Palaeoclimatology, Palaeoecology* 74: 205-216.
- Brook, G.A., Burney, D.A., Cowart, J.B. 1990. Paleoenvironmental data for Ituri, Zaire, from sediments in Matupi Cave, Mt. Hoyo. In: *Evolution of Environments and Hominidae in the African Western Rift Valley* (ed. N. T. Boaz), Virginia Museum of Natural History, Memoir 1: 49-70.
- Garcia, J.E., Brook, G.A., Carver, R.E. 1990. Predicting well production in the Southern Piedmont of Georgia using site topographic and geologic characteristics. *Southeastern Geographer* 30(1): 17-35.
- Brook, G.A., Burney, D.A., Cowart, J.B. 1990. Desert paleoenvironmental data from cave speleothems with examples from the Chihuahuan, Somali-Chalbi, and Kalahari Deserts. *Palaeogeography, Palaeoclimatology, Palaeoecology* 76: 311-329.
- Garcia, J.E., Brook, G.A. 1990. Factors controlling ground water flow to wells in crystalline rocks based on a principal components analysis, Southeastern Piedmont of Georgia. *The Geographical Bulletin* 32(2): 133-140.
- Brook, G.A., Burney, D.A., Cowart, J.B., and Ellwood, B.B. 1990. Present and former deserts: evidence of environmental change from cave sediments in East Africa and the American Southwest. *Studia Carsologica* 2: 19-28.
- Brook, G.A., Hanson, M. 1991. Double Fourier series analysis of cockpit and doline karst near Browns Town, Jamaica. *Physical Geography* 12(1): 37-54.
- Dyer, J.M., Brook G.A. 1991. Spatial and temporal variations in temperate forest soil carbon dioxide during the non-growing season. *Earth Surface Processes and Landforms* 16: 411-426.
- Yin, Z-Y., Brook, G.A. 1991. The topographic approach to locating high-yield wells in crystalline rocks: does it work? *Ground Water* 30(1): 96-102
- Brook, G.A., Brook, D.L. 1991. Possible origins for water marks on the walls of the Wonderhole, Chinhoyi Caves, Zimbabwe. *Transactions of the Zimbabwe Scientific Association* 65: 10-15.
- Yin, Z-Y., Brook, G.A. 1992. Evapotranspiration in the Okefenokee Swamp watershed: A comparison of temperature-based and water balance methods. *Journal of Hydrology* 131: 293-312.
- Yin, Z-Y., Brook, G.A. 1992. The impact of the Suwannee River sill on the surface hydrology of the Okefenokee Swamp. *Journal of Hydrology* 136: 193-217.
- Yin, Z., Brook, G.A. 1992. Reply to discussions by Harry E. LeGrand and Ralph C. Heath of "The topographic approach for locating high-yield wells in crystalline rocks: does it work?" *Ground Water* 30(1): 619-621.
- Yin, Z-Y., Brook, G.A. 1992. Which wells have higher yields, those located by "the lay of the land" or those located by fracture-trace mapping? *Water Well Journal* 46(9): 51-53.
- Brook, G.A., Railsback, L.B., Cooke, H.J., Chen, J., Culp, R.A. 1992. Annual growth layers in a stalagmite from Drotsky's Cave, Ngamiland: relationships between growth layer thickness and precipitation. *Botswana Notes and Records* 24: 151-163.
- Brook, G.A. 1992. University of Georgia paleoenvironmental studies in northwest Botswana (1987-1993). *Botswana Notes and Records* 24: 233-235.
- Brook, D.L., Brook G.A. 1993. Social studies for Somali Nomads. *The Social Studies* 84(1): 5-13.
- Davis, J.D., Brook, G.A. 1993. Geomorphology and hydrology of Upper Sinking Cove, Cumberland Plateau, Tennessee. *Earth Surface Processes and Landforms* 18: 339-362.
- Brook, G.A., Haberyan, K.A., De Filippis, S. 1993. Evidence of a shallow Lake at Tsodilo Hills, Botswana, 17,000 to 15,000 yr. B.P.: Further confirmation of a widespread late Pleistocene humid period in the Kalahari Desert. *Palaeoecology of Africa* 23: 165-175.
- Robbins, L.H., Murphy, M.L., Stewart, K.M., Campbell, A., Brook, G.A. 1994. Barbed bone points, paleoenvironment, and the antiquity of fish exploitation in the Kalahari. *Journal of Field Archaeology* 21:257-264.
- Railsback, L.B., Brook, G.A., Chen J., Kalin, R.M., Fleisher, C.J. 1994. Environmental controls on the

- petrology of a late Holocene speleothem from Botswana with annual layers of aragonite and calcite. *Journal of Sedimentary Research* A64 (1): 147-155.
- Burney, D.A., Brook, G.A., Cowart, J.B. 1994. A Holocene pollen record for the Kalahari Desert of Botswana from a speleothem in Drotsky's Cave. *The Holocene* 4(3): 225-232.
- Robbins, L.H., Murphy, M.L., Stevens, N.J., Brook, G.A., Ivester, A., Haberyan, K.A., Klein, R.G., Milo, R., Stewart, K. M., Matthieson, D. G., Winkler, A. 1994. Paleoenvironment and archaeology of Drotsky's Cave: Western Kalahari Desert, Botswana. *Journal of Archaeological Science* 23: 7-22.
- Brook, G.A., Railsback, L.B., Cooke, J.H., Chen, J., Culp, R.A. 1995. Precipitation data from annual growth layers in speleothems: some preliminary results from Drotsky's Cave in the Kalahari Desert of Botswana. *Studia Carsologica* 6: 65-80.
- Brook, G.A., Cowart, J.B., Ford, D.C. 1996. Raised marine terraces along the Gulf of Aden Coast of Somalia. *Physical Geography* 17(4): 297-312.
- Brook, G.A., Nickmann, R.J. 1996. Evidence of late Quaternary environments in northwestern Georgia from sediments preserved in Red Spider Cave. *Physical Geography* 17(5): 465-484.
- Robbins, L.H., Murphy, M.L., Campbell, A., Brook, G.A. 1996. Excavations at the Tsodilo Hills' Rhino Cave. *Botswana Notes and Records* 28: 23-45.
- Brook, G.A., Cowart, J.B., Marais, E. 1996. Wet and dry periods in the Southern African summer rainfall zone during the last 300 kyr from speleothem, tufa, and sand dune age data. *Palaeoecology of Africa* 24:147-158.
- Garcia, J.E., Brook, G.A. 1996. Reconstruction of the Ocmulgee River, Georgia: 1807-1971. *Southeastern Geographer* 36 (2): 192-206.
- Robbins, L., Robbins, P., Murphy, M., Campbell, A., Ramatokwane, L., Babutsi, G., Brook, G.A., Sheen, S-W. 1996. Further archaeological work at Rhino Cave, Tsodilo Hills. *The Zebra's Voice* 23(3/4): p. 9.
- Brook, G.A., Cowart, J.B., Brandt, S.A., Scott, L. 1997. Quaternary climatic change in Southern and Eastern Africa during the last 300 ka: the evidence from caves in Somalia and the Transvaal region of South Africa. *Zeitschrift für Geomorphologie N.F. Suppl.-Bd.* 108: 15-48.
- Railsback, L.B., Sheen, S-W, Rafter, M.A., Brook, G.A., Kelloes, C. 1997. Replacement of aragonite by aragonite in carbonate diagenesis: Criteria for its recognition in speleothems from Botswana and Madagascar. *Speleochronos* 8: 3-11.
- Robbins, L.H., Murphy, M.L., Campbell, A.C., Brook, G.A. 1998. Intensive mining of specular hematite in the Kalahari, ca. AD 800 to 1000. *Current Anthropology* 39(1): 144-150.
- Robbins, L.H., Murphy, M.L., Campbell, A.C., Brook, G.A., Reid, D.M., Haberyan, K.A., Downey, W.S. 1998. Test excavations and reconnaissance paleoenvironmental work at Toteng, Botswana. *South African Archaeological Bulletin* 53: 125-132.
- Brook, G.A., Marais, E., Cowart, J.B. 1999. Evidence of wetter and drier conditions in Namibia from tufas and submerged speleothems. *Cimbebasia* 15: 29-39.
- Brook, G.A., Rafter, M.A., Railsback, L.B., Sheen, S-W., Lundberg, J. 1999. A high-resolution proxy record of rainfall and ENSO since A.D. 1550 from layering in stalagmites from Anjohibe Cave, Madagascar. *The Holocene* 9 (6): 695-705.
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- Brook, G.A. 2006. Late Pleistocene-Holocene history of Lake Ngami, Botswana based on OSL dating of fluvial and lacustrine sediments. Assoc. of American Geographers, Annual Meeting, Chicago, IL March 2006.
- Liang, F., Brook, G.A. 2006. Variations in Asian Monsoon strength during the Holocene: stalagmite evidence from Guizhou Province, China. Assoc. of American Geographers, Annual Meeting, Chicago, IL March 2006.
- Kiehn, A., Brook, G.A., Dake, J. Z., Glascock, M.D. 2006. Fingerprinting specular hematite from mines in Southern Africa. American Chemical Society Meeting and Exposition, Atlanta GA, March 26-30 2006.
- Brook, G.A. 2006. OSL dating of fluvial and lacustrine sediments in Quaternary studies: the late Pleistocene-Holocene history of Lake Ngami, Botswana, Southern Africa. Abstract Volume, PAGES International Symposium "Reconstructing Past Regional Climate Variations in South America over the late Holocene", Malargüe, Mendoza, Argentina, October 4-7, 2006, p. 61.
- Brook, G.A. 2006. Stalagmite evidence of droughts in Belize at the time of the Classic Maya collapse and the potential for similar high-resolution paleoenvironmental records from speleothems in Southern South America. Abstract Volume, PAGES International Symposium "Reconstructing Past Regional Climate Variations in South America over the late Holocene", Malargüe, Mendoza, Argentina, October 4-7, 2006, p. 32.
- Brook, G.A. 2006. Luminescence dating of relict lake shorelines and relict dunes: a late Quaternary wet or dry history of the Etosha Pan region of Namibia. Abstract Volume, PAGES International Symposium "Reconstructing Past Regional Climate Variations in South America over the late Holocene", Malargüe, Mendoza, Argentina, October 4-7, 2006, p. 60.
- Pavich, M.J., Markewich, H.W., Brook, G.A. 2006. Significance of Kent Island Formation to geomorphic history of the Mid-Atlantic region. Geological Society of America, Annual Meeting, Philadelphia, PA, 22-25 October, 2006 (presented by Pavich).
- Liang, F., Brook, G.A. 2006. Mid- to late-Holocene Asian summer monsoon variability: stalagmite evidence from Southwestern China. SE Division of the Assoc. of American Geographers, Annual Meeting, Morgantown, VA, November 2006.
- Donoghue, J.E., Forrest, B.M., Balsillie, J.H., Stapor, F.W. Jr., Kish, S.A., Brook, G.A., Brook, F.Z. 2007. Late Quaternary sea-level history for the northern Gulf of Mexico and its impact on barrier growth and development. 56th Annual Meeting, Southeastern Section, Geological Society of America, Savannah, Georgia, 29-30 March, 2007 (presented by Forrest).
- Brook, G.A. 2007. Late Pleistocene and Holocene Environmental Change Revealed by Historical Records and OSL-dated Fluvial and Lacustrine Sediments in Etosha Pan, Namibia and Lake Ngami, Botswana. IGU Arid Lands, Humankind, and Environment Commission Meeting "Dryland and Impediments to Development", Riyadh, Saudi Arabia, February 20-22, 2007.
- Brook, G.A. 2007. Stalagmite evidence of droughts in Belize at the time of the Classic Maya collapse. Session "Quaternary Environments of the Americas IV: Innovative Approaches. Assoc. of American Geographers, Annual Meeting, San Francisco, CA, April 2007 (presented by Liang).
- Liang, F., Brook, G.A. 2007. A Holocene record of environmental change in the Southeastern USA from DeSoto Caverns, Alabama. Assoc. of American Geographers, Annual Meeting, San Francisco, CA, April 2007 (presented by Liang).
- Donoghue, J. F., Stapor, F.W., Kish, S. A., Forrest, B.M., Brook, G.A., Brook, F.Z., and Balsillie, J. H. 2008. Northern Gulf of Mexico Holocene sea-level history and its impact on barrier growth. AGU-ASLO Conference, March 2-7, 2008, Orlando, Florida (presented by Donoghue).
- Brook, G. A., Scott, L., Railsback, L. B. 2008. A 35,000-year pollen and isotope record of environmental change from a speleothem in Wonderwerk Cave, South Africa. The Fifth International Conference,

- Climate Change: The Karst Records, Chongqing, China, June 2-5.
- Scott, L., Gil-Romera, G., Marais, E., Brook, G. A., and Chase, B. 2008. Terrestrial pollen evidence for some phases of vegetation change in the Namib Desert since ca. 47 ka, Third Southern Deserts Conference, Molopo Lodge, South Africa, September 16-19 (presented by Scott).
- Liang, F. and Brook, G.A. 2008. A mid- to late-Holocene high-resolution record of environmental change in the Southeastern USA from DeSoto Caverns, Alabama. AAG Annual Conference, Boston, MA, April 15-19 (4/18) (presented by Liang).
- Kotlia, B.S. and Brook, G.A. 2009. Multi-annual scale Holocene climatic changes using speleothems to supplement lake records: a beginning in the Indian Himalaya. Third LIMPACS (Human Impacts on Lake Ecosystems: IGBP, PAGES) Conference "Holocene Lake Records", Chandigarh, India, March 5-8, 2009 (presented by Kotlia and Brook).
- Brook, G.A. 2009. Timing of Holocene lake level changes in Etosha Pan, Namibia, and Lake Ngami, Botswana. Third LIMPACS (Human Impacts on Lake Ecosystems: IGBP, PAGES) Conference "Holocene Lake Records", Chandigarh, India, March 5-8, 2009.
- Liang, F. and Brook, G.A. 2009. Stalagmite evidence from Panigarh Cave of a wetter Little Ice Age in the Himalayan foothills of India. AAG Annual Conference, Las Vegas, NV, March 22-27 (3/22) (presented by Liang).
- Brook, G.A., Moyes, H., Awe, J., and Webster, J. 2009. Stalagmite evidence from Belize indicating significant droughts during the Classic Maya era, Symposium: The Great Maya Droughts in Cultural Context, Society for American Archaeology 74th Annual Meeting, Atlanta, April 22-26, 2009.
- Moyes, H., Webster, J., Awe, J., and Brook, G.A. 2009. Ritual and the environment: evidence for a Late Classic drought cult in western Belize, Symposium: The Great Maya Droughts in Cultural Context, Society for American Archaeology 74th Annual Meeting, Atlanta, April 22-26, 2009 (presented by Moyes).
- Iannone, G., Moyes, H., Awe, J., Brook, G.A., Webster, J., Conolly, J. 2009. Socio-environmental dynamics in the North Vaca Plateau, Belize: a long-term perspective, Belize Archaeology Symposium, Institute of Archaeology, Belize, C.A., July 1-3 2009 (presented by Iannone).
- Suther, B.E., Leigh, D.S. and Brook, G.A. 2010. Ages of fluvial terraces in the Little River Valley, Upper Coastal Plain, North Carolina. Geological Society of America, Northeast Section (45th Annual) and Southeast Section (59th Annual) Joint Meeting, Baltimore MD, March 13-16, 2010 (presented by Suther).
- Litwin, R.J., Smoot, J.P., Pavich, M.J., Markewich, H.W., Brook, G.A. and Verardo, S. 2010. Hybla Cores 7 & 8: An 80,000-year Late Pleistocene climate record from the Mid-Atlantic Coastal Plain of North America. Geological Society of America, Northeast Section (45th Annual) and Southeast Section (59th Annual) Joint Meeting, Baltimore MD, March 13-16, 2010 (presented by Litwin).
- Pavich, M.J., Markewich, H.W., Litwin, R.J., Smoot, J., and Brook, G.A. 2010. Significance of Marine Oxygen Isotope Stage OIS5a and OIS3 dates from estuarine sediments flanking Chesapeake Bay. Geological Society of America, Northeast Section (45th Annual) and Southeast Section (59th Annual) Joint Meeting, Baltimore MD, March 13-16, 2010 (presented by Pavich).
- Ploetz, C.J. and Brook, G.A. 2010. Paleoenvironmental history of Otjimaruru Pan, Namibia, derived from OSL dating of lunette and linear dune sands. AAG Annual Conference, Washington, D.C., April 14-18 (4/17) (presented by Ploetz).
- Liang, F. and Brook, G.A. 2010. Paleoclimate variations in the Southeastern USA during the Late Holocene: Stalagmite evidence from DeSoto Caverns, Alabama. AAG Annual Conference, Washington, D.C., April 14-18 (4/18) (presented by Liang).
- Leigh, D.S., Suárez, R. and Brook, G.A. 2010. Riverine eolian dunes in Uruguay: landscapes, paleoenvironments, sedimentation history, and repositories for earliest American sites. The V Simposio Internacional "El hombre temprano en América," La Plata, Argentina, Nov. 22-26.
- Alexander, C., Rink, W., Jackson, C.W. Jr., Brook, G.A., and Ivester, A. 2011. Late Holocene geologic development of the Georgia coast. 60th Annual Meeting, Southeastern Section GSA, Wilmington NC, March 23-25 (presented by Alexander). GSA Abstracts with Programs 43(2), abstract 186024.
- Sletten, H.R., Railsback, L.B., and Brook, G.A. 2011. A 4600-year high-resolution stalagmite paleoclimate record for northeastern Namibia. 60th Annual Meeting, Southeastern Section GSA, Wilmington NC, March 23-25 (presented by Sletten). GSA Abstracts with Programs 43(2), abstract 185975.
- Mancini, M.V., Bamonte, F.P., Franco, N.V., and Brook, G.A. 2011. Paleoenvironmental conditions and changing early occupations of the south of the Deseado Massif (Patagonia, Argentina). XVIII INQUA Congress, Bern Switzerland (presented by Mancini).

- Scott, L., Neumann, F.H., Brook, G.A., Bousman, C.B., and Norström, E. 2011. Terrestrial evidence of vegetation and climate change during the last 30 ka in Southern Africa: the fossil pollen data. XVIII INQUA Congress, Bern Switzerland (presented by Scott).
- Scott, L., Gil-Romera, G., Brook, G.A., Marais, E. 2012. A Holocene desert margin pollen record from dung deposits at Naukluft, Namibia. XIX Biennial SASQUA Congress, Gobabeb, Namibia, September 13-16 (presented by Scott).
- Smoot, J.P., Litwin, R.J., Pavich, M.J., Markewich, H.W., Brook, G.A. 2012. Sedimentary indicators of climate variability through the late Pleistocene in the Potomac River valley south of Washington DC. Session 72, "Quaternary Atlantic Coastal Plain Formation and Evolution," November 5, GSA Annual Meeting, Charlotte NC November 4-7 (presented by Smoot).
- Franco, N., Brook, G.A., Mancini, M.V., Ambrústolo, P. 2012. Early human presence and variations in water levels in lagoons in the southern part of the Deseado Massif (Santa Cruz Province, Argentina). VI Simposio Internacional "El Hombre Temprano en América: Modelos de Poblamiento y Aportes desde Territorialidades Tropicales". Universidad Tecnológica de Pereira, Pereira-Armenia-Manizales, Columbia, Nov. 19-24, 2012 (presented by Franco).
- Franco, N., Borrero, L., Brook, G.A., Mancini, M.V. 2013. Changes in technological organization and human use of the space in the south of Patagonia (Argentina) during the Late Holocene. Symposium: Lithic Technological Organization and Paleoenvironmental Change. Society for American Archaeology, 78th Annual Meeting, Honolulu, Hawaii, April 3-7 (presented by Franco).
- Wang, L. and Brook, G.A. 2013. Holocene climate changes in northwest Madagascar: evidence from a two-meter-long stalagmite from the Anjohibe Cave. AAG Annual Conference, Los Angeles, CA, April 9-13 (presented by Wang).
- Akers, P. and Brook, G.A. 2013. Paleoclimate implications of Late Pleistocene calcite veins from Santa Cruz province, Argentina. AAG Annual Conference, Los Angeles, CA, April 9-13 (presented by Akers).
- Franco, N., Ambrustolo, P., Mancini, M. V., and Brook, G. 2013. Utilización De Espacios Al Aire Libre Y Bajo Roca, Paleoambientes Y Cronologías En El Sur Del Macizo Del Deseado (Provincia De Santa Cruz, Argentina). XVIII National Congress of Argentine Archaeology, Mesa de Comunicaciones de Patagonia, Universidad Nacional de La Rioja, Instituto de Ciencias Humanas, Sociales y Ambientales, La Rioja, Argentina 25-26 April (presented by Franco).
- Franco, N., Brook, G. and Cirigliano, N. 2013. Cronologías Y Paleoambiente En El Cañadón Yaten Guajen (Provincia De Santa Cruz, Argentina). XVIII National Congress of Argentine Archaeology, Mesa de Comunicaciones de Patagonia, Universidad Nacional de La Rioja, Instituto de Ciencias Humanas, Sociales y Ambientales, La Rioja, Argentina 25-26 April (presented by Franco).
- Franco, N. V., Brook, G.A., Ambrústolo, P., and Mancini, M.V. 2013. Early peopling of the southern part of the Deseado Massif: evidence from La Gruta and Viuda Quenzana (Patagonia, Argentina). Paleoamerican Odyssey (organized by: Center for the Study of the First Americans, Department of Anthropology, Texas A&M University), Sante Fe, New Mexico, October 16-19 (poster presentation by Franco).
- Voarintsoa, N.R., Railsback, L.B. and Brook, G.A. 2013. Evidence of past climate change in the Little Ice Age and of the Pacific Decadal Oscillation periodicity in Africa: comparison between two neighbor stalagmites from Namibia and Botswana (preliminary results). American Geophysical Union Annual Conference, December 9-13, San Francisco, California (presented by Voarintsoa).
- Akers, P., Brook, G.A. and Liang F. 2014. A 5300-yr stalagmite paleoclimate record from Macal Chasm, Belize. Annual Meeting of the Association of American Geographers (AAG), Tampa, FL, April 8-12 (presented by Akers).
- Scott, L., Avery, M., Bamford, M., Berna, F., Brink, J., Brook, G., Chazan, M., Ecker, M., Fernandez-Jalvo, Y., Goldberg, P., Lee-Thorp, J., Rossouw, L., Thackeray, F., and Horowitz, L. 2014. The Late Pleistocene and Holocene palaeoenvironmental context of Wonderwerk Cave in the southern Kalahari, South Africa. Geophysical Research Abstracts Vol. 16, EGU2014-8166, 2014. Annual EGU meeting, Vienna, Austria, Apr. 27-May 2 (Presented by Scott).
- Marais, E. and Brook, G.A. 2014. Hemlines, Butter and Stockmarkets - Isotopes as Precipitation Indices in Hyrax Deposits. From Past to Present: Changing Climates, Ecosystems and Environments of Arid Southern Africa - a tribute to Louis Scott, Bloemfontein, South Africa, July 7-11. (Presented by Marais).
- Akers, P., Brook, G.A., Liang, F., Wang, X., Auler, A.S., Railsback, L.B., Cheng, H., Edwards, R.L. and Benedetto, C. 2014. A 48,000-year record of climate change in west-central Argentina from stalagmites in Caverna de las Brujas, Mendoza Province. Scientific Programme and Abstracts, 'KR7 Down Under', 7th International Conference, Climate Change: The Karst Record, p. 20. Melbourne, Australia, Sept. 29-Oct. 3

- (Presented by Akers). Reproduced in: Argentina Subterránea - Publicación semestral de la Federación Argentina de Espeleología – FadE, 36: 9-10, October 2014.
- Voarintsoa, N.R.G., Railsback, L.B., Liang, F., Brook, G.A., Cheng, H. and Edwards, R.L. 2014. Control of solar radiation over climate variability in southern Africa: isotopic and petrographic evidence from Namibia and Botswana stalagmites. Annual Meeting of the Geological Society of America, Vancouver, BC, Canada, Oct. 19-22. GSA Abstracts with Programs Vol. 46, No. 6 (Poster presented by Voarintsoa).
- Franco, N.V., Brook, G.A., Stern, C., Cirigliano, N. and Vetrivano, L. 2014. Disponibilidad de obsidiana en el centro de la estepa patagónica: un caso de estudio entre el sur del Macizo del Deseado y la cuenca del río Chico. IX Conference of Archaeology of Patagonia, Coyhaique, Chile, 20-25 October 2014 (poster presented by Franco).
- Franco, N.V., Mancini, M.V., Brook, G.A. and Vetrivano, L. 2014. Environmental and Cultural Changes in Southern Continental Patagonia: The Chico and Santa Cruz River Basins. 4th Southern Deserts Conference, Mendoza, Argentina, Nov. 10-14 (presented by Franco).
- Brook, G.A. 2014. Late Pleistocene-Holocene sedimentation history of Lake Ngami, Botswana, at the Kunyere-Nchabe River inlet: A response to climatic fluctuations. 69th Annual Meeting of the SE Division of the Assoc. of American Geographers, Athens, GA, Nov. 23-25.
- Wang, L. and Brook, G.A. 2014. A 4000-year, high-resolution, Holocene climate record from a speleothem in northwest Namibia. 69th Annual Meeting of the SE Division of the Assoc. of American Geographers, Athens, GA, Nov. 23-25 (presented by Wang).
- Scott, L., Gil-Romera, G., Marais, E. and Brook, G.A. 2015. Evidence of vegetation change in Late Quaternary deposits of the Namib Desert and boundary region. The African Quaternary: Environments, Ecology, and Humans (AFQUA), Jan. 30-Feb. 7, Cape Town, South Africa (presented by Scott).
- Ocakoğlu, F., Özsayın, E. and Brook, G.A. 2015. Late Pleistocene-Holocene fluvial incision in the Karacasu Graben (W. Anatolia): an alternative approach to active tectonics of the Büyük Menderes Graben. 68th Geological Congress of Turkey, Ankara, April 6-10 (presented by Ocakoğlu).
- Wang, L., Brook, G.A. and Marais, E. 2015. Sand ramp evidence from southern Namibia of Late Quaternary episodes of greater aridity and stronger winds. GSA Annual Meeting, Baltimore, Maryland, USA, November 1-4 (presented by Wang).
- Voarintsoa, N.R.G., Railsback, L.B., Brook, G.A., Liang, F., Cheng, H. and Edwards, R.L. 2015. Late Holocene (ca. AD 370-1210) ecosystem changes inferred from a stalagmite from northwestern Madagascar: the role of the ITCZ and human activities. AGU Annual Meeting, San Francisco, California, December 14-18 (presented by Voarintsoa).
- Smoot, J.P., Litwin, R.J., Pavich, M.J., and Brook, G. 2016. Sedimentary records of Pleistocene climate change in outcrops and cores along the tidal Potomac River south of Washington DC. Geological Society of America Annual Meeting, Denver, CO, September 25-28, 2016 (to be presented by Smoot 09/25/2016). Published in GSA Abstracts with Programs, 48 (7), doi: 10.1130/abs/2016AM-284095.
- Akers, P. and Brook, G.A. 2016. Combining HYSPLIT Modeling, Weather Radar Analysis, and Weekly USNIP $\delta^{18}\text{O}$ Data to Constrain the Effect of Changing Moisture Source on Precipitation $\delta^{18}\text{O}$ Values in the American Midwest. American Geophysical Union Fall Meeting, San Francisco, CA, December 12-16 (presented by Akers).

Book Reviews

- Lounsbury, J.F. and Aldrich, F.T. - Introduction to Geographic Field Methods and Techniques, Charles E. Merrill, Columbus, (1979). Reviewed for Charles E. Merrill Publishing Company prior to publication, March 1978.
- Goudie, A.S., Environmental Change, Clarendon Press, Oxford (1977). *Journal of Geography*, 78 (4), 1979, 161-162.
- LaFleur, R.G. (ed.), Groundwater as a Geomorphic Agent, Allen & Unwin, 1984 *Professional Geographer*, 37(2), 1985, p. 237.
- Jennings, J.N., Karst Geomorphology, Blackwell, 1985. *Professional Geographer*, 39(1), 1987, 109-110.
- Fernald, E.A. and Patton, D. J. (eds.), Water Resources Atlas of Florida, Florida State University, 1984. *Professional Geographer*, 39(3), 1987, 369-370.
- Thomas, D.S.G. and Shaw, P.A., The Kalahari Environment, Cambridge University Press, 1991. Geographical Review (published no details).
- Dardis, G.F. and Moon B.P. (eds.), Geomorphological Studies in Southern Africa, A. A. Balkema, Rotterdam,

1988. *Geomorphology*, 16, 1996, 349-350.

Sealey, N.E., *Bahamian Landscapes: An Introduction to the Geography of the Bahamas*, Media Publishing, Nassau, 1994. *Southeastern Geographer*, 36(1), 1996, 87-89.

9. OTHER PROFESSIONAL ACTIVITIES

Reviewer

Journals: Professional Geographer; Journal of Sedimentary Petrology; Earth and Planetary Science Letters; South African Geographical Journal; Southeastern Geographer; Geoarchaeology: An International Journal; Geomorphology; Geomorphology: Relief, Processes, Environment; International Journal of Pure and Applied Geomorphology; Quaternary Research; Physical Geography; The Holocene; Journal of Human Evolution; Palaeogeography, Palaeoclimatology, Palaeoecology; Florida Scientist; Quaternary Science Reviews; Quaternary International; Geophysical Research Letters; Boreas; Journal of Quaternary Science; Transactions of the Royal Society of South Africa.

Funding Agencies: Reviewer for: NSF Division of International Programs; NSF Geography and Regional Science Program; NSF Surficial Processes Program; NSF Anthropology Program; NSF Atmospheric Sciences Program, Georgia Cooperative Federal-State Water Resources Research Program, U.S. Dept. of Interior; NASA Planetary Geology Program; National Geographic Society; NOAA Climate and Global Change Program; Deutsche Forschungsgemeinschaft, Bonn, Germany; Inter-American Institute for Global Change Research.

Memberships

Member of IGU Working Group "Anthropogenic Impact and Environmental Changes in Karst."

Chair of Working Group "Paleoenvironments of Presently Arid Karst Areas" within IGU Study Group "Anthropogenic Impact and Environmental Changes in Karst."

Member of the International Geological Correlation Programme, Project 252 - Past and Future Evolution of Deserts.

Chair of Working Group "Desert Paleoenvironments from Cave Sediments." within IGCP-252 - Past and Future Evolution of Deserts.

Leader of Group studying "Pollen in Cave Speleothems" within the Working Group "Speleothem Records of Environmental Changes in the Past" of the Commission de la Physico-chimie et Hydrogéologie du Karst, Union Internationale de Spéléologie.

Member of the Southern African Association of Geomorphologists.

Organizer, Chair, or Discussant

Organizer and Chairman of a Special Session on "Karst Geomorphology," Association of American Geographers Annual Conference, Philadelphia, April 1979.

Chair of Special Session on "Land Use and Environmental Problems in Karst Terrains II," Association of American Geographers Annual Conference, Louisville, Kentucky, April 1980.

Discussant for Special Session "Student Papers on Karst," AAG Annual Conference, Louisville, Kentucky, April 1980.

Co-organizer with Mike Morrissey of a symposium "Introduction to the Processes and Landforms of Tropical Karst Regions," National Council for Geographic Education Annual Meeting, Ocho Rios, Jamaica: October 1983.

Chair of Session: Geomorphology: Geomorphologic Models at AAG Annual Meeting, Baltimore, March 19-22.

Chair of Session at the IGU Working Group Meeting on "Anthropogenic Impact and Environmental Changes in Karst," Blansko, Czechoslovakia, September 1990.

Chair of Session: Late Pleistocene Geomorphology, Association of American Geographers Annual Meeting, San Francisco, California, March 29-April 2, 1994.

Chair of Session: "Paleoclimatic Reconstruction." Association of American Geographers Annual Meeting, Chicago, Illinois, March 15-18, 1995.

Chair of Session: "Coastal and Stream Sediment/Flow Processes." Association of American Geographers Southeast Division Annual Meeting, Knoxville, Tennessee, Nov. 18-21, 1995.

Chair of Session: "Geoarchaeology and Paleoenvironmental Records." Association of American Geographers Annual Meeting, Charlotte, North Carolina, April 9-13, 1996.

Chair of Session: "Quaternary Climate Change." Association of American Geographers Annual Meeting, Fort

- Worth, Texas, April 1-5, 1997.
- Co-coordinator of Session 1 at the Third LIMPACS (IGBP, PAGES) Conference in Chandigarh, India, March 5-8, 2009.
- Chair of Session: "Fluvial II", 69th Annual Meeting of the Southeastern Division of the Association of American Geographers (SEDAAG), Athens, GA, Nov. 23-25, 2014.
- Invited Lectures**
- "Palaeoenvironmental Data from Sediments in Caves: Africa and the U.S.A." Department of Geography, University of Zambia, Lusaka, June 19, 1987.
- "Karst Landforms," Department of Geology, University of Zimbabwe, Mt. Pleasant, July 7 & 8. "African and North American Caves as Sources of Quaternary Palaeoenvironmental Data," Geological Society of Zimbabwe, Harare, July 20, 1987.
- "Significance of the Surface and Underground Landforms of South Nahanni, Canada," Caving Group of East Africa, Nairobi, Kenya, December 22, 1987.
- "Caves as Sources of Palaeoenvironmental Information," Caving Group of East Africa, Nairobi, Kenya, December 22, 1987.
- "Cave Sediments as Sources of Palaeoenvironmental Data for Africa and North America," Desert Laboratory Seminar Series, Department of Geosciences, University of Arizona, Tucson, January 23, 1989.
- "Cave and Rock Shelter Sediments in African Archaeology," The Athens Society of the Archaeological Institute of America, Athens, November 14, 1989.
- "Caves: A Key to Past Environments." State Museum of Namibia, Windhoek, Namibia, September 3, 1990.
- "Cave and Rock Shelter Evidence of Past Climates in East and Southern Africa." Department of Geology, University of Minnesota, Feb. 15, 1996.
- "Potential of Cave Speleothems to Provide High-resolution Palaeoenvironmental Records". Department of Geology, University of Minnesota, Minneapolis, Minnesota, Feb. 16, 1996.
- "Cave and Rock Shelter Evidence of Quaternary Environmental Change in East and Southern Africa and the Applicability of the Approach to Water Research in Oman". Ministry of Water Resources, Muscat, Oman, Dec. 16, 1995.
- "Paleoclimatic Significance of Karst Features in Deserts," Department of Geography, Ain Shams University, Cairo, Egypt, March 3, 1998.
- "The State of Geography in the United States," Department of Geography, Ain Shams University, Cairo, Egypt, March 15, 1998.
- "Medium and High Resolution Paleoclimatic Data from Cave Speleothems: A New Approach to Explaining Major Historical and Archaeological Events," Department of Geography, Texas A&M University, College Station, Texas, November 20, 2000.
- "Environmental Change and Human Activities: Evidence from Cave Stalagmites". Department of Geology Journal Club, University of Georgia, March 29, 2001.
- "Cave Speleothem Evidence of Environmental Change: Some Recent Results from Africa, the Americas and Madagascar". Department of Geography and Geology, Georgia Southern University, Statesboro, April 5, 2001.
- "Climate in Southern Africa since AD 500: Evidence from Botswana Stalagmites". Brook, G.A., Railsback L.B. (2001). Invited paper to be presented in the "Symposium on Karst" at the Fifth International Conference on Geomorphology, Tokyo, Japan, August 2001 (could not attend because of accident).
- "Some Recent Research in Southern Africa and Central America". Department of Geography, Ain Shams University, Cairo, Egypt, April 17, 2007.
- "Reminiscences of good times: adventures in two countries and some things to forget". Department of Geography, Ain Shams University, Cairo, Egypt, April 17, 2007.
- "Late Pleistocene and Holocene environmental change revealed by OSL-dated fluvial and lacustrine sediments in Etosha Pan, Namibia, and Lake Ngami, Botswana". IGU Commission 0402 Arid Lands, Humankind and Environment. King Saud University, Riyadh, Saudi Arabia, April 24, 2007.
- "Research, Preservation, and Tourism in Caves: All are Possible". Programa Provincial de Espeleología (two-hour presentation to politicians, tourism operators, and speleologists about cave science, tourism, and exploration). Government workshop on cave preservation and research. Malargüe, Argentina, July 7-10, 2010.

“Paleoclimate reconstruction using speleothems from karst caves in Argentina”. Invited presentation at the Fourth Argentine and First Latin American Congress of Speleology, Malargüe, Mendoza, Argentina, April 1-8, 2012.

“Paleoclimate information from Argentine cave stalagmites” One-hour public presentation at the Las Lajas, Municipal Center in Neuquén Province, Argentina, March 18, 2013.

10. TEACHING EXPERIENCE

Junior Lecturer: University of the Witwatersrand, Johannesburg, South Africa, 1968-1970.

Teaching Assistant, McMaster University, Hamilton, Ontario, Canada, 1971-1975.

Assistant Professor, University of Georgia, Athens, Georgia 30602, U.S.A., 1975-1981.

Associate Professor, University of Georgia, Athens, Georgia 30602, U.S.A., 1981-1987.

Professor, University of Georgia, Athens, Georgia 30602, U.S.A., 1987-present.

Merle C. Prunty Jr. Professor of Geography, UGA, Jan. 2001-present.

Courses Taught (U = undergrad only), U/G = undergrad and grad, G = grad only):

1) Earth Science Survey (U), 2) Introduction to Landforms (U), 3) Regional Geography of North America (U), 4) Introduction to Hydrology (U), 5) Advanced Terrain Analysis (U/G), 6) Advanced Geomorphology (U/G), 7) Global Environmental Change During the Quaternary (U/G), 8) Field Methods in Physical Geography (U/G), 9) Geomorphology and Environmental Change in Karst and Arid Environments (U/G), 10) Seminar in Geomorphology (G), 11) Seminar in Quaternary Paleoenvironments (G), General Geomorphology (U).

11. M.A., PH.D. AND POST-DOCTORAL ADVISEMENT

Doctoral

Chin-hong Sun (1986)	-	National Taiwan University, Taiwan.
Jerry Davis (1987)	-	San Francisco State University
Keun Bai Yu (1986)	-	Seoul National University, S. Korea
Rudi Kiefer (1986)	-	University of North Carolina at Wilmington
Robert Hyatt (1984)	-	Radford University
Zhi-Yong Yin (1990)	-	Georgia State University
Joseph Garcia (1992)	-	University of South Florida
Steve Harper (1996) (Geology)	-	East Carolina University
Thomas Feeney (1997)	-	Shippensburg University
Heidi Lamoreaux (1999)	-	Sonoma State University
Sydney Bacchus (Ecology) (1999)	-	Center for Geospatial Research U. Georgia
James Webster (2000)	-	U.S. EPA, Atlanta, Georgia
Shaw-Wen Sheen (2001)	-	National Tainan Teacher's College, Taiwan
Honglin Xiao (2003)	-	Elon University, Elon, NC
Fuyuan Liang (2008)	-	Northwest Illinois University
Lixin Wang (2016)	-	University of Cincinnati
Pete Akers (2016)	-	Indiana University

First Position

Masters

Terry Allison (1980)	Jian Chen (1992)
Chin-hong Sun (1981)	Carl Seielstad (1994)
Jerry Davis (1982)	Andrew Ivester (1995)
Neil Heywood (1984)	Shaw-wen Sheen (1996)
Mark Hanson (1984)	Ethan Goddard (Geology) (1997)
James Dyer (1986)	Dawn Reid (1998)
Ed. Luft (1986)	Adam Kiehn (Geology) (2007)
Chris Ploetz (2011)	Pete Akers (2011)

Advisory, Reading or Examining Committees

Amy K. Van Nostrand (M.S. Geology, 1981)	Margaret Rafter (M.A. Geology, 1997)
Ken Eubanks (M.S. Geology, 1985)	James Baldini (M.A., Geology, 1999)

Joseph Garcia (M.S. Geology, 1986)
 Robert Shipman (M.A. Geography, 1989)
 Ronnie Rogers (M.A. Geography, 1990)
 Joseph Nicholas (Ph.D. Geography, 1991)
 Katherine Schipke (M.A. Geography, 1992)
 Jiaqing Gao (Ph.D. Geography, 1992)
 Mike Harrison (M.A. Geography, 1992)
 Steve Williams (M.A. Geography, 1994)
 Raad Delaimi (Ph.D. Geology, 1996)
 Jill Oppenheim (M.A. Geography, 1996)
 Brad Suther (M.S. Geography, 2006)
 Michelle Luebke (M.S. Geography, 2006)
 Katie Price (Ph.D. Geography, 2009)
 Hillary Sletten (M.S. Geography, 2011)
 Brad Suther (Ph.D. Geography, 2013)
 Danielle Haskett (M.S. Geography, 2013)
 Jake McDonald (Ph.D. Geography 2016)

Christopher Sturm (M.A., Geography, 1999)
 Joseph Charles (M.A. Geography, 1999)
 Al Bruns (M.A. Forestry, 2000)
 Wendy Weaver (M.S. Geology, 2000)
 Kai Wang (Ph.D. Geography)
 Neeraj Vedwan (Ph.D. Anthropology, 2002)
 Matthew Doede (M.A. Geography)
 Keith Goggins (M.S. Geology)
 Tim Anderson (M.A. Geography)
 Mark Gimigliano (M.A. Geography, 1997)
 Jason Ridgeway (M.S. Geography, 2006)
 Heather Bartley (M.S. Geography, 2006)
 Lixin Wang (M.S. Geography 2010)
 Jiaying Wu (M.S. Geography 2012)
 Jason Meadows (M.S. Geography 2013)
 Genevieve Holdridge (Ph.D. Geography 2016)
 Michael Lukas (M.S. Geology 2016)

Presently on the committees of Robert Sorrells (Ph.D. Geography), Jiaying Wang (Ph.D. Geography) and Ny Riavo Voarintsoa (Ph.D. Geology)

Post-Doctoral and Visiting Scientist Supervision

Chin-Hong Sun, Post-Doc, Geomorphology, Jan-Jul 1986.
Keun-Bae Yu, Post-Doc, Geomorphology, May-Dec 1986.
Pradeep Srivastava, Post Doc in OSL Lab, Dec 2002-Aug 2005
Keun-Bae Yu, Seoul National University, Geomorphology, Visiting Professor, 12 months-2012
Guoqiang Li, Lanzou University, Visiting Ph.D. candidate in OSL Lab, 12 months-2012
Linhai Yang, Lanzou University, Visiting Post-Doc in OSL Lab, 12 months October 2015-October 2016

12. SERVICE ACTIVITIES

1. Departmental

1975-76 Departmental Secretary in charge of minutes.
 1976-77 Chairman, Computer Liaison Committee; Member, Staffing and Equipment Committees.
 1977-78 Member, Computer Liaison, Curriculum and Space Utilization Committees.
 1978-79 Member, Curriculum, Graduate Studies, and Equipment and Space Utilization Committees.
 Member, Budget and Resources Committee for Departmental Self-Study Report.
 1979-80 Member, Undergraduate Studies and Equipment Committees.
 1980-81 Member, Graduate Studies and Staffing Committees.
 1981-82 Chairman, Staffing Committee.
 1982-83 Chairman, Search and Screening Committee and Equipment Coordinator.
 1983-84 Acting Chair and Member, Search and Screening Committee; Member, Curriculum Committee.
 1985-86 Member, Curriculum Committee.
 1987-88 Member, Graduate Studies Committee.
 1988-89 Chairman, Search and Screening Committee.
 Member, Graduate Studies Committee.
 1989-90 Member, Graduate Studies Committee.
 1990-91 Member, Graduate Studies Committee.
 1991-92 Graduate Coordinator; Member, Graduate Student Relations and Search and Screening Committees.
 1992-93 Assistant Head of Geography May-August, 1993; Graduate Coordinator; Member, Graduate Student Relations and "Climatology" Search and Screening Committees.
 1993-94 Acting Head of Geography
 1994-99 Head of Geography
 1999-00 Member, Graduate Studies Committee; Member Search and Screening Committee for Franklin Fellow Position.
 2000-01 Member, Curriculum Committee, Member, Program Review Oversight Committee.

- 2004-05 Chair Ad Hoc Committee to establish P&T Guidelines, Chair of Advisory Committee (elected).
- 2005-06 Chair of Curriculum Committee, Member of Advisory Committee (elected).
- 2011-12 Member of Advisory Committee (elected).
- 2012-13 Member of Curriculum Committee.
- 2013-14 Member of Curriculum Committee, GEOG 1113 Course Coordinator.
- 2014-15 GEOG 1113 Course Coordinator
- 2015-17 GEOG 1113 Course Coordinator and Tech Fee Committee Member
2. **College and University**
- 1979-82 Geography Department College of Arts and Sciences Faculty Senate representative.
- 1979-82 Member, College of Arts and Sciences Faculty Relations Committee.
- 1980-81 Member, ad hoc grievance committee appointed by the Dean of the College of Arts and Sciences.
- 1982-85 Member, Physical Sciences Area Committee on Appointments and Reappointments to Graduate Faculty.
- 1983-84 Member, Graduate School Committee Reviewing Graduate Programs in Social Science Education.
- 1991-92 Member, Social and Behavioral Sciences Promotion and Tenure Committee of the College of Arts and Sciences; Member, Graduate Appointments Committee, Social Science Division, College of Arts and Sciences; Lunchtime Seminar Coordinator, Center for Archaeological Sciences.
- 1992-93 Chairman, Social and Behavioral Sciences Promotion and Tenure Committee of the College of Arts and Sciences; Member, University Council; Member, Graduate School Committee to Study Research Grading Policy; Lunchtime Seminar Coordinator, Center for Archaeological Sciences.
- 1993-95 Member, University Council.
- 1994-95 Member, Department of Anthropology Program Review Committee.
- 1994-2005 Appointed Director, Center for Archaeological Sciences in Feb. 1994, reappointed by vote of Center Associates in 1999.
- 1995-97 Chair Elect, Regents Academic Advisory Committee on Geological Sciences and Geography.
- 1997-98 Chair, Regents Academic Advisory Committee on Geological Sciences and Geography.
- 1998-99 Member, University Council
- 1999-00 Member, University Environmental Programs Enhancement Committee; Member, Program Review Committee, Center for Latin American and Caribbean Studies.
- 2002-05 Member, Franklin College Social and Behavioral Sciences Promotion and Tenure Committee.
- 2003-04 Co-Chair, Franklin College Anthropology Program Review Committee. Member, Research Foundation Committee reviewing Director, Center for Applied Isotope Studies.
- 2007 Member of Franklin College Ad Hoc Geology Program Review Committee.
- 2008- Member of Center for Applied Isotope Studies Advisory Committee.
- 2010-13 Member of Franklin College Committee to select Franklin College nominees for Regents, University and Distinguished Research Professorships.
3. **International**
- 2006 Reviewed promotion dossier for the College of Humanities and Social Sciences, United Arab Emirates University, December 2006.
- 2010 Requested evaluation of the record of a senior Professor in the Department of Environmental and Geographical Science, University of Cape Town, South Africa (for research ranking).