

**STEPHEN A. HALL, Ph.D.**  
**GEOLOGIST**

<http://redrockgeological.com>

PRESENT ADDRESS Red Rock Geological Enterprises  
3 Cagua Rd., Santa Fe, NM 87508-8116.  
TELEPHONE / FAX 505-466-7755  
CELL PHONE 505-660-5521  
E-MAIL ADDRESS **steve@redrockgeological.com**

BIRTHPLACE Ponca City, Oklahoma  
MILITARY SERVICE U.S. Army Reserves, 1964-1970

**DEGREES**

B.S. 1967 University of Oklahoma, Norman, Oklahoma; major, geology  
M.S. 1971 University of Iowa, Iowa City, Iowa; geology; [thesis] *"Paleoecological Interpretation of Bison, Mollusks, and Pollen from the Hughes Peat Bed, Lynn County, Iowa."*  
Graduate Adviser: Holmes A. Semken, Jr.  
Ph.D. 1975 University of Michigan, Ann Arbor, Michigan; geology; [dissertation] *"Stratigraphy and Palynology of Quaternary Alluvium at Chaco Canyon, New Mexico."*  
Graduate Adviser: Donald F. Eschman

**PROFESSIONAL POSITIONS**

2002-present Consulting geologist, Red Rock Geological Enterprises, Santa Fe, NM  
1997-2002 Professor of Geography, University of Texas at Austin, Austin, Texas  
1993-1996 Adjunct Associate Professor, Department of Sociology and  
Anthropology, University of Texas at El Paso  
1993-1996 Research Scientist, Institute for Geophysics, University of Texas at  
Austin, Austin, Texas  
1992-1993 Adjunct Associate Professorship of Anthropology, Texas A & M  
University, College Station, Texas  
1985-2002 Director, Palynology Laboratory, University of Texas at Austin  
1985-1997 Associate Professor of Geography, University of Texas at Austin,  
Austin, Texas  
1983-1985 Associate Professor of Geography, North Texas State Univ., Denton, TX  
1977-1983 Assistant Professor of Geography, North Texas State Univ., Denton, TX  
1977-1979 Research Scientist, Institute of Applied Sciences, North Texas State  
University, Denton, Texas; joint appointment with geography  
1976-1977 Consultant in archaeological geology, DeKalb, Illinois  
1975 Research Associate, Department of Geology, Northern Illinois University,  
DeKalb, Illinois  
Summers, 1972,1973 Archeology Aid, Chaco Center, U.S. National Park Service, Albuquerque,  
New Mexico  
1971-1973 Research Fellow, Museum of Paleontology, University of Michigan, Ann  
Arbor, Michigan.  
1968-1971 Teaching Assistant, Department of Geology, Univ. of Iowa, Iowa City, Iowa  
1967-1968 Assistant in Petrology, Department of Geology, Field Museum of Natural  
History, Chicago, Illinois.  
1963-1967 Geological Assistant, Oklahoma Geological Survey, Norman, Oklahoma.  
1963-1964 Research Assistant, Univ. of Oklahoma Research Institute, Norman, OK  
Summer, 1963 Museum Aid, Paleobiology Division, U. S. National Museum, Smithsonian  
Institution, Washington, D. C.

## **RESEARCH INTERESTS AND EXPERTISE**

- Archaeological geology, Southwest & Plains
- Surficial geology and geomorphology
- Quaternary stratigraphy and geochronology
- Palynology and Quaternary pollen analysis
- Quaternary paleoecology and biogeography
- Paleoclimatology
- Neogene stratigraphy and geochronology
- Southwest, Southern Rocky Mtns., South-Central U.S.

## **BIOGRAPHICAL LISTINGS**

- American Malacologists, 1st ed.
- American Men and Women of Science
- Men of Distinction, 15th ed.
- Who's Who in American Education, 3rd ed.
- Who's Who in Frontiers of Science and Technology, 2nd ed.
- Who's Who in Science and Engineering, 1st ed.
- Who's Who in the South and Southwest, 22nd ed.
- Who's Who in the World, 12th ed.

## **HONORS**

- Sigma Gamma Epsilon, honorary earth-science society, charter member of University of Iowa Chapter, 1969
- Society of the Sigma Xi, elected to full-membership, March 8, 1972
- National Science Foundation Traineeship, Univ. of Michigan, Dept. of Geology and Mineralogy, 1973-1974
- Chairman, Gordon Research Conferences, Conference on Aerobiology, 1987
- Certificate of Appreciation, from the Pueblo of Zuni, "with deep appreciation for your outstanding contribution to the enactment of the Zuni Land Conservation Act of 1990," signed by the Governor, Pueblo of Zuni, 1990
- Senior Fellow, Geological Society of America, elected 1995
- Steve # 759, National Center for Science Education Project Steve

## **PROFESSIONAL SOCIETY MEMBERSHIP, current**

American Association of Stratigraphic Palynologists  
Archaeological Society of New Mexico  
Geological Society of America, Senior Fellow  
New Mexico Archaeological Council  
New Mexico Geological Society  
Oklahoma Anthropological Society

## **PROFESSIONAL SOCIETY SERVICE AND COMMITTEE WORK**

*American Association of Stratigraphic Palynologists*  
Student Award Committee, 1979  
Nominating Committee, 1980-81, 1993-94  
Director-at-Large, 1988-1989  
Chair-in-Palynology Committee, 1988-1990  
INQUA representative, 1989-1994  
Short-course committee, 1990-1994  
Nominated for President-Elect for 1995  
*American Geomorphological Field Group*  
Co-Leader, Chaco Canyon, 1983  
*Association of American Geographers*

Southwest Division, session chair and field trip co-leader, 1990

*Ecological Society of America*  
 Founding member of the Paleoecology Section  
 Evaluator of student papers at ann. mtg. for Murray F. Buell Award, 1979

*Friends of the Pleistocene*  
 Co-Leader, South-Central Cell, SW Oklahoma, 1987  
 Co-Organizer, South-Central Cell, Central Texas, 1989  
 Co-organizer and co-leader, South-Central Cell, El Paso-Fort Hancock-Sierra Blanca area, Rio Grande Valley, Texas, 1994

*Geological Society of America*  
 Founding member of the Archaeological Geology Division  
 Archaeological Geology Division, abstract reviewer, ann. mtgs., 1982, 1988  
 Quaternary Geology and Geomorphology Division, abst. reviewer, ann. mtg., 1984  
 Session Chairman, Quaternary Geology II, ann. mtg., Cincinnati, 1992

*Gordon Research Conferences*  
 Session Chairman, Gordon Research Conference on Aerobiology, 1983  
 Conference Chairman, Gordon Research Conference on Aerobiology, 1987

*International Association for Aerobiology*  
 Secretary-General, 1982-1986  
 Vice President, 1986-1990  
 Council member, 1982-1990  
 Publications Committee, 1986-1990

*International Palynological Conference*  
 Symposium on aerobiology, invited session chairman, 1984  
 1996 International Congress organizing committee, 1992-1996  
 "Palynology of Grasslands," Symposium organizer, 9th Congress, 1996

*International Union of Biological Sciences, Commission on Aerobiology*  
 Secretary, 1982-1986  
 Chairman, 1986-1990

*International Union of Quaternary Research (INQUA)*  
 U.S. National Committee representative for the American Association of Stratigraphic Palynologists, 1989-1994

*Oklahoma Anthropological Society*  
 Cleveland County Chapter, Founding President, 1963-64

*The Society of the Sigma Xi*  
 NTSU Club, Vice President, 1982-85

## **OTHER SERVICE**

### ***Expert witness for the Pueblo of Zuni v. United States***

"Erosion of Zuni Indian Reservation Lands," expert testimony submitted to the United States Claims Court; 54 p. (1985)  
 "Rebuttal Report: Erosion of Zuni Indian Reservation Lands," expert testimony, 47 p. (1988)  
 "Twentieth Century Erosion and Loss of Agricultural Land on the Zuni Indian Reservation," statement relative to S.2203 before The Select Committee on Indian Affairs, United States Senate, 101st Congress, 2nd Session, 5 p. (1990)

### ***Mulshoe National Wildlife Refuge, Bailey Co., Texas***

Untitled statement on geologic and archaeologic resources of refuge; used in their management plan, 1982

***Decade of North American Geology*** meeting, Denver, with editors and chapter contributors to GSA volume *Quaternary Nonglacial Geology of the Conterminous United States*, 1985

### ***Texas Parks and Wildlife, Austin, Texas***

a. collaborated on film "The True Heart of Texas" about Enchanted Rock State Park for the Public Television series, Made in Texas; I was interviewed on tape and my students were

- filmed at Enchanted Rock during a field trip, 1986
- b. adviser on murals depicting late Pleistocene and Holocene landscapes of the Llano Estacado, for new state park and interpretive center at Lubbock Lake Paleoindian Site, 1989-1990

***Chaco Culture National Historical Park, US National Park Service***

- a. invited to give talk on "Geology of Chaco Canyon" to public and to seasonal rangers
- b. member of committee on soil science research at Chaco Canyon

**DEPARTMENTAL AND UNIVERSITY SERVICE**

***Department of Geography, University of Texas at Austin (1985 - 2002)***

Adviser, Earth Science undergraduate track, 1985-1991

Undergraduate Adviser, 1992-1994

Graduate Adviser, 1994-1996

Honors Adviser, 1993-1994

Director, Palynology Laboratory, 1985-2002

Executive Committee, member 1990-1993

Faculty representative, University Library System, 1986-1992

Graduate Admission and Awards Committee, 1986-87, 1992-1993, 1996-2002; Chairman 1994

Supervisor of departmental field equipment, 1985-2002

Adviser, summer orientation for Freshmen

Member of 41 masters and doctoral committees in departments of geography, geology, botany, anthropology

***College of Natural Sciences, University of Texas at Austin***

Steering Committee for the Radiocarbon Laboratory, member, 1995-1998

***North Texas State University (1977 - 1985)***

Vice President, NTSU Sigma Xi Club, 1982-1985

Adviser to undergraduates at NTSU wanting to study geology

Member 8 doctoral committees in biology and earth science education

Member, SEM-TEM Committee, 1983-1984

***Department of Geography, NTSU (1977 - 1985)***

Earth Science Adviser, Plan III undergraduate majors in geography, 1979-1985

Director, Palynology Laboratory, Institute of Applied Sciences, 1977-1985

**SERVICE TO ACADEMIC COMMUNITY**

- Reviewer for promotion and tenure (outside UT System), 8 faculty
- Reviewer of 56 grant proposals for the National Science Foundation
- Reviewer of 6 grant proposals for the National Geographic Society
- Reviewer of book manuscripts for 6 presses
- Reviewer of manuscripts for 22 professional journals

**GRANTS AWARDED**

- 2000-2001 State of New Mexico, Historic Preservation Division, & Bureau of Land Management, Santa Fe, "Geoarchaeological Study of Dune Fields in Southeastern New Mexico," \$20,000.
- 1993-1995 National Science Foundation, Division of Social Sciences, Anthropology Section, "Investigations of Levantine Mousterian Sites, Southern Jordan;" collaborator; \$134,264.
- 1993 Zimmermann Award, College of Liberal Arts, University of Texas at Austin, "Paleoenvironments at Zuni, New Mexico," \$2,500
- 1991-1992 National Geographic Society, "Geoarchaeology at Zuni," \$12,548.

- 1990-1992 Petroleum Research Fund, "Late Quaternary foraminifera and palynomorphs from the northwestern Gulf of Mexico slope: Biofacies and morphometric approaches for increased Neogene paleoenvironmental resolution;" collaborator, \$59,512.
- 1988-1990 National Science Foundation, "Late Quaternary valley fills and paleoenvironments of the southern High Plains;" collaborator; \$175,802.
- 1987-1989 National Geographic Society, "Past Environments at Zuni," \$28,779.
- 1979-1983 National Science Foundation, Geology Program; "Holocene vegetation and climate in the Southern Rocky Mountains of New Mexico," \$55,900
- 1972-1973 National Science Foundation, Doctoral Dissertation Improvement Grant, "Alluvial chronology and palynology of Chaco Canyon National Monument, New Mexico," \$3,000.

### **SMALL GRANTS AWARDED**

- 1997 Texas Parks and Wildlife: "Pollen analysis and AMS-dating of woodrat middens, Hueco Tanks State Park, El Paso County, Texas," \$1,190
- 1997 T & E, Inc., Las Cruces, New Mexico: "Radiocarbon Dating of Potential Lacustrine Sediments from Pleistocene Late Otero: Implications for Conservation of the White Sands Pup Fish," \$590 (S.A. Hall and J. Pittenger, New Mexico Game & Fish Dept.)
- 1997 The Nature Conservancy of Texas: "Paleoecology of the Diamond Y Spring Preserve," \$1000 (C.A. Hoyt and S.A. Hall)
- 1990 Archaeological Research, Inc. (ARI, a nonprofit organization), "Chronology of Zuni Mound," \$190.
- 1986-99 University of Texas at Austin, 8 small grants, total \$3,594
- 1977-85 University of North Texas (formerly NTSU), 9 faculty research grants, total \$28,239
- 1982 National Research Council, U.S. National Committee for the International Union for Quaternary Research; travel grant to U.S.S.R., \$700.
- 1973 Geological Society of America, "Alluvial stratigraphy and palynology of Chaco Canyon National Monument, New Mexico," \$400
- 1972 University of Michigan, Horace H. Rackham Graduate Student Research Fund; "Alluvial stratigraphy and palynology of Chaco Canyon National Monument, New Mexico," \$400.
- 1972 University of Michigan, Museum of Zoology, NSF Systematic and Evolutionary Biology grant; "Alluvial chronology and palynology of Chaco Canyon National Monument, New Mexico," \$475

### **COURSES TAUGHT**

#### **University of Texas at Austin (1985 - 2002)**

##### Undergraduate

<i>The Natural Environment</i>	120-300
<i>Environmental Hazards</i>	20-65
<i>Historical Geomorphology</i>	14-29
<i>Biogeography</i>	16-49

##### Graduate

<i>Geomorphology of the Southwest (a field course)</i>	5-15
<i>Historical Geomorphology (Quaternary Landscapes)</i>	10-19
<i>Seminar in Quaternary Studies, Paleoclimatology</i>	8-12
<i>Quaternary Palynology</i>	6-11
<i>Techniques in Pollen Analysis (a laboratory course)</i>	6-8
<i>Field Techniques in Sediments and Soils (a field course)</i>	11

#### **North Texas State University, Denton (1977 - 1985)**

##### Undergraduate

<i>Physical Geology</i>	60-100
-------------------------	--------

<i>Historical Geology</i>	40-60
<i>Environmental Geology</i>	15-20
<i>Geology of Texas</i>	20-30
<i>Geomorphology</i>	30-40
<i>Biogeography</i>	15-20
<i>Physical Geography</i>	60-80

**PUBLICATIONS** (refereed articles; in-house articles and monographs, notes, book reviews, abstracts, obituary)

---

- 1966 *Lingula* in the Wellington Formation (Permian) of Oklahoma: *Oklahoma Geology Notes*, v. 26, no. 10, p. 258-259.
- 1968 A paleosol in central Oklahoma and its archaeological significance: *Bulletin of the Oklahoma Anthropological Society*, v. 16, p. 151-154.
- 1970 Nomenclature of some Pennsylvanian Upper Cherokee (Desmoinesian Series) coals of Iowa: *Proceedings of the Iowa Academy of Science*, v. 76, p. 275-281.
- 1971 A postglacial mollusk and pollen succession associated with *Bison occidentalis* in east-central Iowa: Michigan Acad. Sci., ann. mtg., Kalamazoo, Michigan, *Abstracts with Program*, p. 9.
- 1972 Holocene *Bison occidentalis* from Iowa: *Journal of Mammalogy*, v. 53, p. 604-606.
- 1972 A new Illinoian molluscan faunule from central Kansas: Michigan Acad. Sci., Geology-Mineralogy Section, 76th ann. mtg., East Lansing, *Program with Abstracts*, p. 6.
- 1973 Biostratigraphy of *Bison* in North America: INQUA, IX Congress, Christchurch, New Zealand, *Abstracts*, p. 135.
- 1974 Evidence for changes in Holocene vegetation and climate in the Plains: Amer. Quaternary Assoc. (AMQUA), 3rd bienn. mtg. Madison, Wisc., *Abstracts*, p. 89.
- 1975 Palynologic investigation of Quaternary sediments at Lake Vanda [Antarctica]: *Antarctic Journal of the United States*, v. 10, p. 173-174.
- 1975 Pollen, in: Eshelman, R.E., Geology and Paleontology of the Early Pleistocene (late Blancan) White Rock fauna from north-central Kansas: *Claude W. Hibbard Memorial Volume 4, Papers in Paleontol.* No. 13, Museum of Paleontology, Univ. Michigan, p. 114.
- 1975 Pollen analysis of alluvium and southwestern paleoecology: Quaternary Non-Marine Paleoecology Conference, Waterloo, Ontario, Canada, *Program and Abstracts*, p. 12.
- 1975 Palynology of Dry Valley cores [Antarctica]: *Dry Valley Drilling Project (DVDP) Bulletin*, no. 6, p. 8.
- 1977 Cretaceous and Tertiary dinoflagellates from Seymour Island, Antarctica: *Nature*, v. 267, p. 239-241.
- 1977 Late Quaternary sedimentation and paleoecologic history of Chaco Canyon, New Mexico: *Geological Society of America Bulletin*, v. 88, p. 1593-1618.

- 1977 Geology and palynology of archaeological sites and associated sediments, p. 13-41, *in* Henry, D.O., *The Prehistory of the Little Caney River, 1976 Field Season: Contributions in Archaeology No. 1*, Laboratory of Archaeology, University of Tulsa, 141 p.
- 1977 Holocene geology and paleoenvironmental history of the Hominy Creek Valley, p. 12-42, *in* Henry, D. O., *The Prehistory and Paleoenvironment of Hominy Creek Valley: Contributions in Archaeology No. 2*, Laboratory of Archaeology, University of Tulsa, 206 p.
- 1977 Geological and paleoenvironmental studies, p. 11-31, *in* Henry, D. O., *The Prehistory of Birch Creek Valley: Contributions in Archaeology No. 3*, Laboratory of Archaeology, University of Tulsa, 134 p.
- 1977 Geomorphology of archaeological sites in the Waurika Reservoir, Oklahoma, p. 325-341, *in* Stevens, D. E., and Hays, T. R., *Archaeological Mitigation at the Waurika Lake Reservoir, Southwestern Oklahoma: Archaeology Program*, Institute of Applied Sciences, North Texas State University, Denton, 388 p.
- 1977 Corroded pollen and the interpretation of Quaternary pollen diagrams: Amer. Assoc. Stratigraphic Palynologists, 10th anniversary ann. mtg., Tulsa, *Abstracts*, p. 13; reprinted in *Palynology*, v. 3, p. 285 (1979).
- 1978 Geology of archaeologic sites at Fort Sill, Oklahoma, p. 57-70, *in* Ferring, C. R., *An Archaeological Reconnaissance of Fort Sill, Oklahoma*: Lawton, Oklahoma, Contributions of the Museum of the Great Plains, no. 6, 417 p.
- 1978 Snails from archaeological sites in Hominy Creek Valley, p. 79-85, *in* Henry, D. O., *The Prehistory and Paleoenvironment of Hominy Creek Valley: 1977 Field Season: Contributions in Archaeology No. 4*, Laboratory of Archaeology, University of Tulsa, 102 p.
- 1978 Late Holocene alluvial chronology from northeastern Oklahoma: American Quaternary Association (AMQUA), 5th bienn. mtg. Edmonton, Alberta, Canada, *Abstracts*, p. 207; reprinted in *Oklahoma Geology Notes*, v. 38, p. 245 (1978).
- 1979 The late prehistoric human ecology of Birch Creek Valley, northeastern Oklahoma: *Plains Anthropologist*, v. 24, p. 207-238. (D.O. Henry, B.H. Butler, S.A. Hall)
- 1979 1000 years of paleoclimatic history from northeastern Oklahoma: Geological Society of America, South-Central Section, 13th ann. mtg., Mountain View, Arkansas, *Abstracts with Programs*, v. 11, no. 2, p. 148; reprinted in *Oklahoma Geology Notes*, v. 39, p. 73 (1979).
- 1979 Pollen evidence for late Holocene environments in the Southern Plains: Society for American Archaeology, 44th ann. mtg., Vancouver, British Columbia, Canada, *Program and Abstracts*, p. 45; reprinted in *Oklahoma Geology Notes*, v. 40, p. 213-214 (1980).
- 1980 Snails from Quaternary valley fill at Chaco Canyon, New Mexico: *The Nautilus*, v. 94, p. 60-63.
- 1980 Paleoenvironmental synthesis of Hominy Creek Valley: Pollen and land snail evidence, p. 44-55, *in* Henry, D. O., *The Prehistory and Paleoenvironment of Hominy Creek Valley, 1978 Field Season: Contributions in Archaeology No. 6*, Laboratory of Archaeology, University of Tulsa, 69 p.; Appendix I, Sediment descriptions from Site 34OS160, p. 65.
- 1980 Pollen studies of the archaeological sites, p. 126-130, *in* Henry, D., F. Kirby, A. Justen,

- and T. Hays (eds.), *The Prehistory of Hog Creek: An Archaeological Investigation of Bosque and Coryell Counties, Texas*: Lab. of Archaeology, Univ. of Tulsa, 544 p.
- 1980 [review of] Volcanic Activity and Human Ecology: *American Association of Stratigraphic Palynologists Newsletter*, v. 13, no. 3, p. 8-9.
- 1980 North Texas State University: *Amer. Assoc. of Stratigraphic Palynologists Newsletter*, v.13, no. 4, p. 5.
- 1980 Corresponding geomorphic, archeologic, and climatic change in the Southern Plains: new evidence from Oklahoma: Amer. Quaternary Assoc. (AMQUA), 6th bienn. mtg., Orono, Maine, *Abstracts and Program*, p. 89.
- 1981 Deteriorated pollen grains and the interpretation of Quaternary pollen diagrams: *Review of Palaeobotany and Palynology*, v. 32, p. 193-206.
- 1981 Holocene vegetation at Chaco Canyon: Pollen evidence from alluvium and packrat middens: Soc. for Amer. Archaeology, 46th ann mtg., San Diego, Calif., *Program and Abstracts*, p. 61.
- 1982 Late Holocene paleoecology of the Southern Plains: *Quaternary Research*, v. 17, p. 391-407.
- 1982 Geology of Delaware Canyon, p. 47-63, in Ferring, C. R., (ed.), *The Late Holocene Prehistory of Delaware Canyon, Oklahoma*: Contributions in Archaeology No. 1, Institute of Applied Sciences, North Texas State University, Denton, 331 p.
- 1982 Additional pollen studies from Hominy Creek, Osage County, Oklahoma, in Henry, D. O. (ed.), *The Prehistory and Paleoenvironment of Hominy Creek Valley, 1979 Field Season*: Contributions in Archaeology, Laboratory of Archaeology, Univ. of Tulsa, p. 107-113.
- 1982 Pollen studies at Granger Reservoir, p. 5-18, in Hays, T. R. (ed.), *Archaeological Investigations at the San Gabriel Reservoir District, Central Texas*: Institute of Applied Sciences, North Texas State University, Denton, 3 Volumes.
- 1982 Report on INQUA: *Amer. Assoc. of Stratigraphic Palynologists Newsletter*, v. 15, no. 4, p. 7-8.
- 1982 Buried trees, water table fluctuations, and past climates in western Oklahoma: Geological Society of America, South-Central Section, 16th ann. mtg., Norman, Oklahoma, *Abstracts with Programs, 1982*, v. 14, no. 3, p. 113.
- 1982 Reconstruction of local and regional Holocene vegetation in the arid Southwestern United States based on combined pollen analytical results from *Neotoma* middens and alluvium: International Union for Quaternary Research (INQUA), XI Congress, Moscow, U.S.S.R., *Abstracts*, v. 1, p. 130.
- 1983 Holocene stratigraphy and paleoecology of Chaco Canyon, p. 219-226, in S. G. Wells, D. W. Love, and T. W. Gardner (eds.), *Chaco Canyon Country, A Field Guide to the Geomorphology, Quaternary Geology, Paleoeecology, and Environmental Geology of Northwestern New Mexico*: 1983 Field Trip Guidebook, American Geomorphological Field Group, 253 p.



- 1983 Geology of Holocene sediments and buried trees of Carnegie Canyon, p. 15-46, in Lintz, C., and Hall, S. A., *The Geomorphology and Archaeology of Carnegie Canyon, Fort Cobb Laterals Watershed, Caddo County, Oklahoma*: Oklahoma Conservation Commission, Oklahoma City, Archaeological Research Report, No. 10, 221 p.
- 1983 *The Geomorphology and Archaeology of Carnegie Canyon, Fort Cobb Laterals Watershed, Caddo County, Oklahoma*: Oklahoma Conservation Commission, Oklahoma City, Archaeological Research Report, No. 10, 221 p. (C. Lintz and S. A. Hall)
- 1983 Geology of archaeological sites and associated sand dunes on Block III of the NIIP, in Vogler, L. E. (ed.), *Human Adaptation and Cultural Change: The Archaeology of Block III, N.I.I.P.*: Navajo Nation Cultural Resource Management Program, Navajo Nation Papers in Anthropology, no. 15, p. 1591-1614; Appendix II, Sediment Sample Descriptions, p. 1927-1932.
- 1983 Road log from Visitor Center at Chaco Culture National Historical Park to Shabikeshchee turnaround, Gallo Wash near Una Vida, Pueblo del Arroyo and picnic area near major ruins, in S. G. Wells, D. W. Love, and T. W. Gardner (eds.), *Chaco Canyon Country, A Field Guide to the Geomorphology, Quaternary Geology, Paleontology, and Environmental Geology of Northwestern New Mexico*: 1983 Field Trip Guidebook, American Geomorphological Field Group, p.19-22. (multiple-authored)
- 1983 [review of] Ferndale Bog and Natural Lake: Five Thousand Years of Environmental Change in Southeastern Oklahoma: *Plains Anthropologist*, v. 28, p. 150-151.
- 1983 Report on INQUA: *American Quaternary Association (AMQUA) Newsletter*, v. 13, no. 1, p. 4-5. (abstracted from *AASP Newsletter*)
- 1983 International Association for Aerobiology (IAA): *American Quaternary Association (AMQUA) Newsletter*, v. 13, no. 1, p. 8.
- 1983 From IAA: *IPC (International Commission for Palynology) Newsletter*, v. 6, no. 1, p. 11.
- 1984 Buried trees, water table fluctuations, and 3000 years of changing climate in west-central Oklahoma: *Quaternary Research*, v. 22, p. 129-133. (S.A. Hall and C. Lintz)
- 1984 Pollen analysis of the Garnsey Bison Kill Site, southeastern New Mexico, in Parry, W. J., and Speth, J. D., *The Garnsey Spring Campsite: Late Prehistoric Occupation in Southeastern New Mexico*: Univ. Michigan Museum of Anthropology Technical Reports 15, p. 85-108.
- 1984 A major drought in the southwest Plains during the 15th century A.D.: evidence from pollen analysis: Amer. Quaternary Assoc. (AMQUA), 8th bienn. mtg., Boulder, Colo., *Abstracts*, p. 55.
- 1984 A late Holocene record of short-term vegetation change in the semiarid grassland of SE New Mexico (U.S.A.): Sixth International Palynological Conference (IPC), Calgary, Alberta, Canada, *Abstracts*, p. 59.
- 1984 Southern Plains paleoenvironments--the last 2000 years: *New Mexico Jour. Sci.*, v. 24, p. 74.

- 1985 Middle Pleistocene (Late Irvingtonian: Nebraskan) climatic changes in south-central Colorado: *National Geographic Research*, v. 1, p. 535-563. (K. L. Rogers, C. A. Repenning, R. M. Forester, E. E. Larson, S.A. Hall, G. R. Smith, E. Anderson, and T. J. Brown)
- 1985 Quaternary pollen analysis and vegetational history of the Southwest, in: V. M. Bryant, Jr., and R. G. Holloway, eds., *Pollen Records of Late-Quaternary North American Sediments*: Amer. Assoc. Stratigraphic Palynologists Foundation, Dallas, p. 95-123.
- 1985 A bibliography of Quaternary palynology in Arizona, Colorado, New Mexico, and Utah, in: V. M. Bryant, Jr., and R. G. Holloway, eds., *Pollen Records of Late-Quaternary North American Sediments*: Amer. Assoc. Stratigraphic Palynologists Foundation, Dallas, p. 405-423.
- 1985 "Erosion of Zuni Indian Reservation Lands," expert testimony submitted to the United States Claims Court as evidence in the case Zuni Indian Tribe v. United States; 54 p.
- 1985 Re-evaluation of the Lubbock Subpluvial: *Current Research in the Pleistocene*, v. 2, p. 252-254. (V. T. Holliday, E. Johnson, S. A. Hall, and V. M. Bryant, Jr.)
- 1985 [review of] Atlas of Mapped Distributions of Dominance and Modern Pollen Percentages for Important Tree Taxa of Eastern North America: *Castanea*, v. 50, p. 264.
- 1986 Prehistoric channel trenching and climatic change: the hard evidence: Rocky Mountain Section, Geol. Soc. Amer., Flagstaff, Ariz., *Abstracts with Programs 1986*, v. 18, no. 5, p. 359.
- 1986 Plant macrofossils from wood rat middens: vegetation or flora?: Amer. Quaternary Assoc. (AMQUA), 9th bienn. mtg., Champaign-Urbana, Ill., *Program and Abstracts*, p. 136.
- 1986 Prehistoric channel cutting and climate change: Assoc. Amer. Geographers, ann. mtg., Minneapolis, *Abstracts*, #213b.
- 1986 Pollen deposition in the Southwestern United States: 3rd International Conference on Aerobiology, Basel, Switzerland, *Abstracts*, p. 71.
- 1986 Late Quaternary alluvial chronology of the Southern Plains: Geol. Soc. Amer., ann. mtg., *Abstracts with Programs 1986*, v. 18, no. 6, p. 625.
- 1986 Texas palynology complex: *American Association of Stratigraphic Palynologists (AASP) Newsletter*, v. 19, no. 4, p. 6.
- 1986 [review of] Quaternary Paleoclimatology, Methods of Paleoclimatic Reconstruction: *Geoarchaeology*, v. 1, p. 213.
- 1987 *Late Quaternary Stratigraphy, Neotectonics, and Geoarchaeology of Southwestern Oklahoma*: Friends of the Pleistocene, South-Central Cell, Fifth Ann. Field Trip, Guidebook, 90 p. (multiple-authored)
- 1987 Quaternary pollen analysis program, University of Texas, Austin: *The Biogeographer*, Newsletter of the Biogeography Specialty Group, AAG, no. 19, p. 4.

- 1987 Quaternary palynology program at Texas: *International Aerobiology Newsletter*, no. 25, p. 17-18.
- 1987 Gordon Research Conference on Aerobiology 1987: *International Aerobiology Newsletter*, no. 26, p. 8-9.
- 1987 Middle Pleistocene palynology and climate of the northern Rio Grande Rift Valley: *Geol. Soc. Amer.*, ann. mtg., Phoenix, Ariz., *Abstracts with Programs*, v. 19, no. 7, p. 690.
- 1988 Environment and archaeology of the Central Osage Plains: *Plains Anthropologist*, v. 33, p. 203-218.
- 1988 Prehistoric vegetation and environment at Chaco Canyon: *American Antiquity*, v. 53, p. 582-592.
- 1988 Holocene landscapes of the San Juan Basin: *Geol. Soc. Amer.*, 1988 ann. mtg., Denver, Colo., *Abstracts with Programs*, v. 20, no. 7, p. A135.
- 1988 "Rebuttal Report: Erosion of Zuni Indian Reservation Lands," expert testimony submitted to the United States Claims Court in the case Zuni Indian Tribe v. United States; 47 p.
- 1989 Pollen analysis and paleoecology of alluvium: *Quaternary Research*, v. 31, p. 435-438.
- 1989 *Geomorphology, Quaternary Stratigraphy, and Paleoecology of Central Texas*: Friends of the Pleistocene, South-Central Cell, Seventh Ann. Field Trip, Guidebook, 48 p. (compiler, with T. C. Gustavson)
- 1989 *Excavations at 41BP19; The Kennedy Bluffs site, Bastrop County, Texas*: Texas State Department of Highways and Public Transportation, Contract Reports in Archaeology, Report No. 5, 180 p. (L. C. Bement, W. Bartholomew, G. T. Goode, S. A. Hall, and D. G. Robinson)
- 1989 [review of] Handbook of Holocene Palaeoecology and Palaeohydrology: *Geoarchaeology*, v. 4, p.
- 1989 [review of] Palaeopalynology: *International Aerobiology Newsletter*, no. 29, p. 16-17.
- 1990 Channel trenching and climatic change in the southern U. S. Great Plains: *Geology*, v. 18, p. 342-345.
- 1990 Pollen deposition and vegetation in the southern Rocky Mountains and southwest Plains, USA: *Grana*, v. 29, p. 47-61.
- 1990 Holocene landscapes of the San Juan Basin, New Mexico; geomorphic, climatic, and cultural dynamics, in Lasca, N.P., and Donahue, J., eds., *Archaeological Geology of North America*: *Geol. Soc. Amer.*, Centennial Special Volume 4, p. 323-334.
- 1990 Pollen evidence for historic vegetational change, Hueco Bolson, Texas: *Texas Journal of Science*, v. 42, p. 399-403.
- 1990 *Twentieth Century Erosion and Loss of Agricultural Land on the Zuni Indian Reservation*, statement relative to S.2203 before The Select Committee on Indian Affairs, United States Senate, 101st Congress, 2nd Session, 5 p.

- 1990 Rapid change in late Holocene and modern fluvial systems, American Southwest: Amer. Quaternary Assoc. (AMQUA), 11th biennial mtg., Waterloo, Ontario, *Abstracts*, p. 19.
- 1990 Holocene fluvial environments at Zuni, New Mexico: Geol. Soc. Amer., 1990 ann. mtg., Dallas, Texas, *Abstracts with Programs, 1990*, p. A310-A311.
- 1991 Progressive deterioration of pollen grains in south-central U.S. rockshelters: *Journal of Palynology*, v. 25, p. 159-169. (invited paper commemorating the 25<sup>th</sup> anniversary of Palynological Society of India)
- 1991 Quaternary geology of the Osage Plains and Interior Highlands, in Morrison, R. B., ed., *Quaternary Nonglacial Geology, Conterminous U.S.*: Boulder, Colorado, Geological Society of America, The Geology of North America, v. K-2, p. 503-546. (R. F. Madole, C. R. Ferring, M. J. Guccione, S. A. Hall, W. C. Johnson, and C. J. Sorenson)
- 1991 Late glacial grassland at the Aubrey Clovis site, North Texas: Pollen evidence: Geol. Soc. Amer., 1991 South-Central/Rocky Mtn. sections joint meeting, Albuquerque, New Mexico, *Abstracts with Programs 1991*, v. 23, no. 4, p. 29.
- 1991 Anasazi deforestation revisited: Culture and Environment: A Fragile Coexistence, Chacmool Conference, Univ. Calgary, *Program and Abstracts*, p. 28.
- 1992 Comparative pollen influx at a nine-trap array in the Grand Prairie of northern Texas: *Texas Journal of Science*, v. 44, p. 469-474.
- 1992 Surficial geology of the Lower Valley, in Peterson, J. A., and Brown, D. O., eds., *El Valle Bajo: The Culture History of the Lower Rio Grande Valley of El Paso*, Vol. 1, The Prehistory of the Lower Valley of El Paso: Archaeological Research Inc., El Paso, and Hicks & Co., Austin, p. 10-32.
- 1992 Late Quaternary paleoenvironments of the northern Chihuahuan Desert: A critique, in Peterson, J. A., and Brown, D. O., eds., *El Valle Bajo: The Culture History of the Lower Rio Grande Valley of El Paso*, Vol. 1, The Prehistory of the Lower Valley of El Paso: Archaeological Research Inc., El Paso, and Hicks & Co., Austin, p. 33-41.
- 1992 [review of] Packrat Middens: *Geoarchaeology*, v. 7, p. 485-488.
- 1992 Late Quaternary vegetation and climate of the northwest Gulf Coastal Plain: 1992 South-Central Sec., Geol. Soc. Amer., *Abstracts with Programs*, v. 24, no. 1, p. 13.
- 1992 Full-glacial grassland in the southern High Plains: "Tahoka Pluvial" reconsidered: 1992 ann. mtg., Geol. Soc. Amer., *Abstracts with Programs*, v. 24, no. 7, p. 179-180.
- 1993 Archaeological palynology in the United States: A critique: *American Antiquity*, v. 58, p. 277-286. (V. M. Bryant, Jr., and S. A. Hall)
- 1993 Geomorphology of the Pajarito Plateau, related to the archaeology of the Bason Land Exchange area, Los Alamos County, New Mexico, in Peterson, J. A., and Nightengale, C. B., eds., *La Cuchilla de Piedra: The Cultural Resources of the Bason Land Exchange*: Archaeological Research Inc., Austin, Tx, p.18- 23.

- 1993 Tahoka Pluvial boreal forest on the Southern Great Plains: A case of differential pollen preservation: 26th ann. mtg., Amer. Assoc. Stratigraphic Palynologists, *Program and Abstracts*, p. 34.
- 1994 Modern pollen influx in tallgrass and shortgrass prairies, southern Great Plains, USA: *Grana*, v. 33, p. 321-326.
- 1994 Report of the Excavations of the Sites of Tor Faraj and Wadi Aghar: University of Tulsa South Jordan Project, 1993 Season: *Annual, Department of Antiquities of Jordan, 1994*, 16 p. (D. O. Henry, Yuri Demidenko, Vitaly Usik, H. Hietala, S. A. Hall, G. Walwer)
- 1994 Geomorphology of the County Jail Project, in Graves, T. B., and Peterson, J. A., *The El Paso County Jail Project, Survey and Testing Results: Archaeological Research, Inc.*, El Paso, Texas, p. 135-145.
- 1994 William S. Benninghoff, 1918-1993: *International Aerobiology Newsletter*, no. 38, p. 3. [anonymous]
- 1994 Floodplain construction of the Rio Grande, Lower El Paso Valley, Texas: Paleoclimate connections: 90th ann. mtg., Assoc. Amer. Geographers, *Abstracts*, p. 137-138.
- 1994 Prehistoric ceramics and the alluvial chronology in the American Southwest: Geol. Soc. America, ann. mtg., *Abstracts with Programs*, vol. 26, no. 7. (S. A. Hall and T. J. Ferguson)
- 1995 Pollen analysis of woodrat middens: reevaluation of Quaternary vegetational history: SW Assoc. Amer. Geographers, Las Cruces, *Program and Abstracts*.
- 1995 Late Cenozoic palynology in the south-central United States: Cases of post-depositional pollen destruction. *Palynology*, v. 19, 85-93.
- 1995 Grassland vegetation in the Southern Great Plains during the last glacial maximum. *Quaternary Research*, v. 44, 237-245. (S. A. Hall and S. Valastro, Jr.)
- 1995 Pollen, in Holliday, V. T., ed., Stratigraphy and paleoenvironments of Late Quaternary valley fills on the Southern High Plains: Boulder, Colo., *Geological Society of America Memoir 186*, p. 53-55.
- 1996 Pollen, stratigraphy, and chronology of the north edge of Zuni Pueblo. *The Kiva*, v. 61, p. 225-239. (S. A. Hall and T. J. Ferguson)
- 1996 Middle Paleolithic behavioral organization: 1993 excavation of Tor Faraj, southern Jordan: *Journal of Field Archaeology*, v. 23, p. 31-53. (D. O. Henry, S. A. Hall, H. J. Hietala, Y. E. Demidenko, V. I. Usik, A. M. Rosen, and P. A. Thomas)
- 1996 Geoarchaeology of the Lower Rio Grande Valley of El Paso, Texas. Ann. mtg., Soc. American Archaeology, New Orleans, *Abstracts of the 61st Annual Meeting*.
- 1996 Looking for sites in all the wrong places: plow-zone archaeology in the Lower Rio Grande Valley. Ann. mtg., Soc. American Archaeology, New Orleans, *Abstracts of the 61st Annual Meeting*. (J. Leach, S. Hall, R. Harrison, R. Mauldin, J. Peterson)
- 1996 Vegetational history of the southern Great Plains. IX Internatl. Palynological Congress, Houston, *Program and Abstracts*, p. 57-58.

- 1996 Pollen-grain deterioration in the south-central United States: Criteria for evaluation of pollen spectra. IX Internatl. Palynological Congress, Houston, *Program and Abstracts*, p. 58. (S.A. Hall and V.M. Bryant, Jr.)
- 1997 Pollen analysis and woodrat middens: Re-evaluation of Quaternary vegetational history in the American Southwest. *Southwestern Geographer*, v. 1, p. 25-43.
- 1998 Atmospheric transport of freshwater algae *Pediastrum* in the American Southwest. Biogeographic implications. *Grana*, v. 37, p. 374-375.
- 1998 Oak pollen influx in the Sangre de Cristo Range, New Mexico, USA, in N. M. Dutta, S. Gupta-Bhattacharya, S. Mandal, and K. Bhattacharya, eds., *Current Concepts in Pollen-Spore and Biopollution Research (Professor Sunirmal Chanda 60th Birth Anniversary Felicitations Volume)*, Research Periodicals & Book Publishing House, Houston, Texas, p. 99-104.
- 1998 *Texas and New Mexico Landforms; An Introduction to Topographic Maps* (1<sup>st</sup> ed.): Jenn's Copy & Binding, Austin, Texas, 32 p.
- 1999 Pollen influx at the Tallgrass Prairie Preserve, Osage County, Oklahoma. *Texas Journal of Science*, v. 51, p. 317-322.
- 1999 Late Quaternary paleoenvironments at Fort Bliss, in Schroeder, E. A., Seymour, D. J., and Teigrob, R., eds., National Register Evaluations of 78 Prehistoric Archaeological Sites in Maneuver Area 2B, Fort Bliss, Texas. *Historic and Natural Resources Report No. 97-14*, Directorate of Environment, U.S. Army Air Defense Artillery Center, Fort Bliss, Texas, p. 19-26.
- 1999 Geomorphology and geoarchaeology of Maneuver Area 2B, Fort Bliss, Texas, in Schroeder, E. A., Seymour, D. J., and Teigrob, R., eds., National Register Evaluations of 78 Prehistoric Archaeological Sites in Maneuver Area 2B, Fort Bliss, Texas. *Historic and Natural Resources Report No. 97-14*, Directorate of Environment, U.S. Army Air Defense Artillery Center, Fort Bliss, Texas, p. 43-51.
- 1999 Fluvial responses to climate change in the northern Gulf of Mexico during the past 20,000 years: Implications to terrestrial sediment production: ann. mtg., San Antonio, Amer. Assoc. Petroleum Geologists, *Program and Abstracts*.
- 2000 Was the High Plains a pine-spruce forest? *Rangelands*, v. 22, p. 3-5.
- 2000 Comparison of pollen sampling with a Burkard Spore Trap and a Tauber Trap in a warm temperate climate: *Grana*, v. 39, p. 294-302. (E. Levetin, C. A. Rogers, S. A. Hall)
- 2001 Geochronology and paleoenvironments of the glacial-age Tahoka Formation, Texas and New Mexico: *New Mexico Geology*, v. 23, p. 71-77.
- 2001 Archaeological investigations at site LA 48695, in Zuni Cultural Resource Enterprise, *Households and farms in early Zuni prehistory: Settlement, subsistence, and the Archaeology of Y Unit Draw, Archaeological investigations at eighteen sites along New Mexico State Highway 602, Part 1*: Zuni Cultural Resource Enterprise Report No. 593, New Mexico State Highway and Transportation Department, p. 325-375. (J. Damp, S. Hall, J. Waseta, J. Zunie)

- 2001 Pollen analysis of late-glacial pond and spring deposits, Aubrey Clovis site, Denton Co., Texas, in Ferring, C. R., ed., *The Archaeology and Paleoecology of the Aubrey Clovis Site (41DN479), Denton County, Texas*: US Army Corps of Engineers, Fort Worth District, and University of North Texas, Denton, p. 79-88.
- 2002 Early irrigation on the Colorado Plateau near Zuni Pueblo, New Mexico: *American Antiquity*, v. 67, p. 665-676. (J. E. Damp, S. A. Hall, S. J. Smith)
- 2002 *Field Guide to the Geoarchaeology of the Mescalero Sands, southeastern New Mexico*: Bureau of Land Management, Santa Fe, and Historic Preservation Division, Santa Fe, 55 p., 6 pl.
- 2002 *Guidebook, First Geoarchaeology Field Course, Southeastern New Mexico*: Bureau of Land Management, Santa Fe, and Historic Preservation Division, Santa Fe, 23 p.
- 2002 New study of Mescalero Sands and archaeological sites: *New Mexico Preservation*, v. 17, no. 3, p. 2, 5.
- 2003 Mescalero Sands: A late Quaternary sand sheet at the northern edge of the Chihuahuan Desert, SE New Mexico: Chihuahuan Desert Research Institute, Fort Davis, Texas, *The Chihuahuan Desert Discovery*, No. 49(2), p. 16-17.
- 2003 Luminescence and radioisotope chronology of the late Quaternary Mescalero Sands, southeastern New Mexico: New Mexico Geological Society, 2003 ann. spg. mtg., Socorro, *Proceedings Volume*, p. 17. (S. A. Hall, R. J. Goble, H. W. Jeter)
- 2005 Ice Age vegetation and flora of New Mexico, in Lucas, S. G., Morgan, G. S., and Zeigler, K. E., eds., *New Mexico's Ice Ages*: New Mexico Museum of Natural History and Science, Bulletin No. 28, p. 171-183.
- 2005 *Adaptive Management and Planning Models for Cultural Resources in Oil and Gas Fields in New Mexico and Wyoming*: Ingbar, E., and others, Gnomon, Inc., Carson City, Nevada, Dept. of Energy Award Number DE-FC26-02NT15445, Final Technical Report, 538 p. (PUMP III) (E. Ingbar, L. Sebastian, J. Altschul, M. Hopkins, W. Eckerle, P. Robinson, J. Finley, S. A. Hall, W. E. Hayden, C. M. Rohe, T. Seaman, S. Taddie, S. Thompson)
- 2006 Geomorphology, stratigraphy, and luminescence age of the Mescalero Sands, southeastern New Mexico: *New Mexico Geological Society Guidebook, 57<sup>th</sup> Field Conference, Caves and Karst of Southeastern New Mexico*, p. 297-310. (S. A. Hall and R. J. Goble)
- 2007 Unusual Holocene alluvial record from Rio del Oso, Jemez Mountains, New Mexico: Paleoclimatic and archaeological significance: *New Mexico Geological Society Guidebook, 58<sup>th</sup> Field Conference, Geology of the Jemez Mountains Region II*, p. 459-468. (S. A. Hall and R. D. Periman)
- 2007 Stratigraphy and geochronology of the El Arenal Site: Implications to regional archaeological geology and geomorphic history, in Miller, M. R., *Excavations at El Arenal and other Late Archaic and Early Formative period sites in the Hueco Mountain Project area of Fort Bliss, Texas*: Directorate of Environment, Fort Bliss Garrison Command, Historic and Natural Resources Report No. 02-12, p. 9-1 to 9-14.

- 2007 Notes on geomorphology and geoarchaeology on El Segundo Mine, *in* Scheick C. L., and Deyloff, G., eds., *Archaeological and ethnohistorical landscapes of El Segundo Mine: Continued investigations into land patterning, McKinley County, New Mexico; Vol. 1, Archaeology: Southwest Archaeological Consultants, Santa Fe, NM, p. 857-858.*
- 2008 OSL ages of upper Quaternary eolian sand and paleosols, northwest Albuquerque Basin, New Mexico: *New Mexico Geology*, v. 30, no. 2, p. 39-49. (S. A. Hall, R. J. Goble, and G. R. Raymond)
- 2008 Archaeological geology of the Mescalero Sands, southeastern New Mexico: *Plains Anthropologist*, v. 53, p. 279-290. (S. A. Hall and R. J. Goble)
- 2008 Archaeological Testing at 41TR170, Along the Clear Fork of the Trinity River, Tarrant County, Texas: *Miscellaneous Reports of Investigations no 348, Geo-Marine, Inc., Plano, Texas, 155 pp + 93 pp appendices (248 pp. total).* (Christopher Lintz, Stephen A. Hall, Timothy G. Baugh, and Tiffany Osburn)
- 2009 Archaeological geology, *in* Murrell, J. B., *Archaeological Investigations at Nine Mile Hill Site, City of Albuquerque, New Mexico: Parametrix, Albuquerque, NM, p. 133-143.*
- 2009 Archaeological geology, *in* Murrell, J. B., *Archaeological investigations at the Cerro de Los Lunas Site, Valencia County, New Mexico: Parametric, Albuquerque, NM, p. 203-209.*

\*\*\*\*\*