**VITA**

**Deborah M. Pearsall**

(August 2025)

**Citizenship**: United States.

**Contact Information**

Department of Anthropology

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Columbia, MO 65211

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**Positions**

Professor Emerita, Department of Anthropology, University of Missouri, 2013-present

Professor, Department of Anthropology, University of Missouri, 1997-2013

Associate Professor, Department of Anthropology, University of Missouri, 1992-1997

Assistant Professor, Department of Anthropology, University of Missouri, 1990-1992

Research Associate and Adjunct Assistant Professor in American Archaeology and Anthropology, University of Missouri, 1978-1990

**Education**

A.B. University of Michigan, Ann Arbor. May 1973, Anthropology (Honors)

A.M. University of Illinois, Urbana. Oct. 1977, Anthropology

Ph.D. University of Illinois, Urbana. May 1979, Anthropology. Dissertation: *The Application of Ethnobotanical Techniques to the Problem of Subsistence in the Ecuadorian Formative*. Ann Arbor: University Microfilms.

**Awards and Honors**

2025 election to American Academy of Arts and Sciences

2024 Pomerance Award for Scientific Contributions to Archaeology, Archaeological Institute of America

2020 Society of Ethnobiology Distinguished Ethnobiologist

Appointment as The Frederick A. Middlebush Chair in Social Sciences, 2003-2008

Program review, Committee of Visitors, National Science Foundation, 3/2006

2005 *Science* (Vol. 310) publication of the fossil phytolith type, *Pipernoa pearsalla*, by Pradad

et al. “. . . to honor D. R. Piperno and D. M. Pearsall, archaeologists who have contributed substantially to the development of phytolith analysis.”

2002 Fryxell Award for Exceptional Interdisciplinary Research, Society for American Archaeology

President, Society of Ethnobiology, 1999-2001

President-elect, Society of Ethnobiology, 1997-1999.

Executive Board, Society for American Archaeology, 1997-2000

National Science Foundation Advisory Panel (Archaeology), 1995-1998

President, Society for Phytolith Research, 1995-1996

Publications Committee, Society for American Archaeology, 1995-97

Election as a Fellow of the American Anthropological Association, 1991

Editor, *Journal of Ethnobiology*, 1991-1995

Delegate-at-large, Society for Phytolith Research, 1991-1993

Editorial Board, *Journal of Archaeological Science*, 1991-2003

Secretary, Society for Economic Botany, 1990-1993

Fryxell Committee, Society for American Archaeology, 1987-1991

Executive Committee, Society for Phytolith Research, 1987-1991

Election to Sigma Xi, 1979; full membership, 1980

Election to Phi Kappa Phi, 1979

National Science Foundation Graduate Fellowships, 1974-1977

University Fellowship, 1973-1974, University of Illinois

A.B. with High Distinction, High Honors, 1973

James B. Angell Scholar, 1971-1973, University of Michigan

Honors Program, 1969-1973, University of Michigan

**Memberships in Professional Organizations**

American Anthropological Association Society for Economic Botany

Society for American Archaeology Society of Ethnobiology

Sigma Xi Society for Phytolith Research

**Fieldwork Summary**

**Ecuador**

Primary research area; focus on Formative cultures, emergence of agriculture, development of chiefdom-level societies.

 Dissertation research (Real Alto project), 1974-75.

Ethnobotanical fieldwork, Peñon del Rio (Agricultural Technologies) Project, July-September 1982, June-July 1983.

Jama Valley project, ethnobotanical and agronomic research, October-December 1982, March- April 1988, January 1990, August 1991.

Phytoliths in the Flora of Ecuador project, collecting trips: Jatun Sacha Biological Station, August 1998; Bilsa Biological Research Station, November 1999

 Environmental coring project in SW Guayas Province, two weeks in July and August 2004.

**Peru**

Hunter-gather societies on the Junin Puna.

 Ethnobotanical research, Pachamachay Cave project, summer 1973.

Flotation and plant collecting, Panaulauca Cave project, summer 1979, 1981, January 1983.

 Emergence and evolution of agriculture on the coast.

 Set up flotation system and supervised student, Cardal project, June 1985.

Consultant for ethnobotanical laboratory and field procedures, Chincha-Pisco Archaeological Project, Peru (an Inter-American Research and Training Program of the Institute of Andean Research, New York, NY), July 1985

**Trinidad**

Environmental coring for the Historical Ecology in the Pre-Columbian Caribbean project, July 2007

**Cuba**

Introduction of agriculture in the Central Provinces. Exploratory visit, July 1995.

**Puerto Rico**

 Flotation and plant collecting, El Bronze project, June 1984.

 Coring project, Lake Maisabel, August 1997.

**Virgin Islands**

 Archaeological excavation, ethnobotanical research, Krum Bay project, June-July 1980.

**Bahamas**

 Plant collecting and flotation, Three-Dog project, June 1990.

**Guatemala**

 Coring project, Pacific coast, October 1999, January 2000.

**Costa Rica**

Set up flotation system and discussed analysis procedures for a joint University of Kansas-University of Costa Rica field program in Golfito, Costa Rica, February 1992.

**United States**

Missouri.

Mapping and surface collection of sites in Saline County to provide data on prehistoric Oneota sites, April-May 1987.

Illinois.

 Plant collecting for FAI-270 project, summer 1979.

New Mexico.

Cibola Archaeological Research Project (Pueblo Muerto site), summer 1972 (student participant).

**Grants**

Bain, Allison, **D. M. Pearsall,** M. Burn, L. Kennedy. “Human Eco-dynamics in Barbuda: New

Approaches for Caribbean Archaeology. Research Council of Canada, Social Sciences and Humanities. $C37,090, July 2010-July 2012. DMP Role: advisory, student training.

Siegel, Peter. “Historical ecology in the Pre-Columbian Caribbean.” (Second phase) **Deborah**

 **M. Pearsall**, phytolith analyst, NSF (Archaeology) $143,526; MU budget: $33,300, 7/08-

 6/10.

Hayashida, Frances. “The Ynalche Project: The Political Ecology of Late Prehispanic

Agriculture on the North Coast of Peru.” **Deborah M. Pearsall** and N. A. Duncan, phytolith and starch analysts, NSF (Archaeology), $237,085; MU budget: $19,454. 7/08-8/10.

Siegel, Peter. “Historical ecology in the Pre-Columbian Caribbean.” **Deborah M. Pearsall**,

phytolith analyst, NSF (Archaeology) $120,000; MU budget: $24,000, 7/07-6/08.

P**earsall, Deborah M.** “Phytoliths in the Flora of Ecuador Project Publication.” Paid research

 leave AY 2007-8

P**earsall, Deborah M.** “People, Plants, and Landscapes in Prehistoric Ecuador: A

Look at the Causes and Consequences of Agriculture.” Role: P.I. NSF (Archaeology), $105,511, 7/1/05-6/30/08.

Love, Michael W. “Political Cycling and Early Complex Society in Pacific Guatemala.”

**Deborah M. Pearsall**, paleoethnobotanist. NSF (Archaeology), 6/05-5/07. MU budget: $43,341, plus fieldwork support for 1 student participant.

**Pearsall, Deborah M**. Faculty International Travel Grant, “Third South American Meeting on

Phytolith Research, Tucumán, Argentina.” March 2005 conference. $1500.

**Pearsall, Deborah M**. “Phytoliths in the Flora of Ecuador: Establishing Vegetation

Signatures and a Key to Diagnostics.” Role: P.I. NSF (Archaeometry), $95,513, 8/1/04-7/31/08.

P**earsall, Deborah M.** “People, Plants, and Landscapes in Prehistoric Ecuador: A

Look at the Causes and Consequences of Agriculture.” Role: P.I. NSF (Archaeology), $26,998 for pilot study, 7/1/04-6/30-05

Hastorf, Christine A. “Multi-community Polity Formation in the Lake Titicaca Basin, Bolivia.”

**Deborah M. Pearsall**, supervising phytolith and starch analyst (Amanda Logan MA project). NSF (Archaeology), August 2003-July 2006. MU budget $18,500.

Neff, Hector, Barbara Arroyo, and **Deborah M. Pearsall**. “Agriculture, Paleoenvironment, and

 Human Occupation in the Pacific Coastal Lowlands of Southern Mesoamerica.”

 Continuation grant. Role: co-P.I. NSF (Archaeology), $67,000. January 2002-June 2003.

**Pearsall, Deborah M.** “How Important was Agriculture in Prehistoric Ecuador?” Role: P.I. UM

 Research Board, $25,653. January 2002-June 2003.

**Pearsall, Deborah M**. “The Ethnobotany of the Jama River Region, Ecuador.” Paid research

 leave, calendar year 2000, with associated Research Council funding ($1140).

Neff, Hector, Barbara Arroyo, and **Deborah M. Pearsall**. “Causes and Consequences of the

Spread of the Early Formative Occupation of Pacific Coastal Southern Mesoamerica: Phase I, the Paleoenvironmental Record.” Role: co-P.I. NSF (Archaeology), $159,500. July 1999-June 2001.

**Pearsall, Deborah M**. and Justin Nolan. “Ethnobotanical Knowledge Variation in Missouri’s

 Little Dixie.” Role: dissertation supervisor, with Michael Robbins. NSF (Anthropology), $6,500. May 1999-December 1999.

**Pearsall, Deborah M.** “Phytoliths in the Flora of Ecuador: Methodology for

Paleoenvironmental Reconstruction.” Role: P.I. NSF (Archaeometry), $90,571. August 1997-July 2000.

**Pearsall, Deborah M.** and P. Siegel. “Horticultural and Environmental Reconstruction in

Prehistoric Puerto Rico.” Role: Co-P.I. H. John Heinz III Fund, $7998. May 1997-April 1998

Siegel, P. and **Deborah M. Pearsall**. “Horticultural and Environmental Reconstruction in

Prehistoric Puerto Rico.” Role: Co-P.I. Wenner-Gren Foundation, $15,000. May 1997-August 1998

Stahl, Ann B. “Archaeological Investigations at Makala Kataa and Kuulo Kataa, Ghana.”

**Deborah M. Pearsall**, paleoethnobotanist for project. NSF (Archaeology), paleoethnobotany budget, $3367. 1996-1997.

**Pearsall, Deborah M**. “Identifying Early Agriculture using Phytolith Analysis.” Role:

 principal investigator. UM Research Board, $26,150. June 1996-August 1997.

**Pearsall, Deborah M.** and Zhijun Zhao. “The Origins of Rice Domestication in China.” Role: dissertation supervisor. NSF (Archaeology), $12,000, March 1996-December 1996.

**Pearsall, Deborah M**. “Achieving Interdisciplinary Synthesis in Dietary Reconstruction.” Paid research leave, academic year 1995-96.

**Pearsall, Deborah M**. “Central Cuba Ecological-Archaeological Project.” Role: principal

 investigator. MU Research Council, $807, July 1995.

Chávez, Karen and Sergio Chávez. “Archaeological Investigations at Chissi, Bolivia.” **Deborah**

 **M. Pearsall**, paleoethnobotanist for project. Fulbright Foundation, paleoethnobotany budget, $5000, 1994-1996.

Church, Warren. “Archaeological Investigations at Manachaqui Cave, Peru.” **Deborah M.**

**Pearsall**, paleoethnobotanist for project. NSF (Archaeology), paleoethnobotany budget, $4750, 1993-1995.

Myers, Robert L., Timothy P. Holtsford, and **Deborah M. Pearsall**. “Evaluating the Potential of 'Lost' Native American Grains.” Role: co-principal investigator. MU Research Council,

 $5000, 1992.

**Pearsall, Deborah M**. and Dolores R. Piperno. “Collaborative Basic Research Towards the

Development and Maturation of Phytolith Analysis in Archaeology.” Role: co-principal investigator. NSF (Archaeometry), $304,977, July 1989-June 1992; renewal award, $91,438, September 1992 to August 1993; supplemental award, $8125, August 1994-July 1995.

**Pearsall, Deborah M**. Research Experiences for Undergraduates Supplemental Award, $4000, August 1991-May 1992.

O'Brien, Michael J. and **Deborah M. Pearsall**. “Curation of Archaeological Collections from Southeast Missouri.” Role: co-principal investigator. NSF (Systematic Collections), $116,399, January 1989-December 1990.

**Pearsall, Deborah M.** and Dolores R. Piperno. “Conference: Towards an Assessment of the

Role of Phytolith Analysis.” Role: conference co-organizer. MU Arts and Science College and the Wenner Gren Foundation, $4950, January 1988.

Chapman, Carl H. and **Deborah M. Pearsall**. “Pilot Study to Provide Data on Prehistoric Oneota Sites.” Role: co-principal investigator. MU Research Council, $4083, 1987.

**Pearsall, Deborah M**. and James A. Zeidler. “Tropical Human Ecology, Agricultural

Production, and Prehistoric Settlement in the Jama River Drainage.” Role: co-principal investigator. NSF (Archaeology), $50,004, May 1987-October 1988; renewal award April 1989-March 1991, $219,629; renewal award May 1991-April 1992, $75,292.

**Pearsall, Deborah M**. Research Experiences for Undergraduates Supplemental Award, $5000, August 1993-May 1994.

**Pearsall, Deborah M**. Research Experiences for Undergraduates Supplemental Award, $4000, August-December, 1991.

**Pearsall, Deborah M**. Research Experiences for Undergraduates Supplemental Award, $4000, August 1990-May 1991.

Burger, Richard. “Archaeological Investigations at Cardal, Peru.” **Deborah M. Pearsall**,

paleoethnobotanist for project. NSF (Archaeology), paleoethnobotany budget, $7896, 1985-1987.

Chapman, Carl. “Osage and Missouri Life Cultural Change: 1675-1825.” **Deborah M.**

**Pearsall**, faculty associate and paleoethnobotanist for project. National Endowment for the Humanities, paleoethnobotany budget, $10,000, 1983-1985.

Quilter, Jeffrey. “Archaeological Investigations at El Paraiso, Peru.” **Deborah M. Pearsall**, paleoethnobotanist for project. NSF (Archaeology), paleoethnobotany budget, $4000, 1983-1985.

**Pearsall, Deborah M**. University of Missouri Graduate School Excellence Award, $500, 1983.

Bodner, Connie C. (Ralph Rowlett, dissertation supervisor). “Archaeological Investigations at

Lubok and Fekes, Philipines. **Deborah M. Pearsall**, paleoethnobotanist for project. NSF (Archaeology), paleoethnobotany budget, $1000, 1983.

Marcos, Jorge. “Ancient Agricultural Technologies Project.” **Deborah M. Pearsall**, paleoethnobotanist for project. Agency for International Development, paleoethnobotany budget, $9000, 1982-1984.

**Pearsall, Deborah M**. Sigma Xi, $100, 1982.

Rick, John W. “Study of the Prehistoric Ecology of the Punas of Junin, Peru.” **Deborah M.**

**Pearsall**, paleoethnobotanist for project. NSF (Archaeology), paleoethnobotany budget, $7000, 1981-1983.

Lundberg, Emily. “Archaeological Investigations at Krum Bay, US Virgin Islands.” **Deborah**

 **M. Pearsall**, paleoethnobotanist for project. Government of the Virgin Islands, paleoethnobotany budget, $1000, 1981-1982.

Benfer, Alice and **Deborah M. Pearsall**. “Conservation and Cataloging of Botanical Materials

in the American Archaeology Division Systematic Collection.” Role: co-principal investigator; project director in second year. NSF (Systematic Collections), $20,000, 1980-1982.

**Pearsall, Deborah M**. University of Missouri Research Council Grant, $500, 1979.

**Pearsall, Deborah M**. University of Illinois Summer Research Grant, 1977.

**Books**

2019 **Pearsall, D. M.** *Case Studies in Paleoethnobotany. Understanding Ancient Lifeways through the Study of Phytoliths, Starch, Macroremains, and Pollen*. Routledge, NY.

2015 **Pearsall, D. M.** *Paleoethnobotany. A Handbook of Procedures*. Third Edition. Routledge, NY.

2004 **Pearsall, D. M.** *Plants and People in Ancient Ecuador: The Ethnobotany of the Jama River Valley*. Wadsworth/Thomson Learning, Case Studies in Archaeology Series, Belmont, CA 180 pp.

2000 **Pearsall, D. M.** *Paleoethnobotany. A Handbook of Procedures*. Second Edition. Academic Press, San Diego [now published by Left Coast Press, Walnut Creek, CA]. 700 pp.

1998 Piperno, D. R. and **D. M. Pearsall**. *The Origins of Agriculture in the Lowland Neotropics*. Academic Press, San Diego. 400 pp.

1989 **Pearsall, D. M**. *Paleoethnobotany. A Handbook of Procedures*. San Diego: Academic Press. 470 pp.

**Monographs, Edited Volumes, Edited Encyclopedia**

2011 Anderson, E., **D. M. Pearsall**, E. Hunn, N. Turner (editors). *Ethnobiology*. John Wiley and Sons, Hoboken NJ.

2008 **Pearsall, D. M.** (General Editor). *Encyclopedia of Archaeology*. Academic Press, San Diego and Oxford, UK. Three volumes, 2382 pages.

1994 Zeidler, J. A. and **D. M. Pearsall** (editors). *Regional Archaeology in Northern Manabí, Ecuador, Volume 1. Environment, Cultural Chronology, and Prehistoric Subsistence in the Jama River Valley.* University of Pittsburgh Memoirs in Latin American Archaeology No. 8. University of Pittsburgh Department of Anthropology, Pittsburgh.

1993 **Pearsall, D. M.** and D. R. Piperno (editors). *Current Research in Phytolith Analysis: Applications in Archaeology and Paleoecology*. MASCA Monograph Series, University of Pennsylvania Museum.

1989 Voigt, E. and **D. M. Pearsall** (editors). *New World Paleoethnobotany: Collected Papers in Honor of Leonard Blake*. Vol. 47 (entire), *Missouri Archaeologist*.

1988 **Pearsall, D. M**. *La producción de alimentos en Real Alto: La aplicación de las técnicas etnobotánicas al problema de la susistencia en el período formativo ecuatoriano*. Centro de Estudios Arqueológicos y Antropológicos, Escuela Superior Politécnica del Litoral, Guayaquil, Ecuador. 229 pp. Translation of Dissertation.

**Journal Articles**

2024 Berman, Mary Jane, **Deborah M. Pearsall**, and Caleb Ritzheimer. Lucayan charred wood selection patterns: A comparative study of variability in fragile island ecosystems of the Central and Northern Bahamas. *Vegetation History and Archaeobotany* https://doi.org/10.1007/s00334-024-01017-4

2023 Siegel, Peter E. and **Deborah M. Pearsall**. Plant resource diversity in the ethnobotanical record of precolonial Puerto Rico: Evidence from microbotanical remains. *Journal of Archaeological Science* 160, doi:105859

2023 **Pearsall, Deborah M**. Paleoethnobotany as ethnobotany as paleoethnobotany. *Journal of Ethnobiology* 43:40-43

2023 Hart, Thomas C., Duncan Neil A., **Pearsall, Deborah M.**, and Love, Michael W. South American maize and political economy of the Middle and Late Formative Soconusco region of Guatemala. *Latin American Antiquity*, https://doi.org/10.1017/laq.2023.3

2021 **Pearsall, D. M.**, M. O’Brien, R. A. Benfer, and R. Kennedy. Establishing phytolith analogs for four forest formations of lowland Ecuador: Results and applications to archaeological and paleoenvironmental interpretation. *The Digital Archaeological Record* (core.tdar.org). doi:10.48512/XCV8459114

2020 Berman, M. J and **D. M. Pearsall**. Crop dispersal and Lucayan tool use: Investigating the creation of transported landscapes in the Central Bahamas through starch grain, phytolith, macrobotanical, and artifact studies. *Journal of Field Archaeology* 45(5):355-371. https://doi.org/10.1080/00934690.2020.1740958

2020 **Pearsall, D. M.**, N. A. Duncan, K. Chandler-Ezell, D. H. Ubelaker, and J. A. Zeidler. Food and Society at Real Alto, an Early Formative Community in Southwest Coastal Ecuador. *Latin American Antiquity* 31(1):122-142. https://doi.org/10.1017/laq.2019.96

2017 **Pearsall, Deborah M.** y Karol Chandler-Ezell (traducción de Leonor Herrera). Informe del análisis de muestras de fitolitos del Valle del Cauca. *Boletín de Arqueología* 26:66-88.

2016 **Pearsall, D. M.**, N. A. Duncan, J. G. Jones, D. E. Freidel, C. I. Veintimilla, and H. Neff. Human-environment interactions during the early mid-Holocene in coastal Ecuador as revealed by mangrove coring in Santa Elena Province. *The Holocene* 26(8):1262-1289. https://doi.org/10.1177%2F0959683616638421

2016 Athens, J. S., J. V. Ward, **D. M. Pearsall**, K. Chandler-Ezell, D. W. Blinn, and A. E. Morrison. Early prehistoric maize in northern highland Ecuador. *Latin American Antiquity* 27(1):3-21. https://doi.org/10.7183/1045-6635.27.1.3

2016 **Pearsall, D. M.** The *Phytoliths in the Flora of Ecuador* project: Perspectives on phytolith classification, identification, and establishing regional phytolith databases. *Journal of Archaeological Science* 68:89-97*.* http://dx.doi.org/10.1016/j.jas.2015.06.014*.*

2016 Ball, T., K. Chandler-Ezell, N. Duncan, R. Dickau, T. C. Hart, J. Iriarte, C. Lentfer, A. Logan, H. Ju, M. Madella, **D. M. Pearsall**, D. Piperno, A. M. Rosen, L. Vrydaghs, A. Weisskopf, and J. Zhang. Phytoliths as a tool for investigations of agricultural origins and dispersals around the world. *Journal of Archaeological Science* 68:32-45. https://doi.org/10.1016/j.jas.2015.08.010

2015 Siegel, P. E., J. G. Jones, **D. M. Pearsall**, N. P. Dunning, P. Farrell, N. A. Duncan, J. H. Curtis, S. K. Singh. Paleoenvironmental evidence for first human colonization of the eastern Caribbean. *Quaternary Science Reviews* 129:275-295.

2014 Rosenswig, R. M., **D. M. Pearsall,** M. A. Masson, B. J. Culleton, and D. J. Kennett. Archaic period settlement and subsistence in the Maya lowlands: New starch grain and lithic data from Freshwater Creek, Belize. *Journal of Archaeological Science* 41:308-321.

2014 Ying Guan, **D. M. Pearsall**, Xing Gao, Fuyou Chen, Zhenyu Zhao. Plant use activities during the Upper Paleolithic in East Eurasia: Evidence from the Shuidonggou site, Northwest China. *Quaternary International* 347:74-83.

2013 Gu, Y., Zhao, Z, and **D. M. Pearsall**. Phytolith morphology research on wild and domesticated rice species in East Asia. *Quaternary International* 287: 141-148

2012 Logan, A., C. A. Hastorf, **D. M. Pearsall**. “Let’s drink together:” Early ceremonial use of maize in the Titicaca Basin. *Latin American Antiquity* 23(3):235-258

2012 Stahl, P. W. and **D. M. Pearsall**. Late Pre-Columbian agroforestry in the tropical lowlands of western Ecuador. *Quaternary International* 249:43-52

2010 Elliott, M., C. T. Fisher, B. A. Nelson, R. S. Molina Garza, S. K. Collins, and **D. M. Pearsall**. Climate, agriculture, and cycles of human occupation over the last 4000 yr in southern Zacatecas, Mexico. *Quaternary Research* 74:26-35

2009 **Pearsall, D. M.** Investigating the transition to agriculture. *Current Anthropology* 50(5): 609-613.

2009 Duncan, N. A., **D. M. Pearsall**, and R. A. Benfer, Jr. Gourd and squash artifacts yield starch grains of feasting foods from preceramic Peru. *Proceedings of the National Academy of Sciences* 106(32): 13202-13206.

2008 Zarrillo, S., **D. M. Pearsall**, J. S. Raymond, M. A. Tisdate, and D. J. Quon. Directly dated starch residues document Early Formative maize *(Zea mays L.)* in tropical Ecuador. *Proceedings of the National Academy of Sciences* 105(13):5006-11

2008 Berman, M. J. and **D. M. Pearsall**. Starch grain analysis: Crossing the frontiers of Caribbean paleoethnobotany. *Latin American Antiquity* 19(2):181-203.

2008 Gu, Yansheng, **D. M. Pearsall**, Shucheng Xie, and Jianxin Yu, Vegetation and fire history of a site in southern tropical Xishuangbanna derived from phytolith and charcoal records from modern sediments. *Journal of Biogeography* 35:325-341.

2007 Perry, L., R. Dickau, S. Zarrillo, I. Holst, **D. M. Pearsall**, D. R. Piperno, M. J. Berman, R. G. Cooke, K. Rademaker, A. J. Ranere, J. S. Raymond, D. H. Sandweiss, F. Scaramelli, K. Tarble, and J. A. Zeidler. Starch fossils and the domestication and dispersal of chili peppers (*Capsicum* spp. L.) in the Americas. *Science* 315 (5814):986-988.

2006 Neff, H., **D. M. Pearsall**, J. G. Jones, B. Arroyo de Pieters, S. K. Collins, and D. E. Freidel. Early Maya adaptive patterns: Mid-Late Holocene paleoenvironmental evidence from Pacific Guatemala. *Latin American Antiquity* 17:287-315.

2006 Neff, H., **D. M. Pearsall**, J. G. Jones, B. Arroyo de Pieters, and D. E. Freidel. Climate change and population history in the Pacific lowlands of Southern Mesoamerica. *Quaternary Research* 65:390-400.

2006 Chandler-Ezell, K., **D. M. Pearsall**, and J. A. Zeidler. Root and tuber phytoliths and starch grains document manioc *(Manihot esculenta)*, arrowroot *(Maranta arundinacea)*, and llerén *(Calathea* sp.) at the Real Alto site, Ecuador. *Economic Botany* 60:103-120.

2004 **Pearsall, D. M**., K. Chandler-Ezell, and J. A. Zeidler. Maize in ancient Ecuador: Results of residue analysis of stone tools from the Real Alto site. *Journal of Archaeological Science* 31:423-442.

2004 **Pearsall, D. M**., K. Chandler-Ezell, and A. Chandler-Ezell. Maize can *still* be identified using phytoliths: Response to Rovner. *Journal of Archaeological Science* 31:1029-1038.

2003 **Pearsall, D. M.** Invited Comment (p. 694) on, Sweet beginnings: Stalk sugar and the domestication of maize, by J. Smalley and M. Blake. *Current Anthropology* 44(5): 675-703.

2003 Chandler-Ezell, K. and **D. M. Pearsall**. “Piggyback” microfossil processing: Joint starch and phytolith sampling from stone tools. *Phytolitharian Newsletter* 15(3):2-8.

2003 **Pearsall, D. M**., K. Chandler-Ezell, and A. Chandler-Ezell. Identifying maize in Neotropical sediments and soils using cob phytoliths. *Journal of Archaeological Science* 30:611-627

2002 **Pearsall, D. M**. Maize is *still* ancient in prehistoric Ecuador: The view from Real Alto, with comments on Staller and Thompson. *Journal of Archaeological Science* 29:51-55.

2000 Berman, M. J. and **D. M. Pearsall**. Plants, people, and culture in the prehistoric central Bahamas: A view from the Three Dog site, an Early Lucayan settlement on San Salvador Island, Bahamas. *Latin American Antiquity* 11:219-239

1998 Buckler, E. S., IV, **D. M. Pearsall**, and T. P. Holtsford. Climate, Plant Ecology, and Central Mexican Archaic Subsistence. *Current Anthropology* 39:152-164

1998 Zhao, Zhijun, **D. M. Pearsall**, R. A. Benfer, Jr., and D. R. Piperno. Distinguishing rice (*Oryza sativa* Poaceae) from wild Oryza species through phytolith analysis, II: Finalized method. *Economic Botany*.52:134-145.

1998 Zhao, Zhijun and **D. M. Pearsall**. Experiments for Improving Phytolith Extraction from Soils. *Journal of Archaeological Science* 25:587-598.

1998 Piperno, D. R. and **D. M. Pearsall.** The silica bodies of tropical American grasses: Morphology, taxonomy, and implications for grass systematics and fossil phytolith identification. *Smithsonian Contributions to Botany* 85

1995 **Pearsall, D. M.**, D. R. Piperno, E. H. Dinan, M. Umlauf, Z. Zhao, and R. A. Benfer, Jr. Distinguishing rice (*Oryza sativa* L.) from wild *Oryza* species through phytolith analysis: Results of preliminary research. *Economic Botany* 49(2):183-196.

1994 Damp, J. E., and **D. M. Pearsall**. Early cotton from coastal Ecuador. *Economic Botany* 48:163-165.

1993 Piperno, D. R. and **D. M. Pearsall**. Phytoliths in the reproductive structures of maize and teosinte: Implications for the study of maize evolution. *Journal of Archaeological Science* 20:337-362.

1992 **Pearsall, D. M**. Prehistoric subsistence and agricultural evolution in the Jama River Valley, Manabi Province, Ecuador. *Journal of the Steward Anthropological Society* 20(1&2):181-207.

1991 Quilter, J., B. Ojeda, **D. M. Pearsall**, D. Sandweiss, J. Jones, and E. Wing. The Subsistence economy of El Paraiso, an early Peruvian site. *Science* 251: 277-283.

1990 **Pearsall, D. M**. Application of phytolith analysis to reconstruction of past environments and subsistence: Recent research in the Pacific. In *Recent Advances in Micronesian Archaeology*. Edited by R. Hunter-Anderson. *Micronesica* (Suppl.), 2: 65-74.

1990 **Pearsall, D. M.** and D. R. Piperno. Antiquity of maize cultivation in Ecuador: Summary and reevaluation of the Evidence. *American Antiquity*. 55: 324-337.

1990 Damp, J. E., **D. M. Pearsall**, and L. T. Kaplan. La evidencia agrícola en Valdivia Temprano. *Miscelánea Antropológica Ecuatoriana* 10:49-53. Translation of 1981 *Science* article.

1985 B. L. Stark, L. Heller, F. Nelson, R. Bishop, **D. M. Pearsall**, D. S. Whitney, and H. Wells. El Bálsamo residential investigations: A pilot project and research objectives. *American Anthropologist* 87:100-111.

1985 **Pearsall, D. M.** Un análisis del maíz arqueológico encontrado en la Provincia de Manabi. *Miscelánea Antropológica Ecuatoriana* 5:91-99. Translation of 1980 *Economic Botany* article.

1984 **D. M. Pearsall** and M. K. Trimble. Identifying past agricultural activity through soil phytolith analysis: A case study from the Hawaiian Islands. *Journal of Archaeological Science* 11:119-133.

1983 **Pearsall, D. M**. Evaluating the stability of subsistence strategies by use of paleoethnobotanical data. *Journal of Ethnobiology* 3:121-137.

1982 **Pearsall, D. M**. Phytolith analysis: Applications of a new paleoethnobotanical technique in archeology. *American Anthropologist* 84:862-871.

1981 J. Damp, **D. M. Pearsall**, and L. T. Kaplan. Beans for Valdivia. *Science* 212:811-812.

1980 **Pearsall, D. M**. Analysis of an archaeological maize kernel cache from Manabi Province, Ecuador. *Economic Botany* 34:344-351.

1978-80 **Pearsall, D. M**. Recursos y utilización de plantas en Pachamachay. *Revista del Museo Nacional (Lima)* 44:65-68.

1978 **Pearsall, D. M.** Phytolith analysis of archeological soils: Evidence for maize cultivation in Formative Ecuador. *Science* 199:177-178.

1977-78 **Pearsall, D. M.** Early movements of maize Between Mesoamerica and South America. *Journal of the Steward Anthropological Society* 9(1/2):41-75.

**Book Chapters**

2020 **Pearsall, D. M.** Paleoethnobotany in western South America: Progress and problems. Pp. 389-416 in *The Nature and Status of Ethnobotany*. Second Edition.

2020 **Pearsall, D. M.**, N. A. Duncan, J. G. Jones, and D. E. Freidel. The Santa Elena Peninsula in the Early Mid-Holocene: Human-environment interactions before and during the “hiatus” between Vegas and Valdivia. Pp. 35-44 in *Las Vegas: The Early Holocene Archaeology of Human Occupation in Coastal Ecuador*, edited by P. W. Stahl and K. E. Stothert. University of Pittsburgh Memoirs in Latin American Archaeology No. 25. University of Pittsburgh Center for Comparative Archaeology, Pittsburgh, PA.

2019 Siegel, P. E., J. G. Jones, **D. M. Pearsall**, N. P. Dunning, P. Farrell, N. A. Duncan, J. H. Curtis, S. K. Singh. Humanizing the landscapes of the Lesser Antilles during the Archaic Age. Pp. 55-70 in *The Archaeology of Caribbean and Circum-Caribbean Farmers 6000 BC - AD 1500*, edited by B. A. Reid. Routledge, NY.

2019 Siegel, P. E., J. G. Jones, **D. M. Pearsall**, N. P. Dunning, P. Farrell, N. A. Duncan, J. H. Curtis. Ecosystem engineering during the human occupations of the Lesser Antilles. Pp. 77-88 in *Early Settlers of the Insular Caribbean. Dearchaizing the Archaic*, edited by C. L. Hofman and A. T. Antczak. Sidestone Press, Leiden

2018 **Pearsall, D. M.**, J. G. Jones, N. E. Dunning, P. E. Siegel, P. Farrell, J. H. Curtis, and N. A. Duncan. Methods for addressing island historical ecology. Pp. 57-71 in *Island Historical Ecology: Socionatural Landscapes of the Eastern and Southern Caribbean*. Edited by Peter. E. Siegel. Berghahn Books, NY.

2018 **Pearsall, D. M**., N. E. Dunning, J. G. Jones, N. A. Duncan, P. E. Siegel. St. Croix. Pp. 285-296 In *Island Historical Ecology: Socionatural Landscapes of the Eastern and Southern Caribbean*. Edited by Peter. E. Siegel. Berghahn Books, NY.

2018 Duncan, N. A., N. P. Dunning, J. G. Jones, **D. M. Pearsall**, P. E. Siegel. Martinique. Pp. 203-225 In *Island Historical Ecology: Socionatural Landscapes of the Eastern and Southern Caribbean*. Edited by Peter. E. Siegel. Berghahn Books, NY.

2017 **Pearsall, D. M.** Commentary: Paleoethnobotany beyond diet, environment, and ecology. Pp. 171-177 in *Social Perspectives on Ancient Lives from Paleoethnobotanical Data*. Edited by M. P. Sayre and M. C. Bruno. Springer International. DOI 10.1007/978-3-319-52849-6\_9

2015 **Pearsall, D. M.** Early agriculture in the Americas. Pp. 514-538 in *The Cambridge World History, Volume II, A World with Agriculture, 12,000 BCE-500 CE*. Edited by Graeme Barker and Candice Goucher. Cambridge University Press, Cambridge UK.

2014 **Pearsall, D. M.** Curating paleoethnobotanical specimens and botanical reference collections. Pp. 67-83 in *Curating Biocultural Collections: A Handbook.* Edited by Jan Salick, Katie Konchar, and Mark Nesbitt. Kew Publishing, Royal Botanic Gardens, Kew, in association with Missouri Botanical Garden, St. Louis.

2014 **Pearsall, D. M.** Formation processes of pollen and phytoliths. Pp. 51-73 In *Method and Theory in Paleoethnobotany*. Edited by J. M. Marston, J. d’Alpoim Guedes, and C. Warinner. University Press of Colorado, Boulder

2014 **Pearsall, D. M.** Arrowroot *(Maranta arundinacea)* and *Leren* *(Calathea latifolia)*, Marantaceae. Pp. 204-235 in *New Lives for* *Ancient and Extinct Crops*, edited by Paul Minnis. The University of Arizona Press, Tucson.

2014 **Pearsall, Deborah M.** Adaptation of prehistoric hunter-gatherers to the high Andes: The

 changing role of plant resources. Pp. 318-332 in *Foraging and Farming: The Evolution*

 *of Plant Exploitation*, edited by D. R. Harris and G. C. Hillman. London: Allen and

Unwin.eBook publication of 1989 book. https://doi-org.proxy.mul.missouri.edu/10.4324/9781315746425

2012 **Pearsall, D. M.** People, plants, and culinary traditions. Pp. 73-85 In *Oxford Handbook of North American Archaeology*, edited by T. R. Pauketat. Oxford University Press.

2012 **Pearsall, D. M.** and P. W. Stahl. The origins and spread of early agriculture and domestication: Environmental and cultural considerations. Pp. 328-354 In *Handbook of Environmental Change, Volume 2, Human Impacts and Responses*, edited by J. A. Matthews, P. J. Bartlein, K. R. Briffa, A. G. Dawson, A. de Vernal, T. Denham, S. C. Fritz, F. Oldfield. Sage, London.

2011 **Pearsall, D. M.** and C. A. Hastorf. Reconstructing past life-ways with plants II: Human-environment and human-human interactions. Pp. 173-187 in *Ethnobiology*, edited by E. Anderson, D. M. Pearsall, E. Hunn, and Nancy Turner. John Wiley & Sons.

2008 **Pearsall, D. M**. Plant domestication and the shift to agriculture in the Andes. Pp. 105-120 In *Handbook of South American Archaeology*, edited by H. Silverman and W. H. Isbell, Springer, New York.

2008 **Pearsall, D. M.** Modeling prehistoric agriculture through the paleoenvironmental record: Theoretical and methodological issues. Pp. 210-230 In *Re-thinking Agriculture: Archaeological and Ethnoarchaeological Perspectives*. Edited by T. P. Denham, J. Iriarte, and L. Vrydaghs. LeftCoast Press.

2008 **Pearsall, D. M.** Reconstructing Subsistence in the Lowland Tropics: A Case Study from the Jama River Valley, Manabí, Ecuador (updated). Pp. 255-276 In *Case Studies in Environmental Archaeology*, Second Edition. Edited by E. J. Reitz, C. M. Scarry, and S. J. Scuder. Springer Science Business Media, London.

2007/1999 **Pearsall, Deborah M**. The impact of maize on subsistence systems in South America: An example from the Jama River Valley, coastal Ecuador (1999), pp. 83-103. Update: Early occurrence of maize (2006), pp. 103-105 In *The Emergence of Agriculture: A Global View*, edited by T. Denham and P. White. One World Archaeology Readers, London and New York: Routledge.

2006/1992 **Pearsall, D. M.** The origins of plant cultivation in South America. Pp. 173-205 in *Origins of Agriculture. An International Perspective*. Edited by C. W. Cowan and P. J. Watson. 1992 book reprinted by the University of Alabama Press.

2005 Siegel, P. E., J. G. Jones, **D. M. Pearsall**, and D. P. Wagner. Environmental and cultural correlates in the West Indies. Pp. 88-121 in *Ancient Borinquen. Archaeology and Ethnohistory of Native Puerto Rico*. P. E. Siegel, ed. University of Alabama Press, Tuscaloosa.

2003 **Pearsall, D. M**. Plant Food Resources of the Ecuadorian Formative: An Overview and comparison to the Central Andes. Pp. 213-257 in *Archaeology of Formative Ecuador. A Symposium at Dumbarton Oaks*. Edited by Scott Raymond and Richard Burger. Dumbarton Oaks, Washington D.C.

2003 **Pearsall, D. M.** Integrating biological data: Phytoliths and starch grains, health and diet, at Real Alto, Ecuador. In *Phytolith and Starch Research in the Australian-Pacific-Asian Regions: The State of the Art*. Edited by D. M. Hart and L. A. Wallis. *Terra Australis* 19, Pandanus Books.

2003 Newsom, L. A. and **D. M. Pearsall**. Trends in Caribbean Archaeobotany. Pp. 347-412 in *People and Plants in Ancient Eastern North America*, edited by P. Minnis. Smithsonian Institution Press, Washington, D.C.

2002 **Pearsall, D. M.** Analysis of charred botanical remains from the Tutu site. Pp. 109-134 in *The Tutu Archaeological Village site: A Multidisciplinary Case Study in Human Adaptation*. Edited by Elizabeth Righter. Routledge, London.

1999 **Pearsall, Deborah M**. The impact of maize on subsistence systems in South America: An example from the Jama River Valley, coastal Ecuador. Pp. 419-437 In *The Prehistory of Food: Appetites for Change*. Edited by Chris Gosden and Jon Hather. Routledge, London

1999 **Pearsall, D. M.** Agricultural evolution and the emergence of Formative societies in Ecuador. Pp. 161-170 In *Pacific Latin America in Prehistory. The Evolution of Archaic and Formative Cultures*. M. Blake, editor. Washington State University Press, Pullman.

1996 **Pearsall, D. M.** Reconstructing subsistence in the lowland tropics: A case study from the Jama River valley, Manabi, Ecuador. Pp. 233-254 in *Case Studies in Environmental Archaeology*. E. J. Reitz, L. Newsom, and S. Scudder (editors). Plenum Press, New York.

1995 **Pearsall, D. M.** Domestication and agriculture in the New World tropics. Pp. 157-192 in *Last Hunters-First Farmers: New Perspectives on the Prehistoric Transition to Agriculture*. T. D. Price and A. B. Gehauer, editors. School of American Research Press, Santa Fe, NM

1995 **Pearsall, D. M.** “Doing” paleoethnobotany in the tropical lowlands: Adaptation and innovation in methodology. Pp. 113-129 in *Archaeology in the Lowland American Tropics: Current Analytical Methods and Applications*. P. Stahl, editor. Cambridge University Press.

1994 **Pearsall, D. M.** Investigating New World tropical agriculture: Contributions from phytolith analysis. Pp. 115-138 in *Tropical Archaeobotany. Applications and New Developments*. Edited by J. Hather. Routledge, London.

1994 **Pearsall, D. M.** Issues in the analysis and interpretation of archaeological maize in South America. Pp. 245-272 in *Corn and Culture in the Prehistoric New World*. Edited by C. Hastorf and S. Johannessen. Westview Press, Boulder.

1994 J. A. Zeidler and **D. M. Pearsall**. The Jama Valley archaeological/paleoethnobotanical project: An introduction. Pp. 1-12 in *Regional Environment and Cultural Chronology in Northern Manabi, Ecuador, Volume 1*. J. A. Zeidler and D. M. Pearsall (editors). University of Pittsburgh Latin American Archaeology Monograph Series.

1994 **Pearsall, D. M.** Modern agronomic practices and agricultural productivity. Pp. 59-70 in *Regional Environment and Cultural Chronology in Northern Manabi, Ecuador, Volume 1*. J. A. Zeidler and D. M. Pearsall (editors). University of Pittsburgh Latin American Archaeology Monograph Series.

1994 **Pearsall, D. M.** Ethnobiological field research, macrobotanical analysis, and phytolith analysis. Pp. 145-169 in *Regional Environment and Cultural Chronology in Northern Manabi, Ecuador, Volume 1*. J. A. Zeidler and D. M. Pearsall (editors). University of Pittsburgh Latin American Archaeology Monograph Series.

1994 **D. M. Pearsall** and J. A. Zeidler. Regional environment, cultural chronology, and prehistoric subsistence in Northern Manabi. Pp. 201-216 in *Regional Environment and Cultural Chronology in Northern Manabi, Ecuador, Volume 1*. J. A. Zeidler and D. M. Pearsall (editors). University of Pittsburgh Latin American Archaeology Monograph Series.

1993 Piperno, D. R. and **D. M. Pearsall**. The nature and status of phytolith analysis. Pp. 9-18 in *Current Research in Phytolith Analysis: Applications in Archaeology and Paleoecology*. D. M. Pearsall and D. R. Piperno. (editors). MASCA Monograph Series, University of Pennsylvania Museum.

1993 Rowlett, R. M. and **D. M. Pearsall**. Archaeological age determinations derived from opal phytoliths by thermoluminescence. Pp. 25-29 in *Current Research in Phytolith Analysis: Applications in Archaeology and Paleoecology*. D. M. Pearsall and D. R. Piperno. (editors). MASCA Monograph Series, University of Pennsylvania Museum.

1993 **Pearsall, D. M.** Contributions of phytolith analysis for reconstructing subsistence: Examples from research in Ecuador. Pp. 108-122 in *Current Research in Phytolith Analysis: Applications in Archaeology and Paleoecology*. D. M. Pearsall and D. R. Piperno. (editors). MASCA Monograph Series, University of Pennsylvania Museum.

1992 **Pearsall, D. M**. and E. Dinan. Developing a phytolith classification system. Pp. 37-64 in *Studies in Phytolith Systematics*. Edited by G. Rapp, Jr. and S. Mulholland. Plenum Press.

1992 **Pearsall, D. M.** The origins of plant cultivation in South America. Pp. 173-205 in *Origins of Agriculture. An International Perspective*. Edited by C. W. Cowan and P. J. Watson. Smithsonian Institution Press.

1989 **Pearsall, D. M.** Adaptation of prehistoric hunter-gatherers to the high Andes: The changing role of plant resources. In *Foraging and Farming: the Evolution of Plant Exploitation*, edited by D. R. Harris and G. C. Hillman. London: Allen and Unwin.

1989 Hunter, A. and **D. M. Pearsall**. Paleoethnobotany of the Osage and Missouri Indians: Analysis of plant remains from historic village sites. Pp. 173-196 In *New World Paleoethnobotany: Collected Papers in Honor of Leonard Blake*. Edited by E. Voigt and D. M. Pearsall. Vol. 47, *Missouri Archaeologist*.

1989 **Pearsall, D. M.** Appendix C. Plant Utilization at the Krum Bay Site, St. Thomas USVI. Pp. 290-361 in *Preceramic Procurement Patterns at Krum Bay, Virgin Islands*, by Emily Ruth Lundberg. Unpublished Ph D Dissertation (Anthropology), University of Illinois, Urbana.

1988 **Pearsall, D. M.** An overview of Formative Period subsistence in Ecuador: palaeoethnobotanical data and perspectives. In *Diet and Subsistence: Current Archaeological Perspectives*. Edited by B. V. Kennedy and G. M. LeMoine. Proceedings of the Nineteenth Chacmool Conference, Archaeological Association of the University of Calgary. Pp. 149-158.

1988 **Pearsall, D. M.** Interpreting the meaning of macroremain abundance: The impact of source and context. Pp. 97-118 in *Current Paleoethnobotany: Analytical Methods and Cultural Interpretations of Archaeological Plant Remains*. Edited by C. Hastorf and V. Popper. University of Chicago Press.

1987 **Pearsall, D. M.** Evidence for prehispanic maize cultivation on raised fields at Peñón del Río, Guayas, Ecuador. In *Pre-Hispanic Agricultural Fields in the Andean Region. Part ii*, edited by W. M. Denevan, K. Mathewson, and G. Knapp. BAR International Series 359 (ii). Pp. 279-295.

1986 **Pearsall, D. M.** Phytolith Analysis of Soil from the Lubuk (I-1982-W5) and Bekes (I-1982-X5) Sites, Mountain Province, Philippines. In *On the Evolution of Agriculture in Central Bontoc*, by Connie Cox Bodner. Unpublished Doctoral Dissertation (Anthropology) University of Missouri-Columbia, Appendix 2, pp. 526-586.

1984 **Pearsall, D. M.** Analysis of phytolith content in selected soil samples. In *Subsistence and Conflict in Kona, Hawaii*. Department of Anthropology, Bernice P. Bishop Museum. Report 1984-1, Pp. 397-407.

1983 **Pearsall, D. M.** and M. K. Trimble. Phytolith analysis of soil samples. Report 18 in *Archaeological Investigations of the Mudlane-Waimea-Kawaihae Road Corridor, Island of Hawaii*. J. T. Clark and R. V. Kirch, editors, Department of Anthropology, Bernice P. Bishop Museum, Report 83-1, pp. 471-497.

1982 **Pearsall, D. M.** Analysis of floral remains. In *Archaeological Investigations at the Kingfish Site, St. Clair County, Illinois*. N. H. Lopinot, M. D. Hutto, and D. P. Braun. Southern Illinois University Center for Archaeological Investigations, Research Paper 25, pp. 145-159.

1980 **Pearsall, D. M.** Pachamachay ethnobotanical report: Plant utilization at a hunting base camp. Pp. 91-231 in J. W. Rick: *Prehistoric Hunters of the High Andes*. New York: Academic Press.

1978 **Pearsall, D. M.** Paleoethnobotany in western South America: Progress and problems. In *The Nature and Status of Ethnobotany*, edited by R. I. Ford. Anthropological Papers, Museum of Anthropology, University of Michigan, No. 67:389-416.

**Book Reviews, Encyclopedia Articles, Abstracts**

2019 **Pearsall, D. M.** Invited review of *Agricultural Sustainability and Environmental Change at Ancient Gordion*. John M. Marston. Philadelphia: University of Pennsylvania Press, 2017. *Journal of Anthropological Research*, Spring 2019, 143-144.

2015 **Pearsall, D. M.** Paleoethnobotany. Pp. 456-461 in *International Encyclopedia of the Social and Behavioral Sciences, Second Edition, Volume 17*. Edited by James D. Wright. Elsevier, Oxford.

2014 **Pearsall, D. M.** Biographical entry: Stahl, Peter W. in C. Smith (ed.) *Encyclopedia of Global Archaeology*. Springer Science + Business Media, New York.

2012 **Pearsall, D. M.** Earl Henry Lubensky (March 31, 1921-May 1, 2009). Obituary. *Andean Past* 10: 1-11.

2009 **Pearsall, D. M.** Invited review of *Palaeoethnobotany of Princess Point, Lower Great Lakes Region, Southern Ontario, Canada.* Della Saunders. Oxford: Archaeopress, 2008, 118 pp. *Holocene* 19: 679-680.

2008 **Pearsall, D. M.** Plant Domestication. Volume 3, pp. 1822-1842 In *Encyclopedia of Archaeology*. D. M. Pearsall, General Editor. Academic Press, San Diego and Oxford, UK. Three volumes.

2007 Pearsall, D. M. Invited review of Torrence, Robin and Barton, Huw, Eds, *Ancient Starch Research. Journal of Anthropological Research* 63: 294-295.

2006 **Pearsall, D. M.** Plants of the Americas and their adoption elsewhere. In *The Oxford Companion to Exploration*. David Buisseret, Editor-in-Chief. Oxford University Press.

2006 **Pearsall, D. M.**, K. Chandler-Ezell, and J. Zeidler. How important was agriculture in prehistoric Ecuador? Insights from new phytolith and starch research at Real Alto. Abstract published in *Ameghiniana, Revista de la Asociación Paleontológica Argentina*, 43(4): 11.

2006 **Pearsall, D. M.** From foraging to planting. Invited review of Kennett, D. J. and Winterhalder, B., Eds, *Behavioral Ecology and the Transition to Agriculture*. *Science* 313:173-4.

2006 **Pearsall, D. M**. Invited review of Lentz, David L. and Ruth Dickau, 2005, *Seeds of Central America and Southern Mexico, The Economic Species.* *Economic Botany* 60:199.

2002 **Pearsall, D. M**. The State-of-the-Art of Phytolith Analysis: An International Perspective. Invited review of Pinilla, Juan-Tresserras, and Machado, eds; Meunier and Colin, eds. *The Review of Archaeology* 23(1): 22-26.

2000 **Pearsall, D. M.** Phytolith analysis. Pp. 485-492 in *Archaeological Method and Theory: An Encyclopedia*, edited by Linda Ellis. Garland Publishing, Inc. New York.

1995 **Pearsall, D. M.** *Paleonutrition. The Diet and Health of Prehistoric Americans*. Kristin D. Sobolik, editor. Center for Archaeological Investigations, Southern Illinois University at Carbondale, Occasional paper No. 22. 1994. Reviewed for *American Anthropologist*.

1993 **Pearsall, D. M.** Phytoarchaeology. Robert R. Brooks and Dieter Johannes. Historical, Ethno-and Economic Botany Series, Vol. 3 (Theodore R. Dudley, general editor). Portland, OR: Dioscorides Press. 1990. 224 pp. Reviewed for *American Anthropologist*.

1993 **Pearsall, D. M.** *Agriculture and the Onset of Political Equality before the Inka*. Christine A. Hastorf. Cambridge: Cambridge University Press. 1993. Reviewed for *Antiquity*.

1992 **Pearsall, D. M.** *Monte Verde. A Late Pleistocene Settlement in Chile. Volume 1. Palaeoenvironment and Site Context*. by Tom D. Dillehay. Smithsonian Institution Press. 1989. Reviewed for *The Latin American Anthropology Review, Vol. 2, No. 2*.

1989 **Pearsall, D. M.** *Phytolith Analysis. An Archaeological and Geological Perspective*. by Dolores R. Piperno. Academic Press. 1988. Reviewed for *American Antiquity*.

1986 **Pearsall, D. M.** *Plants, People, and Paleoecology*. by Frances B. King. Illinois State Museum, Scientific Papers, Volume 20. 1984. Reviewed for *Missouri Archaeological Society Quarterly*.

**Symposia and Conferences Organized**

Invited co-organizer with M.D. Kajale, C. Gosden, and J. Hather of Theme 8, **“Change in**

**Agrarian Systems,”** and presenter at the Third World Archaeology Congress (WAC-3), New Delhi, India, December 1994. Organizer of sub-theme **“Innovation in Subsistence Systems in the New World.”**

Symposium organizer and presenter, **“In Search of the Jama-Coaque Chiefdom: Interdisciplinary Perspectives on Regional Environment, Settlement Dynamics, and Agricultural Production in Northern Manabi, Ecuador,”** 1991 Society for American Archaeology Meetings, New Orleans.

Co-organizer with Dolores R. Piperno and presenter at the conference **“Towards an Assessment**

**of the Role of Phytolith Analysis,”** January 1989, Columbia, Mo. Supported by grants from the Wenner-Gren Foundation and MU Arts and Science College.

Program and conference organizer, **14th Annual Midwest Conference on Andean and Amazonian Archaeology and Ethnohistory**, February 1986, Columbia, MO.

Program and conference organizer, **Fourth Ethnobiology Conference**, March 1981, Columbia, MO.

Program and conference co-organizer with Alice Benfer and Robert Benfer, **9th Annual**

**Midwestern Conference on Andean and Amazonian Archaeology and Ethnohistory**, February 1981, Columbia, MO

Co-organizer, with Christine Hastorf, of the symposium **“South American Paleoethnobotany:**

**the Application of Techniques and Data to Questions of Cultural Process,”** and presentor, 46th Annual Meeting of the Society for American Archaeology, San Diego, 1981

**Major Invited Presentations**

**Invited lecture,** “Early Agriculture in the Americas: Insights from Paleoethnobotany,” for the Geology and Geophysics seminar series, Missouri University of Science and Technology, Rolla. October 29, 2012

**Invited lecture,** “Food and Society at Real Alto, a Prehistoric Community in SW Coastal

Ecuador,” for the Horning Lecture Series 2010/2011, The Historical Sciences. Horning Endowment in the Humanities. Organized by Anita Guerrini, Oregon State University, May 12, 2011. Presented again as an invited lecture in the Archaeology Lecture Series, Department of Anthropology, Washington University, St. Louis, 11/11/11.

**Invited participant and discussant,** “Curating paleoethnobotanical specimens and botanical

 reference collections.” Prepared for the workshop, “Biocultural Collections: Establishing

Curation Standards,” organized by Jan Salick and Katie Konchar. Held in conjunction with the joint Botanical Society of America/Society of Economic Botany meetings, St. Louis, 7/11

**Invited workshop co-leader,** Workshop A, Definitions and Concepts (Leaders D. M. Pearsall

and Wayne Law), at the Second William L. Brown Symposium, “Ethnobotany: Integrating Biology and Traditional Knowledge,” Missouri Botanical Garden, Nov. 7-8, 2008.

**Invited participant and discussant,** A Conversation on Early Agriculture, Department of

Anthropology, SUNY Plattsburgh, Plattsburgh, NY, October 5-7, 2007. Organized and led by Mark Cohen. Presentation: “The long transition to agriculture in the New World: Theoretical and methodological issues.”

**Invited presentation and workshop**, Third South American Meeting on Phytolith Research,

Tucumán, Argentina. March 16-18, 2005. Presentation: Pearsall, Deborah M., K. Chandler-Ezell, and J. Zeidler, “How important was agriculture in prehistoric Ecuador? Insights from new phytolith and starch research at Real Alto.”

**Plenary Address**, Phytolith and Starch Conference, Centre for Archaeological Research,

Australian National University, Canberra. August 2001. Title: “Integrating Biological Data: Phytoliths and Starch Grains, Health and Diet, at Real Alto, Ecuador.”

Invited lecturer in the Archaeology Lecture Series, Department of Anthropology, University of

California, Berkeley, November 2000. Title: “Environmental coring in Pacific coastal Guatemala: Investigations into prehistoric forest modification.”

Invited participant in the Plenary Session, **Ethnobiology Conference**, University of Michigan,

 Ann Arbor, March 2000.

Invited participant in the Forum, “Issues in Paleoethnobotanical analysis and interpretation:

Macro and micro approaches,” 62nd Annual Meeting of the **Society for American Archaeology**, Nashville. April 1997

Invited participant and presenter in the Plenary Session, **Ethnobiology Conference**, University

 of Georgia, Athens. March 1997.

Invited participant and presenter, **Dumbarton Oaks Conference on the Ecuadorian**

**Formative**, organized by Scott Raymond and Richard Burger. October 7-8, 1996. Washington, D. C.

**Brittingham Visiting Scholar** (Enhancement of Undergraduate Education Program),

Department of Anthropology, University of Wisconsin-Madison. Two lectures on the origins of agriculture. October 20-22, 1993.

Invited participant and presenter, **School of American Research Advanced Seminar** on “The

Transition to Agriculture,” organized by T. Douglas Price. Held May 31-June 4, 1992. Santa Fe New Mexico.

Invited participant and presenter, **Workshop on the Reconstruction of Prehispanic Diets**.

Lima, Peru. March 18-22, 1991. Sponsored by the Bioanthropology Foundation, Jane E. Buikstra, University of Chicago.

Invited participant and presenter, “Modern Techniques and Applications in the Archaeobotany of

 Tropical Agriculture” symposium, **World Archaeological Congress**, Barquisimeto Venezuela, September 1990.

Instructor, **Workshop on Paleoethnobotany**. Smithsonian Tropical Research Institute, Panama. February 13-17, 1989.

**Invited lecturer**, Trent University, Petersborough, Canada, December 1983. Two lectures

 concerning the role of ethnobotany in archaeology

**Visiting Research Professor**, Escuela Técnica de Arqueología, Escuela Politécnica del Litoral, Guayaquil, Ecuador. June-December, 1982.

**Visiting Research Professor**, Escuela Técnica de Arqueología, Escuela Politécnica del Litoral, Guayaquil, Ecuador. June-July, 1981

# **Other Professional Activities**

**Consultant** for phytolith analysis, including training of research assistant, for Kris Gremillion,

 Ohio State University, 2000-2001.

**Consultant** for ethnobotanical field recovery procedures and phytolith analysis, Origins of

Agriculture in China Project, directed by Richard S. MacNeish, Andover Foundation. 1992-1996.

**Papers Delivered at Professional Meetings** \*Invited paper

\*2024/2025 **Pearsall, D. M.** Madera carbonizada, fitolitos, granos de almidón y polen cuentan la

historia de la agricultura de bosque tropical temprana en Real Alto/Charred wood, phytoliths, starch grains, and pollen tell the story of early Tropical Forest Agriculture at Real Alto. Paper to be presented at two symposia commemorating the 50th anniversary of the excavations at Real Alto (9/24, Guayaquil) and the contributions of Donald W. Lathrap (2025 SAA meetings)

\*2015 **Pearsall, D. M.** The nature and status of paleoethnobotany: Methods and approaches for understanding site formation processes. Society for American Archaeology Meetings, San Francisco.

\*2014 Pearsall, D. M. Establishing a regional phytolith database: Experiences from the “Phytoliths in the Flora of Ecuador” project. Society for American Archaeology Meetings, Austin.

\*2012 **Pearsall, D. M.** Discussant for Fryxell Symposium honoring Christine A. Hastorf, Society for American Archaeology Meetings

2011 **Pearsall, D. M.** Arrowroot and Leren: The archaeology of two Neotropical root crops. Paper presented at the Annual Midwest Conference on Andean and Amazonian Archaeology and Ethnohistory, Columbia, MO. February 2011.

\*2011 **Pearsall, D. M.** Formation processes of pollen and phytoliths. Pre-circulated paper for the forum “Method and Theory in Paleoethnobotany,” organized by J. M. Marston, J. d’Alpoim Guedes, and C. Warinner. Society for American Archaeology Meetings.

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