

CURRICULUM VITAE

2 May 2000

Michael W. Binford

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Professional Appointments

2000 — Professor of Geography, University of Florida
 1997 — 2000 Associate Professor of Geography, University of Florida (Tenured 1999)
 1997 - Affiliate Associate Professor, Department of Geology and Center for Latin American Studies, University of Florida
 1996 - 1997 Senior Research Fellow in Landscape Ecology, GSD, Harvard University.
 1991 - 1996 Associate Professor of Landscape Architecture in the Field of Landscape Ecology, Graduate School of Design, Harvard University.
 1994 - Associate of the Harvard Forest
 1986-1991 - Assistant Professor of Landscape Architecture in the field of Landscape Ecology and Research Associate, Aga Khan Unit for Housing and Urbanization. Graduate School of Design, Harvard University.
 1986 - 1990 Adjunct Assistant Curator, Florida State Museum.
 1980-1986 - Research Associate. Florida State Museum and Department of Environmental Engineering Sciences, University of Florida;

Education

1980 Ph.D. Zoology (Limnology) and Geology (Geomorphology and Hydrology), Indiana University.
 1975 M.S. Fishery Biology and Experimental Statistics, Louisiana St. University.
 1973 B.S. Biology (Fisheries), Kansas State University

Professional and Academic Honors

College Award for "Continuing Meritorious Contributions to Undergraduate Research, 1998-1999." College of Liberal Arts and Sciences, University of Florida.
 American Society of Landscape Architects, 1997 Merit Award for the *Project Landscape Planning, Biodiversity and Landscape Planning: Alternative Futures for the Region of Camp Pendleton, California*. (M.W. Binford, co-Investigator and co-Author).
 Who's Who in Science and Engineering, 1991-
 Who's Who in the East, 1996-
 Nominated by Harvard University for Pew Charitable Trusts Fellowship in Conservation and Environment, 1994
 Fellow, American Association for the Advancement of Science, Elected 1993
 Society of Sigma Xi, Scientific Honorary Society

Professional Organizations

American Association for the Advancement of Science (Elected Fellow, 1994)
 American Association of Geographers
 American Quaternary Association
 American Society of Limnology and Oceanography
 American Society for Photogrammetry and Remote Sensing.
 Association for Tropical Biology
 Ecological Society of America: Vice-Chair, Paleoecology Section 1983-1984, Chair,
 Paleoecology Section 1984-1985; Member, Program Committee 1985-1986; Chair,
 Ad Hoc Committee on Travel Fellowships for Foreign Ecologists 1985-1986.
 International Association of Landscape Ecology
 Societas Internationalis Limnologie
 Society of Sigma Xi

Teaching Experience

University of Florida

GEO 2200: *Physical Geography* (Lecture). 3 years
 GEO 5145c: *Remote Sensing* (Lecture/Workshop). 3 years
 GEO 3171: *Foundations of Geographic Information Systems* (Lecture/Workshop). 2 yrs
 GEO 5159: *Geographic Information Systems Applications in Environmental Systems*. 1 year.
 GEO 6356: *Seminar in Land and Water Utilization: Land-Cover/Land-Use Change and Aquatic Ecosystems*. 1 year
 GEO 6938: *Seminar in Physical Geography: GIS Applications in Land-Water Interactions*. 1 yr.

Harvard University

GSD 6217: *Hydrology in Landscape and Regional Planning* (Lecture). 9 years
 GSD 6313: *Ecology and Restoration of Lakes, Streams and Wetlands* (Lecture) 8 years
 GSD 6402: *Ecological Issues in Developing Nations* (Seminar) 5 years
 GSD 6316: *Terrain Analysis* (Lecture-Workshop). 2 Years.
 GSD 6103: *Site Ecology* (Lecture-Field Trip). 8 Years.
 GSD 1212: *Planning and Design of Landscapes* (Planning Studio Course). 4 yrs.
 GSD 1211: *Planning and Design of Landscapes* (Design Studio Course). 1 yr.
 GSD 1111: *Planning and Design of Landscapes* (Design Studio Course,). 2 yrs.
 EPS 98/ENR 203: *University Tutorial in Environmental Science and Public Policy*. 1/4 yr.
 EPS 90c: *Ecology and Land-Use Planning* (Junior Tutorial, Lecture-Workshop). 2 yr.
 Universidad Mayor de San Andres, La Paz, Bolivia: *Ecología y Conservación de Ecosistemas Acuáticos: Lago Wi aymarka Como una Caso Estudio* . Two-Week Intensive Course Taught as an Invited International Expert to Post-Graduate and Professional Students from Bolivia.

University Service

University of Florida

Chair, Ph.D. Committee for Ryan Jensen, Justine Delahunty, Kristen Conway, Alisa Coffin; M.S. Students M. Fernanda Zermoglio, Lucy Kashajja; MALAS Students Karla Rocha, Edgard Marino, David Salisbury, Carlos Valerio Gomes

Member, Ph.D. Committees for 6 students and M.S. Committees for 7 students in Colleges of Liberal Arts and Sciences, Engineering, Natural Resources and Environment, School of Forest Resources and Conservation.

Vice-Chair, Interdisciplinary Concentration in Geographic Information Systems Board of Directors.

Member, Advisory Committee for Program in Tropical Conservation and Development, Center for Latin American Studies.

Member, Curriculum Committee, College of Liberal Arts and Sciences. Elected 1998; Chair 1999-2000.

Member, College of Liberal Arts and Sciences Steering Committee. 1999-2000.

Chair, Search Committee for Assistant Professor and Director of Land Use and Environmental Change Institute. Spring Semester 2000.

Chair Search Committee for Geography Department Chair; Member 2 Faculty Search Committees (Geography and Anthropology) 1998-1999

Member, Sustained Performance Evaluation Program Committee, Department of Geography, University of Florida. 1999.

Harvard University

Acting Director, Master of Landscape Architecture Program. 1994

Review Board, Graduate School of Design, (1991 - 1997; Chair 1993-1994).

Harvard University Committee on Environment, 1992 - 1997.

President's Working Group on Environment (1990-1991), Liaison with Student Groups, Organized Information Roundtable Discussion, 1990, 1991.

Ph.D. in Landscape Architecture Advisor, 3 Ph.D. Students.

Master in Landscape Architecture Program Committee Member, 1986-1992

Master of Landscape Architecture, First Professional Degree Admissions Committee Member, 1987-1994, Coordinator 1988, 1990, 1991, 1995.

Penny White Student Fellowship Fund, Faculty Administrator, GSD. (1988-).

Advisor, Senior Honors Theses. 4 Students in 3 years.

Student Advisor, MLA program. Average of 10-20 students each year.

Student Advisor, Master of Design Studies program. Average 1 student/year.

Graduate School of Design, Committee on the Environment (Co-Chair 1990-1992).

Computer Resources Committee, Graduate School of Design (1988-1990).

Academic Affairs Committee, Graduate School of Design (1989-1991).

Special Programs Committee, Graduate School of Design (1989-1990).

Professional Service

Board of Advisors, Journal of Paleolimnology, 1994 - 1998

Associate Editor, Journal of Paleolimnology, 1987- 1994.

Occasional referee and panel member for National Science Foundation (Earth Sciences, Geography, Regional Science, Ecology, International, Climate Dynamics, NSF/EPA Joint Watershed, and Ecosystems programs); journals: *Limnology and Oceanography*, *Ecology*, *Ecological Monographs*, *Biogeochemistry*, *Geology*, *the Journal of the Geological Society of America*, *Canadian Journal of Earth Sciences*, *Bulletin of the Geological Society of America*, Environmental Protection Agency, National Environment Research Council of the U.K., American Chemical Society Books Program, and Hudson River Foundation .

Consultant to National Park Service, Environmental Protection Agency, and several Landscape Architectural and Planning Firms.

Presenter on the Subjects of Sustainable Agricultural Development in the Highlands and Lowlands of Bolivia, and The Use of Archaeological and Paleoecological Studies in Modern Agricultural Development in Latin American. Smithsonian Institution Festival of American Folk Life. Washington, D.C. 1-12 July 1994.

Expert witness in land-development/water quality lawsuit, NVLand vs. Fairfax County, Virginia (1990)

Obtained funds on behalf of the Ecological Society of America from the National Science Foundation to support travel by foreign ecologists to 1986 joint congress of the International Ecological Association, the Ecological Society of America, and the International Society for Ecological Modeling.

Organized symposium: "The Past as the Key to the Present: The Use of Paleoecological Methods in Long-Term Environmental Monitoring and Ecological Research" for 1984 meeting of Ecological Society of America

Grants and Contracts

Binford, M.W., P.I., K. Conway, co-I. Human Use and Potential Conservation of River Turtles (*Podocnemis* sp.) in Eastern Lowland Bolivia. National Science Foundation, Geography and Regional Science Program, Dissertation Improvement Grants. \$10,000. 1 July 2000 — 31 June 2001. Pending 28 February.

Hodell, D.A., P.I., M.W. Binford, M. Brenner, D.L. Dilcher, C.L. Schelske, R.R. Reddy, T.L. Crisman. Acquisition of Instrumentation for the Florida Institute of PaleoEnvironmental Research (FLIPER) to study Human-Climate-Environment Interactions. National Science Foundation, Directorate of Geosciences, Major Research Instrumentation Program. 1 July 2000 — 30 June 2001. \$844,934 plus \$253,500 UF cost-sharing. Pending January 2000.

Binford, M.W., P.I., H.L. Gholz, S.E. Smith, and G. Barnes (co-investigators). Land-Use and Land-Cover Change: Decadal-Scale Dynamics of Land Ownership, and Carbon Storage Patterns in the Southeastern Lower Coastal Plain Region of the U.S. National Aeronautics and Space Administration, Office of Earth Science, Land Use/Land Cover Change Program. \$350,000; 1 May 2000 — 31 July 2003.

Binford, M.W., P.I. Geographic Information System as A Tool For Community Land Use Planning In Acre, Brazil. Inter-American Foundation (MALAS Student Fellowship for Karla Rocha). \$3,915. June 1999-December 1999.

Binford, M.W., P.I. Aerial Photograph Library Management And Database Services. St. Johns River Water Management District. June 1998 - December 1999. \$31,855 (two contracts).

- Binford, M.W. (PI). *Contrasting Landscape Dynamics in the Guapor River Basin, Bolivia and Brazil*. UF College of Liberal Arts and Sciences Research Awards Program. \$8,000, 1 Apr 1998 - 31 December 1998.
- Binford, M.W., P.I. *The University of Florida Laboratory for Advanced Applications of Remote Sensing and GIS Integration and Analysis to Regional and Global Environmental Assessments*. Science Division of the Office of Mission to Planet Earth. \$108,952 (\$94,952 from NASA, \$14,000 University of Florida Matching Funds). 1 October 1997 - 30 November 1999.
- Binford, M.W., P.I. *Human-Climate Interactions in the Lake Titicaca Basin of Bolivia*. U.S. National Oceanic and Atmospheric Agency, Office of Global Programs. \$206,538. 1 May 1995 - 30 April 1999.
- Steinitz, Carl, P.I., Michael W. Binford and Stephen Ervin, Co-Investigators. *Alternative Future Roles for Camp Pendleton, California, in the Maintenance of Biodiversity*. Environmental Protection Agency, \$466,886. 1 August 1994 - 31 July 1997.
- Foster, David, P.I. and Michael W. Binford, Co-Investigator. *Regional Vegetation Response to Human Disturbance in Central New England*. U.S. National Science Foundation, Ecology Program., \$225,000, July 1994 - 30 June 1997.
- Foster, David, P.I. and many others including Michael W. Binford, Co-Investigators. *Long-Term Ecological Research at the Harvard Forest*.
- M.W. Binford, P.I. Collaborative Research: *Human-Environment Interactions in the Bolivian Altiplano: Climate, Limnology and Tiwanaku Agroecosystems*. U.S. National Science Foundation. \$145,372. 1 August 1992-28 February 1995.
- M.W. Binford, P.I. *Survey of Lakes and Lake Sediments to be used for Studies in Urban Paleolimnology*. Milton Fund Grant, Harvard University, \$6000. January-December 1992.
- M.W. Binford, P.I. *The Impacts of Traditional and Modern Agriculture on Land-Inland Water Ecotones in the Central Andes*. U.S. Man and the Biosphere Program, Department of State. \$48,000. 2 October 1989 - 31 September 1990.
- M.W. Binford. P.I. *Paleolimnological Studies of Tiwanaku Ecosystems*. Subcontract to National Science Foundation grant BNS-8607541 to University of Illinois-Chicago, Department of Anthropology, Alan Kolata, P.I., The Technology and Organization of Agricultural Production in the Tiwanaku State, \$7,652.74. February 1987-December 1987.
- M.W. Binford, P.I., Duncan Patten, Co-P.I. *Travel Fellowships for Foreign Ecologists to Attend the 1986 ESA/INTECOL Meeting*. National Science Foundation. BSR-8608199, \$25,000. July 1986-December 1986.
- M.W. Binford. P.I. *Paleoecological Investigation of Recent Lake Acidification: Uncertainty Analysis of Pb-210 Dating Models*. Part of Subcontract to T.L. Crisman and R.W. Bienert from Indiana University Contract (D. Whitehead and D. Charles, Co-P.I.'s). Electric Power Research Institute. \$26,000. July 1985-December 1986.
- M. W. Binford, P.I., and E.S. Deevey, co-P.I. National Science Foundation. *Historical Factors in West Indian Ecology and Biogeography: Late Pleistocene and Holocene Environments in Haiti*. BSR-8500548. \$31,520. April 1985 - October 1986.

Publications

- Hill, K, and M.W. Binford. *In press*. The role of category definition in habitat models: practical and logical limitations of using Boolean, indexed, probabilistic and fuzzy categories. Chapter 11 in J.M. Scott, J. M., P. J. Heglund, F. Samson, J. Haufler, M. Morrison, M. Raphael, B. Wall (eds.). *Predicting Species Occurrences: Issues of Scale and Accuracy*.
- Kolata, A.L., Michael W. Binford, Mark Brenner, John W. Janusek and Charles Ortloff. *In press*. Environmental thresholds and the empirical reality of state collapse: a response to Erickson. *Antiquity*.
- Kaushal, S. and M.W. Binford. 1999. Sediment C:N ratios and sources in a central Massachusetts lake. *Journal of Paleolimnology*. 22:439-442.
- Higuera-Gundy, A., M. Brenner, D.A. Hodell, J.H. Curtis, M.W. Binford. 1999. Vegetation response to climate variation in Haiti: late Pleistocene to present. *Quaternary Research* 52:159-170.
- Biesboer, D.D., M.W. Binford and A.L. Kolata. 1999. Nitrogen Fixation in Soils and Canals of Rehabilitated Raised-Fields of the Bolivian Altiplano. *Biotropica* 31:255-267.
- Binford, M.W., A.L. Kolata, M. Brenner, J. Janusek, M.T. Seddon, M. B. Abbott, and J. Curtis. 1997. Climate variation and the rise and fall of an Andean civilization. *Quaternary Research* 47:235-248.
- Abbott, M.B., M.W. Binford, M. Brenner, and K.R. Kelts. 1997. A 3,500 ¹⁴C yr high-resolution record of lake level changes in Lake Titicaca, South America. *Quaternary Research* 47:122-129.
- Steinitz, C., M.W. Binford, P. Cote, T. Edwards, Jr., S. Ervin, R.T.T. Forman, C. Johnson, R. Kiester, D. Mouat, D. Olson, A. Shearer, R. Toth, D. White, and R. Wills. 1996. *Biodiversity and Landscape Planning: Alternative Futures for the Region of Camp Pendleton, California*. Harvard University Graduate School of Design.
- Binford, M.W. and A. Kolata. 1996. The Natural and Cultural Setting. Ch. 2 in A. Kolata, (ed.) *Tiwanaku and its Hinterland: Archaeological and Paleoecological Investigations in the Lake Titicaca Basin of Bolivia*. Smithsonian Institution Press. Washington, D.C.
- Binford, M.W., M. Brenner and B.W. Leyden. 1996. Paleoecology and Tiwanaku Agroecosystems. Ch. 4 in A. Kolata, (ed.) *Tiwanaku and its Hinterland: Archaeological and Paleoecological Investigations in the Lake Titicaca Basin of Bolivia*. Smithsonian Institution Press. Washington, D.C.
- Carney, H.J., M.W. Binford, and A.L. Kolata. 1996. Nutrient fluxes and retention in Andean raised-field agriculture: implications for long-term sustainability. Ch. 7 in A. Kolata, (ed.) *Tiwanaku and its Hinterland: Archaeological and Paleoecological Investigations in the Lake Titicaca Basin of Bolivia*. Smithsonian Institution Press. Washington, D.C.
- Brenner, M., J.H. Curtis, A. Higuera-Gundy, D.A. Hodell, G.A. Jones., M.W. Binford and K.T. Dorsey. 1994. Lake Miragoane, Haiti (Caribbean). in E. Gierlowski-Kordesch and K. Kelts (eds.), *Global Geological Record of Lake Basins*, Vol. 1. Cambridge University Press.

- Brenner, M., T.J. Whitmore, M.S. Flannery, and M.W. Binford. 1993. Paleolimnological methods for defining target conditions in lake restoration: A Florida case study. *Lake and Reservoir Management*. 7:209-217
- Binford, M.W., S.A. Norton and J.S. Kahl. 1993. Interpretation of ^{210}Pb profiles and verification of the CRS dating model in PIRLA project lake sediment cores. *Journal of Paleolimnology*. 9:275-296.
- Carney, H.J., M.W. Binford, A.L. Kolata, R.R. Marin and C.R. Goldman. 1993. Nutrient and sediment retention in Andean raised-field agriculture. *Nature* 364 (8 July 1993): 131-133.
- Binford, M.W. and M. Buchenau. 1993. Riparian Corridors and Water Resources. ch. 4 in D. Smith and P. Hellmund, (eds.), *Ecology of Greenways*. University of Minnesota Press.
- Norton, S.A., R.W. Bienert, jr., M.W. Binford and J.S. Kahl. 1992. Stratigraphy of total metals in PIRLA sediment cores. *Journal of Paleolimnology* 7:191-214.
- Binford, M.W., M. Brenner and D.R. Engstrom. 1992. Temporal sedimentation patterns in the nearshore littoral of Lago Hui aimarca. Ch II.3, pp 29-39 in C. DeJoux and A. Iltis (eds.), *Lake Titicaca: A Synthesis of Limnological Knowledge*. Monographiae Biologicae, Vol. 68. Kluwer Academic Publishers. Dordrecht. 573 pages. {English Language version}.
- Binford, M.W., M. Brenner, and D.R. Engstrom. 1991. Patrones de Sedimentación temporal en la zona litoral del Hui aimarca {Temporal sedimentation patterns in the nearshore littoral of Lake Hui aimarca (Titicaca Menor)}. pp 47-58 in C. DeJoux and A. Iltis (eds.), *El Lago Titicaca: Sintesis del conocimiento limnológico actual*. Mission ORSTOM en Bolivie e HISBOL, Casilla 12154, La Paz, Bolivia. {Spanish Version Translated by A. Higuera-Diaz}.
- Hodell, D.A., J.H. Curtis, G.A. Jones, A. Higuera-Gundy, M. Brenner, M.W. Binford and K. Dorsey. 1991. Caribbean climate change from 10.3 to 3.0 kyr BP: Evidence from a high-resolution lacustrine ^{18}O Record. *Nature* 352:790-793
- Brenner, M., K. Dorsey, S. Xueliang, W. Zuguan, L. Ruihua, M.W. Binford, T.J. Whitmore and A.M. More. 1991. Paleolimnology of Qilu Hu, Yunnan Province, China. *Hydrobiologia* 214: 333-340.
- Brenner, M., B.W. Leyden, and M.W. Binford. 1990. Paleolimnology of two shallow lakes in the Guatemalan savannas. *Journal of Paleolimnology* 4:239-252.
- Sweets, P.R., R.W. Bienert, jr., M.W. Binford, and T.L. Crisman. 1990. Paleoecological investigation of recent lake acidification in North Florida lakes. *Journal of Paleolimnology* 4:103-137.
- Charles, D.F., M.W. Binford, E.T. Furlong, R.A. Hites, M.J. Mitchell, S.A. Norton, F. Oldfield, M.J. Paterson, J.P. Smol, A.J. Uutala, J.R. White, D.R. Whitehead and R.J. Wise. 1990. Paleoecological Investigation of Recent Lake Acidification in the Adirondack Mountains, N.Y. *Journal of Paleolimnology* 3: 195-241.
- Brenner, M., M.W. Binford, and E.S. Deevey. 1990. Lakes. 364-391 in R. L. Myers. and J. J. Ewel (eds.). *Ecosystems of Florida*. University of Florida Press, Gainesville, FL 765 pp.
- Binford, M.W. 1990. Calculation and Uncertainty Analysis of ^{210}Pb Dates for PIRLA project cores. *Journal of Paleolimnology* 3:253-267.

- Binford, Michael W. and Mark Brenner. 1989. Resultados del estudio del primer año de la limnología en los ecosistemas de Tiwanaku. pp 213-236 in A.L. Kolata (ed.), *Arqueología de Lukurmata*, Vol. II. Instituto Nacional de Arqueología y Producciones Puma Punka. La Paz.
- Moore, A.M., M. Brenner, M.W. Binford, E.S. Deevey, and X.-K. Ou. 1988. Field notes on a paleolimnological expedition to five lakes on the Yunnan Plateau. *Journal of Yunnan University*. Vol. 10 (Suppl.):28-36.
- Deevey, E.S., M. Brenner, A.M. Moore, M.W. Binford, K.T. Dorsey, X.-L. Song, Z.-G. Wang and Z.-H. Hu. 1988. Paleolimnology and Limnology of Qilu Hu, Tonghai County, Yunnan -- Preliminary Results. *Journal of Yunnan University*. Vol. 10 (Suppl.):57-62.
- Brenner, Mark and Michael W. Binford. 1988. A sedimentary record of human disturbance from Lake Miragoane, Haiti. *Journal of Paleolimnology*. 1:85-97.
- Binford, M.W. 1988. Paleolimnological and Paleoecological Examination of Climate in the Continental American Tropics and Subtropics. pp 25-28 in G. Sharp and T.J. DeVries (eds.), *Paleoecology Workshop* sponsored by NOAA and NSF. Convened 15-17 February 1988, Boston, MA.
- Brenner, Mark and Michael W. Binford. 1988. Relationships between concentrations of sedimentary variables and trophic state in Florida lakes. *Canadian Journal of Fisheries and Aquatic Sciences* 45:294-300.
- Binford, Michael W. and Mark Brenner. 1988. Reply to Comment by Benoit and Hemond. *Limnology and Oceanography* 33:303-309.
- Binford, M.W., Mark Brenner, Thomas J. Whitmore, Antonia Higuera-Gundy, E.S. Deevey, Jr., and Barbara Leyden. 1987. Ecosystems, Paleoecology and Human Disturbance in Subtropical and Tropical America. *Quaternary Science Reviews* 6:115-128.
- Binford, Michael W. 1987. A Primer on Water Quality and Water Quality Management for Planners and Designers. Aga Khan Program for Islamic Art and Architecture at Harvard University and the Massachusetts Institute of Technology, Monograph Series. 154 pages.
- Binford, M.W. 1986. ^{210}Pb Dates and their associated uncertainties for PIRLA cores. Unpublished Report Series, Electric Power Research Institute. 72 pages.
- Crisman, T.L., U.A.M. Crisman and Michael W. Binford. 1986. Interpretation of bryozoan microfossils in lacustrine sediment cores. *Hydrobiologia* 143:113-118.
- Deevey, Edward S., Michael W. Binford, Mark Brenner, and Thomas J. Whitmore. 1986. Sedimentary records of accelerated nutrient loading in Florida lakes. *Hydrobiologia* 143:49-53.
- Brenner, Mark and Michael W. Binford. 1986. Material transfer from water to sediment in Florida lakes. *Hydrobiologia* 143:55-61.
- Binford, Michael W. 1986. Ecological correlates of net accumulation rates of cladoceran remains in lake sediments. *Hydrobiologia* 143:123-128.
- Binford, Michael W. and Mark Brenner. 1986. Dilution of ^{210}Pb by organic sedimentation in lakes of different trophic states, and application to studies of sediment-water interactions. *Limnology and Oceanography* 31:584-595
- Binford, M.W. 1984. Dating lake sediment cores with ^{210}Pb . in S.A. Norton (ed.). *Paleolimnological Analysis of The Impact of Acidic Precipitation and Related*

- Pollutants on Lake Ecosystems. Proceedings of E.P.A. workshop. 22-24 May, 1984, Rockport Maine.
- Binford, M.W., E.S. Deevey, and T.L. Crisman. 1983. Paleolimnology: An historical perspective on lacustrine ecosystems. *Annual Review of Ecology and Systematics*. 14:255-286. (Review)
- Deevey, E.S., Mark Brenner, Michael W. Binford. 1983. Paleolimnology of the Peten lake district, Guatemala: III. Late Pleistocene and Gamblian environments of the Maya area. *Hydrobiologia* 103:211-216.
- Binford, M.W. 1983. Paleolimnology of the Peten lake district, Guatemala: I. Erosion and deposition of inorganic sediment as inferred from granulometry. *Hydrobiologia* 103:199-203.
- Binford, M.W. 1983. Ecological history of Lake Valencia, Venezuela: Interpretation of animal microfossils and some chemical, physical, and geological features. *Ecological Monographs* 52:307-333 (Monograph)
- Bradbury, J.P., B. Leyden, M. Salgado-Labouriau, W.M. Lewis, Jr., C. Schubert, M.W. Binford, D.G. Frey, D.R. Whitehead, F.H. Weibezahn. 1981. Late Quaternary environmental history of Lake Valencia, Venezuela. *Science*. 214:1299-1305.
- Binford, M.W. 1978. Copepoda and Cladocera communities in a river-swamp system. *Verh. Internat. Verein. Limnol.* 20:2524-2530.

Book and Software Reviews

- Binford, M.W. 2000. Idrisi32. First Impressions, GeoInfoSystems. April. (*in press*).
- Binford, M.W. 1997. IDRISI 2.0 for Windows. First Impressions, Geo Info Systems. September.
- Binford, M.W. 1990. Review of R.B. Davis (ed.) Paleolimnology and the Reconstruction of Ancient Environments. Kluwer Academic Publishers. *Quarterly Review of Biology* 65:493.
- Binford, M.W. 1984. Review of Chapra, S.C. and K.H. Reckhow. Engineering Approaches to Lake Management. *American Scientist*. 72:503-504

Invited Seminars and Workshops (1994 - 1999)

- Ecological, Paleoecological, and Archaeological Evidence for 3500 Years of Sustainable Agriculture in the Lake Titicaca Basin, Bolivia. 11 March 1999. . Department of Anthropology, Universidad del Valle, Guatemala City, Guatemala.
- Workshop on GIS and Remote Sensing Approaches to Archaeological Research. 10 March 1999. Department of Anthropology, Universidad del Valle, Guatemala City, Guatemala.
- Lake Titicaca - History of Lake Level Change and Impact on Riparian Culture. 30 January 1998. Department of Fisheries and Aquatic Sciences, University of Florida.
- Paleohydrology of Lake Titicaca and the Rise and Fall of an Ancient Civilization. 26 September 1997. Department of Geology, University of Florida
- Late Holocene Paleoclimatology of the Lake Titicaca (Bolivia/Peru) Basin and its Influence on Pre-Columbian and Modern Human Activities. American Geophysical Union Symposium on Tropical Paleoclimatology, 11 December 1997. Abstract published in EOS.

- Climate Change and Long-Term Landscape Dynamics in the Lake Titicaca Basin. Department of Geography, University of Florida. 14 February 1997.
- Tiwanaku Ecosystems: 3500 Years of Human-Environment Interactions in the Bolivian Altiplano. Department of Plant Biology Seminar Series, University of Minnesota Twin Cities. 26 February 1996
- Ecology and Land-Use Planning in Southern California. University of Illinois, November 1995.
- Ecological Basis of Sustainable Agricultural Development in the Lake Titicaca Basin of Bolivia. University of Illinois, November 1995.
- How a Pre-Columbian Civilization in the Andean Altiplano Modified its Landscape to Sustain Itself Ecologically for 600 Years. Environmental Design Forum, Massachusetts Institute of Technology. 10 May 1995.
- 600 Years of Sustained Agriculture: Environment and Biogeochemistry of the Tiwanaku Civilization in the Andes of Bolivia. School of Public Health, Harvard University. 24 April 1995.
- How a Civilization Sustained Itself for 800 Years by Shaping its Landscape. Department of Landscape Architecture, Harvard University. 7 April 1995.
- Limnological Perspectives on Landscape Planning for Lake Water Quality: Cases from the Tropics and North Temperate Regions. Department of Fisheries and Aquatic Sciences, University of Florida. 3 April 1995.
- Hydrology, Human Activities, and Landscape Architecture. Department of Landscape Architecture, University of Virginia, November 1994.
- Paleoecological and Ecological Definitions of Agricultural Sustainability. Latin American Studies Program, Cornell University, April 1994
- Physical and Biogeochemical Factors Determining the Sustainability of Raised-Field Agriculture in the Lake Titicaca Basin. Department of Soils, Atmospheric and Crop Sciences, Cornell University, April 1994
- Human-Environment Interactions in the Bolivian Altiplano: Climate, Limnology and Tiwanaku Ecosystems. School of the Environment, Duke University, April 1994
- Landscape Planning, Watershed Management, and Conservation of Riparian Corridors for Preserving and Enhancing Stream Water Quality. Department of Landscape Architecture, Iowa State University, February 1994

Abstracts and Papers Presented at Meetings (1994 - 1999)

- Binford, M.W. 1998. *Satellites, Soil, and economics: Using Landsat and Economic Data to Integrate Field Sampling Design for Multi-disciplinary Studies in Thailand*. American Association of Geographers, Boston, MA. 25-29 March.
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