

## ALISON SPENCE BROOKS

Department of Anthropology  
The George Washington University  
Washington, DC 20052

**Degrees:** B.A. magna cum laude in Anthropology, Radcliffe College, Harvard University, June, 1965  
M.A. in Anthropology, Harvard University, 1967  
Ph.D. in Anthropology, Harvard University, 1979  
Doctor of Letters *honoris causae*, Russian Academy of Sciences, 1999  
Fellow, American Academy of Arts and Sciences, since 1996

### **Present Status:**

Professor of Anthropology, The George Washington University (1972 - ) (Assistant Professor 1972-79. Associate Professor 1979-1989, Professor 1988-present)  
Chair, Department of Anthropology 1992-1996, 2001-2007)  
Research Associate in Anthropology, Smithsonian Institution (1977-present)

### **Fellowships, Scholarships, Direct Grants and Honors:**

NSF-USE grant for summer field study in the Middle East, 1964.  
American Scandinavian Foundation Fellowship for summer field study in Sweden, 1965.  
Graduate School of Arts and Sciences Scholarship, 1965-66 and 1967-68.  
Staff Tuition Scholarship, 1966-67 and 1967-68.  
National Science Foundation Graduate Fellow: Intermediate level, 1968-70, terminal level, 1970-71.  
Ford Foundation Grantee for Travel in connection with research for doctoral dissertation, 1968.  
Milton Fund, Harvard University Grantee for equipment in connection with research for doctoral dissertation, 1968-70.  
Faculty Research Grant, The George Washington University, July 1973-Sept. 1975.  
National Science Foundation Grant #SOC 75-14227, 1975-76, \$58,000  
National Science Foundation Grant #BNS 76-19633, 1976-79, \$47,000  
National Science Foundation Grant #SPI 78-04713, 1978-79, \$31,525  
National Science Foundation Grant #SPI 79-01555, 1979-80, \$43,147  
National Science Foundation Grant #SPI 80-00390, 1980-81, \$45,023  
National Science Foundation Grant #SPI 81-01343, 1981-82, \$44,623  
(These four grants are from the Division of Scientific Personnel Improvement for teacher development in anthropology at the secondary school level).  
American Anthropological Association grant for travel to India to attend Congress of Anthropological and Ethnographic Sciences.  
Guest of the Federal Republic of Germany, official exchange group of six American archeologists, November, 1979.  
Harvey Lectureship, University of New Mexico Department of Anthropology, April, 1980.  
Faculty Research Grant, The Graduate School of Arts and Sciences, The George Washington University, summer 1980 (for three months' summer field work in the Kalahari), \$1950.  
The National Geographic Society, Committee on Research and Exploration grant to support exploration of potential early man site in central Botswana, summer 1980, \$8200.  
Fulbright Research Award, Africa Research Program, 1982-83, for research on settlement patterns (historic and prehistoric) in Botswana and Zimbabwe.  
Faculty Research Grant, The George Washington University, for archaeological survey in northeast Namibia, 1984, \$6787.88.

- National Museums Act Grant to Support International Symposium on Archaeometry, May, 1984, \$15,000.
- Faculty Research Grant, The George Washington University, for paleoanthropological research in the Semliki Valley, Zaire, 1985-86, \$6480.
- "The Origins of Humanness: A Symposium", D.C., Community Humanities Council, grant no. 85-3-10, 1985-86 (through the Anthropological Society of Washington), \$2980.
- Collaborator on National Science Foundation Award to Virginia Museum of Natural History BNS-85-07891, "Palaeoanthropological investigation of the Semliki Valley, Zaire", 1985-86, \$90,000.
- National Science Foundation Grant #BNS86-08269, "Palaeoanthropological investigation of the Semliki Valley, Zaire", (with N.T. Boaz and J.W.K. Harris), 1986-1988, \$272,160.
- Research Experiences for Undergraduates, supplement to above grant, National Science Foundation, May, 1987, \$4200.
- University Committee on Research, The George Washington University, Graduate School of Arts and Sciences, "Paleoanthropological investigation of the Semliki Valley, Zaire," 1986-87, \$6137.50.
- University Committee on Research, The George Washington University, Graduate School of Arts and Sciences, "Chronometric dating of Pleistocene sites by amino acid racemization of eggshell", 1987-88, \$3608.
- NSF -- Research Experiences for Undergraduates, supplement to BNS 86-08269, 1987-88, \$4015.
- Smithsonian Institution -- Research Opportunities Fund, Smithsonian Institution, Travel to Zaire, May, 1988, \$3000.
- University Committee on Research, The George Washington University, Graduate School of Arts and Sciences, 1988-89, "Excavation of Katanda 2: An early man site in Central Africa," \$8224.
- Travel Award to participate in British Council Study Tour of Archaeology in Northern Ireland, summer 1989, \$400.
- University Committee on Research, The George Washington University, Graduate School of Arts and Sciences, "Analysis of Katanda 9: A Central African site with early evidence for Homo sapiens sapiens", 1989-90, \$6344.
- Travel Award from Carnegie Institution of Washington Geophysical Laboratory to attend 60th Anniversary Conference on the Discovery of Peking Man, Beijing, China, fall 1989, \$2500.
- NSF -- "Collaborative research: dating of hominid sites by the racemization and accelerator mass spectrometry of protein amino acids in ostrich eggshells". Archeometry Program. 1990-92, \$67,776.
- NSF -- "Excavation of Middle Stone Age horizons at the Katanda sites, Semliki Valley, Zaire" Archaeology Program, BNS90-14092. 1990-91, \$74,131.
- University Committee on Research, The George Washington University, 1990-91, "Analysis and preliminary publication of the Katanda sites, Kivu Province, Zaire," \$6476.
- Holt Family Foundation, paleoanthropological research in Zaire, summer 1990, \$2365.
- NSF -- Research Opportunities for Undergraduates, supplement to BNS90-14092, for "Aminostratigraphy of Middle and Later Pleistocene horizons in the Semliki Valley," (J. Cramer) summer 1991, \$4000.
- NSF -- Research Opportunities for Undergraduates, supplement to BNS90-11657, for "Laboratory simulation of the effects of human campfires on ostrich eggshell proteins" (K. Durana) summer 1991, \$4000.
- Travel Award to attend XII International Congress of Pre- and Protohistoric Sciences, Bratislava, Czechoslovakia, American Anthropological Association, September, 1991, \$750.
- National Center for Science Education, Inc., grant to expand the teaching of human evolution at the pre-college level, set of materials from the Los Angeles County Unified School District (Stones

and Bones).

University Committee on Research, The George Washington University, 1992-93, "Analysis and final publication of the Katanda Sites, Kivu Province, (Zaire), \$5863.

NSF -- Doctoral dissertation award (for N. Todd): "Elephants in East African sites: a comparative study of evolutionary patterns, biostratigraphy, and biogeography," \$12,000.

L.S.B. Leakey Foundation, "A new analysis of variation in the African *Elephas* lineage: implications for the biostratigraphical framework of hominid sites." (Dissertation award for N. Todd), \$3500.

NSF collaborative research -- "Dating human evolution, human migration and megafauna extinctions by amino acid diagenesis in carbonate fossils." SBE93-10916. July 1, 1993 -Nov. 30, 1995, \$75,000.

NSF -- "Instrumentation for data and stratigraphic assessment of archaeological sites using amino acid diagenesis in carbonate fossils." Sept. 1, 1994-Aug. 31, 1999, \$88,659.

Elected Fellow, American Academy of Arts and Sciences, History and Archaeology Division, 1993.

Received Oscar and Shoshana Trachtenberg Award for Scholarship, The George Washington University, 1994.

American Council of Learned Societies Fellowship for 1996.

Bunting Institute Fellow (Associate) for 1995-96.

NSF-"Palaeoanthropological investigation of the Middle Stone Age in the Middle Awash Valley of Ethiopia" Aug. 1, 1995-March 1, 2002 (Co-PI: J.D. Clark). Proposal to the National Science Foundation Archeology Program. \$227,227.

NSF-"Replacement, consolidation and upgrade of existing anthropology laboratory space" (PI Joel Kuipers) Proposal to the National Science Foundation Academic Research Infrastructure-Facilities Program. \$180,000. Oct. 15, 1996-Oct. 15, 1997.

Distinguished lecturer in African Archaeology and Palaeoanthropology, University of Florida, 1998.

NSF- "IGERT: Integrative Human Evolutionary Biology" (PI: B. A. Wood, Co-PI's: D. Lieberman, A.S. Brooks, S. Tishkoff) \$2,632,062. April 1, 2000-Sept. 1, 2005.

NSF DUE-CCLI "Human evolution: building an image data base and associated material for instructional use" (PI: B.A. Wood, Co-PI's: R. Chapman, A.S. Brooks) \$74,995.

NSF-archeometry "Amino Acid racemization dating of the Middle Stone Age of Africa" (PI: G.W. Goodfriend, Co-PI: A.S. Brooks. \$221,895. Aug. 1, 2000-May 31, 2005 NSF -0002224.

George Washington University Facilitating Fund "Amino acid racemization dating of early modern human sites in Africa" \$5000. (2000-2003).

University of Toronto, Lecturer; November 4, 2000.

Japan Foundation Fellowship, 2000-2001.

Society for American Archaeology Award for Excellence in Public Education (for Anthro.Notes), 2002.

Hallam L. Movius Memorial Lecturer, Harvard University, March 2004

"The Middle Stone Age of East Africa and Modern Human Origins" Wenner Gren Foundation for Anthropological Research, Conference Program, \$15,000,

NSF-DDIG: "Human Predation Pressure and the late Quaternary Extinctions in the Cape Ecozone, South Africa." (J. Tyler Faith, supervisor Brooks), Period of support: July, 2008 – June, 2009. Amount: \$19,344. awarded

NSF-IGERT: "Dynamics of Behavioral Shifts in Human Evolution: Brains, Bodies and Ecology." (co-PI) Period of support: June 2008-May 2013. Amount: \$3,199,183. Awarded

NSF, Doctoral Dissertation Improvement Grant, Plant Diet and Ecology of Neanderthals and Modern Humans. 4/30/2008-12/31/2009.

Smithsonian Institution Predoctoral Fellowship: "Plant foods in Neanderthal and modern human

dietary ecology." (Amanda Henry, supervisors: A. Brooks, D. Piperno) Amount: \$18,750.  
Awarded

NSF (DDIG) Influences of Material Properties and Biomechanics on Stone Tool Production" (NSF 0905652) PI: Alison S. Brooks, co-PI Erin M. Williams, Doctoral Candidate. 5/1/09-4/30/09 (\$14,984)

Wenner Gren Foundation for Anthropological Research: Erin Marie Williams, Doctoral Candidate (A. Brooks, supervisor) "Influences of Material Properties and Biomechanics on Stone Tool Production" 7/1/2009-7/1-2010. (\$10,500)

NSF, Doctoral Dissertation Improvement: "Nucleotide variation and signatures of natural selection at the human intercellular adhesion molecule-1 (ICAM-1) and CD36 loci." PI: S. Tishkoff co-PI Felicia Gomez (advisor, Brooks) Awarded \$15,000

NSF Doctoral Dissertation Improvement: "Material Symbolism and Ochre Use in Middle Stone Age East-Central Africa" (PI: Alison S. Brooks, Co-PI: Andrew Zipkin) Period of Support: 2012-2014. Awarded: \$25,196.

Wenner Gren Foundation for Anthropological Research: Doctoral Dissertation Award. "Material Symbolism and Ochre Use in Middle Stone Age East-Central Africa Oct. 2012-Sept. 2014

Fulbright Research Fellowship, Aquitaine Region, "Evolution and behavior of Late Pleistocene Central Africans" PACEA, University of Bordeaux I, March-July 2013

Medaille d'Honneur, City of Toulouse France, in conjunction with the 23 Society of Africanist Archaeologists Congress, for "contribution to the advancement of archaeology in Africa". June 27, 2016

### **Teaching Experience:**

Teaching Fellowship in General Education and Anthropology, Harvard University, 1966-68.

Lecturer in Anthropology (occasional) Smithsonian Institution, 1974-75, 1979, 1982, 1984, 1985, 1987.

Assistant Professor of Anthropology, The George Washington University, Sept. 1972-June 1980.

Associate Professor of Anthropology, The George Washington University, Sept. 1980-1988.

Professor of Anthropology, The George Washington University, September 1988 -present.

Chair, Dept. of Anthropology, 1992-96, 2001-2007.

Professor and Faculty Adviser, Geobiology Program, The George Washington University, 1989-2000.

(Other lectures on anthropology to elementary and secondary school groups, teachers and civic organizations, Elderhostel Program).

Helped to develop and serve as graduate advisor for new Ph.D. program in Hominid Paleobiology, in conjunction with Smithsonian Program in Human Origins

Program Committee Africana Studies

Archaeology Major Program Committee

### **Courses Taught:**

#### Introductory level:

Introduction to Archaeology

Introduction to Biological Anthropology

#### Lecture courses: (upper level)

Human Cultural Beginnings

Old World Archaeology: Neolithic and Bronze Age

Hominid Evolution

Primatology

Foundations of Anthropological Theory

Art and Culture

African Roots from *Australopithecus* to Zimbabwe

African Humanities

New class on Evolution of Human Diets

Palaeoanthropology Field Schools: China and East Africa

Proseminars: (graduate level)

Archaeological Method and Theory

Biological Anthropology

Social Anthropology and Archaeology

Seminars:

African Prehistory

Paleoanthropology -- variable topics: the origins of *Homo* and of modern humans, adaptation, species distinctions in *Homo*, evolution of behavior

Genetics and Archaeology of Human Evolution and Migration (with S. Tishkoff)

Biogeography of Deserts

Laboratory Techniques in Archaeology

Hunters and Gatherers of the Past and Present

Ethnoarchaeology

Problem-based learning in Hominid Paleobiology

Ethics and Professional Practice in Hominid Paleobiology

Laboratory Techniques in Paleoanthropology

Paleolithic Archaeology

Lithic Technology

New Seminar on History and Theory in African Archaeology

### **Other Experience in Education:**

Consultant in Anthropology, Educational Development Corporation, November-March 1972, developing units in Exploring Human Nature curriculum.

Consultant in Anthropology to the Smithsonian Institution, National Museum of Natural History, 1973-74, developing, collecting materials and writing script for permanent exhibition on human evolution.

Consultant in Anthropology to the National Geographic Society, on curriculum development, 1974, writing teacher's guide to educational film.

Consultant in Anthropology to Time-Life, Inc. (educational films) 1974-75, writing script for slide-tape.

Consultant to National Geographic Society. Special Publications Branch, book on Mysteries and Marvels of the Ancient World, 1979. Co-author (with J. Lanouette and R. Selig) "Educator's Guide to Odyssey", Public Broadcasting Associates, television series on anthropology and archaeology, 1980.

Consultant to Denver Museum of Natural History, exhibit labels and materials for exhibit on peoples of Botswana, 1979-80.

Director, "Pre-college Teacher Development in Anthropology" Program NSF Grants #SPI78-04713, #SPI79-01555, SPI80-00390, SPI81-01343, 1978-82.

Editor, Anthro.Notes, National Museum of Natural History Newsletter for Teachers, 1983- present.

Special Delegate of American Anthropological Association to National Social Studies Task Force, 1984-86., developing "Scope and Sequence for K through 12"

Helped to organize American Anthropological Association Task Force on the Teaching of

Anthropology, 1988-90.  
 "Dirty Dozen" Exhibits Committee, National Museum of Natural History, 1990-96.  
 Scientific consultant, Exhibits Department, National Museum of Natural History, 1991-present.  
 Consultant to "The Discovery Channel" on "Deserts of the World", 1992.  
 Scientific advisory board, International Institute for Human Evolutionary Research.  
 GW Elderhostel Program, 1991-2000.  
 Consultant to Houghton-Mifflin on 6th Grade History Curriculum.  
 Consultant, "African Voices" permanent exhibit, Smithsonian Institution.  
 Consultant, "Hall 6 renovation", permanent exhibit, Smithsonian Institution.  
 Exhibit development Group: "What Does it Mean to be Human?" (David H. Koch Hall of Human Origins) Smithsonian NMNH.  
 Consultant "The Human Spark" PBS series with Alan Alda. Graham Chedd (director)  
 Co-wrote widely used middle school textbook on world cultures, history, geography ("People. Places and Change", Holt Rinehart and Winston

### **Research and Field Experience:**

Field work and research at several museums and Paleolithic and Neolithic sites in Syria, Jordan, and Lebanon, 1964.  
 Field work at Eketorpsborg, a late Iron Age site in Sweden, 1965.  
 Research Assistant, Abri Pataud, Les Eyzies (Dordogne), 1966 and 1967.  
 Research on Upper Paleolithic materials in museums and laboratories in France, 1968-71.  
 Ethnoarchaeological and archaeological research with !Kung San populations and their predecessors in the Northern Kalahari Desert, Botswana, co-principal investigator with J. Yellen, NSF Grants #SOC 75-14227, 1975-76, and #BNS 76-19633, 1976-79; research continued in 1980, 1982, 1983.  
 Archaeological research on Late Stone Age sites in the Central District, Botswana (George Washington University and National Geographic Society), summer 1980.  
 Research on prehistoric and historic settlement patterns in Southern Africa, 1982-83.  
 Paleoanthropological research in the Semliki Valley, Zaire, 1985-90.  
 Research on amino acid changes in ostrich eggshell proteins, Carnegie Institution of Washington Geophysical Laboratory, 1981-present. (research laboratory moved to GWU in 1998)  
 Analysis of skeletal remains from Ishango, Zaire, Institut Royal des Sciences Naturelles de Belgique, Brussels, 1991-present.  
 Field research on Middle Stone Age sites of the Middle Awash Valley, Ethiopia, 1993-present.  
 Field research on Middle Stone Age sites of the Olorgesailie Basin, Southern Kenya Rift, 2001-present.  
 Field research on the Lower Paleolithic of China, 1996-present.  
 Research on temperature profiles of archaeological sites to improve precision of amino acid racemization dating 2000-present  
 Research on plant foods in Neandertal and early modern human diets (with Amanda Henry and Dolores Piperno) 2007-present  
 Research on the kinematics and resulting tool forms of stone-tool knapping (with Brian Richmond and Erin Marie Williams) 2009 - present  
 Research on ochre and obsidian source characterization and use (with Stanley Ambrose, Andrew Zipkin, John Hanchar, Jeffrey Ferguson) 2011--present  
 Field Survey in SE Tanzania (with F. Masao and Kathryn Ranhorn), summer 2012  
 Excavations in West Turkana, Spring 2013  
 Analysis of human remains and archaeological materials from Ishango, D.R. Congo, Spring 2013

**Professional Service:**

Board of Managers, Anthropological Society of Washington, 1977-78 and 1979-82. Chairperson, publications committee, 1979-81, finance committee, 1981-82.

President, The Anthropological Society of Washington, 1985-86.

Chairperson, Graduate School of Arts and Sciences committee on object conservation and participant, Symposium on Anthropological Conservation, National Institute for the Conservation of Cultural Property. Objective: To develop a national training program in archeological and ethnographic conservation in conjunction with the Smithsonian Institution. 1979-87.

Official representative of the American Anthropological Association to the Social Science Task Force (executive officers and delegates from eight professional societies representing the Social Sciences and History.) Objectives: to improve the quality and extent of social science instruction in elementary and secondary schools. 1983-1985.

Associate Editor, *Journal of Human Evolution*, 1987-90, *American Anthropologist*, 1989-93, *Archaeomaterials*, 1992-94, *Geoarchaeology* 1994-present

Nominations committee, Society for American Archaeology, 1991

National Council, Society of Women Geographers, 1984-87 and 1991–, Chairman, Nominations Committee, 1987.

Research Task Force, National Museum of Natural History, 1987.

Columbian College Dean's Council, The George Washington University, 1985-88, 1997-2000, 2011-2013 (Chair, 1998-99 and 1999-2000). Columbian College Personnel Committee 1990-93, Columbian College Ad-Hoc Task Force on Research 1989-93, Search Committee for the Dean of Arts and Sciences 1991-92, Ad Hoc Committee on American Studies, 1991, Sociology Review Committee, 1991-92.

Panelist, Social Science Research Council, 1988.

Fellowships Review Board, National Museum of Natural History, 1989– .

Committee on Ethics, American Anthropological Association, 1993-96

Treasurer, Palaeoanthropology Society, 1992-present

Elliott School of International Affairs: Promotion and Tenure Committee 2009-2011

Columbian School Dean's Council 2011-2013

University Food Task Force 2010-

**Grants Review:**

Grants Reviewer, National Science Foundation, National Endowment for the Humanities, National Geographic Society, American Association of University Women, LSB Leakey Foundation, Social Sciences Research Council of Canada, European Science Foundation

**BIBLIOGRAPHY****Books:**

2001, 2002, 2003, 2004, 2005. *People, Places and Change*. Holt, Rinehart and Winston 774 p. (with D.M. Helgren and I. Sager).

**Edited Volumes:**

1981 *Anthropological Careers, Perspectives on Research, Employment and Training*, ed., with R. Landman, L. Bennett and P. Chock, Anthropological Society of Washington.

2000 Delson, E., Tattersall, I., Van Couvering, J.A. and A.S. Brooks (eds.). *Encyclopedia of Human Evolution and Prehistory, Second Edition*. New York: Garland Press. 753 pp.

**Refereed Journals and Book Chapters:**

- 1971 "The analysis of certain major classes of Upper Paleolithic tools: Aurignacian scrapers" in *Proceedings of the Prehistoric Society* 37(2): 253-73 (with H.L. Movius, Jr.).
- 1977 "Archeological excavations at ≠Gi, (Western Ngamiland, Botswana): a report on the first two field seasons", *Botswana Notes and Records*, Vol. 9:21-30 (with J. Yellen).
- 1978 "A note on the LSA features at ≠Gi: analogies from historic San hunting practices", *Botswana Notes and Records* 10:1-3.
- 1983 "Geoarchaeology at ≠Gi, a Middle Stone Age and Later Stone Age Site in the northwest Kalahari" in *Journal of Archaeological Science* 10:181-197 (with D. Helgren).
- 1984a "Food production and culture change among the !Kung San: implications for prehistoric research", in J.D. Clark and S. Brandt, eds., *From Hunters to Farmers: The Causes and Consequences of Food Production in Africa*, University of California Press, pp. 289-306 (with J. Yellen and D. Gelburd).
- 1984b "San land use patterns, past and present: implications for southern African Prehistory", in M. Hall, G. Avery, D.M. Avery, M.L. Wilson, and A.J.B. Humphreys, eds., *Frontiers: Southern African Archaeology Today*. Cambridge Monographs in African Archaeology 10 (BAR International Series 207), pp. 40-52.
- 1987a "The preservation of activity areas in the archaeological record: ethnoarchaeological and archaeological work in northwest Ngamiland, Botswana", in S. Kent, ed., *Method and Theory of Activity Area Research*. Columbia University Press. pp. 63-106 (with J. Yellen).
- 1987b "Ishango revisited: New age determinations and cultural interpretations," *The African Archaeological Review* 5:65-78 (with C.C. Smith).
- 1987c "A Terminal Pleistocene assemblage from Drotsky's Cave, Western Ngamiland, Botswana", *Botswana Notes and Records*, 19:1-6 (with J. Yellen, R. Stuckenrath, and R. Welbourne).
- 1988a et seq.
- 87 articles in Tattersall, I., Delson, E., and van Couvering, J., 1988. *Encyclopedia of Human Evolution and Prehistory*, New York: Garland Publishers. Topics: Abri Pataud, p. 3; Ambrona, p. 23; Amudian, p. 29; Antelian, p. 31; Apollo-11, p. 41; Archaeology, pp. 46-49; Aterian, p. 62; Athlitian, p. 62; Aurignac, pp. 62-63; Aurignacian, pp. 63-64; Azilian, p. 86; Badegoulian, p. 87; Bambata, p. 87; Baradostian, p. 88; Buda Industry, p. 107; Capsian, p. 110; Chatelperronian, pp. 129-131; Chilhac, pp. 132-133; Clactonian, p. 134; Clark, J. Desmond, p. 136; Creswellian, pp. 148-149; Cueva Morin, p. 149; Dabban, p. 152; De Sonneville Bordes, Denise, p. 155; Early Stone Age, pp. 173-174; Emiran, p. 179; Epigravettian, p. 181; Epipalaeolithic, p. 181; Europe, pp. 185-194 (with E. Delson); First Intermediate, p. 209; Gravettian, pp. 234-236; Hamburgian, p. 241; Haua Fteah, p. 244 (with C. Stringer); Hope Fountain, p. 275; Howieson's Poort, p. 275; Hoxne, p. 275; Ibero-Maurusian, p. 283; Ishango, p. 286; Jabrud, p. 289; Jabrudian, p. 289; Kafuan, p. 289; Kalambo Falls, p. 294; Kebaran, p. 296; Later Stone Age, pp. 309-312; Laugerie Sites, p. 312; L'Escafe, p. 319; Levallois, p. 319; Lupemban, p. 326; Maglemosian, p. 328; Magosian, pp. 328-329; Mesolithic, pp. 335-338; Micoquian, p. 339; Middle Paleolithic, pp. 341-346; Middle Stone Age, pp. 346-349; Mousterian, pp. 360-363; Orangian, p. 401; Paleolithic, pp. 415-419; Perigord, pp. 445-446; Perigordian, pp. 446-447; Pietersburg, p. 452; Pre-Aurignacian, pp. 474-475; Prehistory, p. 475; Proto-Magdalenian, p. 487; Proto-Solutrean, p. 488; Regourdou, p. 496; Romanellian, p. 499; Rose Cottage, p. 499; Sangoan, p. 504; Sauveterrian, p. 504; Second Intermediate, p. 510; Senga-5, p. 510; Smithfield, p. 530; Soleilhac, p. 532; Solutré, p. 532; Solutrean, pp. 532-534; Star Carr, p. 541; Stillbay, p. 542; Tabunian, p. 561; Tardenoisian, p. 566; Tata, p. 570; Tayacian, p. 571; Technology, p. 571; Torre in Pietra, p. 582; Tshitolian, p. 584; Upper Paleolithic, pp. 586-591; Vallonet, p. 593; Wilton, p. 598.



- 1988b "The Late Stone Age archaeology of the !Kangwa and /Xai/Xai Valleys, Ngamiland." (with J. Yellen) *Botswana Notes and Records* Vol. 20, pp. 5-27.
- 1990a "The glacial maximum in tropical Africa: 22 000 to 14 000 bp." (with P. Robertshaw) In: *The World at 18 000 BP*. O. Soffer and C. Gamble, (eds.) London: Unwin Hyman, pp. 119-169.
- 1990b "The Chinese side of the story." *Nature*, 3/22/90, 344: 288-289.
- 1990c "Dating Pleistocene archaeological sites by protein diagenesis in ostrich eggshell" (with P.E. Hare, J. Kokis, G. Miller, R. Ernst, and F. Wendorf) *Science* 248:60-64.
- 1990d "Late Pleistocene-Holocene human remains from Ishango, Zaire" (with N.T. Boaz and P. Pavlakis) in *Evolution of Environments and Hominidae in the African Western Rift Valley*, N.T. Boaz, ed. Virginia Museum of Natural History Memoir No. 1, pp 273-299. Martinsville, VA
- 1990e "The Late Stone Age archaeology in the /Xai/Xai region: a response to Wilmsen", *Botswana Notes and Records* 22:17-19 (with J. Yellen). 12, Annual Meeting Issue, pp. 54-55.
- 1991 "A burning question: Differences in laboratory induced and natural diagenesis in ostrich eggshell proteins", *Annual Report of the Geophysical Laboratory, Carnegie Institution of Washington*, pp. 176-179. (with P.E. Hare, J. Kokis, and K. Durana).
- 1992 "A new evaluation of the significance of the Late Neogene Lusso Beds, Upper Semliki Valley, Zaire", *Journal of Human Evolution* 22:505-517. (with N.T. Boaz, R. Bernor, H.B.S. Cooke, J. de Heinzelin, R. deChamps, E. Delson, A.W. Gentry, J.W.K. Harris, P. Meylan, P.P. Pavlakis, W.J. Sanders, K.M. Stewart, J. Verniers, P.G. Williamson, and A.J. Winkler)
- 1993a "Chemical clocks and thermometers: diagenetic reactions of amino acids in fossils" *Carnegie Institution of Washington Yearbook* 92: 80-85 (with P.E. Hare, G.A. Goodfriend, J.E. Kokis, and D. von Endt).
- 1993b "Age of early anatomically modern humans from the Cave of Klasies River Mouth, South Africa" *Carnegie Institution of Washington Yearbook* 92: 95-96 (with P.E. Hare and J.E. Kokis).
- 1995a "Dating and context of three Middle Stone Age sites with bone points in the Upper Semliki Valley, Zaire" (with J. Cramer, A. Franklin, J. de Heinzelin, D.M. Helgren, W. Hornyak, J.M. Keating, R.G. Klein, H. Schwarcz, J.N. Leith Smith, K. Stewart, N. Todd, J. Verniers, and J. Yellen) *Science* 268:548-553
- 1995b "A Middle Stone Age worked bone industry from Katanda, Upper Semliki Valley, Zaire" (with J. Yellen, E. Cornelissen, M. Mehlman, and K. Stewart) *Science* 268: 553-556
- 1995c "Les fouilles de H. L. Movius Jr. a l'Abri Pataud: generalités"(with H.M. Bricker, R.B. Clay and N.C.David) In H.M. Bricker, ed., *Le paléolithique Supérieur de l'Abri Pataud (Dordogne): Les Fouilles de H.L. Movius, Jr., Documents d'Archéologie Francaise* 50: 11-29 (C.N.R.S., Paris: Editions de la Maison des Sciences de l'Homme).
- 1995d "L'Aurignacien de l'Abri Pataud: niveaux 6 à 14". In *Ibid.* pp. 167-222.
- 1996 "Behavior and Human Evolution" In W.E. Meikle, F.C. Howell and N. Jablonski, Eds., *Contemporary Issues in Human Evolution*. California Academy of Sciences Memoir No. 21: 135-166.
- 1999a Miller, G. H., P. B. Beaumont, H. J. Deacon, A. S. Brooks, P. E. Hare, A. J. T. Jull. "Earliest modern humans in southern Africa dated by isoleucine epimerization in ostrich eggshell." *Quaternary Science Reviews* 18: 1537-1548.
- 1999b Wood, B.A. and A.S. Brooks. "We are what we ate." *Nature* 400:219-220 (15 July).
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