

# CURRICULUM VITAE

## W. H. WILLS

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Professor

Department of Anthropology

University of New Mexico, Albuquerque, NM 87131

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### EDUCATIONAL HISTORY

University of Michigan, Ph.D., Anthropology, 1985

Dissertation Title: Early Agriculture in the Mogollon Highlands of New Mexico

Dissertation Chair: R.I. Ford

University of Michigan, M.A., Anthropology, 1980

University of New Mexico, B.A., Anthropology, 1977

Virginia Polytechnic Institute and State University, Geology and History, 1973-75

### PRINCIPAL PROFESSIONAL POSITIONS

2001 to present University of New Mexico, Professor of Anthropology

1993 to 2001: University of New Mexico, Associate Professor of Anthropology

1986 to 1993: University of New Mexico, Assistant Professor of Anthropology

1977 to 1978 Research staff member, Division of Remote Sensing, National Park Service

1976 to 1978: Staff archaeologist: National Park Service, Chaco Center, Albuquerque

### TEMPORARY PROFESSIONAL POSITIONS

2017 to 2018: Science Advisory Board, National Geographic Society

2010 to 2016: National Geographic Society Committee for Research and Exploration  
2002 to 2017: Research Associate, Museum of Natural History, Smithsonian Institution  
2000 to 2001: University of Virginia, Visiting Professor of Anthropology  
1978 to 1984: University of Michigan, Research Assistant, Teaching Assistant, Adjunct Lecturer  
1982: Staff Archaeologist, Center for Archaeological Investigations, Southern Illinois University

#### FELLOWSHIPS, AWARDS AND POST-DOCTORAL RESEARCH

Phi Beta Kappa

Sigma Xi (1987)

Phi Alpha Theta

Snead-Wertheim Lectureship, University of New Mexico, Departments of History and Anthropology, 2002-2003

United States Department of the Interior Excellence of Service Award, March, 2001

Smithsonian Institution Short-Term Visitor Award, 2000

College of Arts and Sciences Research Semester Award, 1998

Regents Lectureship, University of New Mexico, 1992-1994

Visiting Scholar, Department of Archaeology, Cambridge University, March-May, 1989

Presidential Recognition Award, University of New Mexico, 1988

Smithsonian Institution Post-doctoral Fellowship, 1985-1986

Weatherhead Fellowship, School of American Research, 1984-1985

Loundsberry Fellowship, American Museum of Natural History, 1982

James B. Griffin Award, University of Michigan, 1982

National Science Foundation Fellowship Honorable Mention 1978

Departmental Honors, University of New Mexico, 1977

University Academic Scholarship, University of New Mexico, 1977

## PROFESSIONAL MEMBERSHIPS

Society for American Archaeology

American Association for the Advancement of Science

American Anthropological Association

Sigma Xi

Arizona Archaeological and Historical Society

## PROFESSIONAL SERVICE (exclusive of journal/grant reviews)

Editorial Board, Journal of Anthropological Research, 2016 to present

Editorial Board, Journal of World Prehistory, 1989-2000

Southwest Symposium Board, 1994-96

Editorial Committee, Annual Review of Anthropology, 1993

Crow Canyon Archaeological Center Field Seminar Leader, 1991, 1992, 1994, 1995

Archaeological Society of New Mexico, Trustee,

Museum of New Mexico Consultation, 1996

Tenure Reviews (multiple universities and the Smithsonian Institution)

## UNIVERSITY SERVICE

Honors College Task Force

Provost's Tenure and Promotion Committee

College of Arts and Sciences Tenure and Promotion Committee

Research Allocation Committee

Research Properties Committee – Office of the Vice President for Research

Phi Beta Kappa Selection Committee

Student Conduct Committee

Board of Archaeologists

Quaternary Studies Committee (Earth and Planetary Sciences, Anthropology and Geography)

Freshman Learning Communities (Hewett Foundation)

Freshman Seminar (College of Arts and Sciences)

STEM Collaborative Center

Maxwell Museum Director Search Committee

College of Arts and Sciences Sabbatical Committee

#### DEPARTMENTAL SERVICE

Advisory Committee

Subfield Convenor

Tenure and Promotion (Chair)

Promotion (Chair)

Annual Reviews (Chair)

Tenure Track Position Search (Chair)

Anthro 2000 Planning Committee (Chair)

Long-range Planning Committee (Chair)

Resources Committee (Chair)

Salary Committee

#### RESEARCH, TEACHING AND SERVICE INTERESTS

I am an archaeologist and my research concerns the emergence of new socioeconomic organization in the past, especially with respect to agriculture and food production. Since coming to the University of New Mexico, my field work has been in the American Southwest, primarily in New Mexico. This field research has been fundamental to my work in four major problem areas; 1) the introduction of agriculture during the Late Archaic period (ca. 4000 to 3000 B.C.), 2) the emergence of village communities during the Early Ceramic period (ca. A.D. 200 to 500), 3) the development of hierarchically complex corporate groups after A.D. 1000 in the Colorado Plateau, and 4) the formation of Hispanic irrigation communities during the 18th century in the northern Rio Grande Valley. Although these research problems represent widely different time periods, my approach to each has been based on a common theoretical perspective

in which broad patterns of economic change are explained as the product of interaction among relatively small social groups. My early research involving the transition from foraging to food production focused heavily on the application of models derived from behavioral ecology, but as my interests have grown to include more complicated social formations, I have been drawn increasingly into theoretical areas involving complex systems. My work has been supported by the National Science Foundation, the National Geographic Society, the Wenner-Gren Foundation, the Smithsonian Institution, Sandia National Laboratories, the Western National Parks Association and the American Philosophical Society.

## SCHOLARLY ACHIEVEMENTS

### MUSEUM EXHIBITS

Guest Curator: 1988-1993

"People of the Southwest" permanent gallery, Maxwell Museum of Anthropology  
National Endowment for the Humanities grant.

### PUBLICATIONS:

Books authored:

1988

**Early Prehistoric Agriculture in the American Southwest**  
School of American Research Press

Books edited or co-edited:

1994

(W.H. Wills and Robert D. Leonard, eds.)

**The Ancient Southwestern Community: Models and Methods for the Study of Prehistoric Social Organization** University of New Mexico Press (out-of-print)

1980 (reprinted in 1992)

(F.E. Smiley, C.M. Sinopoli, H.E. Jackson, W.H. Wills and S.A. Gregg, eds.)

**The Archaeological Correlates of Hunter-Gatherer Societies: Studies from the Ethnographic Record.** Michigan Discussions in Anthropology, Vol. 4. Ann Arbor.

Monographs authored:

1980

(Thomas R. Lyons, Robert K. Hitchcock, and Wirt H. Wills)

**Remote Sensing Aerial Anthropological Perspectives: A Bibliography of Remote Sensing in Cultural Resource Studies.** Supplement No. 3 to Remote Sensing: A Handbook for Archaeologists and Cultural Resource Managers. National Park Service, Washington, D.C.

Articles in refereed journals:

In press Stable Oxygen Isotope Sourcing of Archaeological Fauna from Chaco Canyon, New Mexico. Authors: Hamilton, M., B. L. Drake, W. H. Wills, E. Jones, C. Conrad and P. L. Crown *American Antiquity*

2017 Water Management and the Political Economy of Chaco Canyon During the Bonito Phase (ca. AD 850 to 1200).

*Kiva: The Journal of Southwestern Anthropology and History*

2016 (W. H. Wills, David E. Love, Susan J. Smith, Karen R. Adams, Manuel R. Palacios-Fest, Wetherbee B. Dorshow, Beau G. Murphy, Hannah V. Mattson, and Patricia L. Crown) Water Management at Pueblo Bonito: Evidence from the National Geographic Society Trenches. *American Antiquity* 81(3):4449-470.

2014 (W.H. Wills, Brandon L. Drake, and Wetherbee B. Dorshow). Prehistoric Deforestation at Chaco Canyon? *Proceedings of the National Academy of Sciences* 111(32):11584-11591.

2014 (Drake, B.L., W. H. Wills, W. H., M. Hamilton, and W.B. Dorshow). Strontium Isotopes and the Reconstruction of the Chaco Regional System.: Evaluating Uncertainty with Bayesian Mixing Models. *PLoS ONE* 9(5)e95580.

2012 On the Trail of the Lonesome Pine: Archaeological Paradigms and the Chaco “Tree of Life.”

*American Antiquity* 77:478-497.

2012 (B. Lee Drake, W. H. Wills and Erik Erhardt)

The 5.1 ka Aridization Event, Expansion of Pinon-Juniper Woodlands, and the Introduction of Maize (*Zea mays*) to the American Southwest. *The Holocene* 22(12):1353-1360.

2012 (W. H. Wills, F. Scott Worman, Wetherbee B. Dorshow, and Heather Richardes-Rissetto). Shabik’eschee Village in Chaco Canyon: Time to Move Beyond the Archetype.

*American Antiquity* 77:326-350.

2012 (W. H. Wills and Wetherbee B. Dorshow)  
Agriculture and Community in Chaco Canyon: Revisiting Pueblo Alto. *Journal of Anthropological Archaeology* 31:138-155.

2009  
The Construction of Archaeological Histories: A Example from Chaco Canyon  
*Journal of Archaeological Method and Theory* 16:283-319

2006  
Review Article  
The Late Archaic Across the Borderlands: From Foraging to Farming, ed. by B. Vierra.  
*Kiva* 73:121-129.

2003  
(Patricia L. Crown and W. H. Wills)  
Modifying Pottery and Kivas at Chaco: Pentimento, Restoration, or Renewal?  
*American Antiquity* 68:511-532.

2001  
Pithouse Architecture and the Economics of Household Formation in the Prehistoric Southwest  
*Human Ecology* 29:477-500

2001  
Ritual and Mound Formation during the Bonito Phase in Chaco Canyon  
*American Antiquity* 66:433-452.

1996  
The Preceramic to Ceramic Transition in the Mogollon Highlands of Western New Mexico  
*Journal of Field Archaeology* 23:335-359.

1995  
(Patricia L. Crown and W.H. Wills)  
The Origins of Ceramic Containers: Women's Time Allocation and Economic Intensification  
*Journal of Anthropological Research* 51(2):173-186.

1994  
Recent Evidence for the Introduction of Maize to the American Southwest from Mesoamerica  
*Revista de Arqueologia Americana* 7:87-97.

1989  
(W.H. Wills and Thomas C. Windes)

Evidence for Population Aggregation and Dispersal during the Basketmaker III Period in Chaco Canyon, New Mexico  
*American Antiquity* 54(2):347-369.

1989  
Patterns of Prehistoric Agricultural Development in Western New Mexico  
*Journal of Anthropological Research* 45(1):139-157.

1988  
Early Agriculture and Sedentism in the American Southwest: Evidence and Interpretations  
*Journal of World Prehistory* 2(3):445-488.

Peer-reviewed web articles:

2015  
Arroyo Hondo in Historical Context: Competition with Non-farmers. In **Arroyo Hondo Pueblo Project: A Comprehensive Review and Evaluation**. School for Advanced Research (<http://www.arroyohondo.org/>)

Articles Appearing as chapters in edited volumes:

In press Commensal Politics and Economic Decline: An Example from Chaco Canyon, New Mexico. Archaeological Society of New Mexico, Papers in Honor of Thomas C. Windes and Peter J. McKenna.

2017 Preface. Oshara Revisited: The Archaic Period in Northern New Mexico, by Nicholas Chapin, pp. xiii-xiv. Maxwell Museum of Anthropology, Anthropological Papers No. 10. University of New Mexico, Albuquerque.

2016 (W. H. Wills with Adam Okun). Chipped Stone from the Pueblo Bonito Mounds. In **The Pueblo Bonito Mounds of Chaco Canyon**, edited by Patricia L. Crown, pp. 131-150. University of New Mexico Press, Albuquerque.

2012 Pithouses, Property Rights, and Household Organization in the Prehispanic Southwest. In **Southwestern Pithouse Communities, AD 200-900**, edited by Lisa C. Young and Sarah A. Herr, pp. 183-197. The University of Arizona Press, Tucson.

2007 The Structural Role of Pithouses: Architectural Variation in the Mogollon Highlands, A.D. 1000 to 1300. In **Exploring Variability in Mogollon Pithouses**, edited by B. Roth and R. Stokes, pp. 93-107. Arizona State University Anthropological Research Papers No. 58, Tempe.

2005



Economic Competition and Agricultural Involution in the Precontact American Southwest. In **Catalyst for Ideas: Anthropological Archaeology and the Legacy of Douglas W. Schwartz**. Edited by V. Scarborough, pp. 41-68. School of American Research Press, Santa Fe.

2005 (George Milner and W. H. Wills)  
Complex Societies of North America.

In **The Human Past: World Prehistory and the Development of Human Societies**.

Edited by Chris Scarre, pp. 678-714. Thames and Hudson. (revised and reprinted in 2009, 2016).

2004 (W. H. Wills and Patricia L. Crown)

Commensal Politics in the Prehispanic Southwest: An Introductory Review.

In **Identity, Feasting and the Archaeology of the Greater Southwest**,

edited by B. J. Mills, pp. 152-171. University Press of Colorado, Boulder.

2000

Political Leadership at Chaco Canyon, New Mexico, AD 1020 - 1140. In

**Alternative Leadership Strategies in the American Southwest**, edited by

Barbara J. Mills, pp. 19-44. University of Arizona Press, Tucson.

1997

A Preliminary Analysis of Hammerstones from Chaco Canyon, New Mexico

In **Ceramics, Lithics and Ornaments of Chaco Canyon, Analyses of Artifacts**

**from the Chaco Project, 1971-1978**, ed. by J. Mathien, pp. 947-976.

Publications in Archaeology 18G, National Park Service, Santa Fe.

1995

Archaic Foraging and the Beginning of Food Production in the American Southwest

In **Last Hunter-First Farmers: New Perspectives on the Prehistoric Transition to**

**Agriculture**, edited by T.D. Price and A. Gebauer, pp. 215-242. School of American Research Press, Santa Fe.

1995

(Patricia L. Crown and W.H. Wills)

Economic Intensification and the Origins of Southwestern Pottery.

In **The Emergence of Pottery**, edited by W. Barnett and J. Hoopes, pp. 241-256.

Smithsonian Institution Press, Washington, D.C.

1994

Evolutionary and Ecological Modeling in Southwestern Archaeology

In **Understanding Complexity in the Prehistoric Southwest**, ed. by G.

Gumerman, pp. 287-296. Addison-Wesley. (out-of-print)

1994

(W.H. Wills, Patricia L. Crown, Jeffery S. Dean, and C. Langton)

Complex Adaptive Systems and Southwestern Prehistory

In **Understanding Complexity in the Prehistoric Southwest**, ed. by G. Gumerman, pp. 297-340. Addison-Wesley. (out-of-print)

1994

(W.H. Wills and Bruce B. Huckell)

Economic Implications of Changing Land-Use Patterns in the Late Archaic

In **Themes in Southwestern Prehistory**, ed. by G. Gumerman and Linda Cordell, pp. 33-52. School of American Research Press, Santa Fe.

1994

(W.H. Wills and Robert D. Leonard)

Preface

In **The Ancient Southwestern Community: Models and Methods for the Study of Prehistoric Social Organization**, ed. by W.H. Wills and R. D. Leonard, pp. xiii-xvi. University of New Mexico Press, Albuquerque.

1992

Plant Cultivation and the Evolution of Risk-Prone Economies in the Prehistoric American Southwest.

In **Transitions to Agriculture**, ed. by T.D. Price and A. Gebauer, pp. 153-176. Monographs in World Prehistory, No. 4. Prehistory Press, Madison, WI.

1991

Organizational Strategies and the Emergence of Villages in the American Southwest

In **Between Bands and States**, ed. by S. Gregg, pp. 161-180. Southern Illinois University Press.

1990

Cultivating Ideas: Changing Intellectual Perspectives on the Introduction of Agriculture to the American Southwest. In **Perspectives on Southwestern Prehistory**, ed. by Paul E. Minnis and C.L. Redman, pp. 319-332. Westview Press, Boulder.

1990

(W.H. Wills, T. Baker and L. Baker)

Aerial Perspectives on Prehistoric Agricultural Fields of the Middle Rio Grande Valley, New Mexico. In **Collected Papers in Honor of William Sundt**, ed. by David Kirkpatrick, pp. 315-332. Archaeological Society of New Mexico, Paper No. 16. Albuquerque.

1984

Arizona d:11:2126: An Early Basketmaker Settlement. In **Excavations on Black Mesa: 1982: A Descriptive Report**. D. Nichols and F. Smiley (eds.) Center for Archaeological Investigations Research Paper No. 39, Southern Illinois University, Carbondale.

1984

Arizona D:11:3131: Multiple Reoccupations of a Basketmaker II Settlement. In **Excavations on Black Mesa: 1982: A Descriptive Report**. D. Nichols and F. Smiley (eds.) Center for Archaeological Investigations Research Paper No. 39, Southern Illinois University, Carbondale.

1981

A Remote Sensing Assessment of Ninety-Six National Historic Site, South Carolina In **Remote Sensing Studies in Cultural Resource Management**, ed. by T. Lyons and J. Mathien, pp. 229-292. National Park Service, Washington, D.C.

1980

Ethnographic Observation and Archaeological Interpretation: The Wikmunkan of Cape York Peninsula, Australia In **The Archaeological Correlates of Hunter-Gatherer Societies**, ed. by F.E. Smiley, C. Sinopoli, H.E. Jackson, W.H. Wills and S. Gregg, pp. 78-99. Michigan Discussions in Anthropology, Vol. 4. Ann Arbor.

#### PUBLICATIONS UNDER REVIEW:

Pueblo Bonito's Foundation (submitted)  
P. Crown and W. H. Wills  
Special issue of *Antiquity*, 2017, Barbara J. Mills, editor

#### INVITED PUBLICATIONS IN PREPARATION:

Chaco Farming in 3D  
W. H. Wills, Wetherbee B. Dorshow, and Jennie Sturm  
*Archaeology Southwest*

The Second Time Around: New Views from Old Excavations  
Patricia L. Crown and W. H. Wills  
*Archaeology Southwest*

#### PUBLICATIONS IN PREPARATION:

A Three Dimensional Reconstruction of the Pueblo Bonito Mounds  
W. H. Wills, Beau G. Murphy, and Heather Rissetto-Richards

Dating the Bonito Paleo-channel: Implications for Late Bonito Phase Occupation  
in Chaco Canyon.  
W. H. Wills and Patricia L. Crown

Trees in Chaco: Needling the Models.

#### ENCYCLOPEDIA CONTRIBUTIONS:

2009 Bat Cave, West Central New Mexico: The Long and Complex History of  
Rockshelter Use. In **Archaeology in America: An Encyclopedia, Vol. 3,  
Southwest and Great Basin/Plateau**, edited by Francis P. McManamon, pp.58-  
60. Greenwood Press, Westport, Connecticut.

2009 Shabik'eschee Village Site, Chaco Canyon, New Mexico: Early Agriculture  
on the Colorado Plateau. In **Archaeology in America: An Encyclopedia, Vol. 3,  
Southwest and Great Basin/Plateau**, edited by Francis P. McManamon, pp.64-  
65. Greenwood Press, Westport, Connecticut.

2009 The SU Site, Southwest New Mexico: Early Agriculture and Pit House  
Villages in the Mogollon Highlands. In **Archaeology in America: An  
Encyclopedia, Vol. 3, Southwest and Great Basin/Plateau**, edited by Francis P.  
McManamon, pp.65-68. Greenwood Press, Westport, Connecticut.

2001 Middle Desert Archaic. **Encyclopedia of Prehistory, Vol. 6: North  
America**. Edited by Peter N. Peregrine, pp. 306-317.

1996 Bat Cave. **Archaeology of Prehistoric North America**. Garland  
Publishing. Edited by Guy Gibbon, pp. 53-55.

1996 Tularosa Cave. **Archaeology of Prehistoric North America**. Garland  
Publishing. Edited by Guy Gibbon, pp. 848-850.

1995 Bat Cave. **Oxford Companion to Archaeology**. Oxford University Press

1995 Cochise Culture. **Oxford Companion to Archaeology**. Oxford University  
Press.

## REVIEWS:

2011 Leaving Mesa Verde: Peril and Change in the Thirteenth-Century Southwest, ed. By T. A. Kohler, M. D. Varien, and A. M. Wright, New Mexico Historical Review.

1999 Anasazi Architecture and American Design, ed. by B. Morrow and V. B. Price New Mexico Historical Review April:233-234.

1996 Of Marshes and Maize: Preceramic Settlements in the Cienega Valley, Southeastern Arizona, by Bruce B. Huckell The Kiva 62(2):207-210.

1989

People of the Mesa, by Shirley Powell and George Gumerman  
American Anthropologist 91:262-263

1988 The Star Lake Archaeological Project: Anthropology of a Chaco Headwaters, edited by Walter Wait and Ben Nelson. The North American Anthropologist 9:158-164.

## OTHER WRITING:

2017 Introduction. **Oshara Revisited: The Archaic Period in Northern New Mexico**, by Nicholas Chapin. Maxwell Museum of Anthropology, Anthropological Papers No. 10, University of New Mexico, Albuquerque.

2016 In Memoriam: Douglas W. Schwartz, *The SAA Archaeological Record*, Vol. 16, No. 5, November.

2012 This Old Trench: The Chaco Stratigraphy Project, *Archaeology Southwest*, Vol. 26, No. 1.

1999 Bat Cave. *Archaeology Southwest*, Vol. 13, No. 2.

1990 An Archaeological Prospectus for the James Young Ranch, On file with the Vice-President for Business and Finance, University of New Mexico

## ORGANIZER; CONFERENCES AND SYMPOSIA:

2017 “Recent Analytical Contributions to Chacoan Archaeology,” Chair, Annual Meeting of the Society for American Archaeology, Vancouver, Canada.

2015 “It’s About Time: Contributions in Honor of Thomas C. Windes,” Chair, Annual Meeting of the Society for American Archaeology, San Francisco.

2010 NSF Team Seminar, School of Advanced Research, Santa Fe. Co-chair

2010 Pueblo Bonito Mounds Research: Formation Processes and Artifacts. Annual Meeting of the Society for American Archaeology, St. Louis. Organizer

2009 “The Chaco Stratigraphy Project: Ongoing Research and Preliminary Results,” Annual Meeting of the Society for American Archaeology, Vancouver. Organizer

2008 “Preliminary Results from Reopening of Trenches at Pueblo Bonito” Annual Meeting of the Society for American Archaeology. Organizer

2002 “Commensal Politics in the Prehispanic Southwest,” Session for the Southwest Symposium, University of Arizona. P.L. Crown and W.H. Wills, co-chairs.

1996 "Archaic Prehistory in the American Southwest." New Mexico Archaeological Council and University of New Mexico. Bruce Huckell and W.H. Wills, Co-organizers.

1991 "Northern Rio Grande Prehistory." School of American Research Advanced Seminar (Explorations). W.H. Wills, *Chair*.

1990 "Northern Rio Grande Prehistory." School of American Research Advanced Seminar (Explorations). W.H. Wills, *Chair*.

1990 "Prehistoric Community Dynamics." Southwest Symposium, Albuquerque. R.D. Leonard and W.H. Wills, Co-organizers.

## **RESEARCH FUNDING:**

### External Grants:

Archaeological Site Assessments Task Agreement, Chaco Culture National Historical Park  
PI: W. H. Wills  
\$20,000.00  
2016-2017

Supplemental Funding: Three Dimensional Landscape Reconstruction and Land Use Modeling at Chaco Canyon, New Mexico. PI W. H. Wills  
National Science Foundation  
\$7,704.00  
August 2016 – August 2017

Collaborative Research: Three Dimensional Landscape Reconstruction and Land Use Modeling at Chaco Canyon, New Mexico. PI W. H. Wills  
National Science Foundation  
\$162,886 (UNM), \$307,779 total  
July 2015 – August 2017

Archaeological Site Assessment Continuation in Chaco Culture National Historical Park  
P.I.s: W. H. Wills and Patricia L. Crown  
\$10,000.00  
Task Agreement with National Park Service, Colorado Plateau Studies Group

Archaeological Site Assessment in Chaco Culture National Historic Park.  
P.I.s: W. H. Wills and Patricia L. Crown  
Task Agreement with National Park Service, Colorado Plateau Studies Group  
\$92,000.00  
Sept. 2011 – December, 2012 (extension to June, 2013).

Archaeological Site Assessment in Chaco Culture National Historic Park.  
P.I.s W. H. Wills and Patricia L. Crown  
Task Agreement with National Park Service, Colorado Plateau Studies Group.  
\$ 44,000.00  
June 1, 2009 – December 30, 2010

Remote Sensing for Research and Resource Management at Pueblo Bonito, Chaco Culture National Historic Park.  
P.I. W. H. Wills  
Western National Parks Association (Award # 08-04)  
\$7,215.00  
Jan. 1 – Dec. 31, 2008

Continuing Excavation at Chaco Canyon, New Mexico.  
PI: W. H. Wills  
National Geographic Society (Award #  
\$28,000.00  
May, 2006

Reinvestigation of Archaeological Trenches Excavated by the National Geographic Society in Chaco Canyon, New Mexico

PI: W. H. Wills

National Geographic Society (Award # 7653-04)

\$25,000.00

May, 2004

REU Supplemental Award

P.I. W. H. Wills

National Science Foundation

2006

Archaeological Investigations at Chaco Canyon, New Mexico

PI: W. H. Wills

National Science Foundation

\$220,000.00 (two years, beginning May, 2005)

Chaco Culture Collections Database Development

PI: W. H. Wills

Western National Parks Association

January, 2003 \$7200.00 (three year renewable)

Analysis of the Hough Collection from Tularosa Cave

PI: W.H. Wills

Smithsonian Institution

June, 2000. \$2000.00

Agricultural Ecology of a Colonial Land Grant

PI: W.H. Wills

National Geographic Society

2000 - 2001. \$11,242.00

An Analysis of Archaeological Collections from the SU Site, Western New Mexico.

PI: W.H. Wills

American Philosophical Society

July, 1989. \$ 1,300.00

The Emergence of Agricultural Communities in the American Southwest.

PI: W.H. Wills

National Geographic Society

1988. \$5,000.00



Socioeconomic Organization of Early Agricultural Communities in Prehistoric New Mexico.

PI: W.H. Wills

Wenner-Gren Foundation for Anthropological Research, Inc.

1988 \$3,450.00

Southwest Gallery (Maxwell Museum of Anthropology)

PI: M.L. Salvador (W.H. Wills, Guest Curator)

National Endowment for the Humanities

1988-1990 \$337,744.00

1982 American Philosophical Society

1982 National Science Foundation Doctoral Improvement Grant (W.H. Wills)

1982 National Geographic Society (Richard I. Ford , John D. Speth and W. H. Wills)

1982 Sigma Xi Research Grant

1981 Sigma Xi Research Grant

Dissertation Improvement Grants (advisor):

A Remote Sensing Approach to Studying Prehistoric Land Use in Chaco Canyon, New Mexico.

Jennie Sturm

National Science Foundation

\$29,818.00

2016-2018

Simulating Dynamic Hydrological Processes in Archaeological Contexts: A Proposal for Airborne Laser Swath Mapping (ALSM) at Chaco Canyon.

Wetherbee Dorshow

NSF National Center for Airborne Mapping

\$40,000.00

February 2010 to December 2011

Doctoral Improvement grant to Edward Jolie

National Science Foundation

\$12,000.00

The Role of Cerros de Trincheras

Doctoral Improvement Grant to G. Raymond

National Science Foundation  
October, 2000. \$12,000.00

A Formal Analysis of Architectural Space in the Historic Zuni Settlement System  
Doctoral Improvement Grant for T.J. Ferguson  
National Science Foundation  
1987 \$10,000.00

External Contracts:

Hazardous Waste Analog Study  
PIs: R. C. Chapman and W. H. Wills  
Sandia National Laboratories  
1993-95. \$76,947.00

Internal Grants:

2014 VP Resarch competition (\$70,000.00 with Dr. Chris Lippitt, Dept. of Geography)  
2006 UNM Research Allocation Committee Grant  
2004 UNM Research Allocation Committee Grant  
2002 UNM Research Allocation Committee Grant  
1995 Dean's Special Research Fund  
1996 UNM Research Allocation Committee Large Grant  
1990 UNM Research Allocation Committee Large Grant  
1987 UNM Research Allocation Committee Grant  
1982 University of Michigan Block Grant  
1981 University of Michigan Travel Grant

FIELD RESEARCH:

Director or Co-Director:

2016-17 Landscape mapping and data recovery, Chaco Canyon  
2009-16 Site Assessment Survey, Chaco Canyon, New Mexico  
2007-16 Wetherill Trading Post Excavation Project, Chaco Canyon, New Mexico  
2004-08 Chaco Stratigraphy Project, Pueblo Bonito, Chaco Canyon, New Mexico  
2003 excavation, Canada de Cochiti Project, New Mexico  
survey, El Malpais National Monument, New Mexico  
2001 excavation and survey, Canada de Cochiti Project, New Mexico  
1998 survey, Canada de Cochiti Project, New Mexico  
1997 excavation and survey, Canada de Cochiti Project, New Mexico

- 1996 excavation and survey, Canada de Cochiti Project, New Mexico
- 1993-95 Fernandez Ruin midden study, Chupadero, New Mexico
- 1990-91 La Bajada Mesa survey, Canada de Cochiti survey, New Mexico
- 1987-89 excavation at the SU and Brown sites, Reserve, New Mexico
- 1983 excavation and survey, Bat Cave, New Mexico
- 1981 excavation, Bat Cave, New Mexico

Project Staff or Crew:

- 1986 testing program, northern Arkansas
- 1984 survey and testing, central Michigan
- 1982 excavation, Black Mesa Archaeological Project, Arizona
- 1981 excavation, Henderson Site, Roswell, New Mexico
- 1980 excavation, Fuller Road historical site, Ann Arbor, Michigan
- 1980 survey, Ohio River Valley, Ohio
- 1980 excavation, Henderson Site, Roswell, New Mexico
- 1979 testing program, Tierra Blanca site, Hereford, Texas
- 1979 excavation, Paleolithic rockshelters (Vaufrey, Flagolet I), Dordogne, France
- 1979 excavation, Moundville, Alabama
- 1979 survey and testing, Midland, Michigan
- 1978 Chaco Project, Chaco Canyon, New Mexico
- 1978 survey, Hubble Trading Post, Ganado, Arizona
- 1977 Chaco Project, Chaco Canyon, New Mexico
- 1976 Chaco Project, Chaco Canyon, New Mexico
- 1975 excavation, Comanche Springs site, New Mexico
- 1970 excavation, Smithfield Plantation, Blacksburg, Virginia
- 1967-70 excavations, Archaeological Society of Virginia projects
- 1967 excavation, Island Field site, Lewes, Delaware

Reports:

- 2007-17 various, National Park Service, National Geographic Society
- 2006 Archaeological Investigations at Pueblo Bonito. National Park Service, Washington, D.C.
- 2005 Archaeological Investigations at Pueblo Bonito. National Park Service, Washington, D.C.
- 2004 Archaeological Investigations at Pueblo Bonito. National Park Service, Washington, D.C., National Geographic Society
- 1997 Archaeological Survey in the Rio Chiquito Drainage: An Ongoing Class III Inventory of the James Young Ranch, Sandoval County, New Mexico. Submitted to the Historic Preservation Divison, State of New Mexico.
- 1995 Appendix 7: Catchment Study Proposal. In Second Progress Report: Phase I

Archaeological Testing at Fernandez Pueblo (LA 781). Office of Contract Archaeology, University of New Mexico, Albuquerque.

1990 Final Report to the National Geographic Society, for The Emergence of Agricultural Communities in the American Southwest

1990 Final Report of the University of New Mexico Investigations at the SU Site, Catron County, New Mexico. US Forest Service, Silver City, New Mexico.

1988 Preliminary Report of the University of New Mexico Investigations at the SU Site, Catron County, New Mexico. US Forest Service, Silver City, New Mexico.

1983 Preliminary Report of the Bat Cave Project. National Geographic Society.

1982 Preliminary Report of the Bat Cave Project. Bureau of Land Management, Socorro, New Mexico.

1977 An Alternative Perspective on Core-Veneer Masonry. Chaco Center, National Park Service, University of New Mexico, Albuquerque.

1977 Faunal Analysis of Pithouses A and D, 29SJ628, Chaco Canyon, New Mexico. Chaco Center, National Park Service, University of New Mexico, Albuquerque.

#### INVITED PROFESSIONAL LECTURES/PRESENTATIONS:

2017 National Park Service – University of New Mexico Partnership at Chaco Culture National Historical Park: Archaeological Research. Pre-Columbian Society of Washington, D.C. Sept. 16<sup>th</sup>.

2017 A Three Dimension Reconstruction of the Pueblo Bonito Mounds. Society for American Archaeology Meetings, Vancouver, B.C. (with B. Murphy and H. Risetto-Richards)

2017 Finding the Wetherill Trading Post in Chaco Canyon. Anasazi Heritage Center, Cortez, CO.

2016 Discussant, SAA

2016 Surprisingly Little Evidence for Water Control at Chaco Canyon: Implications for Emergent Complexity, Harvard University (March)

2014 Society for Applied Anthropology, Albuquerque, NM. (March).

2012 Workshop Leader. National Geographic Society Young Explorers Workshop, Montana State University, Bozeman (February).

2011 Discussant. Archaeoastronomy in the Southwest. Bi-Annual Archaeoastronomy Conference, Albuquerque (June).

2011 Questioning Assumptions: John Speth and the Roswell Incident. Society for American Archaeology Annual Meeting, Sacramento (April).

2011 Modeling Chaco. Santa Fe Institute (March), Santa Fe, NM.

2010 Discussant, SAA

2009 National Geographic Society Sponsored Research at Chaco Canyon. Committee on Research and Exploration, National Geographic Society, Washington, D.C.

2009 Discussant. Aztec, Salmon and the Northern San Juan. New Mexico Archaeological Council Annual Meeting, Albuquerque.

2009 Overview of the Chaco Stratigraphy Project. Annual Meeting of the Society for American Archaeology, Vancouver, B.C.

2008 The Chaco Stratigraphy Project: Reopening Archaeological Trenches at Pueblo Bonito. Southwest Seminars, Santa Fe, NM. (February)

2008 National Geographic Society and Chaco Canyon. NSG Research Committee, Santa Fe, NM. (April)

2007 Field Research in Chaco Canyon. National Park Service Research Forum, University of New Mexico (October)

2007 Property Rights and Household Organization. Amerind Foundation Advanced Seminar, Dragoon, AZ.

2006 Field Research in Chaco: Current and Future Directions. Annual Meeting of the Society for American Archaeology, Austin (April)

2005 High Resolution Terrain, Stratigraphy and Hydrology Modeling at Chaco Canyon: Simulating Prehistoric Landscapes with New Technologies. Wetherbee Dorshow, W. H. Wills, and Tim Wawrzyniec. GIS Conference,

2005 Chaco as An Hydraulic Society. Annual Meeting of the Society for American Archaeology, Salt Lake City (April).

2003 The Canada de Cochiti Land Grant: 18th Century Agricultural Sustainability. Snead-Wertheim Lecture, University of New Mexico.

2003 Chaco as Icon: Ritual Landscapes and Economics. Washington University,

St. Louis.

2002 Current Research Directions. Chaco Digital Initiative, School of American Research, Advanced Seminar (June).

2002 The Historical Archaeology of the Cañada de Cochiti Land Grant. School of American Research (April).

2002 Organizational Properties in the Emergence of Agricultural Economies. Annual Meeting of the Society for American Archaeology, Denver (March).

2002 Feasting in the Prehispanic Southwest (with P. L. Crown). Southwest Symposium, Tucson (January).

2001 Mound Building at Chaco Canyon. Albuquerque Archaeological Society.

2000 Three lectures, Idyllwild School of Arts and Music, Native American Art and Archaeology, Idyllwild, CA (July)

2000 Construction Processes and Ritual Development, University of Virginia. (March)

2000 (1) Ritual and Chacoan Great Houses, and (2) Mound Building in Chaco Canyon. University of Arizona, Tucson. (April)

1999 "Origins of Southwestern Agriculture", Pueblo Cultural Center, Albuquerque (May)

1998 "Leadership Strategies at Chaco Canyon, A.D. 1020 - 1150" Society for American Archaeology Annual Meeting, Seattle. (April)

1998 "Economic Intensification and Pithouse Variability", Society for American Archaeology Annual Meeting, Seattle. (April)

1997 "Pithouses in the Reserve Phase: Implications for Changes in Social Organization, Society for American Archaeology Annual Meeting, Nashville (April)

1996 "Innovation and the Origins of Agriculture", Plenary Session, Chacmool Conference, University of Calgary, Alberta, Canada (November)

1995 Panelist, "Culture Change and Chronology Symposium", Durango Conference on Southwest Archaeology, Durango, Colorado (October)

1995 "Thermodynamics and Chacoan Great Houses". Ft. Burgwin Research Center, Taos, New Mexico (June)

1994 "Prehistoric Overview of the Borderlands". Southwest Institute Conference, "The Borderlands: Past and Present" (June)

1992 "Prehistoric Farming in the Rio Grande Valley: New Data, New Interpretations", AABGA Intermountain Conference, Albuquerque (September)

1991 "Man Enters the New World: History to 400 A.D.", IEEE Nuclear Science Symposium, Santa Fe.

1991 "The Transition to Household Organization in the Northern Southwest" Arizona State University (March)

1991 "Economic Organization in the Late Archaic". University of Arizona, Tucson (April)

1991 "The Emergence of Villages in West-Central New Mexico" and "The La Bajada Mesa Agricultural Ecology Project", University of Arizona, Tucson (March)

1990 "Prehistoric Agriculture and Potential Interpretive Efforts", Rio Grande Botanical Garden Workshop, Albuquerque (February)

1988 "Organizational Strategies and the Emergence of Prehistoric Villages in the American Southwest". Visiting Scholar's Conference, Southern Illinois University. (April)

1988 "Cultivating Ideas: Changing Perspectives on the Introduction of Agriculture to the Southwest". Southwest Symposium, Arizona State University (January)

1987 "Site Use and Early Agriculture in the American Southwest". American Association for the Advancement of Science, Annual Meeting, Chicago. (January)

1986 "Explaining the Adoption of Agriculture by Hunter-Gatherers". University of Virginia. (March).

1986 "Agricultural Origins in the American Southwest". Smithsonian Institution. (January).

1983 "Ongoing Research at Bat Cave, New Mexico". New Mexico School of Mines and Technology. (July).

#### CONTRIBUTED PRESENTATIONS:

2014 Deforestation at Chaco Canyon? Society for American Archaeology Annual Meeting, Austin (April).

1985 The Chronology and Stratigraphy of Early Maize at Bat Cave, New Mexico. Society for American Archaeology, Annual Meeting, Denver. (April)

1983 Changing Site Use at Bat Cave New Mexico, Michigan Academy of Sciences, Ypsilanti (March)  
1982 Bat Cave Re-investigated. (W.H. Wills, Richard I. Ford, and John D. Speth) Society for American Archaeology, Annual Meeting, Minneapolis (April)  
1980 Remote Sensing Experiments in Chaco Canyon, New Mexico and Their Significance for Anthropological Research. Michigan Academy of Sciences, Detroit.  
1979 Cultural Change and Continuity in the Australian Desert (W.K. MacDonald and W.H. Wills). Michigan Academy of Sciences, East Lansing.

## TEACHING

### **Doctoral Advisement:**

B. Lee Drake, 2012

Stable Carbon Isotope Analysis and Paleoclimate Reconstruction: Applications in New Mexico and the Lower Alentejo of Portugal

Dorshow, Wetherbee B. 2012

Predictive Geospatial Modeling of Natural Archaeological Landscapes for Academic Research and Cultural Resources Management: Cases Studies from Chaco Canyon, the Galisteo Basin and the State of Vermont

Nicholas Chapin, 2005

Hunter-Gatherer Technological Organization: The Archaic Period in Northern New Mexico

Stephen Dominquez, 2000 (co-chair with Richard C. Chapman)

Assessing the Hydrologic Functions of Prehistoric Grid Gardens in North Central New Mexico

Robert Dello-Russo, 1999

Climatic Stress in the Middle Rio Grande Valley of New Mexico: An Evaluation of Changes in Foraging Behaviors During the Late Archaic/Basketmaker II Period

Susan Stratton, 1999

Reconstructing the Role of Faunal Resource Use During the Occupational History of Grass Mesa Village, Southwestern Colorado

Wendy J. Bustard, 1996



Space as Place: Small and Great House Spatial Organization in Chaco Canyon, New Mexico, A.D. 1000-1150

Carrillo, Charles M., 1996 (co-chair with Lewis R. Binford)  
Hispanic Pottery as Evidence of Craft Specialization in Late Colonial New Mexico, 1790-1890

Lycett, Mark T., 1995 (co-chair with Lewis R. Binford)

Archaeological Implications of European Contact: Demography, Settlement and Land Use in the Middle Rio Grande Valley, New Mexico

Thomas J. Ferguson, 1993

Historic Zuni Architecture and Society: A Structural Analysis  
(published as Historic Zuni Architecture and Society: An Archaeological Application of Space Syntax, 1996, Anthropological Paper 60, University of Arizona).

Stephen H. Lekson, 1988

Sociopolitical Complexity at Chaco Canyon, New Mexico

**Doctoral Committee Membership:**

Kaoru Akoshima, 1990  
Daniel Amick, 1994  
Karl Benedict, 2004  
Steven Byers, 1992  
William Hudspeth, 2000  
David Kilby, 2008  
Raymond Mauldin, 1995  
Timothy Maxwell, 2000  
Yorgos Marinakis, 1995 (Dept. of Biology, UNM)  
Thomas Morales, 1997  
Marit Munson, 2002  
Marsha Olgivie, 2002  
Alexandra Roberts, 1992  
Kari M. Schmidt, 1999  
Rebecca Schwendler, 2004  
Matthew Schmader, 1994  
Lynne Sebastian, 1987  
Worman, F. Scott, 2012  
Gregory Zaro, 2005

**Master's Advisement:**

Thomas C. Baker, 1991  
Lynne Murphy-Drake, 1988  
Michael Lawsen, 1990 (with distinction)  
Juli Niemann, 1989  
Carrie Smith, 1988

**Bachelor's Honors Advisement:**

Ascoli, Samantha present

Catherine Crosier, 1999  
Cynthia Herhhahn, 1991  
Mark McCoy, 1997  
Dorothy Scholl-Meeker, 1991