

Hannan E. LaGarry

CURRICULUM VITAE

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CONTACT INFORMATION

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EDUCATION

Regents' Diploma, 1980. Norwood-Norfolk Central School, Norwood NY.

B. A. (Geology), 1985. State University of New York @ Potsdam NY (Advisor: W. Kirchgasser).

M. S. (Geology), 1988. Fort Hays State University, Hays KS (Advisor: R. J. Zakrzewski).

Ph. D. (Geology), 1997. University of Nebraska-Lincoln, Lincoln NE (Advisor: R. M. Hunt, Jr.).

CURRENT EMPLOYMENT

2008-present CONSERVATION BIOLOGY INSTRUCTOR/RESEARCHER, Oglala Lakota College, Kyle SD 57752. Dr. Gerald Giraud, 605-455-6035.

2009-present CO-CHAIR, DEPARTMENT OF MATH, SCIENCE, & TECHNOLOGY. Oglala Lakota College, Kyle SD 57752. Dr. Gerald Giraud, 605-455-6035.

WORK EXPERIENCE (see BIBLIOGRAPHY for list of publications)

1985 PALEONTOLOGICAL FIELD ASSISTANT, Sternberg Memorial Museum

1985-1987 GRADUATE TEACHING ASSISTANT, Fort Hays State University

1986 PROJECT PALEONTOLOGIST I, Illinois State Museum

1988 INSTRUCTOR OF GEOLOGY, Fort Hays State University

1988 PROJECT PALEONTOLOGIST III, Illinois State Museum

1988-1989 GRADUATE TEACHING ASSISTANT, University of Nebraska-Lincoln

1989-1990 GRADUATE TECHNICAL ASSISTANT, University of Nebraska-Lincoln

1991-1995 RESEARCH TECHNICIAN III, University of Nebraska State Museum

1991-1995 PHYSICAL SCIENCE TECHNICIAN, USDA NRCS National Soil Survey Center

1996-1997 RESEARCH ASSISTANT II, University of Nebraska-Lincoln

1997-1998 RESEARCH GEOSCIENTIST, University of Nebraska-Lincoln


1999-2006 ASSISTANT GEOSCIENTIST, University of Nebraska-Lincoln

2007-2008 INTERPRETER, Hudson-Meng Bison Kill Site (USFS), Crawford, Nebraska

ADJUNCT & COURTESY APPOINTMENTS

1999-2006 COURTESY APPOINTMENT, Department of Geosciences, University of Nebraska-Lincoln.

2006-2008 ADJUNCT PROFESSOR OF GEOSCIENCES, Department of Physical & Life Sciences, Chadron State College, Nebraska

United States Nuclear Regulatory Commission Official Hearing Exhibit In the Matter of: 	CROW BUTTE RESOURCES, INC. (License Renewal for the In Situ Leach Facility, Crawford, Nebraska)
	ASLBP #: 08-867-02-OLA-BD01 Docket #: 04008943 Exhibit #: INT-062-00-BD01 Admitted: 8/18/2015 Rejected: Other:

Identified: 8/18/2015
Withdrawn:
Stricken:

COLLEGE & UNIVERSITY COURSES TAUGHT

FORT HAYS STATE UNIVERSITY, HAYS, KANSAS

- 1985-1986** **Historical Geology laboratory** (1 credit hour, 2 semesters)
1985-1986 **Invertebrate Paleontology laboratory** (1 credit hour, 2 semesters)
1987 **Field Methods** (3 credit hours, 1 semester)
1987 **Field Camp** (6 credit hours, 1 summer session)
1987 **Structural Geology** (3 credit hours, 1 semester)

BARTON COUNTY COMMUNITY COLLEGE, GREAT BEND, KANSAS

- 1988** **Life of the Past** (3 continuing education credit hours, 1 semester)

UNIVERSITY OF NEBRASKA-LINCOLN, LINCOLN, NEBRASKA

- 1988-1989** **Historical Geology laboratory** (1 credit hour, 2 semesters)
1990-1991 **Invertebrate Paleontology laboratory** (1 credit hour, 2 semesters)
1991-2002 **Independent Study in Geology** (3 credit hours, 3 semesters)
1992-1995 **Physical Geology laboratory** (1 credit hour, 4 semesters)
1995-1996 **Independent Study in Museum Studies** (3 credit hours, 2 semesters)
1998-2005 **Regional Field Geology** (1 required credit hour, 8 semesters)

CHADRON STATE COLLEGE, CHADRON, NEBRASKA

- 2006** **Sedimentology & Stratigraphy** (3 credit hours, 1 semester)
2007-2008 **Earth Systems Science** (3 general studies credit hours, 3 semesters)

OGLALA LAKOTA COLLEGE, KYLE, SOUTH DAKOTA

- 2008** **Groundwater** (3 credit hours, 1 semester)
2008-2009 **Introduction to Statistics** (3 credit hours, 3 semesters)
2009 **Renewable Energy** (3 credit hours, 1 semester)
2009 **Junior/Senior Research** (3 credit hours, 1 semester)
2009 **Anatomy & Physiology II** (4 credit hours, 1 semester)
2010 **Soil Geomorphology** (3 credit hours, 1 semester)
2010 **Anatomy & Physiology I** (4 credit hours, 1 semester)

RESEARCH INTERESTS

- 1984-1985** **Lake acidification, northern Adirondack Mountains, New York**
1984-1985 **Ordovician marine paleoecology, Trenton Group of northern New York**
1985-present **Taphonomy & paleoecology of Neogene mammals, Nebraska**
1985-present **Taxonomy & systematic description of Neogene mammals, Nebraska**
1988-present **Biostratigraphy of the Deer Creek Formation (Pennsylvanian), Nebraska**
1988-present **Reptiles, amphibians, & lungfish, Eskridge Formation (Permian), Nebraska**
1988-present **Taphonomy & paleoecology of Paleogene faunas, Nebraska**
1991-present **Cenozoic paleosols of western Nebraska & southwestern South Dakota**
1993-present **Cenozoic trace fossils of northwestern Nebraska**
1996-present **Cenozoic lithostratigraphy of western Nebraska**
1998-present **Cenozoic lithostratigraphy of north-central Nebraska**
2008-present **Cenozoic lithostratigraphy of southwestern South Dakota**
2008-present **Groundwater and mineral resources of the Pine Ridge Reservation**

FIELD EXPERIENCE

- 1981-1988 Precambrian & early Paleozoic rocks, northern New York State
- 1984-1985 Limnology of acidified lakes, northern New York State
- 1984-1985 Early Paleozoic strata, northern New York State
- 1985-1988 Cretaceous & Neogene rocks & fossils of western Kansas
- 1985-1988 Late Paleozoic rocks & fossils of eastern Kansas
- 1986-1987 Paleozoic & Mesozoic strata, Utah & Colorado
- 1988-1989 Wisconsinian peat bogs, archeology, & vertebrates, northern Illinois
- 1988-1995 Late Paleozoic rocks & fossils of eastern Nebraska
- 1989-1990 Paleogene carnivores, Agate Fossil Beds National Monument
- 1991-2002 Vertebrate fossil resources of the Oglala National Grassland, Nebraska
- 1996-present Cenozoic lithostratigraphy & fossils of NW Nebraska & SW South Dakota
- 1998-present Cenozoic lithostratigraphy & fossils of north-central Nebraska
- 1998-present Cenozoic paleosols & modern soils, northern Great Plains, USA
- 2000-2005 Pleistocene strata & paleosols of eastern Nebraska
- 2006-present Archeology of NW Nebraska & SW South Dakota
- 2008-present Groundwater and surface water of NW Nebraska & SW South Dakota

STUDENT RESEARCH SUPERVISED

UNIVERSITY OF NEBRASKA-LINCOLN

- 1989-1992 **Michael R. Myers, Department of Geology [independent study].** *“Mortality profiles of Mammuthus imperator (Leidy), Sheridan County, Nebraska.”*
- 1989-1992 **W. Brantly Wells, Department of Geology [independent study].** *“Vertebrate trace fossils of the Toadstool Park Trackway Site, Oglala National Grassland, Nebraska.”*
- 1991-1992 **Dennis W. Moser, Department of Geology [class project].** *“Biostratigraphy of the Haynies limestone bed (Pennsylvanian), a compound distal tempestite from southeastern Nebraska” (1992 STUDENT PAPER AWARD, North-Central Section, Geological Society of America).*
- 1991-1992 **Steven L. Holmes, Department of Geology [class project].** *“Biostratigraphy of the Haynies limestone bed (Pennsylvanian), a compound distal tempestite from southeastern Nebraska” (1992 STUDENT PAPER AWARD, North-Central Section, Geological Society of America).*
- 1996-1997 **April Whitten, Department of Anthropology [MS thesis: LuAnn Wandsnider, Advisor].** *“Late Holocene environments at the Arner Hearth Site, northwestern Nebraska.”*
- 1996-1997 **Justin A. Kinsley, Department of Museum Studies [Independent Study].** *“A vertebrate coprocoenocis from the Orella Member of the Brule Formation (Oligocene), northwestern Nebraska.”*
- 2000-2001 **Erin L. Richardson, Department of Anthropology [MS thesis: LuAnn Wandsnider, Advisor].** *“Holocene landscape reconstruction at the Sand Creek Hearth Site, Dawes County, Nebraska, USA.”*

UNIVERSITY OF CALIFORNIA-BERKELEY

- 1999-2003 **Caroline A. E. Stromberg, Department of Evolutionary and Integrative Biology [Ph. D. dissertation: David A. Lindberg, Advisor].** *"Origin and spread of Tertiary grasslands in North America"* (2003 ALFRED SHERWOOD ROMER PRIZE, Society of Vertebrate Paleontology).

TULANE UNIVERSITY

- 2001-2002 **Stephanie G. Thomas, Department of Geology [American Association of State Geologists Undergraduate Field Mentorship Program].**
"Lithostratigraphic revision and redescription, White River and Arikaree groups"

CHADRON STATE COLLEGE

- 2006-2007 **Jennifer L. Balmat, Department of Physical & Life Sciences [Undergraduate Capstone Thesis: Michael B. Leite, advisor]** *"Physical sedimentology of the Hudson-Meng Bison Kill Site, northwestern Nebraska"*
- 2006-2007 **Joshua W. Balmat, Department of Physical & Life Sciences [Undergraduate Capstone Thesis: Michael B. Leite, advisor]** *"Buried soils and ancient landscapes at the Hudson-Meng Bison Kill Site, northwestern Nebraska"*

OGLALA LAKOTA COLLEGE

- 2008-2009 **Helene Quiver-Gaddy, Department of Math, Science, & Technology [Undergraduate Senior Research: Hannan E. LaGarry, advisor]** *"New lithostratigraphic correlations of the White River Group from northwestern Nebraska to southwestern South Dakota"*
- 2009 **Dylan Brave, Department of Math, Science, & Technology [Undergraduate Junior Research: Hannan E. LaGarry, advisor]** *"New vertebrate trackway sites from the White River Group (Late Eocene) of southwestern South Dakota"*

STUDENTS EMPLOYED

- 1989-1992 **Michael R. Myers (undergraduate in Geology), University of Nebraska-Lincoln.** Vertebrate fossil resource inventories of the Oglala National Grassland.
- 1989-1995 **W. Brantly Wells (undergraduate in Geology), University of Nebraska-Lincoln.** Vertebrate fossil resource inventories of the Oglala National Grassland.
- 1989-1995 **Chris E. Rudnick (graduate in Geology), University of Nebraska-Lincoln.** Vertebrate fossil resource inventories of the Oglala National Grassland.
- 1991-1992 **Daryl K. Pavey (undergraduate in Biology), University of Nebraska-Lincoln.** Vertebrate fossil resource inventories of the Oglala National Grassland.
- 1993-1994 **Michelle K. David (graduate in Geology), Fort Hays State University.** Vertebrate fossil resource inventories of the Oglala National Grassland.
- 1994-1995 **Carrie L. Herbel (graduate in Geology), University of Nebraska-Lincoln.** Vertebrate fossil resource inventories of the Oglala National Grassland.
- 1996-1997 **David L. Dyer (graduate in Museum Studies), University of Nebraska-Lincoln.** Curated White River Group vertebrate fossils from northwestern Nebraska.
- 1996-1997 **Justin A. Kinsley (undergraduate in Museum Studies), University of Nebraska-Lincoln.** Curated White River Group vertebrate fossils from northwestern Nebraska.
- 2002-2003 **Stephanie G. Thomas (undergraduate in Geology), Tulane University.** Geologic mapping (STATEMAP) in northwestern Nebraska.
- 2007 **Jennifer L. Balmat (undergraduate in Geology), Chadron State College.** Renovation of the Eleanor Barbour Cook Museum of Geology.

- 2007** **Joshua W. Balmat (undergraduate in Geology), Chadron State College.**
Renovation of the Eleanor Barbour Cook Museum of Geology.
- 2008-2009** **Helene Quiver-Gaddie (undergraduate in Environmental Science), Oglala Lakota College,** Lithostratigraphy of the White River Group in SW South Dakota.
- 2009-2010** **Dylan Brave (undergraduate in Conservation Biology), Oglala Lakota College,** Fossil mammal trackways of the White River Group, South Dakota.
- 2009-2010** **Curtis Belile (undergraduate in Natural Resources), Oglala Lakota College.**
Uranium contamination in southwestern South Dakota.
- 2009-2010** **Elisha Yellow Thunder (undergraduate in Natural Resources), Oglala Lakota College.** Uranium contamination in southwestern South Dakota.

SCHOLARSHIPS, HONORS, & AWARDS

- 1980** **National Honor Society**
Alumni Fund Scholarship (Norwood-Norfolk Central School Alumni: \$150)
- 1985** **Earth Stewardship Award** (Earth Stewardship Council, Washington, DC: \$150)
Graduate Teaching Assistantship (FHSU Department of Earth Sciences: \$2,450)
- 1986** **Graduate Teaching Assistantship** (FHSU Department of Earth Sciences: \$3,250)
- 1987** **Sigma Xi** (Hays, Kansas Chapter)
- 1988** **Distinguished Masters Thesis Award** (Midwestern Council of Graduate Schools)
Graduate Teaching Assistantship (UNL Department of Geology: \$6,000)
- 1989** **Graduate Teaching Assistantship** (UNL Department of Geology: \$7,000)
M. C. Green Fieldwork Scholarship (University of Nebraska State Museum: \$1,000)
- 1990** **Curatorial Assistantship** (University of Nebraska State Museum: \$7,000)
Student Seminar Award – 1st place (UNL Department of Geology: \$100)
Eunice & T. Mylan Stout Student Paper Award (Nebraska Geological Society: \$50)
M. C. Green Fieldwork Scholarship (University of Nebraska State Museum: \$1,000)
- 1991** **Global Climate Change Internship** (USDA NRCS National Soil Survey laboratory)
Eunice & T. Mylan Stout Student Paper Award (Nebraska Geological Society: \$50)
Lincoln Gem & Mineral Club Scholarship (Lincoln Gem & Mineral Club:\$150)
Curatorial Assistantship (University of Nebraska State Museum: \$7,000)
- 1992** **Student Seminar Award – 1st place** (UNL Department of Geology: \$100)
Student Paper Award (North-Central Section, Geological Society of America: \$50)
- 1993** **Curatorial Assistantship** (University of Nebraska State Museum: \$7,000)
- 1994** **Student Presentation Travel Award** (UNL Department of Geology: \$250)
- 1996** **Volunteer Service Recognition** (Nebraska National Forest)
Student Presentation Travel Award (UNL Department of Geology: \$250)
- 1997** **Extra Effort Cash Award** (USDA NRCS National Soil Survey Center: \$500)
- 2004** **Letter of Commendation** (USDA NRCS: CSD STATEMAP Research Program)
- 2009** **Special Invitation Travel Award** (NSF BIO Directorate, 2009 JAM: \$1200)

PROFESSIONAL MEMBERSHIPS & AFFILIATIONS

- 1985-1988** **PALEONTOLOGICAL SOCIETY**
- 1985-2000** **SOCIETY OF VERTEBRATE PALEONTOLOGY**
- 1986-2000** **KANSAS ACADEMY OF SCIENCE**
- 1987-2000** **SIGMA XI**

- 1988-present NEBRASKA ACADEMY OF SCIENCES
 2006-2007 ASSOCIATION FOR WOMEN GEOSCIENTISTS
 2006-present GEOLOGICAL SOCIETY OF AMERICA

SERVICE TO PROFESSIONAL ORGANIZATIONS

- 1992 **TECHNICAL SESSION CONVENER:** 7th Annual Meeting of the Society for the Preservation of Natural History Collections, Lincoln, Nebraska.
EARTH SCIENCE SECTION CHAIR: 102nd Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.
- 1995 **SYMPOSIUM CO-CONVENER (with D. O. Terry, Jr. & R. M. Hunt, Jr.):** *Depositional Environments, Lithostratigraphy, and Biostratigraphy of the White River and Arikaree Groups.* 29th Annual Meeting of the North & South-Central Sections, Geological Society of America, Lincoln, Nebraska.
FIELD TRIP CO-LEADER (with D. O. Terry, Jr.): *The White River Group Revisited: Vertebrate Trackways, Ecosystems, and Stratigraphic Revision, Redefinition, and Redescription.* 29th Annual Meeting of the North & South Central Sections of the Geological Society of America, Lincoln, Nebraska.
- 1996 **FIELD TRIP CO-LEADER (with D. O. Terry, Jr., R. Benton, & E. Evanoff):** *Hayden's Lakes Revisited: The Origin and New Stratigraphic interpretations of the White River Sequence, South Dakota, Nebraska, and Wyoming.* 1996 Annual Meeting of the Geological Society of America, Denver, Colorado.
- 1998 **FIELD TRIP CO-LEADER (with B. A. Beasley):** *Fossil Resource Management of the Oglala National Grassland and the Toadstool Park Trackway Site.* 5th Conference on Fossil Resources, Rapid City, South Dakota.
- 1999 **EARTH SCIENCE SECTION CO-CHAIR (with S. Tucker):** 109th Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.
DEHNER AWARD JUDGE (posters): 131st Annual Meeting of the Kansas Academy of Science, Manhattan, Kansas.
- 2000 **SYMPOSIUM CO-CONVENER (with E. L. Richardson):** *Nebraska Stratigraphy,* 110th Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.
EARTH SCIENCE SECTION CO-CHAIR (with A. Carter): 110th Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.
- 2002 **EUNICE & T. MYLAN STOUT STUDENT PAPER AWARD JUDGE (platform):** 112th Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.
DEHNER AWARD JUDGE (platform): 134th Annual Meeting of the Kansas Academy of Science, Hays, Kansas.
- 2003 **EUNICE & T. MYLAN STOUT STUDENT PAPER AWARD JUDGE (platform):** 113th Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.
- 2004 **NEBRASKA GEOLOGICAL SOCIETY STUDENT PAPER AWARD JUDGE (platform):** 114th Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.
- 2005 **NEBRASKA GEOLOGICAL SOCIETY STUDENT PAPER AWARD JUDGE (platform):** 115th Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.
- 2006 **NEBRASKA GEOLOGICAL SOCIETY STUDENT PAPER AWARD JUDGE (platform):** 116th Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.
- 2007 **EARTH SCIENCE SECTION CHAIR:** 117th Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.
FIELD TRIP CO-LEADER (with L. A. LaGarry, M. P. Muniz, & L. D. Agenbroad): *Geoarcheology of the Hudson-Meng Bison Kill Site, Oglala National Grassland,*

Nebraska. 65th Annual Meeting of the Plains Anthropological Society, Rapid City, South Dakota.

2008 NEBRASKA GEOLOGICAL SOCIETY STUDENT PAPER AWARD JUDGE (platform):
118th Annual Meeting of the Nebraska Academy of Sciences, Lincoln, Nebraska.

SERVICE TO FEDERAL & STATE AGENCIES

- 1992** **Paleontological resources of the Oglala National Grassland**, US Forest Service (Region 2), US Forest Service Regional Team Leadership Meeting, Nebraska National Forest, Chadron, Nebraska.
- 1993-2004** **North American Geologic-map Data Model Science-Language Technical Team, Sedimentary & Surficial Deposits subgroups**, US Geological Survey National Geologic Mapping Working Group Steering Committee.
- 2004** **Petrocalcic soils tour of the north-central Great Plains (with J. Wilson & P. Young). NRCS National Soil Survey Laboratory**, USDA Natural Resources Conservation Service, Lincoln, Nebraska.
- 2009** **Tribal Colleges & Universities Information and Planning Meeting**, National Science Foundation BIO Directorate, Arlington, Virginia.
- Research Experiences for Undergraduates Program workshop facilitator (with L. Patino)**, Tribal Colleges & Universities Program Leadership Conference, National Science Foundation, Albuquerque, New Mexico.
- 2009-2010** **Ad hoc Grant Proposal Reviewer**, National Science Foundation, Arlington, Virginia.

SERVICE TO COLLEGES & UNIVERSITIES

- 2007-2008** **FACULTY MENTOR (with 6 others)**, “*People, Planet, & Prosperity*” Environmental Protection Agency (student) Sustainability Design Competition, Chadron State College, Chadron, Nebraska.
- 2008** **MANUSCRIPT REVIEWER (with 3 others)**, “*Outside the Lines*” student essay competition and published volume, Chadron State College, Chadron, Nebraska.
- 2008-2009** **Instructional Affairs Committee (Distance Learning Subcommittee)**, Oglala Lakota College, Kyle, South Dakota
- 2008-2009** **Higher Learning Commission Focus Visit Task Force (faculty representative)**, Oglala Lakota College, Kyle, South Dakota
- 2008-2010** **Institutional (Research) Review Board (Department of Math, Science, & Technology representative)**, Oglala Lakota College, Kyle, South Dakota
- 2009** **Graduate Study Advisory Group**, Oglala Lakota College, Kyle, South Dakota
- JUDGE OF 7th & 8th GRADE PROJECTS**, Oglala Lakota College Reservation-wide Science Fair, MIE Conference Room, Piya Wiconi Administrative Campus
- “Oglala Lakota College Department of Math, Science, & Technology: the year in review,”** Oglala Lakota College Faculty Retreat Annual, Rapid City, South Dakota.
- “Oglala Lakota College Department of Math, Science, & Technology: the year in review,”** Oglala Lakota College Board of Trustees Annual Retreat, Rapid City, South Dakota.
- “Water and uranium on the Pine Ridge Reservation,”** All-Faculty Meeting Special Presentation, Piya Wiconi Administrative Campus, Oglala Lakota College, Kyle, South Dakota

SERVICE TO ACADEMIC DEPARTMENTS & STUDENT ORGANIZATIONS

- 1983** **SECRETARY**, Students for Environmental Awareness SUNY @ Potsdam
- 1984-1985** **VICE PRESIDENT**, Students for Environmental Awareness SUNY @ Potsdam
- 1984-1985** **Student Member, Geology Club** Geology Department, SUNY @ Potsdam
- 1985-1988** **Student Member, Sternberg Geology Club** FHSU Dept. of Earth Sciences
- 1988-1993** **Student Member, Geology Club** UN-L Department of Geosciences
- 1993-1995** **STUDENT REPRESENTATIVE at faculty meetings** UN-L Department of Geosciences
- 2006-2007** **Faculty Member, Geology Club** Chadron State College
- 2009** **“Student participation in research at OLC’s Department of Math, Science, & Technology,”** Native Science Field Center Program National Leadership Conference, Rapid City, South Dakota.
- “Student research opportunities in the OLC Department of Math, Science, & Technology,”** Department of Math, Science, & Technology Student Intern Meeting (October), Piya Wiconi Administrative Campus, Oglala Lakota College, Kyle, South Dakota

SERVICE TO COMMUNITY & NONPROFIT ORGANIZATIONS

- 1993** **FIELD TRIP CO-LEADER (with L. A. LaGarry & D. A. Nixon)** “*Nebraska Rocks!*” Homestead Council, Girl Scouts of America.
- 2008** **Expert opinion**, “*Geological and hydrological implications of proposed Crow Butte Resources’ North Trend Expansion of in-situ leach mining north of Crawford, Nebraska,*” provided to Western Nebraska Resources Council, Owe Aku, and concerned residents <http://savecrowbutte.org/files/Crow%20Butte%20LBP-08-06%20042908.pdf>
- PROGRAM CHAIR & MODERATOR**, “*Our Water, Our Future: A Hard Look at the Dry Facts*” Town Hall Meeting, Chadron State College Student Center Ballroom, Chadron, Nebraska.
- Expert Opinion**, “*Geology, groundwater resources, and implications of Crow Butte Resources’ continued in-situ leach mining north of Crawford, Nebraska,*” provided to Western Nebraska Resources Council, Owe Aku, concerned residents, and the Oglala Sioux Tribe <http://plentyinternational.wordpress.com/2008/07/31/expert-opinion-regarding-isl-mining-in-dawes-county-nebraska/>
- 2009** **PROGRAM CO-CHAIR (with Darwin Apple) & MODERATOR**, “*Informational Meeting Between Oglala Lakota College and Renewable Energy Development Experts,*” Oglala Lakota College MIE (Math & Science Department) Conference Room, Kyle, South Dakota

PROFESSIONAL CONFERENCES ATTENDED (dates)

- American Association for the Advancement of Science** (1988)
- Cenozoic Vertebrate Tracks and Traces Conference** (2007)
- Conference on Fossil Resources** (1992, 1994, 1998)
- Digital Mapping Techniques Conference** (2000)
- Geological Society of America** (1994, 1996, 1999, 2006-07)
- Geological Society of America (Northeast Region)** (1984)

Geological Society of America (North-central Region) (1992, 1995)
Island in the Plains Historical & Archeological Symposium (2006-07)
Kansas Academy of Science (1987-88, 1991-92, 1994, 1999, 2001-02)
National Science Foundation Joint Annual Meeting (2009)
Nebraska Academy of Sciences (1989-93, 1995-2000, 2002-08)
North American Paleontological Convention (2001)
Northern Plains Governors' Conference (1992)
Plains Anthropological Society (2006-07)
Society of Vertebrate Paleontology (1985, 1987, 1991-93)
Society for the Preservation of Natural History Collections (1992)
Western South Dakota Hydrology Conference (2009)

PROFESSIONAL DEVELOPMENT ACTIVITIES

- 1991** **Laboratory Exercises in Paleopedology (Instructor: G. Retallack)**, University of Nebraska-Lincoln Department of Geology, Lincoln, NE
- 1999** **Digital Mapping Methods: Accurate Digital Data Capture and Analysis for the Field Geoscientist**, Geological Society of America short course, Denver, CO
- 2008** **Quality Education for Minorities Network Grant-writing Workshop**, National Science Foundation (Research in Disabilities Education Program), Washington, D.C.
National Science Foundation Tribal College Workshop, NSF Office of Budget, Finance, & Award Management (Division of Institution & Award Support), Arlington, VA
- 2009** **UNCFSP Tribal College Technical Assistance Training**, United Negro College Fund Special Projects unit, Albuquerque, NM
Funding Opportunities (NSF BIO Directorate), National Science Foundation 2009 Joint Annual Meeting, Washington, DC
Special Networking Session (NSF BIO Directorate), National Science Foundation 2009 Joint Annual Meeting, Washington, DC
Tribal Colleges & Universities Program Leadership Conference, National Science Foundation (Division of Education & Human Resources), Albuquerque, New Mexico
Incorporating Native Culture into the STEM Curriculum, National Science Foundation (Tribal Colleges & Universities Program/Quality Education for Minorities Network), Albuquerque, New Mexico

INVITED PUBLIC LECTURES

- 1994** ***"Mapping vertebrate fossil resources in northwestern Nebraska"*** Stout Lecture Series, Department of Geology, University of Nebraska-Lincoln, Lincoln, Nebraska..
- 1996** ***"The geology of Nebraska north of the Pine Ridge"*** CHAUTAUQUA '96, Chadron/Dawes County Chamber of Commerce, Chadron, Nebraska.
- 1999** ***"New stratigraphic classification of the 'basal Chadron Formation' of northwestern Nebraska"*** Crawford Rock Club Annual Rock & Fossil Swap, Crawford, Nebraska.
- 2002** ***"Late Cretaceous and early Tertiary stratigraphy of the French Creek agate locality near Fairburn, South Dakota"*** (with L. A. LaGarry) 54th Annual Lincoln Gem & Mineral Show, Lincoln, Nebraska.
- 2003** ***"Diet and behavior in fossil carnivores"*** Friends of the Prehistoric Prairies Discovery Center Annual Meeting, Crawford, Nebraska.

- 2004** *“Recent advances in the Tertiary stratigraphy of Nebraska”* Water Center Seminar Series, School of Natural Resources, University of Nebraska-Lincoln, Lincoln, Nebraska.
“Tracks and trails from the Tertiary of Nebraska” (with W. B. Wells) Nebraska Geological Society, Omaha, Nebraska.
- 2005** *“Recent research at Agate Fossil Beds National Monument”* 40th Anniversary Celebration Program, Agate Fossil Beds National Monument, Nebraska.
- 2006** *“Geological survey (1996-2006) in northwestern Nebraska”* 2nd Annual Earth Day Celebration, Chadron State College, Chadron, Nebraska.
- 2008** *“Introduction and agenda- Our Water, Our Future: A Hard Look at the Dry Facts”* Town Hall Meeting, Chadron State College Student Center Ballroom, Chadron, Nebraska.
“Geology and groundwater resources of northwestern Nebraska and southwestern South Dakota” (with L. A. LaGarry) Oglala Sioux Tribe Natural Resources Regulatory Agency meeting, Pine Ridge, South Dakota
“Oglala Lakota College’s potential role in managing the vertebrate fossil resources of the Pine Ridge Reservation” Oglala Sioux Parks & Recreation Authority public information meetings in Red Shirt and Kyle, South Dakota
- 2009** *“The local uranium mining scene”* Western Mining Action Network annual meeting (Defenders of the Black Hills), Rapid City, South Dakota

GRANTS & CONTRACTS (~ \$5,245,550 to date, including matching funds)

- 1991** **CO-INVESTIGATOR (with R. M. Hunt, Jr.): Nebraska National Forest Paleontological resource inventories of the Oglala National Grassland (\$40,000).**
PRINCIPLE INVESTIGATOR: Nebraska Geological Society’s Yatkola-Edwards Research Grant Vertebrate taphonomy and paleoecology in NW Nebraska (**\$250**).
- 1992** **CO-INVESTIGATOR (with R. M. Hunt, Jr.): Nebraska National Forest Paleontological resource inventories of the Oglala National Grassland (\$48,000).**
- 1993** **CO-INVESTIGATOR (with R. M. Hunt, Jr.): Nebraska National Forest Paleontological resource inventories of the Oglala National Grassland (\$42,000).**
- 1994** **CO-INVESTIGATOR (with R. M. Hunt, Jr.): Nebraska National Forest Paleontological resource inventories of the Oglala National Grassland (\$42,000).**
- 1995** **CO-INVESTIGATOR (with R. M. Hunt, Jr.): Nebraska National Forest Paleontological resource inventories of the Oglala National Grassland (\$60,000).**
- 1999** **CO-INVESTIGATOR (with J. B. Swinehart): US Geological Survey STATEMAP Program** Geologic Mapping in NW Nebraska (**\$178,000**).
- 2000** **CO-INVESTIGATOR (with J. B. Swinehart & R. M. Hunt, Jr.): US Geological Survey STATEMAP Program** Geologic mapping in NW Nebraska (**\$192,000**).
- 2001** **CO-INVESTIGATOR (with J. B. Swinehart & B. E. Bailey): US Geological Survey STATEMAP Program** Geologic mapping in NW Nebraska (**\$196,000**).
- 2002** **CO-INVESTIGATOR (with J. B. Swinehart & B. E. Bailey): US Geological Survey STATEMAP Program** Geologic mapping in NW Nebraska (**\$200,000**).
- 2003** **CO-INVESTIGATOR (with J. B. Swinehart, B. E. Bailey, & R. M. Hunt, Jr.): US Geological Survey STATEMAP Program** Geologic mapping in northwestern Nebraska (**\$220,000**).
- 2004** **CO-INVESTIGATOR (with J. B. Swinehart, R. M. Joeckel, B. E. Bailey, R. M. Hunt, Jr., G. A. Liggett, & R. Lisichenko): US Geological Survey STATEMAP Program** Geologic mapping in northwestern and eastern Nebraska (**\$340,000**).

- 2005 CO-INVESTIGATOR (with J. B. Swinehart, R. M. Joeckel, M. B. Leite, and R. Lisichenko): U. S. Geological Survey STATEMAP Program** Geologic mapping in northwestern and southeastern Nebraska (**\$196,000**).
- 2006 CO-INVESTIGATOR (with L. A. LaGarry & M. B. Leite): US Forest Service Region 2 (Hudson-Meng Bison Kill Site)** Holocene geochronology in the vicinity of the Hudson-Meng Bison Kill Site (**\$11,200**).
- 2007 CO-INVESTIGATOR (with R. Weedon, M. B. Leite, C. McAllister, S. Rolfsmeier, & L. Stewart-Phelps): Chadron State College VISION 2011 Strategic Planning Committee** Laying the groundwork for the second century of the CSC natural history museum (**\$37,790**).
- CO-INVESTIGATOR (with M. B. Leite): Nebraska National Forest** Photogrammetry and casting of the Toadstool Park Trackway Site, Oglala National Grassland, Nebraska (**\$15,400**).
- 2009 CO-INVESTIGATOR (with G. Giraud): National Science Foundation Model Institutions for Excellence Phase III** Modular science, technology, engineering, and mathematics (STEM) course content for sharing among tribal colleges (**\$900,000**).
- CO-INVESTIGATOR (with C. J. Tinant & G. Giraud): National Science Foundation Tribal Colleges & Universities Program Phase I** Faculty and curriculum development, scientific collections and library development, and student research support and dissemination (**\$2,500,000**).

PERMITS & AUTHORIZATIONS

- 1990 SPECIAL-USE PERMIT (3 years, User Number 2033)** Nebraska National Forest, Chadron, Nebraska. Permission to excavate federally owned and protected vertebrate fossils from the Oglala National Grassland during dissertation fieldwork and paleontological resource inventories.
- 1991-1995 ARCHEOLOGICAL SITE EVALUATION CLEARANCE** Nebraska National Forest, Chadron, Nebraska. Clearance to assess potential archeological sites during dissertation fieldwork and paleontological resource inventories of the Oglala National Grassland.
- 1993 SPECIAL-USE PERMIT RENEWAL (User Number 2033-4)** Nebraska National Forest, Chadron, Nebraska. Permission to excavate federally owned and protected vertebrate fossils from the Oglala National Grassland during dissertation fieldwork and paleontological resource inventories.
- 1994-1995 SPECIAL-USE PERMIT (3 years, User Number 2033-4)** Nebraska National Forest, Chadron, Nebraska. Permission to excavate federally owned and protected vertebrate fossils from the Oglala National Grassland during dissertation fieldwork and paleontological resource inventories.
- 1998-2000 ARCHEOLOGICAL SITE EVALUATION CLEARANCE** Nebraska National Forest, Chadron, Nebraska. Clearance to assess potential archeological sites during STATEMAP fieldwork in the Pine Ridge Ranger District, Dawes County, Nebraska.
- 1998-2000 SPECIAL-USE PERMIT (3 years, User Number 2033-4)** Nebraska National Forest, Chadron, Nebraska. Permission to excavate federally owned and protected vertebrate fossils from the Pine Ridge Ranger District, Dawes County, Nebraska, during STATEMAP fieldwork.
- 1998-2000 SPECIAL-USE PERMIT (3 years, User Number 2033-4)** Nebraska National Forest, Chadron, Nebraska. Permission to trench covered or weathered exposures and collect rock and volcanic ash samples from the Pine Ridge Ranger District, Dawes County, Nebraska, during STATEMAP fieldwork.

MISCELLANEOUS

TELEVISION APPEARANCES

- 1996** **RESTLESS PRAIRIE (science documentary: 60 min.)** Joe Turco, Producer. Science, Outreach, & Specials Unit, University of Nebraska-Lincoln Television. Broadcast on Nebraska Educational Television (NETV) Network. *12 min segment: Toadstool Park Trackway site and Fossil Conservation on the Oglala National Grassland (with W. B. Wells & D. A. Nixon).*

RADIO APPEARANCES

- 2008** **Sound Off (KCSR Radio, Chadron, Nebraska: 30 min.)** “*Our Water, Our Future: A Hard Look at the Dry Facts*” Town Hall Meeting, Chadron State College Student Center Ballroom (with Mr. Glen Price, landowner).
- 2008** **Community Focus (KCSR Radio, Chadron, Nebraska: 15 min.)** “*Our Water, Our Future: A Hard Look at the Dry Facts*” Town Hall Meeting, Chadron State College Student Center Ballroom.

FIELD HANDBOOK DATA SHEETS

- 1998** Schoeneberger, P. J., D. A. Wysocki, E. C. Benham, & **H. E. LaGarry. *Miscellaneous***, pp. 7-1 to 7-14 in (P. J. Schoeneberger, D. A. Wysocki, E. C. Benham, & W. D. Broderson, compilers) *Field Book for Describing and Sampling Soils (Ver. 1.1)*. USDA Natural Resources Conservation Service, National Soil Survey Center, Lincoln NE.
- 2002** Schoeneberger, P. J., D. A. Wysocki, E. C. Benham, & **H. E. LaGarry. *Miscellaneous***, pp. 7-1 to 7-14 in (P. J. Schoeneberger, D. A. Wysocki, E. C. Benham, & W. D. Broderson, compilers) *Field Book for Describing and Sampling Soils (Ver. 2.1)*. USDA Natural Resources Conservation Service, National Soil Survey Center, Lincoln NE.

ILLUSTRATION CREDITS

- 1985** “**Artist’s conception of a middle Ordovician life scene during Trenton (limestone) time. The orthocone cephalopod is similar to those found at the Clairmont Quarry.**” p. 297 in Van Diver, B. B. 1985. *Roadside Geology of New York*. Missoula, Montana, Mountain Press Publishing Company.
- 1996** “**USGS quadrangles (solid lines) examined in the CSD open-file report by LaGarry and LaGarry, adjacent quadrangles also mapped, and federal lands of the Oglala National Grassland.**” p. 35 in Flowerday, C. A. 1996. *Fossil inventories yield geologic mapping, revision of the White River Group*. Resource Notes, 10:33-35.

PHOTOGRAPH CREDITS

- 1988** “**Below: Each biological specimen found during the excavation was isolated from the majority of the surrounding sediment and was subsequently wrapped for removal to the laboratory. A portion of the pelvis of the stag-moose is seen in the center of the photo, and spruce logs in the foreground,**” p. 41 in Warren, R. E. & R. W. Graham. 1988. *Cervalces: an Ice Age discovery*. The Living Museum, 50(3):38-41.
- 1996** “**A field party made up of CSD, UNL Geology, and UN State Museum geologists examine the Chamberlain Pass Formation near Toadstool Park in northern Sioux County. Observers are (from left) Leigh Anne LaGarry, CSD; Dennis Terry, UNL Geology; Dave Loope, UNL Geology; Dave Nixon, UN State Museum; Brant Wells, UNL Geology; and Jim Swinehart, CSD.**” p. 33 in Flowerday, C. A. 1996. *Fossil inventories yield geologic mapping, revision of the White River Group*. Resource Notes, 10:33-35.

- 2004 ***“The petrocalcic field tour led by SNR geoscientist Hannan LaGarry stops to look at the Box Butte Formation on the highway south of Marsland in the upper Niobrara River valley. Co-leader and former SNR soil scientist Phil Young (far right, crouching) talks to the group, which includes scientists from various Great Plains offices of the U. S. Natural Resources Conservation Service and from the NRCS National Soil Survey Center in Lincoln. SNR soil scientist Francis Belohlavy sits in the cab of the white pickup.”*** p. 6 in Flowerday, C. A. 2004. SNR tour helps federal scientists solve soil classification riddle, saves money. Natural Resource Links, 4(4):1-12.
- “An example of a calcic, not a petrocalcic, horizon near Marsland. White concretions show carbonate buildup. Marks on tape measure are every 10 centimeters.”*** p. 6 in Flowerday, C. A. 2004. SNR tour helps federal scientists soil classification riddle, saves money. Natural Resource Links, 4(4):1-12.

BOOK COVERS

- 1998 ***“Fine-grained volcanoclastic rocks of the White River Group initially studied by N. H. Darton (1899) at the Pine Ridge escarpment in northwestern Nebraska.”*** Terry, D. O., Jr., H. E. LaGarry, & R. M. Hunt, Jr. (eds.). 1998. Depositional Environments, Lithostratigraphy, and Biostratigraphy of the White River and Arikaree Groups (Late Eocene to Early Miocene, North America). Geological Society of America Special Paper 325, 216 pp.

NEWSPAPER ARTICLES

- 2006 ***“Earth Day celebration to focus on water in the High Plains”*** (with L. A. LaGarry) p. 4A in The Chadron Record, Wednesday, April 12, 2006 (www.thechadronnews.com).

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PEER-REVIEWED PAPERS

- 1990 Thomasson, J. R., R. J. Zakrzewski, **H. E. LaGarry**, & D. E. Mergen. ***A late Miocene (Late Early Hemphillian) biota from northwestern Kansas***. National Geographic Research, 6(2):231-244.
- 1993 **LaGarry, H. E.** & M. R. Myers. ***Mortality profiles of Mammuthus imperator (Leidy), Sheridan County, Nebraska***. Transactions of the Kansas Academy of Science, 96(3-4):196-203.
- 1994 **LaGarry, H. E.** ***Results & recommendations of the 1991 paleontological resource survey of the Oglala National Grassland***, pp. 69-72 in (R. Benton & A. Elder, eds.) Proceedings of the 3rd Conference on Fossil Resources. Natural Resources Report NPS/NRFOBU/NRR-94-14, 98 p.
- 1995 Terry, D. O., Jr., **H. E. LaGarry**, & W. B. Wells. ***The White River Group revisited: vertebrate trackways, ecosystems, and lithostratigraphic revision, redefinition, and redescription***, pp. 43-57 in (C. Flowerday, ed.) Geologic field trips in Nebraska and adjacent parts of Kansas and South Dakota. University of Nebraska-Lincoln Conservation and Survey Division Guidebook 10, 136 p.
- 1997 **LaGarry, H. E.** ***Paleontological resource inventories of the Oglala National Grassland: a model for generating paleontological and geological research on public lands***, pp. 108-113 in (M. Johnson & J. McChristal, eds.) Proceedings of the 4th Conference on Fossil Resources. Natural Resources Report NPS/NRFLFO/NRR-97/01, 239 p.
- LaGarry, H. E.** & D. O. Terry, Jr. ***Regional distribution of lithotopes within the Chadron Formation of northwestern Nebraska***, pp. 9-22 in (R. Hunter, ed.) Geology and paleontology of the White River Formation. Tate Geological Museum Guidebook 2, 139 p.
- 1998 Terry, D. O. Jr., **H. E. LaGarry**, & R. M. Hunt, Jr. (eds.). ***Depositional environments, lithostratigraphy, and biostratigraphy of the White River and Arikaree Groups (Late Eocene to Early Miocene, North America)***. Geological Society of America Special Paper 325, 216 p.
- Terry, D. O., Jr. & **H. E. LaGarry**. ***The Big Cottonwood Creek Member: a new member of the Chadron Formation of northwestern Nebraska***, pp. 117-142 in (D. O. Terry, Jr., H. E. LaGarry, & R. M. Hunt, Jr., eds.) Depositional environments, lithostratigraphy, and biostratigraphy of the White River and Arikaree Groups (Late Eocene to Early Miocene, North America). Geological Society of America Special Paper 325, 216 p.
- LaGarry, H. E.** ***Lithostratigraphic revision and redescription of the Brule Formation (White River Group), northwestern Nebraska***, pp. 63-92 in (D. O. Terry, Jr., H. E. LaGarry, & R. M. Hunt, Jr., eds.) Depositional environments, lithostratigraphy, and biostratigraphy of the White River and Arikaree Groups (Late Eocene to Early Miocene, North America). Geological Society of America Special Paper 325, 216 p.
- LaGarry, H. E.**, W. B. Wells, D. O. Terry, Jr., & D. A. Nixon. ***The Toadstool Park Trackway Site, Oglala National Grassland, Nebraska***, pp. 92-107 in (J. Martin & R. Benton, eds.) Proceedings of the 5th Conference on Fossil Resources. Dakoterra 5, 143 p.

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- 2004 LaGarry, H. E. **Taphonomic evidence of bone processing from the Oligocene of northwestern Nebraska**. University of Nebraska-Lincoln School of Natural Resources Professional Paper 2, 35 p.
- 2005 Wysocki, D. A., P. J. Schoeneberger, & H. E. LaGarry. **Soil surveys: a window to the subsurface**. Geoderma 126:167-180.
- 2007 Fielding, C. R., H. E. LaGarry, L. A. LaGarry, B. E. Bailey, & J. B. Swinehart. **Sedimentology of the Whiteclay gravel beds in northwestern Nebraska, USA: structurally controlled drainage promoted by early Miocene uplift of the Black Hills Dome**. Sedimentary Geology 202:58-71.
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- 1987 LaGarry, H. E. **Camelidae (Mammalia: Artiodactyla) from the Minium Quarry local biota (Early Hemphillian), Graham County, Kansas**. Kansas Academy of Science Abstracts, 6:29.
- 1988 LaGarry, H. E. **Notes on the taphonomy of the Early Hemphillian-aged Minium Quarry local biota, Graham County, Kansas**. Kansas Academy of Science Abstracts, 7:22.
- 1989 LaGarry, H. E., C. E. Rudnick, & J. I. Kirkland. **Biostratinomy, paleoecology, and storm wave disturbance in the Pennsylvanian-aged "Haynies limestone" bed (Deer Creek Fm.) of Cass County, Nebraska**. Proceedings of the 99th Annual Meeting of the Nebraska Academy of Sciences, pp. 58-59.
- Bailey, B. E., C. L. Herbel, H. E. LaGarry, C. E. Rudnick, & M. R. Voorhies. **Population dynamics of Pleistocene Equus from the "Equus beds:" age profiles of fossil horse dentitions from Gordon Quarry, Late Irvingtonian, Sheridan County, Nebraska**. Proceedings of the 99th Annual Meeting of the Nebraska Academy of Sciences, p. 49.
- 1990 LaGarry, H. E. & C. Wellstead. **New Permian vertebrate localities in the Eskridge Fm., Richardson County, Nebraska**. Proceedings of the 100th Annual Meeting of the Nebraska Academy of Sciences, pp. 61-62
- 1991 LaGarry, H. E. **Carnivore-induced bone modification patterns in large ungulates of the Minium Quarry local biota (Late Miocene) of north-central Kansas**. Kansas Academy of Science Abstracts, 10:16.
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- LaGarry, H. E. ***Community paleoecology and biofacies analysis of the upper Trenton Group (Middle Ordovician), Kellogg Hill, New York.*** Proceedings of the 101st Annual Meeting of the Nebraska Academy of Sciences, p. 59.
- 1992 LaGarry, H. E. ***1991 paleontological resource survey of the Oglala National Grassland (Roundtop 7.5' Quadrangle), Sioux County, Nebraska.*** Kansas Academy of Science Abstracts, 11:22.
- LaGarry, H. E., C. E. Rudnick, D. W. Moser, & S. L. Holmes. ***Taphonomy of the Haynies limestone bed (Pennsylvanian), a compound distal tempestite from southeastern Nebraska.*** Geological Society of America Abstracts with Programs, 24(4):7.
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- LaGarry, H. E. ***The impact of unauthorized collecting of vertebrate fossils on the Oglala National Grassland (Roundtop 7.5' Quadrangle), Sioux County, Nebraska.*** Proceedings of the 102nd Annual Meeting of the Nebraska Academy of Sciences, p. 69.
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- LaGarry, H. E., D. A. Nixon, & W. B. Wells. ***1992 USDA Forest service survey and assessment of Toadstool Park as a sensitive site.*** Proceedings of the 103rd Annual Meeting of the Nebraska Academy of Sciences, pp. 61-62.
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- 1995 **LaGarry, H. E. *Provisional revision of lithostratigraphic boundaries of the Brule Formation in northwestern Nebraska.*** Geological Society of America Abstracts with Programs, 27(3):66-67.
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- Kinsley, J. A. & **H. E. LaGarry. *Preliminary report of a vertebrate coprocoenocis from the Orella Member of the Brule Formation (Oligocene), northwestern Nebraska.*** Proceedings of the 107th Annual Meeting of the Nebraska Academy of Sciences, p. 46.
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NEBRASKA GEOLOGICAL SURVEY OPEN-FILE MAPS

Table 1. Open-file (OFM) and open-file digital (OFDM) maps from the Alliance 1:250,000 Quadrangle available from the Nebraska Geological Survey (University of Nebraska-Lincoln Conservation & Survey Division, School of Natural Resources). Digital maps were produced by the Department of Geosciences at Fort Hays State University, supervised by R. Lisichenko, J. Heinrichs, G. Liggett, and K. R Neuhauser. All maps are Nebraska quadrangles except as noted.

Map Name¹	Date²	Map No.³	Authors
Sherrill Hills (WY-NE)	1997	53	LaGarry & LaGarry
Story	1997	54	LaGarry & LaGarry
(digital version 1.1)	2001	54D	LaGarry, LaGarry, & Swinehart
Story NE	1997	55	LaGarry & LaGarry
(digital ver. 1.1)	2001	55D	LaGarry, LaGarry, & Swinehart
Lone Tree Ranch	1997	56	LaGarry & LaGarry
(digital ver. 1.1)	2001	56D	LaGarry, LaGarry, & Swinehart
Wayside	1997	57	LaGarry & LaGarry
(digital ver. 1.1)	2001	57D	LaGarry, LaGarry, & Swinehart
Bohemian Creek	1997	58	LaGarry & LaGarry
(digital ver. 1.1)	2001	58D	LaGarry, LaGarry, & Swinehart
Kirtley (WY-NE)	1997	59	LaGarry & LaGarry
Warbonnet Ranch	1997	60	LaGarry & LaGarry
(digital ver. 1.1)	2001	60D	LaGarry, LaGarry, & Swinehart
Bodarc	1997	61	LaGarry & LaGarry
(digital ver. 1.1)	2001	61D	LaGarry, LaGarry, & Swinehart
Five Points	1997	62	LaGarry & LaGarry
(digital ver. 1.1)	2001	62D	LaGarry, LaGarry, & Swinehart
Whitney	1997	63	LaGarry, LaGarry, & Swinehart
(digital version 1.1)	2001	63D	LaGarry, LaGarry, & Swinehart
Trunk Butte	1997	64	LaGarry, LaGarry, & Swinehart
(digital version 1.1)	2001	64D	LaGarry, LaGarry, & Swinehart
Chadron West	1997	65	LaGarry, LaGarry, & Swinehart
(digital version 1.1)	2001	65D	LaGarry, LaGarry, & Swinehart
Crawford	1998	66	LaGarry, Swinehart, & LaGarry
(digital version 1.1)	2002	66D	LaGarry, LaGarry, & Swinehart
Crow Butte	1998	67	LaGarry, Swinehart, & LaGarry
(digital version 1.1)	2002	67D	LaGarry, LaGarry, & Swinehart
Chimney Butte	1998	68	LaGarry, Swinehart, & LaGarry
(digital version 1.1)	2002	68D	LaGarry, LaGarry, & Swinehart
Coffee Mill Butte	1998	69	LaGarry, Swinehart, & LaGarry
(digital version 1.1)	2002	69D	LaGarry, LaGarry, & Swinehart
Dead Mans Creek	1998	70	LaGarry, Swinehart, & LaGarry
(digital version 1.1)	2002	70D	LaGarry, LaGarry, & Swinehart
Belmont	1998	71	LaGarry, Swinehart, & LaGarry
(digital version 1.1)	2002	71D	LaGarry, LaGarry, & Swinehart
Coffee Mill Butte SW	1998	72	LaGarry, Swinehart, & LaGarry
(digital version 1.1)	2002	72D	LaGarry, LaGarry, & Swinehart
Coffee Mill Butte SE	1998	73	LaGarry, Swinehart, & LaGarry
(digital version 1.1)	2002	73D	LaGarry, LaGarry, & Swinehart
Van Tassell (WY-NE)	1999	74	LaGarry, LaGarry, & Swinehart

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Table 1 (continued).

Map Name¹	Date²	Map No.³	Authors
Harrison West (digital version 1.1)	1999 2002	75 75D	LaGarry, LaGarry, & Swinehart LaGarry, LaGarry, & Swinehart
Harrison East (digital version 1.1)	1999 2002	76 76D	LaGarry, LaGarry, & Swinehart LaGarry, LaGarry, & Swinehart
Andrews (digital version 1.1)	1999 2002	77 77D	LaGarry, LaGarry, & Swinehart LaGarry, LaGarry, & Swinehart
Smiley Canyon (digital version 1.1)	1999 2002	78 78D	LaGarry, LaGarry, & Swinehart LaGarry, LaGarry, & Swinehart
Van Tassell SE (WY-NE)	1999	79	LaGarry, LaGarry, & Swinehart
Harrison SW (digital version 1.1)	1999 2002	80 80D	LaGarry, LaGarry, & Swinehart LaGarry, LaGarry, & Swinehart
Harrison SW (digital version 1.1)	1999 2002	81 81D	LaGarry, LaGarry, & Swinehart LaGarry, LaGarry, & Swinehart
Kyle Creek (digital version 1.1)	1999 2002	82 82D	LaGarry, LaGarry, & Swinehart LaGarry, LaGarry, & Swinehart
Glen (digital version 1.1)	1999 2002	83 83D	LaGarry, LaGarry, & Swinehart LaGarry, LaGarry, & Swinehart
Isinglass Buttes (digital version 1.1)	2000 2003	84 84D	LaGarry, LaGarry, & Swinehart LaGarry, LaGarry, & Swinehart
Chadron NE (digital version 1.1)	2000 2003	85 85D	LaGarry, LaGarry, & Swinehart LaGarry, LaGarry, & Swinehart
Chadron East (digital version 1.1)	2000 2003	86 86D	LaGarry, Swinehart, & LaGarry LaGarry, LaGarry, & Swinehart
Bordeaux (digital version 1.1)	2000 2003	87 87D	LaGarry, Swinehart, & LaGarry LaGarry, LaGarry, & Swinehart
Kings Canyon/Chadron 3 NW (digital version 1.1)	2000 2003	88 88D	LaGarry, Swinehart, & LaGarry LaGarry, LaGarry, & Swinehart
Hay Springs Creek/Chadron 3 NE (digital version 1.1)	2000 2003	89 89D	LaGarry, Swinehart, & LaGarry LaGarry, LaGarry, & Swinehart
Sand Canyon West/Chadron 3 SW (digital version 1.1)	2000 2003	90 90D	LaGarry, Swinehart, & LaGarry LaGarry, LaGarry, & Swinehart
Sand Canyon East/Chadron 3 SE	2000	91	LaGarry, Swinehart, & LaGarry
Beaver Wall	2001	92	LaGarry, Swinehart, & LaGarry
Whiteclay (digital version 1.1)	2001 2005	93 93D	LaGarry, Swinehart, & LaGarry LaGarry, LaGarry, & Swinehart
Whiteclay SW (digital version 1.1)	2001 2004	94 94D	LaGarry, Swinehart, & LaGarry LaGarry, LaGarry, & Swinehart
Whiteclay SE (digital version 1.1)	2001 2005	95 95D	LaGarry, Swinehart, & LaGarry LaGarry, LaGarry, & Swinehart
Hay Springs (digital version 1.1)	2001 2004	96 96D	LaGarry, Swinehart, & LaGarry LaGarry, LaGarry, & Swinehart
Hay Springs NE (digital version 1.1)	2001 2005	97 97D	LaGarry, Swinehart, & LaGarry LaGarry, LaGarry, & Swinehart

Continued on next page

Table 1 (continued).

Map Name¹	Date²	Map No.³	Authors
Hay Springs SW (digital version 1.1)	2001 2004	98 108D	LaGarry, Swinehart, & LaGarry LaGarry, LaGarry, & Swinehart Hay
Springs SE	2001	99	LaGarry, Swinehart, & LaGarry
Montrose (digital version 1.1)	2001 2001	108 108D	LaGarry & LaGarry LaGarry, LaGarry, & Swinehart
Orella (digital version 1.1)	2001 2001	109 109D	LaGarry & LaGarry LaGarry, LaGarry, & Swinehart
Wolf Butte (digital version 1.1)	2001 2001	110 110D	LaGarry & LaGarry LaGarry, LaGarry, & Swinehart
Roundtop (digital version 1.1)	2001 2001	111 111D	LaGarry, LaGarry, & Swinehart LaGarry, LaGarry, & Swinehart
Horn (digital version 1.1)	2001 2001	112 112D	LaGarry & LaGarry LaGarry, LaGarry, & Swinehart
Clinton NW	2002	113	LaGarry, Swinehart, & LaGarry
Clinton NE	2002	114	LaGarry, Swinehart, & LaGarry
Clinton SW	2002	115	LaGarry, Swinehart, & LaGarry
Clinton	2002	116	LaGarry, Swinehart, & LaGarry
Rushville SE	2002	117	LaGarry, Swinehart, & LaGarry
Rushville SW	2002	118	LaGarry, Swinehart, & LaGarry
Rushville NE	2002	119	LaGarry, Swinehart, & LaGarry
Rushville	2002	120	LaGarry, Swinehart, & LaGarry
Gordon NW	2003	121	LaGarry, Swinehart, & LaGarry
Hog Island	2003	122	LaGarry, Swinehart, & LaGarry
Gordon	2003	123	LaGarry, Swinehart, & LaGarry
Gordon SE	2003	124	LaGarry, Swinehart, & LaGarry
South of Gordon	2003	125	LaGarry, Swinehart, & LaGarry
Coburn Canyon	2003	126	LaGarry, Swinehart, & LaGarry
Bovee Valley West/Rushville 3 SW	2003	127	LaGarry, Swinehart, & LaGarry
Bovee Valley East/Rushville 3 SE	2003	128	LaGarry, Swinehart, & LaGarry
Whistle Creek NW	2004	129	LaGarry, Swinehart, & LaGarry
Whistle Creek NE	2004	130	LaGarry, Swinehart, & LaGarry
Marsland NW	2004	131	LaGarry, Swinehart, & LaGarry
Marsland	2004	132	LaGarry, Swinehart, & LaGarry
Box Butte Reservoir West	2004	133	LaGarry, Swinehart, & LaGarry
Box Butte Reservoir East	2004	134	LaGarry, Swinehart, & LaGarry
Box Butte NW	2005	137	LaGarry, Swinehart, & LaGarry
Box Butte NE	2005	138	LaGarry, Swinehart, & LaGarry
Skunk Lake NW	2005	139	LaGarry, Swinehart, & LaGarry
Skunk Lake NE	2005	140	LaGarry, Swinehart, & LaGarry
Smith Lake	2005	141	LaGarry, Swinehart, & LaGarry

Continued on next page

Table 1 (continued).

Map Name¹	Date²	Map No.³	Authors
Twin Lakes NE	2005	142	LaGarry, Swinehart, & LaGarry
Dolly Warden Lake	2005	143	LaGarry, Swinehart, & LaGarry
Billys Lake	2005	144	LaGarry, Swinehart, & LaGarry

Notes for Table 1:

- 1. Where two names are given, the former name is listed first, and the current name second**
- 2. Date indicates when map went on open file.**
- 3. Numbers were assigned by the Conservation & Survey Division, and “D” denotes a digital version**

Table 2. Open-file (OFM) maps from the O’Neill 1:250,000 Quadrangle available from the Nebraska Geological Survey (University of Nebraska-Lincoln Conservation & Survey Division, School of Natural Resources). All maps are Nebraska quadrangles except as noted.

Map Name	Date	Map No.	Authors
Meadville NW	in review	pending	LaGarry, LaGarry, & Diffendal
Meadville NE	in review	pending	LaGarry, Diffendal, & LaGarry
Springview NW	in review	pending	LaGarry, Diffendal, & LaGarry
Burton	in review	pending	LaGarry, Diffendal, & LaGarry
Mills	in review	pending	LaGarry, Diffendal, & LaGarry
Jamison	in review	pending	LaGarry, Diffendal, & LaGarry
Meadville	in review	pending	LaGarry, Diffendal, & LaGarry
Huddle Table	in review	pending	LaGarry, Diffendal, & LaGarry
Springview	in review	pending	LaGarry, Diffendal, & LaGarry
Springview SE	in review	pending	LaGarry, Diffendal, & LaGarry
Jamison SW	in review	pending	LaGarry, Diffendal, & LaGarry
Mariaville	in review	pending	LaGarry, Diffendal, & LaGarry
Ainsworth NW	in review	pending	LaGarry, Diffendal, & LaGarry
Dutch Creek	in review	pending	LaGarry, Diffendal, & LaGarry
Bassett NW	in review	pending	LaGarry, Diffendal, & LaGarry
Riverview	in review	pending	LaGarry, Diffendal, & LaGarry
Carns	in review	pending	LaGarry, Diffendal, & LaGarry
Newport NE	in review	pending	LaGarry, Diffendal, & LaGarry

ARCHIVED FIELD NOTES

Table 3. Field notes archived at the Conservation & Survey Division of the University of Nebraska-Lincoln. All compilations are color .jpg files on CDROM. Copies of these notes also reside with the author(s).

Author(s)	Date¹	Vol.²	Pages	Compiler (date)
LaGarry, H. E.	1985-1986	1	117 ³	R. W. Vasek (2003)
LaGarry, H. E.	1986-1987	2	117 ³	R. W. Vasek (2003)
LaGarry, H. E.	1987-1988	3	117 ³	R. W. Vasek (2003)
LaGarry, H. E.	1987-1988	3B	45 ³	R. W. Vasek (2003)
LaGarry, H. E.	1987-1988	4	117 ³	R. W. Vasek (2003)
LaGarry, H. E.	1988-1989	5	117 ³	R. W. Vasek (2003)
LaGarry, H. E.	1988-1989	6	117 ³	R. W. Vasek (2003)
LaGarry, H. E.	1989-1992	7	117 ³	R. W. Vasek (2003)
LaGarry, H. E.	1992-1993	8	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E.	1993-1994	9	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E.	1994-1995	10	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E.	1994-1995	11	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E.	1994-1995	12	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. Armantrout	1994-1995	12B	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1994-1995	13	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1995-1996	14	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1996-1997	15	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1996-1997	16	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1998-1999	17	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1998-1999	18	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1998-1999	18B	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1998-1999	19	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1998-1999	20	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1998-1999	21	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1999-2000	22	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1999-2000	23	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1999-2000	24	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1999-2000	25	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1999-2000	26	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	1999-2000	27	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2000-2001	28	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2000-2001	29	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2000-2001	30	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2000-2001	31	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2000-2001	32	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2000-2001	34	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2001-2002	38	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2001-2002	40	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2001-2002	42	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2001-2002	44	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2002-2003	45	167 ^{3,4}	R. W. Vasek (2003)
LaGarry, H. E. & L. A. LaGarry	2002-2003	46	167 ^{3,4}	R. W. Vasek (2003)

Notes for Table 3:

- 1. Includes notes archived for the Nebraska National Forest (1991-1995) and the U. S. Geological Survey STATEMAP Program (1996-2006).**
- 2. Volume numbers were assigned by the authors.**
- 3. Includes inserts (typically other peoples' published work used as reference material).**
- 4. Includes maps (original field maps and compilations of original maps at various scales).**