



William A Lovis, Jr, PhD, RPA

Emeritus Professor and Curator

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Anthropology

Hunter Gatherer & Environmental Archaeology

Applied Theory & Method

Museum Anthropology, Collections Research & Curation

CURRICULUM VITAE

2023

Positions and Affiliations:

Emeritus Professor, Department of Anthropology, Michigan State University

Emeritus Curator of Anthropology, Michigan State University Museum

Senior Research Associate, Lithic Microwear Research Laboratory, Microwear Associates, Ltd. (2018 - present)

Research Interests:

I am an environmental archaeologist. My research explores the relationship between human economic adaptation, mobility, and changing late glacial and Holocene environments in the Great Lakes region, northern England, and northern Europe, primarily among hunter-gatherers and transitional low-level horticulturalists. I bring a strong interdisciplinary approach to my inquiry in concert with the biological and earth sciences. I advocate actualistic replicatory experiments and ethnographic analogy to refine archaeological interpretation of early hunter-gatherers. Analytically, my multidisciplinary perspective employs collaborative experiments on carbonized food residue formation, and interpretation of resultant isotope signatures to track the hunting- gathering to horticulture transition in the Great Lakes, and with colleagues explores the taphonomy of Freshwater Reservoir Offsets (FROs) and their effect (FRE) on carbonized residue ages. I harbor an abiding interest in applied theory and method, especially related to research design. My career includes substantial experience in public policy, particularly surrounding repatriation nationally and internationally, heritage management on public lands, as well as forensic applications including human remains investigations and law enforcement training. I have spent my entire career in museum collections research, administration, management, teaching and curation and continue engagement in these arenas.

Current Research and Activities:

I am research active as project lead, co-investigator, or collaborator. I coordinate the multidimensional, interdisciplinary, inter-institutional analysis of a repatriated 15th c CE Andean mummy. I am coinvestigator on analysis of a pair of modified wolf jaws from the Saginaw drainage. I continue collaborative carbonized ceramic residue/FRO and Mesolithic research. My longstanding interests involve analysis of E. Leacock's 1950s Labrador Montagnais/Naskapi field notes. During 2021 I completed transmission of *Lepo Tau Kenyah* [Highland Dayak] ethnographic objects and field documents to the Field Museum of Natural History, and continue collaboration on the disposition, to research and teaching repositories, of two collections of Yuan, Song/Sung, Ming and Q'ing ceramics. I am currently acquiring and refurbishing technical equipment for the MSU Archaeological Science Laboratory.

During 2022 I was coauthor on articles in *PaleoAmerica* (Lovis et al. 2022), and *Midcontinental Journal of Archaeology* (Kooiman et al. 2022). I have forthcoming articles in *The Michigan Archaeologist* (Lovis, In Press; Lovis & Mainfort, In Press), and *Revista Textos Antropologicos* (Lovis, Capriles & Rodriguez, In Press). I have submissions under review in *Quaternary Science Review* (Arbogast et al.), the American Chemical Society edited volume *Chemistry in the Service of Archaeology: Dating and Materials Analysis* (Bonneau et al.), and *Papers of the National Academy of Science* (Chen et al.). During 2022 I presented seven professional papers, including an invited presentation at Pennsylvania State University. (<http://orcid.org/0000-0002-9221-7447>)

Previous Michigan State University Positions (Regular and Term Limited):

Professor, Department of Anthropology (1985-2018)
Curator of Anthropology, Michigan State University Museum (1985-2018)
Lead Principal Investigator/Laboratories Director and Environmental Health and Safety (EHS) Officer, MSU Consortium for Archaeological Research (CAR) (1993-2018)
Native American Graves Protection and Repatriation Act (NAGPRA) Compliance Officer, Michigan State University Museum (1990-2017)
Founder and Director, MSU Archaeological Science and Experimental Archaeology Laboratory/Lovis Laboratory (2008-2018)
Associate Director for Natural and Social Science Research, Michigan State University Museum (2003-2006)
Administrative and Logistics Coordinator, Archaeological Facilities and Collections Relocation, Michigan State University Museum and Department of Anthropology (Limited Term Assignment 1993-1994)
Assistant/Associate Chair, Department of Anthropology (1992-1995)
Administrative Coordinator, Semester Curriculum Transition, College of Social Science/Department of Anthropology (Limited Term Assignment 1989-1990)
Associate Professor, Department of Anthropology (1979-1985)
Assistant Professor, Department of Anthropology (1974-1979)
Acting Assistant Professor, Department of Anthropology (1973-1974)
Curator of Great Lakes Archaeology, Michigan State University Museum (1974-1985)
Acting Curator of Great Lakes Archaeology, Michigan State University Museum (1973-1974)

Previous Michigan State University Program Faculty Affiliations:

American Indian and Indigenous Studies Program (AIISP)
Center for European, Russian and Eurasian Studies (CERES)
Canadian American Studies Centre
Environmental Science, Policy and Programs (ESPP)
Quaternary Landscapes Research Group

Personal Contact Information:

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655 Auditorium Road
Michigan State University
East Lansing, MI 48824 USA
Email: lovis@msu.edu

405 Bismark Street
Williamston, MI 48895
Mobile Phone: 517.719.4155

Education:

Ph.D. Anthropology, Michigan State University, East Lansing, Michigan 1973
M.A. Anthropology, Michigan State University, East Lansing, Michigan 1972
B.S. Social Studies and Secondary Education, New York University, New York, New York 1969

Dissertation Title: *Late Woodland Cultural Dynamics in the Northern Lower Peninsula of Michigan*. University Microfilms International, Inc., Ann Arbor. 1973. (xi + 346 pp., figures, tables, appendices, references)
Examination Areas: Primary Geographic - North American Archaeology and Ethnography; Secondary Geographic - Sub-Saharan Africa Archaeology and Ethnography; Topical - Time-Space Systematics & Analytic Methods; Languages - French reading; Analytic Skill - Fortran IV.

Personal Information:

United States Citizen

Language Skills:

Spanish, Level 2+; Modern Greek, Level 1+/2-; French, basic reading

Awards and Honors:

Academic/Professional:

Fellow, American Association for the Advancement of Science, Anthropology (Section H) 2022
Merit Award (Sustained, Outstanding and Significant Contributions), The Michigan Archaeological Society, 2022
Inaugural Editor, *Midwest Archaeological Perspectives* Book Series, Midwest Archaeological Conference, Inc. and University of Notre Dame Press, 2017-2020
Distinguished Career Award, Midwest Archaeological Conference, Inc., 2011
National Director's Citation (Hon. Robert S. Mueller III), James B. Hoffa Investigation, U.S. Department of Justice, Federal Bureau of Investigation, 2006
Presidential Recognition Award (Repatriation and Government Affairs), Society for American Archaeology, 1998
Phi Beta Delta, Honor Society of International Scholars, Inducted 1998
Resolution of Appreciation (03049402), Little Traverse Bay Band of Odawa, 1994
Testimony to Senate and House of Representatives Committees of United States Congress, 1990, 1992, 1995
Michigan State Police Director's Citation (Colonel Gerald L Hough), Robin Adams Investigation, State of Michigan, Department of State Police, 1985
Governor's Appointment (Hon. John M. Engler), Michigan Historic Preservation Review Board, Member 1979-1986, President (elected) 1984-1986
Fellow, American Anthropological Association (elected), 1973
Woodrow Wilson Fellow, Woodrow Wilson National Fellowship Foundation/Ford Foundation, 1972-1973
Jessie Smith Noyes Scholar/Scholarship, Jessie Smith Noyes Foundation, 1968-1969
New York University Scholar/Scholarship, New York University, Spring 1966, 1966-1967, 1967-1968
Educational Opportunity/National Defense Education Act Grant, New York University (U.S. Department of Education funds), 1966-1967, 1967-1968, 1968-1969
Scholar Incentive Award/Regents Scholarship, The University of the State of New York, Board of Regents, 1965-1966, 1966-1967, 1967-1968, 1968-1969

Athletic:

Honoree, Athletic Hall of Fame, New York University, 2017 (1966-1967 NCAA National Champion Fencing Team)
Inaugural Inductee, Athletic Hall of Fame, Middle Country Central School District, 2003
National Collegiate Athletic Association (NCAA) National Championship Fencing Team, 1966-1967

MSU Internal:

Excellence in Teaching Award, MSU Department of Anthropology Graduate Students, 1980-81, 1987-88, 2009-10
Jacob J. Climo Excellence in Mentoring Award, Graduate Students in Anthropology, MSU, 2005-2006, 2013-2014

Professional Offices (Elected and Appointed):

American Association for the Advancement of Science (AAAS)

Steering Committee, Section H, Anthropology, 2023

Society for American Archaeology (SAA)

Repatriation Survey Task Force, 2013-2014

Committee on Award for Excellence in Archaeological Analysis, 2010-2013; Chair 2012-2013

Committee on Public Archaeology, 1979-1981

Government Affairs Committee, 1987-1989; 1990-1992; Chair, 1989-1992

Government Affairs Coordinator, 1991-1992

Task Force on Reburial and Repatriation/Committee on Repatriation, 1989-1995; Chair 1995-1999; Advisor 1999-2007

Task Force on Curation, 1992-1994
Assistant Editor, *American Antiquity*, 1983-1990
Society of Professional Archaeologists (SoPA)
Nomination Committee, 1989; Chair, 1984
Membership Committee, Chair, 1983-1985
Assistant Secretary-Treasurer, 1983-1985
Secretary-Treasurer, 1985-1987
Government Affairs Committee, Organizer and Convener, 1996
Register of Professional Archaeologists (RoPA)
Professional Development Committee, 2000-2004
Midwest Archaeological Conference, Inc. (MAC, Inc.)
President, 2008-2010
President Elect/Vice President, 2006-2008
Inaugural Editor, *Midwest Archaeological Perspectives*, 2017-2020
Annual Meeting Program Chair/Co-Chair, 1973, 1985, 1999, 2012
Steering Committee Member, 2001-2002
Editorial Board Member, *Midcontinental Journal of Archaeology*, 1995-2002
Editor, *Midcontinental Journal of Archaeology*, 2002-2005
Conference on Michigan Archaeology (CoMA), Emeritus status (2018- present)
President, 1980-1987
Vice-President, 1990-1992
Secretary-Treasurer, 1976-1980
Executive Board, 1974-1976, 1987-1990, 1995-1998, 2000-2003, 2012-2015
Burial Policy Committee, 1988-present
Ira W. Butterfield Award Committee, Chair, 1996-present
Ethics Committee, Chair, 1977-1980
State Plan Steering Committee, 1978-1980
Michigan Academy of Science, Arts, and Letters (MASAL)
Anthropology Division Program Chair, 1975
Michigan Archaeological Society (MAS)
President, Secretary, Program Organizer, Upper Grand Valley Chapter, multiple terms since 1969
State Board of Trustees, 1985-1988, 1988-1991
State Society Official Resident Agent, 2008-2018
New York University
Captain (with John Lina), Men's Varsity Fencing Team, 1968-1969
Senior Advisor, Masters and Residents Program, 1968-1969
Glenn A. Black Laboratory of Archaeology, Indiana University, Bloomington IN
Advisory Board Member, 2009-2011
Michigan Department of State
State of Michigan Site File Access Committee, State Historic Preservation Office, Member. 1977- 1979(?).
(Appointed Position)

Conferences, Symposia and Workshops Organized/Co-Organized:

Interdepartmental XRF Training Workshop with Departments of Geological Sciences and Forestry, and Bruker Industries. Michigan State University, East Lansing, MI 2016
Archaeology, Anthropology and Odontology Workshop, Michigan State Police (with T. Fenton and G. Nutter). Michigan State University, East Lansing, MI 2014.
Marking the Land: Hunter-Gatherer Creation of Meaning within their Surroundings (with R. Whallon). 79th Annual Meeting of the Society for American Archaeology, Austin, TX 2014 (**Published**)
SAA Forum: Sensitivity Analysis in Archaeological Modeling (with M. Brouwer Burg and J. H. M. Peeters) 79th Annual Meeting of the Society for American Archaeology, Austin, TX 2014 (**Published**)
What, When, and How? Assessing the Timing, Rate and Adoption Trajectory of Domestic Use in the Midwest (with M. Raviele). First MAC, Inc. Sponsored Symposium. 58th Annual Meeting, Midwest Archaeological Conference, Inc., East Lansing, MI 2012 (**Published**)

Conference Co-Coordinator and Program Co-Chair (with L. Goldstein, J. O’Gorman, E. Watrall). 58th Annual Meeting, Midwest Archaeological Conference, Inc., East Lansing, MI 2012

The Role of Information in Hunter-Gatherer Band Adaptations (with R. Whallon and R. Hitchcock). 73rd Annual Meeting of the Society for American Archaeology, Vancouver, British Columbia, Canada 2008 (**Published**)

Symposium in Honor of Margaret B. Holman (with J. G. Brashler). 54th Annual Midwest Archaeological Conference, Milwaukee, WI 2008 (**Published**)

Editor’s Workshop: Preparing Manuscripts for the *Midcontinental Journal of Archaeology*. 51st Annual Meeting, Midwest Archaeological Conference, Inc. Dayton, OH 2005

Mobility, Contact and Exchange in Temperate Mesolithic Europe (with R. Whallon and R. Donahue). 69th Annual Meeting of the Society for American Archaeology, Montreal, Quebec, Canada 2004 (**Published**)

Archaeology, Anthropology and Odontology Workshop (with N. Sauer and T. Fenton). Michigan State University, East Lansing, MI 2000, 2001, 2003, 2010 (Four sessions; see also 1988, 1993, 1999)

Archaeology, Anthropology and Odontology Workshop (with N. Sauer). Michigan State University, East Lansing, MI 1999

Conference Co-Coordinator and Program Co-Chair (with L. Goldstein). 45th Annual Meeting, Midwest Archaeological Conference, Inc. East Lansing, MI 1999

Plenary Session: Charles E. Cleland: Odysseus of the Upper Great Lakes. 45th Annual Meeting, Midwest Archaeological Conference, Inc. East Lansing, MI 1999 (**Published**)

Cultural Resources Training Workshop (with D. Lusch). USDA Natural Resources Conservation Service, Mount Pleasant, MI and Flint MI 1995

Archaeology, Anthropology, and Odontology Workshop (with N. Sauer). State of Wisconsin, Department of Justice, Wausau, WI 1993

Hunter Gatherer Adaptations to Lacustrine Environments (with S. Brandt). 56th Annual Meeting of the Society for American Archaeology, Las Vegas, NV 1990

Archaeology, Anthropology, and Odontology Workshop (with N. Sauer). Midwest Association of Forensic Scientists, Madison, WI 1988

Conference Coordinator and Program Chair, 31st Annual Meeting, Midwest Archaeological Conference, Inc. East Lansing, MI 1985

The Weber I Site: New Light on Archaic Adaptations in the Saginaw Valley, Michigan. 29th Annual Midwest Archaeological Conference, Iowa City, IA 1983 (**Published**)

Regional Paleoecology in Great Lakes Prehistory (with C. Larsen). 47th Annual Meeting of the Society for American Archaeology, San Diego, CA 1981

Regional Approaches in Archaeology: The Upper Great Lakes (with L. Goldstein). Annual Meeting of the Central States Anthropological Society, Milwaukee, WI 1979

Program Coordinator, Conference on Surveying Woodland Environments, Marquette, MI 1979

Program Chair, Anthropology Section, Annual Meeting of the Michigan Academy of Science, Arts, and Letters, 1974-1975

Conference Co-Coordinator and Program Chair, 19th Annual Meeting, Midwest Archaeological Conference, East Lansing, MI 1973

Selected Contributions to Teaching:

Graduate Student Major Advisor (n=21 Ph.D., n=7 M.A.): Marla M. Buckmaster (Ph.D. 1979), Michael R. Polk (M.A. 1979), Cheryl L. Cline (M.A. 1982), Philip J. Franz (M.A. 1984), Robert G. Kingsley (Ph.D. 1985), Randolph E. Donahue* (Ph.D. 1986), James A. Robertson* (Ph.D. 1987), William T. Langhorne (Ph.D. 1989), Caven P. Clark (Ph.D. 1991), Janet S. Dunn (M.A. 1992), Michael J. Hambacher (Ph.D. 1992), Kathryn C. Egan (Bruhy)* (Ph.D. 1993), David L. Ruggles (Ph.D. 2001), Frank J. Krist (Ph.D. 2001), Elisabeth A. Morrissey† (M.A. 2003), Ann M. Kroll Lerner* (Ph.D. 2006), Aaron J. Naumann (M.A. 2008), Shaun M. Phillips (M.A.-PAA 2010), Maria E. Raviele* (Ph.D. 2010), Marieka E. Brouwer* (Ph.D. 2011), Dillon H. Carr* (Ph.D. 2012), Jon W. Carroll (Ph.D. 2013), Jubin J. Cheruvelil (Ph.D. 2013), Sean B. Dunham* (Ph.D. 2014), Susan M. Kooiman* (Ph.D. 2018), Kathryn A. Frederick (Ph.D. 2019), Frank J. Raslich (M.A. 2010/ABD 2019), Nicole A. Raslich (M.A. 2011/ABD 2019).

(Note: Asterisks indicate recipients of Moreau S. Maxwell Scholar Award, MSU Department of Anthropology, for outstanding graduate student research. Nationally, students have been conferred the SAA Student Paper Award [S. Dunham], and received Honorable Mention for both the SAA Student Paper Award [K. Frederick], and the SAA Dissertation Award [K. Egan Bruhy]. Regional recognition by conferral of the Midwest Archaeological

Conference, Inc./University of Notre Dame Press Dissertation Prize [S. M. Kooiman, K. A. Frederick]).
External Reader: Claire McHale Milner (U Michigan Ph.D. 1998); Deborah K. Rhead (Western Michigan U M.A. 1992); Michael R. Fournier (Western Michigan U M.A. 2007); Mark A. Hill (Washington State U Pullman Ph.D. 2009); Caitlin A. Clark (MSU Geography M.A. 2017); Jacqueline Barry (Lakehead U MES 2017).

Undergraduate/Graduate Faculty Mentor:

MSU Professorial Assistants: Brent Shaffer (1989-1991); Aryn Bartley, Melissa Byers (1995-1996); Amy Davidhizer, Alexis Souter (1996-1997); Jaimie Ruggiero, John Lorinskas, Amy Davidhizar (1997-1998); Jaimie Ruggiero, John Lorinskas, Geraldine Barker (1998-1999); Christine Westbrook (1999-2000); Eric Hammerbacher (2000-2001); Sarah Wright (2003-2004); Rebecca Albert (2014-2016)

College of Social Science Gwen Andrew Assistantship: Brent Shaffer (1992-1993)

College of Social Science Dean's Assistantship: Rebecca Albert (2016-2017)

MSU Museum Studies Program Internship: Kathryn Brady (2011-2012)

MSU Museum Barbara Van Baalen Museum Internship: Katherine Hagman (2011-2012, with J. Lillis-Warwick/L. Swanson); Nicole A. Raslich (2016-2017, with L. Swanson)

(Note: Nationally, undergraduate student mentees have been recognized with receipt of National Science Foundation Fellowships [B. Shaffer, R. Albert], and the Society for American Archaeology/Institute for Field Research Undergraduate Student Paper Award [R. Albert]. Locally, MSU 2018 University Undergraduate Research and Arts Forum 1st Place Poster Award [R. Albert]).

Field School Courses: Eighteen field schools taught between 1974 and 2001; nine in North Yorkshire, UK, five in the Saginaw River drainage Michigan, three in northern lower Michigan, one in south central lower Michigan.

Co-Director with R. E. Donahue, *Archaeology in England*, Office of Study Abroad, MSU International Studies and Programs, 1996-2002, 2008 and 2009.

MSU Archaeology Program Philanthropy:

Co-founder (with D. J. Weir and K. C. Egan-Bruhy), *Alumni and Friends Expendable Fund for Archaeology*.

Department of Anthropology, College of Social Science, Michigan State University. 2017 and continuing.

Founder, *William A. Lovis Endowment for Environmental Archaeology*. Department of Anthropology, College of Social Science, Michigan State University. 2018 and continuing.

Donation of refurbished Clay Adams/Becton Dickenson & Co. Triac Centrifuge, and a Pelton & Crane OCM OmniClave autoclave to the Environmental Archaeology and Science Laboratory. 2022.

Editorial Activities:

Inaugural Editor, *Midwest Archaeological Perspectives* Book Series, University of Notre Dame Press and Midwest Archaeological Conference, Inc., 2017-2020

Editor, *Midcontinental Journal of Archaeology*, 2002-2005, Volumes 28(1)-30(2). (ISSN 0146-1109)

Editorial Board, *Midcontinental Journal of Archaeology*, 1995-2002. (ISSN 0146-1109)

Editorial Board, Michigan Indian Press, 1988-2000. (ISBN 0-9617707-1-6)

Assistant Editor, Current Research, *American Antiquity*, 1983-1990. (ISSN 0002-7316)

Editorial Board Member, *Publications in Anthropology*, Michigan State University Museum, 1973-1988.

Editor, *Archaeological Survey Reports*, Michigan State University Museum, 1975-2018.

Selected Certifications:

Analytical X-Ray Radiation Certification, Office of Environmental Health and Safety (EHS), Michigan State University, meeting requirements of Michigan Department of Consumer and Industry Services (MDCIS).

Certified Professional Archaeologist, Society of Professional Archaeologists (SoPA) 1976-1998; Register of Professional Archaeologists (RoPA ID 10588) 1998-present.

Social Studies Secondary Education Certification, New York State Education Department, Division of Teacher Education and Certification, 1 September 1969-1 September 1974.

Selected Grants for Field Research, Analysis, Training, Curation, Compliance and Development:

(Note: Between 1974 and 1999 I was PI or Co-PI on 130+ small grants and contracts totaling ~\$700,000)

- A Multidimensional Study of the Evolution of Woodland and Protohistoric Cooking Technology and Cuisine in the Upper Great Lakes (Institutional PI with Susan M. Kooiman). Doctoral Dissertation Improvement Grant, Archaeology and Archaeometry Program, National Science Foundation – 2017-2018. (\$9672)
- AMS and OSL Dates for Site 20LU115, Sleeping Bear Dunes National Lakeshore (Collaborator with PI Ashley Barnett, National Park Service Midwest Archaeological Center). 2017. National Park Service Funding. (MSU Allocation \$4000)
- AMS Dates for Great Lakes/Upper Midwest Region Archaic Sites (Collaborator with PI Beverley Smith). Eastern Archaic Faunal Working Group. 2017. (MSU Allocation \$3150)
- Pilot Protein Residue Analysis via CIEP of Curated 10-11,000 Year Old Paleoindian Stone Tools. Private Foundation Sources. 2016-2017. (\$2800)
- Synthesis of Landscape Evolution, Human Use, and Management of Site 20LU115, Sleeping Bear Dunes National Lakeshore, Michigan (with A. F. Arbogast and G. W. Monaghan). Midwest Archaeological Center, Cooperative Ecosystem Study Unit (CESU), U.S. National Park Service – 2015-2017 (\$40,996)
- Portable X Ray Fluorescence (pXRF) Light Element Analyzer: Student Use for Laboratory and Field (with T. Rooney). Joint Anthropology and Geology Department submission, Teaching and Learning Environment (TLE) Grant, Vice President for Research and Graduate Studies, Michigan State University - 2014 (\$44,778).
- MSU Subterranean Storage Replication Experiments Project (MSU SStoRE) Microbiological Testing (with Kathryn Frederick). Private Foundation Source. 2014. (\$200)
- Michigan State University Museum Archaeological Collections Stewardship Project: Compact Storage Upgrades to Cultural Collections Resource Center (with L. E. Swanson). Institute of Museum and Library Services, Museums for America Program – 2013-2014 (\$77,292 requested and awarded of \$151,296 total budget)
- Michigan's First Farmers: MSU Museum Exhibit and Traveling Exhibit (with M. Raviele and J. Fick). Collaborative funding from Conference on Michigan Archaeology, American Indian Studies Program, MSU Museum Endowment, College of Agriculture and Natural Resources - 2012 (\$3,500)
- Assessing Carbonized Archaeological Cooking Residues: Evaluation of Maize Phytolith Taphonomy and Density through Experimental Residue Analysis (Institutional PI with M. Raviele). Doctoral Dissertation Improvement Grant, Archaeology and Archaeometry Program, National Science Foundation – 2009-2010 (\$13,212)
- Testing for the Earlier Use of Maize: Phytolith Analysis of Ceramic Residues (Institutional PI with M. Raviele) – Wenner-Gren Foundation for Anthropological Research – 2008-2009 (\$14,160)
- Dune Activation and Archaeological Site Formation: A Taphonomic Perspective on Site Preservation and Prediction (with A. F. Arbogast, and G. W. Monaghan) – Intermodal Surface Transportation Enhancement Act (ISTEA)/Michigan Department of Transportation - 2005-2009 (\$261,421)
- MSU Museum Archaeological Collections Rehousing Project (with L. E. Swanson) - Institute of Museum and Library Sciences - 2005-2007 (\$125,475)
- Site Evaluation and Data Recovery at the Marquette Avenue Viaduct Replacement, Bay City, Bay County, Michigan - City of Bay City, Michigan Departments of State and Transportation, Federal Highway Administration - 2000-2002 (\$423,000)
- Hunter-Gatherer Mobility and Subsistence Strategies in the Yorkshire Dales (with R. E. Donahue, University of Bradford) - Arts and Humanities Research Board, England - 1999 (£21,809 awarded to the University of Bradford. AHRB only makes awards to UK institutions)
- Geoarchaeological Synthesis and Modeling: The Southern Lower Peninsula of Michigan (with G. William Monaghan) - Intermodal Transportation Enhancement Act (ISTEA)/Michigan Department of Transportation - 1999-2002 (\$146,000)
- Saginaw Bay Underwater Archaeological Project Pilot Technology Assessment (with M. B. Holman -- Coastal Zone Management Program, Michigan Department of Natural Resources - 1995 (\$9,818)
- Curation of Archaeological Collections from the Great Lakes Gas Transmission Pipeline Project --Great Lakes Gas Transmission Co, Inc., and Natural Resources Group, Inc. - 1995 (\$26,000)
- Acquisition and Curation of the W. A. Schmidt/I. W. Butterfield Archaeological Collection - Strosacker Foundation Grant – 1994/1995 (\$22,088)
- MSU Museum Compliance with Native American Graves Protection and Repatriation Act – Grant from the Office of the Vice President for Research and Graduate Studies (OVPRGS), Michigan State University – 1992-1993 (~\$50,000)

Phase III Analysis of Site 20AC51 (with E. J. Prah, Caminos Associates). Wiltse Development Corporation - 1992. (\$25,235)

Phase II Evaluation of Sites 20WN949 and 20WN959, Washtenaw County – City Management Corporation and City of Ann Arbor - 1992

Hiawatha National Forest Curation Project – United States Department of Agriculture, Forest Service – 1990-1991, 1991-1992, 1992-1993 (three consecutive collections curation intake awards; at actual cost)

Environment and Subsistence at the Schultz Site at Green Point - National Geographic Society Research Grant -- 1991 (\$9,950)

Environment and Subsistence Studies of the Marquette Viaduct Locale of the Fletcher Site -- National Geographic Society Research Grant - 1987 (\$9,000)

Ceramic Chronologies and Precision Dating in the Saginaw Valley of Michigan -- All University Research Initiation Grant - 1986 (\$3,000)

Conservation Assessment of the Fletcher Site Collection -- Institute of Museum and Library Services – 1985 (\$3,300)

Middle and Late Archaic Plant Utilization in the Saginaw Valley -- National Science Foundation Research Grant - 1985-1986 (\$16,293)

Data Recovery at the Third Street Bridge Replacement, Bay City: 20BY77, 20BY78 and 20BY79 -- City of Bay City, Michigan Departments of State and Transportation, Federal Highway Administration -- 1984-1985 (\$173,000)

Cooperative Curation Agreement for Seney National Wildlife Refuge. Fish and Wildlife Service, United States Department of Interior. – 1984 and continuing (collections curation intake awards; at actual cost)

Development of a Portable Vibracore Apparatus for Deep Archaeological Testing -- Grant from Vice President for Research and Michigan State University Development Fund -- 1983 (\$3,000)

Data Recovery at the Dehmel Road Bridge Replacement; 20SA581 and 20SA582 -- Saginaw County Road Commission, Michigan Departments of State and Transportation, Federal Highway Administration - 1982-1983 (\$123,323)

Archaeological Research on the Looking Glass River, Michigan -- State Historic Preservation Office –1979-1980 (\$19,000)

A Cultural Resource Management Program for the Huron-Manistee National Forest, Michigan -- United States Department of Agriculture, Forest Service - 1977-1978 (\$19,176)

An Assessment of Institutional Research Capabilities in Archaeology -- Conference on Michigan Archaeology - 1977-1978 (\$5,750)

A Probability Sample of the Hiawatha National Forest, Michigan -- United States Department of Agriculture, Forest Service - 1977-1979 (\$22,345)

A Cultural Resource Management Program for the Hiawatha National Forest, Michigan -- United States Department of Agriculture, Forest Service - 1976-1977 (\$14,000)

Archaeological Investigation of Fisherman's Island State Park -- Michigan Department of State - 1976 (\$14,000)

Archaeological Inventory and Evaluation of the Sleeping Bear Dunes National Lakeshore -- U.S. Department of the Interior, National Park Service - 1974-1976 (\$25,000)

The Prehistory of the Traverse Bay Area, Michigan (with Charles E. Cleland) -- National Science Foundation Research Grant - 1974-1977 (\$75,100)

Selected Grant, Contract and Professional Collaborations:

Charred Food Crust Dating (Linda Scott Cummings, PI) – National Science Foundation award to PaleoResearch Institute, Inc. – 2019-2020, ongoing collaboration

Largo Camino a Casa. Documentary Film on Return of an Andean mummy to the Plurinational State of Bolivia (Juan Pablo Urioste and Ana Fraile, Project Directors; Pulpo Films/Croma Films) – Intervenciones Urbanas, Proyectos de Produccion de Largometrajes, Cine y Audiovisual, Plurinational State of Bolivia - 2019-2020

GeneSys Regional Medical Center, Grand Blanc, Michigan (William Marsh and Nina Marsh, Co-PIs) – GeneSys Medical System and Terrasyn, Inc. - 1994-1995

St. Ignace Church Cemetery, Emmet County, Michigan (Wesley L. Andrews and Eleanor Andrews, Project Directors) – The Little Traverse Bay Band of Odawa Indians, Inc. - 1993

1991 Great Lakes Gas Transmission Limited Partnership Pipeline Expansion Projects (Mark C. Branstner, PI) - Great Lakes Research Associates, Inc. - 1990-1995

Tennessee Tombigbee Townsites Project, Mississippi (Charles E. Cleland, W. Lee Minnerly, Co-PIs) - Interagency Archaeological Services, U.S. Army Corps of Engineers Mobile District - 1979-1980
 4H Cooperative Youth Extension Grant (C. Kurt Dewhurst, Marsha MacDowell, Co-PIs) - National Endowment for the Humanities - 1978-1979

Selected Travel Funding, Awards, and Grants:

MESO 2015, Belgrade, Serbia; National Days of Science, Ministry of Science, Podgoriza, Montenegro – Special Foreign Travel Fund, MSU Center for International Studies and Programs, Center for European and Russian/Eurasian Studies, MSU Museum – 2015 (\$2000)
 Teaching Climate Change Workshop, Science Education Resource Center, American Quaternary Association Biennial Meeting - National Academies of Science – 2012 (\$1300)
 Society for American Archaeology Annual Meeting – American Indian Studies Program; Department of Anthropology; private sources – 2011, 2012, 2014, 2017, 2018 (\$1000, \$1100, \$1500, \$2000 total respectively)
 Invited international symposium *Collecting the Andes: Museums of Andean Art and Science in the Americas and Atlantic World*. Pennsylvania State University, University Park, PA, November 3-5, 2022. (Expenses + honorarium.

Field Research, Training and Major Programs (18 asterisked projects were dedicated or tandem field schools):

6/10-17, 20-24/2022; 7/30-31, 9/13/2022

Invited guest researcher, MSU Field School, USDA Rose Lake Plant Materials Center (PMC), Clinton County, Michigan, USDA Natural Resources Conservation Service (Co-PIs E.W.D. Quates and S. Camp); Guest researcher and instructor, Sites 20CL113/Rose Lake/USDA-1, 20CL114/Rose Lake/USDA-2, Clinton County, Michigan, USDA Natural Resources Conservation Service (PI E.W.D. Quates)

8/8-12/2021; 9-24-2021

Invited guest researcher, Indian River Drainage Lake Coring Project, Alger and Delta Counties, MI, Southern Illinois University Edwardsville (PI S.M. Kooiman); Invited guest researcher, Belson Site, St. Joseph County, MI, University of Michigan (PI H.W. Wright)

1/2016 to Present

Interdisciplinary and inter-institutional (n=7) documentation and analysis of a 500 year old Andean *chullpa* burial from vicinity south of LaPaz, Bolivia (Project Manager and Coordinator of Research Team)

9/15-17/2020

Guest field program participant, Geophysical Equipment Training, USDA Rose Lake Plant Materials Center (PMC), Clinton County, Michigan, USDA Natural Resources Conservation Service (PI E.W.D. Quates)

5/22/2019; March 2019 through 11/10-15/2019

Guest researcher and instructor, Sites 20CL113/Rose Lake/USDA-1, 20CL114/Rose Lake/USDA-2, Clinton County, Michigan, USDA Natural Resources Conservation Service (PI E.W.D. Quates); Pulpo Films/Croma Films documentary film *Largo Camino a Casa (The Long Road Home)* East Lansing, Michigan; interviews and videography (J.P. Urioste, A Friale, Co-Directors).

5/23/2018; 5/24-25/2018, 6/27-29/2018; 9/10-14/2018

Guest researcher and instructor, Sites 20CL113/Rose Lake/USDA-1, 20CL114/Rose Lake/USDA-2, Clinton County, Michigan, USDA Natural Resources Conservation Service (PI E.W.D. Quates); Oscoda Submerged sites, Iosco County, Michigan, with E Gravlin, Sr., E. Gravlin, Jr. and R. Przybylski (PI W.A. Lovis).

4/19/2017; 5/26-6/10/2017; 8/1-8/8/2017; 10/6-7/2017

Guest Researcher, Site 20MD35, Midland County, Michigan, with Michigan Department of Transportation (PI J. Robertson); Cache Pit Recording and Excavations, Emmet and Cheboygan County, Michigan (Co-Director with K. A. Frederick); Guest researcher, Site 20LU115 Environmental Change Study, Leelanau County, Michigan, with the Midwest Archaeological Center-Lincoln, National Park Service (PI A. Barnett); Longcore Site Exploratory Test Excavation, Leelanau County, Michigan (PI and Field Co-Director with G. W. Monaghan, Indiana University- Purdue University Indiana).

5/09-12/2016; 7/14/2016; 8/29/2016-9/02/2016; 9/30, 10/18 & 22//2016

South Manitou Island Ancient Cedars Dendrochronology Project, Leelanau County, Michigan, with the MSU Department of Botany (Co-PI with F. Telewski); Sleeping Bear Dunes Landscape Evolution Project, Benzie and

- Leelanau Counties, Michigan, with the MSU Department of Geography and the Indiana Geological Survey, Indiana University (Co-Director with G. W. Monaghan and A.F. Arbogast); Arsnoe site survey, Antrim County, MI; Field Advisor to MSU Subterranean Storage Replication Experiments Project (MSU SStoRE), Ingham County, Michigan (Directed by K. A. Frederick).
- 10/9, 14, 24/2015; 11/3, 20/2015; 12/18/2015
 Site Survey, Longcore Site, Leelanau County, Michigan (PI and Field Director); Hipwater Parkhill Paleoindian Locale and Green Acorn Cache Site Excavation, Shiawassee County, Michigan (PI and Field Director).
- 5/04-05/2015, 08/17-22/2015, 10/7-8/2015, 12/29-31/2015
 Sleeping Bear Dunes Landscape Evolution Project, Benzie and Leelanau Counties, Michigan, with the MSU Department of Geography and the Indiana Geological Survey, Indiana University (Co-Director with G. W. Monaghan and A.F. Arbogast)
- 5/12-17/2014; 7/2014, 9/25-29/2014; 10/30-11/01/2014
 Sleeping Bear Dunes Pilot Geoarchaeology Project, Benzie and Leelanau Counties, Michigan, with the MSU Department of Geography and the Indiana Geological Survey, Indiana University (Co-Director with G. W. Monaghan and A.F. Arbogast); Carp Creek East Test Excavations, Cache Pit Recording and Excavations, Emmet and Cheboygan County, Michigan (Guest Researcher, Directed by M. Howey); Dune Geomorphology and Geoarchaeology, AuSable River, Iosco County, Michigan, with the MSU Department of Geography and The Indiana Geological Survey, Indiana University (Co-Director with A.F. Arbogast and G.W. Monaghan); Tobico Marsh Human Environment Project, Bay County, Michigan, with the MSU Department of Geography (Collaborator with C. Yansa and C. Clark)
- 7/12/2013; 7/28/2013-8/2/2013
 Dune Geomorphology and Geoarchaeology, AuSable River, Iosco County, Michigan, with the MSU Department of Geography and The Glenn A. Black Laboratory of Archaeology, Indiana University (Co-Director with A.F. Arbogast and G.W. Monaghan; Guest Scientist and Lecturer, Grand Island Archaeological Project Field School, Illinois State University (Directed by J.M. Skibo)
- 11/08, 13, 27/2012; 4/12, 13, 16 and 11/08, 15/2013; 4/31/2014
 Field Advisor to MSU Subterranean Storage Replication Experiments Project (MSU SStoRE), Fenner Nature Center, City of Lansing, Ingham County, Michigan (Directed by K. A. Frederick).
- 6/25/2012-7/3/2012; 7/14/2012-7/25/2012
 Guest researcher, Hiawatha National Forest Site Survey, Monitoring of Sites FS 09-10-05-010 and 05-452, Mackinac County, Michigan, CCRG, Inc. (Directed by S. B. Dunham); Coastal dune archaeological and geological site coring, multiple sites, Mackinac County, Michigan, with the MSU Department of Geography and The Glenn A. Black Laboratory of Archaeology/Mather Museum, Indiana University (Co-Director with A. F. Arbogast and G. W. Monaghan)
- 6/18/2012-6/21/2012
 Invited Scientist and Lecturer, "Teaching Climate Change: Insight from Large Lakes" Workshop, University of Minnesota, Large Lakes Observatory, Duluth, Minnesota. Science Education Research Center (SERC), Carleton College. Sponsored by AMERICAN QUATERNARY ASSOCIATION (AMQUA), INTERNATIONAL QUATERNARY ASSOCIATION (INQUA), NATIONAL SCIENCE FOUNDATION, NATIONAL ACADEMIES OF SCIENCE.
- 7/01/2010-7/31/2010
 *The Otley Bridge End Surveys and Test Excavations, Yorkshire Dales Hunter Gatherer Research Project, Otley, Wharfedale, West Yorkshire, England; with The University of Bradford (Co-PI and Field Director with R. E. Donahue)
- 5/21/2009-6/03/2009
 *The Otley Bridge End and Sandbeds Sites 1 to 4 Assessment, Otley, Wharfedale, West Yorkshire, England, Mesolithic site and paleolake survey, and laboratory research, analysis, and writing, Yorkshire Dales Hunter Gatherer Research Project, with The University of Bradford (Co-PI and Field Director with R. E. Donahue)
- May and September 2008
 Scott Point Site (20MK22), Mackinac County, Michigan. Dune and archaeological site coring with the MSU Department of Geography and The Glenn A. Black Laboratory of Archaeology, Indiana University (Co-PI and Director with A. F. Arbogast and G. W. Monaghan)
- 6/11/2007-6/29/2007; 10/2007 and 11/2007
 Coastal dune archaeological and geological site coring, north and east coasts of Lake Michigan, multiple sites, with the MSU Department of Geography and The Glenn A. Black Laboratory of Archaeology, Indiana University (Co-PI and Director with A. F. Arbogast and G. W. Monaghan)

5/22/2006-6/23/2006; 10/2006-7/2006

Coastal dune archaeological and geological site coring, north and east coasts of Lake Michigan, multiple sites, with the MSU Department of Geography and The Glenn A. Black Laboratory of Archaeology, Indiana University (Co-PI and Director with A. F. Arbogast and G. W. Monaghan)

2006-2007

Hunter-gatherer mobility and territory in northern Britain: Pilot Study in Northumberland, England, with the University of Bradford (Co-PI with R. E. Donahue, K. Pedersen, & A. A. Evans)

6/06/2005-7/08/2005; 7/09/2005-7/23/2005

*Saints' Rest Site (20IN169) Archaeological Field School, Michigan State University Sesquicentennial Project, Ingham County, Michigan (Co-Director with L. G. Goldstein, J. A. O'Gorman, K. E. Lewis); Laboratory research, analysis, and writing, East and West Yorkshire, England, with The University of Bradford (Co-PI and Field Director with R. E. Donahue)

7/04/2004-7/18/2004; May, June, November 2004

*Laboratory research, analysis, and writing, East and West Yorkshire, England, with The University of Bradford (Co-PI and Field Director with R. E. Donahue); Nipissing II site (20AN54) survey, mapping, pollen coring, Antrim County, Michigan (Co-Director with J. A. O'Gorman and C. Yansa)

7/12/2002-8/09/2002

*Malham Tarn Site A Excavations, Yorkshire Dales Hunter Gatherer Research Project, North Yorkshire, England; with The University of Bradford (Co-PI and Field Director with R. E. Donahue)

7/13/2001-8/10/2001

*Hornby Laithe, Caton Barn, Pignut, and Clay Pipe Field Site Excavations, Yorkshire Dales Hunter Gatherer Research Project, North Yorkshire, England; with The University of Bradford (Co-PI and Field Director with R. E. Donahue)

5/15/2000-7/8/2000

*Marquette Viaduct Bridge Replacement Sites (20BY28 and 20BY387) Excavations, Saginaw Bay Archaeological Project, Bay City, Bay County, Michigan (PI and Field Director)

7/16/99 - 8/13/99

*Dibb Sites and Bland Sites Excavations, Yorkshire Dales Hunter Gatherer Research Project, North Yorkshire, England; with The University of Bradford (Co-PI and Field Director with R. E. Donahue)

7/17/98 - 8/13/98

*Malham Tarn Site A Excavations, Yorkshire Dales Hunter Gatherer Research Project, North Yorkshire, England; with The University of Bradford (Co-PI and Field Director with R. E. Donahue)

7/11/97 - 8/15/97

*Malham Tarn Site A Excavations, Yorkshire Dales Hunter Gatherer Research Project; North Yorkshire, England; with The University of Bradford (Co-PI and Field Director with R. E. Donahue)

7/20/96 - 7/27/96

*Malham Tarn Site A Excavations, Yorkshire Dales Hunter Gatherer Research Project; North Yorkshire, England; with The University of Bradford (Co-PI and Director with R. E. Donahue)

6/1/93-7/30/93; 8/23/93 - 8/27/93

St. Ignatius Church Cemetery (20EM84) Survey; Emmet County, Michigan (PI, Field Director with W. and E. Andrews); Kantzler Site (20BY30) Test Excavations, Saginaw Bay Archaeological Project; Bay City, Bay County, Michigan (Co-PI and Field Director with E. J. Prah, Caminos Associates, Inc.)

6/24/91 - 8/17/91

*Schultz Site (20SA2) Excavations, Saginaw Bay Archaeological Project; Saginaw County, Michigan (PI and Field Director)

7/22/88 - 7/25/88, 8/2/90 - 8/5/90

Engelhard Site and Gull Island Sites (20AC51 and 53) Excavations, Saginaw Bay Archaeological Project, Little Charity Island and Gull Island; Arenac County, Michigan (Director with E.J. Prah, Caminos Associates, Inc.)

11/11/87 - 11/16/87; 5/12/88 - 5/17/88

*Marquette Viaduct Locale of the Fletcher Site (20BY28) Excavations, Saginaw Bay Archaeological Project; Bay City, Bay County, Michigan (PI and Field Director)

10/1/86 -3/31/87

University of Michigan, Ann Arbor. Sabbatical leave for archival research on the Great Lakes Late Archaic, including writing book chapters, articles and research grant proposals.

Fall 1986

Defoe Park Locale of the Fletcher Site (20BY28) Excavations, Saginaw Bay Archaeological Project; Bay City, Bay County, Michigan (PI and Field Director)

7/15/84 - 9/10/84

*Liberty Bridge Replacement Sites (20BY77, 20BY78, and 20BY79) Excavations, Saginaw Bay Archaeological Project; Bay City, Bay County, Michigan (PI and Field Director)

8/2/82 - 9/13/82

*Weber I (20SA581) and Weber II (20SA582) Site Excavations, Saginaw Bay Archaeological Project; Saginaw County, Michigan (PI and Field Director)

10/2-11/1/1979

Sanuskar Site (20JA150) Excavations; Jackson County, Michigan (Co-Director with N. J. Sauer); Looking Glass River Survey Project; Ionia, Clinton, and Shiawassee Counties, Michigan (PI and Field Director)

6/15/79 - 8/22/79

*Looking Glass River Archaeological Survey Project; Ionia, Clinton, and Shiawassee Counties, Michigan (PI and Field Director)

9/23-10/14/1978

Sanuskar Site (20JA150) Rescue Excavations; Jackson County, Michigan (Project Co-Director with N. J. Sauer)

6/21/78 - 6/28/78

U.S. - 31 Survey Project; Mason County, Michigan (PI and Field Director)

3/24/77 - 3/30/77

Childers Site (20LP98) Rescue Excavations; Lapeer County, Michigan (PI and Field Director)

6/15/76 - 8/1/76

Fisherman's Island State Park Survey and Test Excavation Project; Charlevoix County, Michigan (PI and Field Director)

6/15/75 - 8/22/75

*Johnson (20CN46), Portage (20EM22), MacAlpin (20CN9) and Screaming Loon (20EM23) Site Excavations, Inland Waterway Excavation Project; Emmet, and Cheboygan Counties, Michigan (Co-PI and Co-Field Director with C. E. Cleland); Sleeping Bear Dunes National Lakeshore Survey Project, Leelanau and Benzie Counties, Michigan (PI and Field Director)

10/12/74 - 10/26/74

Harbor Beach Survey Project; Huron County, Michigan (PI and Field Director)

8/1/74 - 8/23/74

Sleeping Bear Dunes National Lakeshore Survey and Test Excavation Project; Leelanau and Benzie Counties, Michigan (PI and Field Director)

6/15/74 - 7/23/74

*Inland Waterway Survey and Excavation Project; Emmet and Cheboygan Counties, Michigan (Co-PI and Field Director with C. E. Cleland)

5/1/72 - 6/15/72

Pine River Channel Site (20CX19) Excavations, Traverse Corridor Project; Charlevoix County, Michigan (Field Director; PI C.E. Cleland)

6/15/71 - 9/1/71

O'Neil (20CX18) and Pine River Channel Site (20CX19) Excavations, Traverse Corridor Project; Charlevoix County, Michigan (Field Co-Director with PI C. E. Cleland)

6/15/70-9/4/70

Ponshevaing Point Site (20EM18) Excavations, Traverse Corridor Project, Assistant Director; Emmet County, Michigan (Assistant Field Director, PI and Director C.E. Cleland)

6/16/69-9/5/69; Fall 1969

O'Neil (20CX18) and Eagle Island Site (20CX24) Excavations, Traverse Corridor Project; Charlevoix and Emmet Counties, Michigan. North Manitou #3 Site Mapping Project, Leelanau County, Michigan (Field Assistant, PI and Director C.E. Cleland)

Spring 1969

Glen Cove Site Test Excavations; Nassau County, New York; New York University (Field Assistant, Directed by B. Salwen)

6/17/68-9/6/68

Fletcher Site (20BY28) Rescue Excavations; Bay City, Bay County, Michigan (Field Assistant, PI and Director M.S. Maxwell)

Spring 1968

Smoking Point Site Test Excavations; Staten Island, New York; New York University (Field Assistant, Directed by B. Salwen)

6/12/67-9/8/67

Traverse Corridor Survey Project, Antrim, Kalkaska, and Grand Traverse Counties, Michigan; Antrim Creek Site, Henderson Lamb Site Test Excavations (Field Assistant, PI and Director C. E. Cleland); Fletcher Site (20BY28) Rescue Excavations, Bay City, Bay County, Michigan (Field Assistant, PI and Director M.S. Maxwell)

Selected Forensic Archaeology Experience:

2009. Tireman-Colfax homicide case field investigations. Federal Bureau of Investigation (FBI) Detroit Office.

Oversight of field procedures for discovery and excavations at suspected disposal site, Detroit, MI.

2006. James B. Hoffa field investigations. Federal Bureau of Investigation (FBI) Detroit Office. Oversight of field procedures for discovery and excavations at suspected disposal site, Wixom, MI.

2005. Retrial of Randy Laufer homicide case (People v McRae). Clare County Sheriff Department, Clare County Prosecutor's Office, Michigan Department of Attorney General Criminal Division. Daubert hearing and expert witness testimony in retrial proceedings.

1997/1998. Randy Laufer homicide case (People v McRae). Clare County Sheriff Department, Clare County Prosecutor's Office, Michigan Department of Attorney General, Criminal Division. Supervised field investigations of crime scene, and testified as expert witness in pretrial and trial proceedings.

1984/1985. Robin Adams homicide case (People v Garza). Michigan Department of State Police, Michigan Department of Attorney General, Criminal Division. Trained investigators in search procedures, supervised recovery of remains, and testified as an expert witness in trial proceedings.

1988 to 2018. I have both co-organized and participated in a series of forensic training workshops on the systematic recovery of human remains (see Conferences and Symposia Organized).

General: I have been involved in numerous search and discovery procedures with various and at times multiple state and Federal law enforcement agency jurisdictions, including county Sheriff's departments and municipal police departments, Michigan Department of State Police (MSP), Drug Enforcement Administration (DEA), Bureau of Alcohol, Tobacco and Firearms (ATF), and the Federal Bureau of Investigation (FBI). My more recent pre-retirement work has been with the Huron County Sheriff's Department, Jackson County, Michigan, Prosecutor's Office, the Roseville, Michigan Hoffa investigation by the Roseville Police Department, MSP human remains recovery and email consultation, and in FBI human remains searches and recovery training. I have also been an organizer or invited participant in law enforcement training workshops, most recently with the Michigan State Police Crime Lab and the FBI on crime scene recording techniques, and Professional Forensic Resources LLC on Death Investigation.

Selected Repatriation Activities under NAGPRA, International Statutes, and Bilateral Accords:

1/2016 to 1/22/2019 (Analysis continuing to present)

Documentation and analysis of mummified human remains and associated artifacts repatriated to the PluriNational State of Bolivia (PSB) under bilateral accords. I continue documentation of an Andean mummy presented to Michigan State University in 1890 by William B. McCreery, U.S. Consul to Chile and MAC Board of Trustees member. AMS ages cluster in the mid 15th century CE. The mummy dates to the 15th c CE, is Inca, reportedly from the Andes Mountains south of La Paz, Bolivia, from a stone tower (*chullpa*). Formal deaccessioning by act of the MSU Board of Trustees on 26 October 2018. Transmittal to the Bolivian Embassy completed 22 January 2019. She arrived at the National Archaeology Museum in LaPaz 5 August 2019. Collaboration with G. Wrobel (MSU), J. Capriles (Pennsylvania State U), D. Trigo (Ministry of Culture and Tourism and the Museum of Archaeology, PSB), the U.S. Department of State, the U.S. Drug Enforcement Administration, and others. MSU Museum Accession Number 943 (Deaccessioned).

2015 to 5/17/2016

Return of Marquette Mission site (20MK82) Native American human remains and associated funerary objects curated at the MSU Museum and derived from St. Ignace, MI, to the City of St. Ignace, St. Ignace, MI, for repatriation to the Sault Ste. Marie Tribe of Chippewa Indians. Administrative oversight, with Jodie A. O'Gorman, Jaclyn Lillis Warwick, and Todd Fenton, of inventory, consultation, and final disposition to the

Sault Ste. Marie Tribe of Chippewa Indians, undertaken as MSU Museum Curator of Anthropology. Coordinated and hosted repatriation ceremony at MSU Museum.

2015

Consultation, with Jaclyn Lillis Warwick, on NAGPRA compliance with the Department of Anthropology Laboratory of Forensic Anthropology, related to Native American human remains associated with completed forensic investigations and associated with multiple jurisdictions and locations.

2014/2015

Morgantina, Sicily, East Granary. This small collection of soil samples derived from excavations at the pre Roman and Roman site of Morgantina in central Sicily. Professor Emeritus Paul Deussen of the Department of Art History retired in 2001. He was unaware that the collection was not among the items he removed upon retirement, being housed at the Consortium for Archaeological Research. With the assistance of Dr. John Frey of the Department of Art and Art History Dr. Deussen was contacted in Wisconsin, and the collection was returned to him in 2016 for disposition to the appropriate Italian curatorial facility.

5/2014

Repatriation of Sanuskar site (20JA150) Native American human remains and associated funerary objects derived from Jackson, MI, to the Pokagon Band of Potawatomi Indians, Dowagiac, MI. Administrative oversight, with Jaclyn Lillis Warwick, of inventory, consultation, site visits, deaccessioning, and final repatriation disposition to the tribe, under provisions of the Native American Graves Protection and Repatriation Act (NAGPRA), undertaken as MSU Museum NAGPRA Compliance Officer.

5/2003 to 12/2009

Museum Administrative Coordinator for the return of Professor Moreau S. Maxwell's Baffin Island research collections, and documents, to the Canadian National Museum of Civilization, Ottawa. Between 1960 and his retirement in 1985 Professor Moreau S. Maxwell engaged in the collection of archaeological materials from locations on Baffin Island and adjacent areas. Upon his passing large quantities of field notes, artifacts, photographs, maps and other documentation remained dispersed at Michigan State University. Since their collection many of the collections had become subject to provisions of the Migratory Bird Species Act, Migratory Mammals Act, the Marine Mammals Act, and international accords on the movement of ivory. With liaison Dr. Patricia Sutherland I effected the return of the vast majority of these holdings to Canada.

1998/1999

Repatriation of Lasanen site (20MK21) Native American human remains and associated funerary objects derived from St. Ignace, MI, to the Little Traverse Bay Band of Odawa Indians (LTBBOI), Petoskey, MI. Complete administrative oversight of inventory, consultation, site visits, deaccessioning, and final repatriation disposition to the tribe under provisions of the Native American Graves Protection and Repatriation Act (NAGPRA), undertaken as MSU Museum NAGPRA Compliance Officer.

1997/1998

Repatriation of Fletcher site (20BY28) Native American human remains and associated funerary objects derived from Bay City, MI, to the Saginaw Chippewa Indian Tribe (SCIT), Mt. Pleasant, MI. Complete administrative oversight of inventory, consultation, site visits, deaccessioning, and final repatriation disposition to the tribe under provisions of the Native American Graves Protection and Repatriation Act (NAGPRA), undertaken as MSU Museum NAGPRA Compliance Officer.

1990-1994

Initial compliance with inventory, reporting, and notification provisions of the Native American Graves Protection and Repatriation Act (NAGPRA, PL 101-601 of 1990), with internal support from the MSU Office of the Vice President for Research. All Native American human remains, associated funerary objects, unassociated funerary objects and obvious objects of cultural patrimony were inventoried at multiple scales from individual Federally Recognized Tribe, to state, and to regional provenience. Notifications were sent to all Federally Recognized Tribes of potentially associated holdings. Full administrative oversight, undertaken as MSU Museum Curator of Anthropology and NAGPRA Compliance Officer.

1990

With Dr. Norman J. Sauer conducted a full inventory and assessment of the Native American human remains in possession of the Public Museum of Grand Rapids, Grand Rapids, MI. This resulted in reorganization of the human remains, recommendations for actions to place the institution in compliance with the Native American Graves Protection and Repatriation Act (NAGPRA), and production of a report (Lovis, W. A. and N. J. Sauer. 1990. *Public Museum of Grand Rapids Human Remains Inventory and Assessment*)

1973-1974

As MSU Museum Curator of Great Lakes Archaeology assisted Curator of Anthropology Charles Cleland to deaccession and repatriate to the Pokagon Potawatomi the Winchester family patrimonial pipe and club, used in several treaty negotiations with the United States government.

Publications – Books and Research Monographs:

12. **Lovis, W. A.**, G. W. Monaghan, and A. F. Arbogast (Coauthors). 2019. *Site 20LU115, Sleeping Bear Dunes National Lakeshore: Synthesis of Archeological and Environmental Data Recovery*. Technical Report, No. 145. National Park Service, Midwest Archeological Center, Lincoln, Nebraska. Limited Distribution. (vi+94 pp, figures, references, appendices) <https://www.nps.gov/mwac/publications/spec.html>
11. **Lovis, W. A.** and R. Whallon (Co-editors and Contributor). 2016. *Marking the Land: Hunter-Gatherer Creation of Meaning in their Environment*. Routledge/Taylor and Francis, New York and London. (xiv+297 pp, figures, references) (cloth: ISBN 978-1-138-95099-3; ebook: ISBN 978-1-315-66845-1)
 *Reviewed by: B. Tavakolian, *CHOICE: Anthropology* 54(6) www.choiceconnect.org. February 2017.; R.K. Hitchcock. Hunters and gatherers past and present: Perspectives on diversity, teaching and information transmission. *Reviews in Anthropology*. 2019. <https://doi.org/10.1080/00938157.2019.1578025>; A. Cannon. *Alaska Journal of Anthropology* 15(1 & 2):160-161. 2017. https://www.alaskaanthropology.org/wp-content/uploads/2018/01/AJA_15_2017-BookReviews.pdf
10. Brouwer-Burg, M. E., J. H. M. Peeters and **W. A. Lovis** (Co-editors and Contributor). 2016. *Uncertainty and Sensitivity Analysis in Archaeological Computational Modeling*. Interdisciplinary Contributions to Archaeology. Springer International Publishing, Switzerland. (xx+274 pp, figures, references) (Refereed, Cloth: ISBN 978-3-319-27831-5; ebook: ISBN 978-3-319-27833-9)
 *Reviewed by: T. Braughmans and I. Romanowska, 2016. *Journal of Artificial Societies and Social Simulation* 19(4) ASSS.soc.surrey.uk; P.C. Livingood, 2021. *American Antiquity*. <https://doi.org/10.1017/aaq.2021.89>; X. Rubio-Campillo. 2017. *European Journal of Archaeology* 20(3):565-568; B. Marwick. 2018. *Journal of Anthropological Research*, Fall 2018 74(3):424-425.
9. Raviele, M. E. and **W. A. Lovis** (Co-editor and Contributor). 2014. *Reassessing the Timing, Rate and Adoption Trajectories of Domesticated Use in the Midwest and Great Lakes*. Occasional Papers Volume 1. Midwest Archaeological Conference, Inc. (Digital On-Line Open Access Publication, Refereed ISSN 2372-9899, <http://www.midwestarchaeology.org/home>)
8. **Lovis, W. A.**, A. F. Arbogast and G. W. Monaghan (Coauthors). 2012. *The Geoarchaeology of Lake Michigan Coastal Dunes*. Environmental Research Series No. 2. Michigan Department of Transportation, Michigan State University Press, East Lansing. (xvi+235 pp, figures, references, appendices) (Refereed, Paper: ISBN 978-1-61186-051-1)
 * Reviewed by: A. W. Stewart, *Geoarchaeology: An International Journal* 32(5):599-600. (ISSN 0883-6353; ISSN electronic 1520-6548) DOI: 10.1002/gea.21640; J. T. Jordan, *Environmental Archaeology* 19:176. 2014. (ISSN 1461-4103); L. J. Crawford, *Journal of the Iowa Archaeological Society* 60:39-41. 2013. (ISSN 0535-5279); C. L. Hill, *Journal of Island and Coastal Archaeology* 8(1):147-148. 2013. (ISSN 1556-4894 print); A. F. Halfen, *The Holocene* 23(9):1369-1370. 2013. (ISSN 1461-4103)
7. Whallon, R., **W. A. Lovis** and R. K. Hitchcock (Co-editors and Contributor). 2011. *Information and Its Role in Hunter-Gatherer Bands*. Ideas, Debates and Perspectives 5. Cotsen Institute of Archaeology Press, University of California – Los Angeles, Los Angeles. (xvi+368 pp., 55 Figures and Plates, References) (Refereed, Paper: ISBN 978-1-931745-64-2; Cloth: ISBN 978-1-931745-63-5)
 * Reviewed by: L. Strauss, *Journal of Anthropological Research* 68(4):581-584. 2012; M. Sapignoli, *Reviews in Anthropology* 43(1):35-78. 2014.
6. Monaghan, G. W. and **W. A. Lovis** (Coauthor, with contributions by M. J. Hambacher). 2005. *Modeling Archaeological Site Burial in Southern Michigan: A Geoarchaeological Synthesis*. Environmental Research Series No. 1. Michigan Department of Transportation, Michigan State University Press, East Lansing. (v+278 pp, figures, tables, bibliography, appendices, 8.5 x 11, CD-ROM). (Refereed, Paper: ISBN 0-87013-738-7)
 * Reviewed by: C. R. Stafford, *Geoarchaeology: An International Journal* 22(8):942-944. 2007. (ISSN 0883-6353; ISSN electronic 1520-6548); A. M. Stewart, *Ontario Archaeology* 91:58-61. 2011. (ISSN 00784672)
5. **Lovis, W. A.** (Editor and Contributor). 2004. *An Upper Great Lakes Archaeological Odyssey: Essays in Honor of Charles E. Cleland*. Cranbrook Institute of Science, Bloomfield Hills. (xiv + 247 pp, figures, tables, references, index, 6 x 9). (ISBN 0-87737-045-1)

- * Reviewed by: W. A. Fox, *Canadian Journal of Archaeology* 30(1):109-112. 2006.
4. **Lovis, W. A.** (Editor and Contributor) . 2002. *A Bridge to the Past, The Post-Nipissing Archaeology of the Marquette Viaduct Replacement Sites 20BY28 and 20BY387*. MSU Museum and Department of Anthropology, Michigan State University, East Lansing. (xii+ 427 pp, figures, tables, bibliography, appendices, 8.5 x 11).
 3. Donahue, R. E. and **W. A. Lovis** (Co-editor and Contributor). 2000. *Yorkshire Dales Hunter-Gatherer Research Project Interim Report 1999*. Bradford Archaeological Sciences Research Series 8. University of Bradford, Bradford, UK. (iv + 33 pp, figures, tables, bibliography, 8.5 x 11.75). (ISSN 1361-3316)
 2. **Lovis, W. A.** (Editor and Contributor). 1993. *The Archaic, Woodland, and Historic Period Occupations of the Liberty Bridge Locale, Bay City, Michigan*. Michigan Cultural Resource Investigation Series, Volume 3. Michigan Departments of Transportation and State, Lansing. (xii+449 pp, figures, tables, appendix, bibliography, 8.5 x 11). (ISBN 0-9623670-2-8)
 1. **Lovis, W. A.** (Editor and Contributor). 1989. *Archaeological Investigations at the Weber I (20SA581) and Weber II (20SA582) Sites, Frankenmuth Township, Saginaw County, Michigan*. Michigan Cultural Resource Investigation Series, Volume 1. Michigan Departments of Transportation and State, Lansing. (xi + 388 pp., figures, tables, appendix, bibliography, 8.5 x 11). (ISBN 0-9623670-0-1)

Publications - Guest Edited Journal Issues:

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8. **Lovis, W. A.** G. William Monaghan (1951-2018). Conference on Michigan Archaeology ListServe; Midwest Archaeological Conference, Inc. website. www.midwestarchaeology.org
- 3-7. **Lovis, W. A.** Moreau Sanford Maxwell (1918-1998). *Bulletin of the Society for American Archaeology* 16(2):10. 1998; *Anthropology Newsletter* 39(4): 27-28. 1998; *Arctic* 51(2):179-180. 1998; *Associate, Newsletter of the Associates of Michigan State University Museum* 15(3):14. 1998; *College of Social Science Updates* May 1998:11.
2. **Lovis, W. A.** and F. C. Roberts. Jerome A. Voss. *Anthropology Newsletter* 37(7):8. 1996.
1. **Lovis, W. A.**, C. E. Cleland and B. Mead. In Memoriam: Earl Jean Prahl. *The Michigan Archaeologist* 37(4):298-304. 1991.

Publications - In Preparation:

- Chen, H., A. Baetsen-Young, A. Thompson, B. Day, **W. Lovis**, G. Wrobel. Archaeological Bolivian maize genomes suggest diversity is associated with Inca culture and environmental variation in South America. To be submitted to *Proceedings of the National Academy of Science*.
- Yann, J., H. Walder, **W. A. Lovis**. A Reanalysis of the Early Historic Component at the O’Neill Site (20CX18). To be submitted to *Midcontinental Journal of Archaeology*.
- Donahue, R. E. and **W.A. Lovis**. The 2010 Otley Bridge End Archaeological and Paleoenvironmental Survey. To be submitted to the *Yorkshire Archaeological Journal*.
- Lovis, W.A.** The Longcore Site, Grand Traverse County, Michigan: 2015 and 2017 Field Investigations at a Small Final Stage Biface Reduction Locale. In preparation for submission to *The Michigan Archaeologist*.
- Lovis, W.A.** Natural Features, Landscape Marking and Sacred and Secular Spaces: The Birney “Mound” in the City of Bay City. In preparation for submission to *American Anthropologist*. (ISSN 0002-7294)

Selected Limited Distribution Technical Monographs (not published):

- Lovis, W. A.**, M. B. Holman, M. W. Holley and K. C. Vrana. 1996. *Saginaw Bay Archaeological Project: Pilot Technology Assessment*. Report submitted to Coastal Zone Management Program, Michigan Department of Environmental Quality (Contract No. 95D-0.07). Michigan State University, East Lansing.
- Holman, M. B. and **W. A. Lovis** (Editor and contributor). 1993. *A Phase I Archaeological Survey of the Marquette Avenue Viaduct Replacement, Part I*. Archaeological Survey Report Number 129. Michigan State University Museum, Michigan State University, East Lansing. (ii +73 pp, figures, references, appendices)
- Andrews, W. L., E. Andrews, and **W. A. Lovis**. 1993. *An Archaeological Survey of the St. Ignatius Church Cemetery in Emmet County, Michigan (20EM84)*. Report prepared for the Little Traverse Bay Bands of Odawa Indians, Inc. (iv+87 pp, figures, references, appendices)
- Lovis, W. A.**, R. G. Kingsley, P. K. Forsberg, and D. C. Hodges. 1980. *The Looking Glass River Archaeological Project: 1979 Season*. Archaeological Survey Report Number 41. Michigan State University Museum, Michigan State University, East Lansing. (ix +126 pp, figures, references, appendices)
- Lovis, W. A.** 1979. *A Cultural Resource Management Study of the Hiawatha National Forest, Michigan: Phase II, The Hypothesis Tests*. Archaeological Survey Report Number 36. Michigan State University Museum, Michigan State University, East Lansing. 1979. (iv +152 pp., figures, references, appendices)

- Lovis, W. A.**, T. Langhorne and S. VanArsdel. 1978. *A Cultural Resources Overview of the Huron-Manistee National Forest, Michigan*. Archaeological Survey Report Number 32. Michigan State University Museum, Michigan State University, East Lansing. (Six volumes; iii + 765 pp., figures, references, appendices)
- Lovis, W. A.** 1978. *An Archaeological Survey of the Proposed US-31 Freeway Mason County, Michigan: Washington Road to US-10*. Archaeological Survey Report Number 29. Michigan State University Museum, Michigan State University, East Lansing.
- Lovis, W. A.**, R. C. Mainfort and V. E. Noble. 1976. *An Archaeological Inventory and Evaluation of the Sleeping Bear Dunes National Lakeshore*. Archaeological Survey Report Number 5. Michigan State University Museum, Michigan State University, East Lansing. (vi +114 pp., figures, references, appendices)
- Lovis, W. A.** (editor and contributor). 1976. *Archaeological Investigations within Fisherman's Island State Park: 1976 Season*. Archaeological Survey Report Number 10. Michigan State University Museum, Michigan State University, East Lansing. (vi +152 pp, figures, references, appendices)
- Prahl, E. J. and **W. A. Lovis**. 1975. *An Evaluation of the Impact of the Keweenaw Bay Campground, Baraga County, Michigan, Upon the Sand Point Site*. Archaeological Survey Report Number 4. Michigan State University Museum, Michigan State University, East Lansing.

Digital Document Posting:

- Lovis, W. A.** (Layout design by A. Upton). 2012-2014. *Preparing Manuscripts for Publication in the Midcontinental Journal of Archaeology*. PDF style guide posted as an electronic document at the Midwest Archaeological Conference, Inc./AltaMira Press website <http://www.midwestarchaeology.org/>. (MCJA Editor review)

Selected Documentary and Film Participation:

- Ehm, K. and **W. A. Lovis** (Co-Producers). 2020. *Repatriation of Michigan State University Mummy Spurs Interdisciplinary Research*. College of Agriculture and Natural Resources, Michigan State University, East Lansing. (15 minutes)
- Documentary video interview participant. In *Bad Company*, co-directed by L. D'Aria and M. Mikus. Knight Center for Environmental Journalism and WKAR-TV, Michigan State University, East Lansing. 2011. (WKAR-TV Premier 24 May 2011)

Selected Curated Exhibits:

- Swanson, L. E., **W.A. Lovis**, and S. T. Wajda. 2016. *Weaving Culture, Woven Art: Collectors and the Navaho Weaving Tradition*. MSU Museum, Michigan State University, East Lansing, MI.
- Swanson, L. E. and **W. A. Lovis**. 2014. *Collections Connection* (mini exhibit). MSU Museum, Michigan State University, East Lansing, MI.
- Lovis, W. A.**, M. E. Raviele, J. A. Fick. 2012. *Michigan's First Farmers*. MSU Museum, Michigan State University, East Lansing, MI. (Main Foyer Display and Traveling Exhibit with Secondary School Packet [Designed by D. Goatley] and website)
- Lovis, W. A.** and D. Forro. 2004. *Michigan Archaeology at Michigan State University*. MSU Main Library, Michigan State University, East Lansing, MI.
- Lovis, W. A.** 2002. *Backyards and Scrapyards: The Hidden Archaeology of Bay City, Michigan*. MSU Museum, Michigan State University, East Lansing, MI.
- Donahue, R. E., and **W. A. Lovis**. 2000. *Regional Settlement Systems in Mesolithic Northern England* (Long Term Poster Display). Grassington National Park Centre, Yorkshire Dales National Park, Hebden Road, Grassington, Skipton, North Yorkshire BD23 5LB England.
- Donahue, R. E., **W. A. Lovis**, and H. Russ. 2000. *Predicting Mesolithic Settlement in the Yorkshire Dales* (Long Term Poster Display). Grassington National Park Centre, Yorkshire Dales National Park, Hebden Road, Grassington, Skipton, North Yorkshire BD23 5LB England.

Professional Service:

Journal/Press Referee (2022 asterisk): I routinely review two to three articles each year for major international, national, and regional professional journals. Most recently this includes service for *Economic Botany*, *Nature*, *PlosOne**, *Proceedings of the National Academy of Science*, *Canadian Journal of Archaeology*, *Earth Surface Processes and Landforms*, *Journal of Anthropological Archaeology*, *Journal of Archaeological Science*, *Journal of Ecological Anthropology*, *Journal of Archaeological Research*, *American Antiquity**, *The Midcontinental Journal of Archaeology**, *The Michigan Academician*, *Journal of Field Archaeology* and *Advances in Archaeological Practice*. During 2021 and 2022 I reviewed book prospectuses for Springer International, University of Notre Dame Press, and University of Florida Press, and reviewed two full book manuscripts for University of Florida Press.

Funding Proposal Reviewer: I am a regularly invited reviewer of proposals for several funding organizations, including National Science Foundation, Arts and Humanities Research Council of Canada, and National Geographic Society, among others.

External Promotion and Tenure Reviewer: I am solicited to review colleagues for tenure and or promotion at peer Research I and other institutions. I normally agree to undertake a maximum of two to three such reviews per year. I do not divulge the individuals, departments or institutions for which I serve in this capacity. I undertook two such reviews in 2010, 2011, 2012, one each in 2013, 2014, 2015, 2016, 2019, and 2020, and three in 2017.

External Program Reviewer: On average once or twice per year I am asked to participate as one of the external members of programmatic review teams at institutions of varying size and stature. The range of these reviews includes museum anthropology and archaeology programs, graduate anthropology programs, and undergraduate anthropology programs. Most recently I have served in this capacity for the Public Museum of Grand Rapids, Lawson Museum of Archaeology, University of Western Ontario Department of Anthropology and Lawson Museum of Archaeology, the Glenn A. Black Laboratory of Archaeology at Indiana University, and the University of Wisconsin-Milwaukee Department of Anthropology.

Selected Biographical Citations:

Who's Who in America (47th ed. supplement; 48th ed.) Available online at <http://www.marquiswhoswho.com>

Who's Who in Science and Engineering (3rd. ed. 1996-1997) Available online at <http://www.marquiswhoswho.com>

New York University Steinhardt School of Education, Health, Nursing and Arts Professions Centennial Alumni Directory (1990)

Woodrow Wilson National Fellowship Foundation Directory of Fellows (2000, 2008)

Who's Who in Social Science Higher Education/Academia (2004) Available online at <http://socialsciences.academickeys.com>

Outstanding College Athletes of America (1969)

Professional Memberships Current:

Register of Professional Archaeologists

Society for American Archaeology

Midwest Archaeological Conference, Inc.

Conference on Michigan Archaeology, Emeritus Fellow

Michigan Archaeological Society

The Champlain Society

American Association for the Advancement of Science

Information Websites:

https://www.researchgate.net/profile/William_Lovis

<https://michiganstate.academia.edu/WilliamLovis>

<https://scholar.google.com/citations?hl=en&imq=William+Lovis&user=vKPfxz0AAAAJ>

<http://anthropology.msu.edu/author/lovis/>

<http://orcid.org/0000-0002-9221-7447>

<https://www-scopus-com.proxy1.cl.msu.edu/authid/detail.uri?authorId=11339834900>

Supplementary Information Including References Available on Request

Supplementary Materials

Selected Contributions to Teaching (in addition to materials in CV):

Sponsored Graduate Student Research Support: Doctoral students I have advised have successfully competed for support from: The Wenner-Gren Foundation for Anthropological Research, The National Science Foundation (Doctoral Dissertation Improvement Grants), The Fulbright Foundation (Fulbright-Hays, and Institute for International Education), The Alliance for Graduate Education and the Professoriate (AGEP-NSF), Society for American Archaeology (Native American Graduate Archaeology Scholarship), Phi Kappa Phi Honor Society, other extramural funding organizations, and competitive MSU (University Distinguished Fellowships, Graduate School Dissertation Completion and Post Field Fellowships, University Enrichment Fellowships, Charles P. and Linda A. Thompson Endowment Awards, Kenneth E. and Marie J. Corey Research Enrichment Fund Award Research Enhancement Fellowships, College of Social Science Dean's Office Research Enrichment Fellowships, College of Social Science Research Scholar Award) and Department of Anthropology (Moreau S. Maxwell Scholar Award, Alumni and Friends of MSU Archaeology) awards.

(Note: Nationally, undergraduate student mentees have been recognized with receipt of a National Science Foundation Fellowship [B. Shaffer], and the Society for American Archaeology/Institute for Field Research Undergraduate Student Paper Award [R. Albert]. Locally, MSU 2018 University Undergraduate Research and Arts Forum 1st Place Poster Award [R. Albert]).

Routinely Taught Courses: ISS220, Time, Space and Change in Human Society; ANP451, European Archaeology; ANP452, North American Archaeology; ANP460, Archaeological Policy and Law; ANP464, Field Methods in Archaeology; ANP840, Biocultural Evolution; ANP850, Principles of Archaeological Analysis; ANP854, Archaeological Theory; ANP880/ANP459, Hunter-Gatherer Ethnology and Archaeology Seminar (2009 seminar taught jointly with University of Michigan faculty R. Whallon and J. Speth).

Recently Redesigned Courses: ANP840 Biocultural Evolution; ANP854 Archaeological Theory; ANP452 North American Archaeology.

On Line Course Development: I have created two topical modules for on line course presentations, one on "The Foraging to Farming Transition in Michigan", and one on "Regional Taphonomy and the Preservation of the Archaeological Record".

Supplementary Materials

Selected Major Administrative Experience and Activity:

9/1/93 to 8/17/2018

Lead Principal Investigator and Environmental Health and Safety (EHS) Officer for all laboratories and other facilities in McDonel Hall. As senior MSU Museum Curator in McDonel Hall, and given joint space allocation between the MSU Museum, Department of Anthropology, and nominally the College of Arts and Letters, collectively known as the Consortium for Archaeological Research, I had substantial oversight of the facility. I was the Archaeology unit contact for all University and Residence Hall System communications, and the formal conduit for all infrastructure, space and facility issues. With the MSU Museum Director, I was responsible for MSU Museum positions on room use and assignments. I authorized electronic and physical key distribution, was responsible for EHS safety inspections (fume hoods, chemicals, signage, eye wash stations, showers, lab waste disposal, etc.), and facility compliance with EHS regulations as well as inspection results.

4/1/12 to 5/4/12 and 8/15/12 to 9/1/13

Department of Anthropology and Museum Administrative Coordinator for vacating and moving jointly administered laboratory and repository areas in McDonel Hall Consortium for Archaeological Research (CAR) in advance of renovations for asbestos abatement and fire safety system installations, and for returning teaching and research laboratories and collections repository to functional status.

7/1/03 to 7/1/06

Associate Director for Natural and Social Science Research, The MSU Museum, Michigan State University. I acted as liaison with the Colleges of Social and Natural Sciences, as well as pertinent departments, in the coordination of a full range of personnel, budgetary, programmatic, and long term strategic planning issues. I worked with the MSU Museum Director in a similar capacity, and assisted in administrative activities associated with long term budgetary reductions, and interaction with the Provost's Office.

12/1/90 to 9/20/2017

NAGPRA Compliance Officer, The MSU Museum, Michigan State University. I instituted initial compliance, including all inventories and notifications. I was responsible for all compliance and reporting, including tribal notification and consultation, for the Native American Graves Protection and Repatriation Act. I supervised a half time NAGPRA Collections Manager. I have overseen major repatriations of human remains and associated funerary objects, and objects of cultural patrimony.

7/28/79 to 9/3/79; 7/26/80 to 8/28/80; 4/3/81 to 4/13/81; 12/21/81 to 1/4/82; 8/22/83 to 9/12/83; 7/13/03 to 7/27/03, and continuing through 2016.

Acting Director, The MSU Museum, Michigan State University.

9/1/93 to 9/1/94

Administrative Faculty Coordinator. Responsible for logistics and coordination for the movement of archaeological collections, staff offices, and archaeological laboratories from four MSU Museum and Department of Anthropology buildings to centralized and shared McDonel Hall facilities. I was the designated Lead Principal Investigator for the archaeological laboratories and continued to act as *de facto* facility director through retirement.

1/1/76 to 6/30/76; 1/4/80 to 3/15/80; 1/21/81 to 12/7/81; 1/1/84 to 6/15/84

Acting Curator of Anthropology, The MSU Museum, Michigan State University.

7/15/92 to 9/15/95

Assistant Chair, Department of Anthropology, Michigan State University. Responsibilities included a full range of personnel, budgetary, and programmatic activities.

9/89 to 6/90

Administrative Coordinator, Conversion of Department of Anthropology programs, course curriculum, and schedule from quarter to semester academic calendar.

Supplementary Materials

Professional Presentations 2012-present:

- Conell, A. O., and **W.A. Lovis**. “Something Old, Something New: Native American Seasonal Camps Incorporating European Goods.” Paper presented at the invited session *Historic Archaeology in Michigan: Papers in Honor of Charlie Rinehart*, Annual Meeting of the Society for Historical Archaeology, Baltimore, MD. 4-8 January 2012. (presented by Conell)
- Lovis, W. A.** “Network Maintenance in Big Rough Spaces with Few People: The Labrador Naskapi or Innu.” Invited paper at the session *Resources, Networks, Landscapes and Family: Recent Directions in Hunter-Gatherer Research*, 77th Annual Meeting of the Society for American Archaeology, Memphis, TN. 18 April 2012.
- Lovis, W. A.** “New Methods and Recent Approaches to the Origins of Michigan Horticulture.” Presentation to the Undergraduate Anthropology Club, Department of Anthropology, Michigan State University, East Lansing, MI. 27 February 2012.
- Lovis, W. A.** “Coastal Archaeology and Geoarchaeology of Lake Michigan Coastal Dunes.” Invited reception banquet presentation by U.S. International Union for Quaternary Research (INQUA) to the Science Education Resource Committee (SERC) Cutting Edge Workshop *Great Lakes, Past and Future*, 22nd American Quaternary Association (AMQUA) Biennial Meeting, Duluth Large Lakes Observatory, Duluth, MN. 19-20 June 2012.
- Raviele, M. E. and **W. A. Lovis**. “Introduction to What, When, and How? Assessing the Timing, Rate and Adoption Trajectory of Domesticated Use in the Midwest”. Sponsored Symposium. 58th Annual Meeting, Midwest Archaeological Conference, Inc., East Lansing, MI. 19 October 2012.
- Lovis, W. A.**, L. G. Goldstein and J. A. O’Gorman. Co-Coordinator and Program Co-Chair. 58th Annual Meeting, Midwest Archaeological Conference, Inc., East Lansing, MI. 18-20 October 2012.
- Panel Member.** “Publishing: What, When, Where, and How?” Student Workshop, 58th Annual Meeting, Midwest Archaeological Conference, Inc., East Lansing, MI. 19 October 2012.
- Lovis, W.A.** “Thoughts on the Freshwater Reservoir Effect and the AMS Dating of Carbonized Food Residues.” Invited lunch presentation to the Illinois State University Grand Island Archaeological Field School, Grand Island, Pictured Rocks National Lakeshore, Munising, MI. 21 July 2012.
- Carr, D. H. and **W.A. Lovis**. “The Round Lake Cache (20CL227): A Gainey Phase Biface Cache, Clinton County, Michigan.” Paper presented at the invited session *Paleoindian and Archaic*, 39th Annual Symposium of The Ontario Archaeology Society, Windsor, Ontario, **CANADA**. 10 November 2012. (presented by Lovis)
- Monaghan, G.W., A.F. Arbogast, **W.A. Lovis**, D. Kowalski. “Millennial Scale Cycles of Coastal Dune Formation During the Late Holocene, Lake Michigan.” The Geological Society of America, North Central Section, 47th Annual Meeting, Kalamazoo, MI. 2-3 May 2013.
- Carr, D. H. and **W.A. Lovis**. “The Round Lake Cache (20CL227): A Gainey Phase Biface Cache, Clinton County, Michigan.” Invited dinner presentation to the Illinois State University Grand Island Archaeological Field School, Grand Island, Pictured Rocks National Lakeshore, Munising, MI. 20 July 2013. (presented by Lovis)
- Lovis, W.A.** “The Use of Optically Stimulated Luminescence (OSL) Dating as an Aid to the Sand Site Archaeology of the Great Lakes Region”. Paper presented at the 59th Annual Meeting, Midwest Archaeological Conference, Inc., Columbus, OH. October 2013.
- Lovis, W.A.** “Interactions of Archaeology, Geology and Physical Geography in Michigan Research: An Unabashedly Brief History”. Paper presented to the Quidders Group, Department of Geography, Michigan State University, East Lansing, MI. 7 February 2014.
- Lovis, W.A.** “Reinvestigating the absolute dated archaeological chronology of northern Michigan”. Annual Meeting of the Michigan Academy of Science, Arts, and Letters. Oakland University, Rochester, MI. 28 February 2014.
- Lovis, W.A.** “Michigan’s First Farmers.” Invited public lecture to the Williamston Depot Museum, Williamston, MI. 16 March 2014.
- Lovis, W.A.** “An Up North Fishing Trip: Reinvestigating the absolute dated archaeological chronology of northern Lake Michigan”. Invited presentation to the Museum of Anthropology, University of Michigan, Ann Arbor, MI. 3 April 2014.
- Lovis, W.A.** “Landscape Marking and Network Maintenance in Big Rough Spaces with Few People: It’s Dangerous to Travel Alone.” Paper presented at the session *Marking the Land: Hunter-gatherer Creation of Meaning within Their Surroundings*. 79th Annual Meeting of the Society for American Archaeology, Austin, TX. 24 April 2014.

- Lovis, W.A.** “Are Our Analytic Goals and Our Analytic Expectations in Accord? A Back Door into Archaeological Research Design and the Need(?) for Sensitivity Analysis in Archaeology”. Paper presented at the Forum *Error, Sensitivity Analysis, and Uncertainty in Archaeological Computational Modeling*, 79th Annual Meeting of the Society for American Archaeology, Austin, TX. 26 April 2014.
- Upton, A., **W. A. Lovis**, G. R. Urquhart. “An Empirical Test of Shell Tempering as a Proto-Hominy Processor” Paper presented at the session *New World Ceramics*, 79th Annual Meeting of the Society for American Archaeology, Austin, TX. 26 April 2014. (Presented by Upton)
- Lovis, W.A.** and R. Whallon. Symposium co organizers. *Marking the Land: Hunter-gatherer Creation of Meaning within Their Surroundings*. 79th Annual Meeting of the Society for American Archaeology, Austin, TX. 24 April 2014.
- Brouwer, M., H. Peeters, **W.A. Lovis**. Forum co organizers. *Error, Sensitivity Analysis, and Uncertainty in Archaeological Computational Modeling*, 79th Annual Meeting of the Society for American Archaeology, Austin, TX. 26 April 2014.
- Lovis, W.A.** and J.P. Hart. “Do Fish Always Live in Water with Abundant Ancient Carbon? Are Fish Always Cooked in Ceramic Vessels? Perspectives from Northeastern North America.” Invited presentation at the Conference on Radiocarbon and Diet: Aquatic Resources and Reservoir Effects Conference, Kiel, **GERMANY**, 24-27 September 2014.
- Luehmann, M. D., A.F. Arbogast, G.W. Monaghan, **W.A. Lovis**, and M.J. Michalek. “Late-Pleistocene Fluvial Incision and Perched Dune Formation along the Lower Au Sable River in Northeastern Lower Michigan, USA.” Paper presented at the Annual Meeting of the Association of American Geographers. Chicago, IL. April 21-25, 2015. Presented by M. Luehmann.
- Lovis, W.A.** “Archaeological Curation in University Museums”. Alma College Department of Anthropology Field School (n=22+2 instructors). Michigan State University, 18 May 2015.
- Lovis, W.A.** and R.E. Donahue. “Transient Campsites, Logistic Campsites, and the Cumulative Taphonomy of Malham Tarn Site A: A Persistent Place in the Northern Pennines.” Paper presented at the 9th International Conference on the Mesolithic in Europe, MESO2015. Belgrade, **SERBIA**. 14-18 September 2015.
- Lovis, W.A.** “North America’s Earliest Occupants”. Invited presentation by Montenegro Heritage Ministry, Montenegro Science Day, Ministry of Science. Podgorica, **MONTENEGRO**. 21 September 2015.
- Lovis, W.A.** “Between the Glaciers and the Europeans.” Invited presentation at the Sleeping Bear Dunes National Lakeshore *Research Rendezvous*, Centennial Anniversary of the National Park Service. Empire, MI. 8 October 2015.
- Arbogast, A.F., G. W. Monaghan, and **W.A. Lovis**. “Hemispheric ENSO Cycling and Lake Michigan Coastal Dune Evolution: A Relationship?” 9th Biennial State of Lake Michigan and 15th Annual Great Lakes Beach Association Joint Conference. Acme, MI. 28-30 October, 2015. Presented by Arbogast.
- Arbogast, A.F. and **W.A. Lovis**. Invited presentation to U. S. National Oceanic and Atmospheric Administration (NOAA) Great Lakes Environmental Research Laboratory, and the Cooperative Institute for Limnology and Ecosystems Research (CILER), University of Michigan, Ann Arbor. 13 October 2015
- Lovis, W.A.** “Cultural Heritage Tourism and the Restoration of National Identity in Post-Yugoslavia/Post-War Serbia and Montenegro.” Center for European, Russian and Eurasian Studies, Michigan State University, East Lansing. 19 February 2016.
- Lovis, W.A.** “The Kennedy and Kalkaska Bifaces, The Plotner and Hipwater Locales: Perspectives on Michigan Paleoindians”. CAP Café and Michigan Archaeological Society Joint Meeting, Michigan State University, East Lansing. 25 February 2016.
- Lovis, W. A.** “Management Implications of Site Structure and Taphonomy at 20LU115, Sleeping Bear Dunes National Lakeshore”. Invited presentation to the Midwest Archaeological Center, National Park Service. Lincoln, NE. 9 March 2016.
- Steponaitis, V., L.G. Goldstein, K. Kintigh, **W.A. Lovis**. “History of SAA’s Involvement with NAGPRA”. Invited presentation to the SAA Sponsored Symposium *NAGPRA Applied: Stories from the Field on its 25th Anniversary*. 81st Annual Meeting of the Society for American Archaeology, Orlando, FL. April 2016.
- Arbogast, A. F., G. W. Monaghan, **W. A. Lovis**. “The Geomorphology, Geography, and Evolution of Coastal Sand Dunes along the Eastern Shore of Lake Michigan”. Loessfest 2016, University of Wisconsin-Eau Claire, Eau Claire, WI. 22-25 September 2016.
- Lovis, W. A.**, G. W. Monaghan, A. F. Arbogast. “How Did We Miss that Site? Reconstructing the Elusive Archeology of Sleeping Bear Point”. Michigan Archaeology Day, Michigan Historical Center, Lansing, MI. 1 October 2016.

- Lovis, W. A.**, G. W. Monaghan, A. F. Arbogast. "Reconstructing the Development of Landforms and Associated Woodland Occupation at Sleeping Bear Point, Michigan". Midwest Archaeological Conference, Inc. Annual Meeting, Iowa City, IA. 6-8 October 2016.
- Lovis, W. A.**, A.F. Arbogast, G. W. Monaghan, J. L. B. Milligan, F. J. Raslich. "Current Research Status of the Parkhill Phase Paleoindian Hipwater Locale". Midwest Archaeological Conference, Inc. Annual Meeting, Iowa City, IA. 6-8 October 2016.
- Kooiman, S. M., L. G. Goldstein, **W. A. Lovis**. "The Class of 2000 B.C.: A Late Archaic Site on the Michigan State University Campus". Midwest Archaeological Conference, Inc. Annual Meeting, Iowa City, IA. 6-8 October 2016.
- Lovis, W. A.**, A.F. Arbogast, G. W. Monaghan, J. L. B. Milligan, F. J. Raslich. "Current Research Status of the Parkhill Phase Paleoindian Hipwater Locale". Upper Grand Valley Chapter, Michigan Archaeological Society, East Lansing, MI. 19 October 2016.
- Monaghan, G. W., J. Booth, A. F. Arbogast, **W. A. Lovis**. "Coastal Sleuthing in High Resolution: Interdisciplinary RS/GIS Research on Lake Michigan Coastal Dunes". Invited presentation, State of Michigan GIS Users Group, Lansing, MI. 1 December 2016.
- Arbogast, A. F., **W. A. Lovis**, G. W. Monaghan. "A Preliminary Reconstruction of Late Holocene Landscape Evolution of Sleeping Bear National Lakeshore in Northwest Lower MI". Paper presented to the Quidders Group, Department of Geography, Michigan State University, East Lansing, MI. 2 December 2016.
- Arbogast, A. F., G. W. Monaghan, **W. A. Lovis**. "A Preliminary Reconstruction of Late Holocene Landscape Evolution of Sleeping Bear National Lakeshore in Northwest Lower MI". Annual Meeting of the Association of American Geographers, Boston, MA. 5-9 April 2017.
- Lovis, W. A.** "So What Does Bill Lovis Do?" MSU Undergraduate Anthropology Club, Michigan State University, East Lansing, MI. 10 April 2017.
- Lovis, W. A.** "Preserving Michigan's Archaeological Heritage: A Cooperative Endeavor". Invited presentation to the Midwest Archaeological Conference, Inc. Sponsored Symposium *The Ethics of Professional-Collector Collaboration*. Midwest Archaeological Conference, Inc. Annual Meeting, Indianapolis, IN. 19 October 2017.
- Frederick, K., R. K. Albert, and W. A. Lovis. "I'll Take Mine Well-done: A Closer Look at an Acorn Processing Pit". Midwest Archaeological Conference, Inc. Annual Meeting, Indianapolis, IN. 20 October 2017.
- Lovis, W. A.** "Landscape Marking, the Creation of Meaning, and the Construction of Sacred and Secular Spaces: Rethinking The Birney "Mound" in the City of Bay City, Michigan". Invited presentation to the symposium *Celebrating Lynne Goldstein's Contributions to Archaeology*. Midwest Archaeological Conference, Inc. Annual Meeting, Indianapolis, IN. 21 October 2017.
- Lovis, W.A.** "Exploring the Evolutionary Landform History and Cultural Use of Sleeping Bear Dunes National Lakeshore, Michigan." Graduate Student Research Symposium, Graduate Students in Anthropology, Michigan State University, East Lansing, MI. 2 February 2018.
- Lovis, W.A.**, A.F. Arbogast, D.H.Carr, R.E. Donahue, G.W. Monaghan, J.L.B. Milligan, F.J. Raslich. "Current Research Status of the Hipwater Locale: A Parkhill Phase Paleoindian Retooling Location ". Invited presentation to the Museum of Anthropology, University of Michigan, Ann Arbor, MI. 15 March 2018.
- Lovis, W.A.**, A.F. Arbogast, D.H.Carr, R.E. Donahue, G.W. Monaghan, J.L.B. Milligan, F.J. Raslich. "Current Research Status of the Hipwater Locale: A Parkhill Phase Paleoindian Retooling Location ". Invited presentation to the Saginaw Valley Chapter, Michigan Archaeological Society, Saginaw, MI. 5 April 2018.
- Lovis, W.A.**, A.F. Arbogast, D.H.Carr, R.E. Donahue, G.W. Monaghan, J.L.B. Milligan, F.J. Raslich. "Current Research Status of the Hipwater Locale: A Parkhill Phase Paleoindian Retooling Location ". Invited presentation to the Huron Valley Chapter, Michigan Archaeological Society, Ann Arbor, MI. April 2018.
- Lovis, W. A.** "Landscape Marking, the Creation of Meaning, and the Construction of Sacred and Secular Spaces: Rethinking The Birney "Mound" in the City of Bay City, Michigan". Invited presentation to the symposium *Celebrating Lynne Goldstein's Contributions to Archaeology*. Society for American Archaeology Annual Meeting, Washington, D.C. 13 April 2018.
- Arbogast, A.F., G.W. Monaghan, and **W.A. Lovis**. "The chronology of coastal dune evolution along the eastern shore of Lake Michigan and potential connections to Cape Cod and Europe". Invited presentation to the Coastal Dune dynamics during Rising Sea/Lake Levels Workshop. Indiana University Northwest, Gary, Indiana. 26 April 2018. (Presentation by Arbogast)
- Lovis, W.A.** "Lynne Goldstein's Contributions to Michigan Archaeology". Invited presentation at retirement banquet for Lynne G. Goldstein, Michigan State University, East Lansing, MI. 29 April 2018.
- Arbogast, A.F., G.W. Monaghan and **W.A. Lovis**. "The Reconstructed Chronology of Coastal Dune Evolution in Michigan". International Association of Great Lakes Research 2018 Conference on Great Lakes Research. Toronto, Ontario, **CANADA**. 22-24 June 2018. (Presentation by Arbogast)

- Monaghan, G.W., A.F. Arbogast, **W.A. Lovis**. “Are Coastal Dune Activation Cycles in the Great Lakes (USA) Linked Across the Northern Hemisphere during the Late Holocene? If so, Why?” International Conference on Aeolian Research 2018, Bordeaux, **FRANCE**. 25-29 June 2018. (Presentation by Monaghan)
- Arbogast, A.F., G.W. Monaghan and **W.A. Lovis**. “Are Coastal Dune Activation Cycles in the Great Lakes (USA) Linked with those at Cape Cod (USA) and Northern Europe During the Late Holocene?” Invited presentation, to the symposium *Where Does the Wind Blow? Aeolian Systems in Time and Space I*. Geological Society of America Annual Meeting. Indianapolis, Indiana. 4 November 2018. (Presentation by Arbogast)
- Lovis, W.A.** Discussant. Invited Symposium *Storing Culture: Subterranean Storage in the Upper Midwest*. Midwest Archaeological Conference Annual Meeting, Notre Dame University, South Bend. 4-7 October 2018.
- Lovis, W.A.** “The Archaeology Road Show”. Invited Panel Participant, Michigan Archaeology Day. Michigan Historical Center, Lansing. 13 October 2018.
- Lovis, W.A.** “Michigan: Before Europeans”. Invited public lecture, AuSable Valley Chapter, Michigan Audubon Society. Oscoda, MI. 13 November 2018.
- Lovis, W.A.** and A.F. Arbogast. “A Record of Seasonal Sand Movement from a Charlevoix County, Michigan Foredune.” Annual Meeting of the Michigan Academy of Science, Arts, and Letters, Alma, MI. 1 March 2019.
- Arbogast, A.F. and **W.A. Lovis**. “A 5000 Year Record of Coastal Dune Evolution along the Eastern Shore of Lake Michigan in the North American Great Lakes: The Relationship of Geography, Lake Level Fluctuations, and Sand Supply”. Keynote Paper, 34th International Association of Sedimentologists, Annual Meeting of Sedimentology, Rome, **ITALY**. 10-13 September 2019.
- Lovis, W.A.**, G.W. Monaghan, D.R. Hayes, K.C. Egan-Bruhy. “Floodplain Cucurbit Dispersal during the Late Woodland ca. 1000 BP: An Example from the Detroit River, Michigan (or) Bill’s Seed”. Midwest Archaeological Conference, Inc. Annual Meeting, Mankato, MN. 10-12 October 2019.
- Lovis, W.A.**, G.W. Monaghan, D. R. Hayes, K.C. Egan-Bruhy. “Bill (Monaghan)’s Seed.” Upper Grand Valley Chapter, Michigan Archaeological Society, 16 October 2019.
- Lovis, W. A.** “The Archaeology Road Show”. Invited Panel Participant, Michigan Archaeology Day. Michigan Historical Center, Lansing. 19 October 2019.
- Davis, A. R. “Repatriation of a Mummy to Bolivia from a United States University” (Contributed 3 minute video sequence embedded in the presentation). Conference on Heritage Site Management, Ojalá, **BOLIVIA**. 19 November 2019. (**Postponed due to civil unrest in Bolivia**)
- Lovis, W.A.**, G.W. Monaghan, D. R. Hayes, K.C. Egan-Bruhy. “Bill (Monaghan)’s Seed.” Huron Valley Chapter, Michigan Archaeological Society. 20 February 2020.
- Lovis, W.A.** “Michigan State University Repatriation of a (pre?) Inca Bolivian Mummy”. 48th Annual Midwest Conference on Andean and Amazonian Archaeology and Ethnohistory.” Michigan State University, East Lansing. 29 February-1 March 2020.
- Lovis, W.A.**, L.S. Cummings, J.P. Hart. “Did You Ever Want to Get Multiple AMS Ages on One Ceramic Vessel? Well, We did Just That!” Midwest Archaeological Conference, Inc. Annual Meeting, East Lansing, MI. 7-9 October 2021.
- Lovis, W.A.**, V.E. Noble. “*La Longue Duree*: MSU and Historical Archaeology in the Midwest/Great Lakes Region and Nationally”. Midwest Archaeological Conference, Inc. Annual Meeting, East Lansing, MI. 7-9 October 2021.
- Lovis, W. A.** “The Archaeology Road Show”. Invited Panel Participant, Michigan Archaeology Day. Michigan Historical Center, Lansing. 23 October 2021.
- Lovis, W. A.**, L.S. Cummings, J.P. Hart. “Did You Ever Want to Get Multiple AMS Ages on One Ceramic Vessel? Well, We did Just That!” Society for American Archaeology Annual Meeting, Chicago, IL. 1 April 2022.
- Bonneau, A., H. Walder, B. Carter, RA. Armitage, **W.A. Lovis**. “Characterization of Beads from an Andean Inca *Chullpa* Funerary Assemblage”. American Chemical Society, Central Region, Ypsilanti, MI. June 2022.
- Yann, J., H. Walder, **W. A. Lovis**. “A Reanalysis of the Early Historic Component at the O’Neill Site (20CX18)”. Midwest Archaeological Conference, Inc. Annual Meeting, LaCrosse, WI. October 2022.
- Lovis, W. A.**, M. O. Haag. “A Pair of Modified Wolf (*Canis lupus*) Mandible Segments from the Quanicassee River, Michigan.” Midwest Archaeological Conference, Inc. Annual Meeting, LaCrosse, WI. October 2022.
- Lovis, W. A.**, J. M. Capriles Flores. “Michigan State University Repatriation of a PreColumbian Bolivian Mummy”. Invited international symposium *Collecting the Andes: Museums of Andean Art and Science in the Americas and Atlantic World*. Pennsylvania State University, State College, PA, November 3-5, 2022.
- Lovis, W. A.** “The Johnson Site on Mullett Lake: A Reprise”. Presented to the Upper Grand Valley Chapter, Michigan Archaeological Society, East Lansing, MI. 16 November 2022.

Lovis, W. A. and M. O. Haag. "A Pair of Modified Wolf (*Canis lupus*) Mandible Segments from the Quanicassee River, Michigan." Presented to the Upper Grand Valley Chapter, Michigan Archaeological Society, East Lansing, MI. 14 December 2022.

Supplementary Materials

Selected Federal and State Permits for Field Investigations:

- Lovis, W. A.** 7/18/1974. Special Use Permit 6-74. *Archaeological Survey, Hardwood State Forest*. Forestry Division, Department of Natural Resources.
- Lovis, W. A.** 8/25/2006. Environmental Clearance. *Dune Age, Dune Cycling and Formation and the Presence of Stratified Archaeological Sites*. Environmental Section, Michigan Department of Transportation.
- Lovis, W. A.** 8/29/2006. Letter of Agreement. *Research in the Torch Bay Nature Preserve, Antrim County, Michigan*. Torch Lake Township, Michigan.
- Lovis, W. A.** 5/23/2007-9/30/2007. Permit STI 110. *Geoarchaeology of Lake Michigan Coastal Dune Age, Cycling, Activation, and Archaeological Site Formation*. Hiawatha National Forest, U. S. Forest Service, U.S. Department of Agriculture.
- Lovis, W. A.** 1/8/2008 – 12/31/2008. Archaeological Exploration Permit No. AE2007-3. *Archaeological Exploration at the Scott Point Site, Michigan*. Office of Land and Facilities, Michigan Department of Natural Resources.
- Lovis, W. A.** 6/18/2012- 12/31/2012. Permit STI 168. *Assessing the Relationship Between Dune Age, Cycling and Formation and the Presence of Stratified Archaeological Sites along the Lake Michigan Coastline*. Hiawatha National Forest, U. S. Forest Service, U.S. Department of Agriculture.
- Arbogast, A. F., **W. A. Lovis**, G. W. Monaghan. Permit TAW 389. Coring and OSL Dating Riverine Dunes on the Lower Au Sable River, Michigan. Huron-Manistee National Forest, U. S. Forest Service, U. S. Department of Agriculture.
- Lovis, W. A.**, A. F. Arbogast 5/1/2014-12/31/2014. Permit for Archaeological Investigations, Archaeological Resources Protection Act (ARPA), U. S. Department of Interior #2014-5.
- Lovis, W. A.**, A. F. Arbogast, G. W. Monaghan. 10/15/2014-11/03/2014. Permit SLBE-2014-SCI-0015. *Pilot Geoarchaeological Evaluation of Preserved Paleosols with Human Occupation at Sleeping Bear Dunes*. Sleeping Bear Dunes National Lakeshore, National Park Service, U. S. Department of Interior.
- Lovis, W. A.**, G. W. Monaghan, A. F. Arbogast, F. P. Telewski. 8/1/2015-9/20/2015. Permit SLBE-2015-SCI-0011. *Ground Penetrating Radar (GPR) Survey of Buried Paleosols at Sleeping Bear Dune National Lakeshore*. Sleeping Bear Dunes National Lakeshore, National Park Service, U. S. Department of Interior.
- Telewski, F. P., **W. A. Lovis**, A. F. Arbogast, G. W. Monaghan. 4/15/2016-10/31/2016. Permit SLBE-2016-SCI-0001. *Long-Term Climatic Reconstruction Derived from White Cedar (Thuja occidentalis) growing on South Manitou Island, Sleeping Bear Dune National Lakeshore*. Sleeping Bear Dunes National Lakeshore, National Park Service, U.S. Department of Interior.
- Lovis, W. A.** and K. Frederick. 7/15/2016 – 9/1/2017. Archaeological Exploration Permit No. AE2016-01. *Archaeological Exploration T36N R2W Section 31 SW ¼ SW ¼ SE ¼, Indian River, Mullett Twp., Cheboygan Co., Michigan*. Office of Land and Facilities, Michigan Department of Natural Resources.
- Lovis, W. A.**, G. W. Monaghan, A. F. Arbogast. 7/1/2016-5/31/2017. Permit SLBE-2016-SCI-0014. *Total Station Survey and OSL Dating of Prograded and Uplifted Cobble Beaches at Sleeping Bear Dunes National Lakeshore*. Sleeping Bear Dunes National Lakeshore, National Park Service, U. S. Department of Interior.

Supplementary Materials

Selected MSU Museum and Other Ethnographic and Archaeological Collections Acquisitions, Development, Management

Winter site (20DE17), Delta County, MI Field Record Archival Project. In May 2018 Michigan State University, in cooperation with the Western Michigan University Department of Anthropology, undertook a long term (permanent renewable) loan of collections and field documents from the Winter site, excavated by Western Michigan University in 1972. The Winter site collections are the subject of a Master's thesis by Jeffery Richner (1973), a paper by Thomas Bianchi (1974), geoarchaeological research by Lovis, Arbogast and Monaghan (2012), and a phytolith analysis by Albert et al. (2018). Winter is a stratified Initial Woodland locale and has produced the earliest microbotanical evidence for maize in the northern Lake Michigan basin, predating 2000 cal BP. Proper archiving of the field records and maps will allow future directed problem oriented use of the site collections by researchers. To this end, in 2019, an initiative to digitize the field records was undertaken under Lovis' supervision. This project is ongoing.

Archaeological Collections Rehousing and Archiving Project. From 2008 to 2018 I supervised the complete replacement of all storage and packing materials for boxed MSU Museum archaeological collections, and since 2014 I have engaged in a tandem project, archiving in appropriate acid free packaging and storage, primary field documents, photographs and maps associated with MSU Museum archaeological research. This work was accomplished with the use of undergraduate museum volunteers (often 12 to 14) supervised by myself and a Collections Research Assistant provided by the Department of Anthropology, and internships through the MSU Museum. Storage and archival supplies were provided by curation funds through the MSU Museum, and best practices were supported by outside consultants through IMLS and other funds as well as through internal expertise from Ms. Lynne Swanson, Cultural Collections Manager.

Lawrence H. and Martha Robbins Turkana, Pokot, and San Collection. Professor and Ms. Robbins engaged in multiple rounds of archaeological, ethnographic, and ethnoarchaeological fieldwork in both Kenya and Uganda in the 1960s and 1970s, among the ethnic Turkana and Pokot tribes. They made extensive ethnographic collections during their fieldwork in addition to Professor Robbins' archaeological research, often with additional groups such as the Kikuyu. Later in his career Professor Robbins moved his research to Botswana, where he made additional ethnographic collections. Nearing, upon, and subsequent to Dr. Robbins' retirement I worked closely with the Robbins family to acquire their collection for the MSU Museum. The collection was transmitted in multiple cycles, beginning in 1986, and most recently in 2015. This remarkable collection of material culture with impeccable provenance is now held under MSU Museum **Accession Number 6400**.

James Ellison Somalian Collection. During fieldwork in 1989 James Ellison, subsequently Dr. James Ellison (PhD University of Florida) agreed to make a collection of ethnographic material culture from camel nomads in Somalia. As is evident such systematic collection might be difficult to replicate under today's political circumstances. This was a focused effort on my part to obtain a well-documented and provenanced group of daily material culture, and I worked closely with Dr. Ellison on this project for several years, culminating in shipment of the collection to the MSU Museum where it is now housed as **Accession Number 6876**.

Hon. Ira W. Butterfield/Walter A. Schmidt Collection. The Hon. Ira W. Butterfield of Kawkawlin, Michigan, was a lawyer, judge, and avid avocational historian and archaeologist, related to George Ernest Butterfield author of *Bay County, Past and Present*, and a long standing acquaintance of W. A. Lovis. Judge Butterfield amassed a large collection of documents related to Native American occupancy of the Saginaw drainage, and saved the systematic collections of one of the early avocational archaeologists of Saginaw and Bay Counties, Walter A. Schmidt, from pawn shops and antiques dealers. This significant collection was donated to the MSU Museum, curated in storage units funded by a grant from the Strosacker Foundation, **Accession Number 7769**. Important continuous series of *The Coffinberry News Bulletin*, *The Saginaw Valley Archaeologist*, and *The Totem Pole* were also acquired with the artifact collection and are now housed at the MSU Library.

Franklin Thresher McCann Navaho Collection. The donation of this collection of Navaho saddle blankets, baskets, and Iroquois False Faces was facilitated by the family descendents of Franklin Thresher McCann, particularly Dr. Margaret Holmes Rovner of Michigan State University. I worked with Dr. Holmes Rovner over a period of five years on transfer of these materials to the MSU Museum, culminating in their donation in 2014. The collection of saddle blankets and baskets from the American Southwest was collected during geological fieldwork in the Uintah Mountains during the 1930s, and has abundant well documented provenance. While dispersed amongst various McCann descendents, the collection was nonetheless exceptionally well preserved and has some extremely important pieces of Navaho saddle blanket weaving as well as basket decoration. This collection is now housed under MSU Museum **Accession Number 2014.53**.

- Roderick H. Blackburn Okiek Collection.* Roderick Blackburn, PhD from Michigan State University Department of Anthropology (1972), conducted doctoral fieldwork amongst the Okiek of Kenya in the late 1960s. Subsequent to completing his dissertation Dr. Blackburn engaged in multiple revisits to the Okiek, amassing additional ethnographic information as well as documented items of material culture. Between 2012 and the present I have worked with Dr. Blackburn in the final documentation of this collection, its publication, and transfer of his remaining items of Okiek material culture to the MSU Museum. To date Dr. Blackburn has completed a draft of his ethnographic monograph, and completed cataloguing his 250+ item ethnographic material collection for transmission to the MSU Museum, received at MSU 31 June 2016. **Accession Number 2016.?**
- Ronda Cox Collection.* The family of Ronda Cox accumulated a large collection of artifacts from the Skegemog Point Site in Grand Traverse County, Michigan, primarily from the 1950s. The MSU Museum conducted multiple years of fieldwork at Skegemog Point in the late 1960s, and this collection has been the subject of several dissertations and articles. Division staff worked with Ms. Cox on donation of the family collection as a supplement to excavated materials, **Accession Number 2009.207.**
- Paul S. Roney Collection.* This is an important MSU collection of precontact projectile points and knives from the Philip and Louis Biebesheimer farm on Hagadorn Road, in the area now occupied by Fee and Hubbard Halls. The items were unearthed during plowing of the 173 acres between 1896 and 1925 when farming ceased and the majority of the land was sold to Michigan Agricultural College. Phillip's son Phillip Ralph and daughter Mary inherited the various artifacts, both graduating from MAC in 1927 and 1929 respectively. In 1990 Phillip Ralph Biebesheimer donated a red pipestone effigy pipe that his father had found 1908-1910 to the MSU Museum, **Accession Number 7066.** Mr. Paul Roney, son of Mary, donated the remainder of the collection to MSU Museum, **Accession Number 2015.61.**
- Robert and Joan Hipwater Paleo Indian Collection.* This is a collection of 12 Paleoindian Parkhill Phase bifaces from the Hipwater Parkhill Locale, donated to the MSU Museum under **Accession Number 2015.62.** These items were found in a small area, and date to ~10,500-11,000 BP, and are from among the oldest time periods in southern Michigan. Parkhill phase sites and collections are rare, and this is a superb collection. Analysis has begun on protein residues that might be extractable from the knives and projectiles.
- R. Dale Kennedy Paleo Indian Biface.* This is an important, isolated artifact from Menominee County, MI. Found on the November Farm Site and donated by Mr. R. Dale Kennedy and now **Accession Number 2011.111.** This is an Early Archaic/Late Paleoindian biface, dating to at least 7500 BP, but based on manufacture possibly as old as 9-10,000 BP coeval with the Marquette Readvance of the Wisconsin glacier into the Upper Peninsula. This is one of the earliest pieces of human evidence from the Upper Peninsula.
- Craig Harris/Meredith McClellan African(+) Collection.* Craig Harris, PhD, Department of Sociology, undertook multiple decades of fieldwork in East and West Africa. Dr. Harris' 2016 donation includes 31 objects. Highlights of the collection include a broad array of ten carved wooden hair combs, and a Senegalese robe. While focused on east Africa, the collection also includes a straw rice doll from Sukawati Village, Indonesia. **MSU Museum Accession Number 2016: pending.**
- Gordon Davis Ethiopian Collection.* Dr. Gordon Davis, a museum consultant (Iraq Cultural Heritage Project) who served in the Peace Corps in Ethiopia during the 1960s, and returned in the 1980s, accumulated a large collection of objects totaling over 200 items, some greater than 50-60 years old. Since February 2016 I have been evaluating the suitability of parts of the collection for acquisition, and collaborated with then Director Designate Mark Auslander on this activity. Due to inaction by the Museum Director this collection ultimately was donated to the Mather Museum at Indiana University, Bloomington.
- Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Coast Guard, TetraTech Inc.* From 2014 through 2018 I worked with a group of Federal agencies and their contract agents on identifying and returning collections from the Thunder Bay Island group, Presque Isle County, Michigan, curated by the MSU Museum since the late 1980s. Multiple agency jurisdictions have required ongoing communication. One collection has been returned to the U.S. Coast Guard through TetraTech Inc.
- USDA Forest Service, Commonwealth Heritage Group, Inc.* During 2016 the U.S. Forest Service initiated a repository inventory of collections in the care of non-federal institutions. This inventory was implemented under contract with CHG, Inc. I worked closely coordinating identification and inventories of collections from the Huron-Manistee National Forest curated by the MSU Museum.
- Whittier Estate Collection.* From June 2021 through April 2022 I engaged in finding a suitable repository for an extensive collection of *Lepo Tao Kenyah* Highland Dayak (Kalimantan Province, Borneo) objects and field records collected during two rounds of early and mid-1970s fieldwork by Herbert L. and Patricia R. Whittier. Initial attempts to house the materials at Michigan State University did not come to fruition. The *Lepo Tao Kenyah* Dayak collection was ultimately acquired by the Chicago Field Museum of Natural History in January 2022.

Supplementary Materials

University Service:

University, College and Department Service: At the university level I have served on Faculty Council, Academic Council, University Committee on Student Affairs, and the University Collections Council, each for several cycles. At the college level I have served on the CSS Faculty Advisory Committee, several terms on the College Research Committee (where I am currently our department representative), and twice on the Reappointment, Promotion and Tenure Committee. I have chaired multiple search committees for faculty and department chairs in the Department of Anthropology, and for curators in the MSU Museum, and have chaired search committees for Program Directors in the College of Social Science. This is in addition to faculty searches (recent chair of Visiting Assistant Professor of Archaeology Search Committee). In addition to normal committee member service in the Department of Anthropology, I have chaired the Advisory Committee, Graduate Admissions Committee, Graduate Curriculum and Program Committee (aka Graduate Review Committee), Chair Review Committee, Communications Committee and Awards Committee in the Department of Anthropology, each multiple times. I recently completed appointments on the Communications Committee the External Review Committee, and a two year term on the Department of Anthropology Advisory Committee. I recently chaired the Graduate Curriculum and Program Committee, and the Archaeology Search Committee, and currently serve on the Advisory Committee, and another Archaeology Search Committee. I have served on three promotion committees in recent years. I have mentored three junior faculty in the Department of Anthropology; Jodie O’Gorman, Gabriel Wrobel, and John Norder (briefly). I have served on the Advisory Committee, Curator’s Council, Research Committee, Exhibits Advisory Committee (various labels), the Point Team, and have been the Coordinator of the Science Advisory Committee, and have chaired both the Advisory and Research Committees in the MSU Museum. Until 19 September 2017 I was the NAGPRA Compliance Officer.

Professional Service:

I continue to act as referee and reviewer for both books and journal articles. In the past year I have acted as a regular referee for the journals *PlosOne*, *Journal of Wetland Archaeology*, *American Antiquity*, *Midcontinental Journal of Archaeology*, *Journal of Archaeological Science*, and reviewed monographs for University of Florida Press.

Professional Memberships Former, Inactive or Intermittent:

Canadian Archaeological Association
 American Anthropological Association, Fellow
 Society of Professional Archaeologists
 Michigan Coalition for Historic Preservation
 Ontario Archaeological Society

Supplementary Materials

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