Karew K. Schumaker
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CURRICULUM VITAE

Education:

Texas Teaching Certification
Certification Area: Science 7-12
Alternative Certification, Region III Education Service Center

Current Student- Ph.D. in Geology
Expected Graduation Date of August 2015
University of North Dakota, Grand Forks, ND
Geography Minor, College Teaching Certificate
Current GPA 4.0

M.S. in Paleontology, December 2008
SD School of Mines & Technology, Rapid City, SD
GPA 4.0

B.A. in Geology, May 2004
Minot State University, Minot, ND
Environmental Geology and Biology Minors
GPA 3.96

Experiences/Skills:

Victoria Independent School District, Teacher *January 2014-Present*

High School Teacher – Classes taught include Biology, Pre-AP Biology, AP Biology, and Environmental Systems. Responsible for lesson planning, instruction, developing and grading of notes, classroom activities, laboratory activities, quizzes, tests and projects and all other administrative duties as assigned. Assisted with spring semester Biology EOC tutoring. Adviser for the Victoria West High School Environmental Club.

Victoria College, Victoria, TX *January 2014-Present*

Adjunct Instructor – Instructor for Environmental Geology online course. Responsible for constructing lectures, preparation of homework exercises and exams, grading homework exercises and exams. Assisting students with questions and homework via email and BlackBoard. Responsible for posting lectures, supplemental materials, and grades on Blackboard.

North Dakota Geological Survey, Core Library, Grand Forks, ND *Sept. 2011 to August 2013*

Core Library Technician – Duties include removing well cores from shelving, reboxing, relabeling, and organization of well core. Cataloging and database entry of drill cutting samples. Assist with updating the main core library database with core interval, formation, and library location information. Assist director with pulling and measuring core for visiting researchers. Provide visitors, prospective students, and class groups with a short tour of the core library.

AMEC Earth & Environmental, Grand Forks Air Force Base, ND *May 2011 to Sept. 2011*

Field Assistant - Duties include locating each water main and fire hydrant valve at Grand Forks Air Force Base, acquiring GPS position points for each valve, downloading of GPS data for ArcGIS, documentation of valve location, valve cover condition and photographing valve locations and maintain a photograph log. Responsible for completion of weekly reports, hand maps of valve locations, and valve map preparation for the contracted surveyor and assisting the surveyor with relocating valves. Worked with the Grand Forks Air Force Base water shop with valve operating tests and isolation of water main lines.

University of North Dakota, Grand Forks, ND *Aug. 2008 to Present*

Lecturer **–** Lecturer for half of Earth Through Time course (Geol 102) in Spring 2011 and Introduction to Geology (Geol 101) in Summer 2011. Responsible for giving lectures, preparation of homework exercises and exams, grading homework exercises and exams. Holding office hours and assisting students with questions and homework. Also responsible for posting lectures, supplemental materials, and grades on Blackboard.

Teaching Assistant - Teaching Assistant for Introduction to Geology lab in the Fall of 2010 and Spring of 2011. Teaching Assistant for Earth Through Time Lab in the Fall of 2010 and Spring of 2011. Responsible for lectures pertaining to the lab exercises, assisting students with lab exercises, and grading of lab exercises, quizzes, and final reports. Also responsible for updating and posting lab material on Moodle.

Research Assistant **–** Description and identification of mammalian fossils, organization of supplies and storage cabinets, curation of fossil specimens. Additional duties as assigned.

Student Assistant – Student Assistant for the Aerospace Flight Operations Administration. Responsible for document preparation, transcribing documents for personnel, duplicating copies, delivered and retrieved packages to and from airport and other campus buildings, managed the security database, logged and categorized work hours for student hours, graded exams for aviation instructors.

Graduate Student **–** Completed class projects involving sedimentological description and analysis of sediment samples, statistical analysis of data, paleoecological interpretations and reconstructions, GIS, and processing of satellite images.

Volunteer **–** Outreach coordinator for the Department of Geology and Geological Engineering (2009-2011). Responsible for scheduling activities, giving tours, and construction of new outreach activities for preschool, elementary, and middle school groups. Prepared and facilitated activities for the geology badge for Cub Scouts. Co-initiated a field camp preparation class for students attending geology field camps. Helped with the construction of a traveling exhibit of North Dakota fossils. Active member of Beta Zeta Chapter of Sigma Gamma Epsilon (2008-Present) and Treasurer for Beta Zeta Chapter (2009-2010).

South Dakota State Archaeological Research Center, Rapid City, SD *May 2006 to Aug. 2008*

Curation Assistant – Inventory, documentation and curation of documents, artifacts and photographic media submitted for processing, database entry of collections, rehydration of maps, waterscreening and picking of matrix. Helped design a historical artifacts exhibit for the Research Center Lobby and assisted with numerous educational outreach activities such as visiting local schools and youth centers.

GIS Assistant - Produce maps using GIS for archaeological surveys, completion of record searches for future archaeological survey, verifying and entering archaeological sites and surveys into GIS database, producing figures (maps) for archaeological reports.

South Dakota School of Mines and Technology, Rapid City, SD *Aug. 2004 to Dec. 2008*

Graduate Student **-** Class projects include designing of a museum display, curation of specimens in collections, researching various fossil groups, maceration of modern animal specimens, analysis of sedimentary deposits.

Teaching Assistant - Teaching Assistant for General Biology lab in the Fall of 2005, 2006, 2007 and Spring of 2007. Director and TA of General Biology Labs in Spring of 2008. Teaching Assistant for two Physiology labs in the Spring of 2006. Teaching Assistant for Stratigraphy and Sedimentation lab in the Fall of 2006 and 2007. Responsible for preparation of the labs, lecture about the lab exercises, assisting students with lab exercises, writing and grading of lab exercises and tests.

Research Assistant **-** Organized fossil specimens and sediment samples, compiled specimens lists, photocopied field notes, casting of specimens using epoxy, with some molding with both silicon and latex, limited preparation of fossil specimens.

Volunteer **-** Helped relocate fossil collections, cleaned and prepared fossil specimens from the Big Badlands National Park, participated in numerous "Museum Organization Days", assisted in creating displays for the Museum of Geology. Active member of the Paleo Club for four years and held positions as Paleo Club Newsletter Chair and Outreach Coordinator. Helped develop and maintain teaching kits, scheduled outreach activities, and lead many outreach activities for PreK-12 groups in the Rapid City area. Designed a geology merit badge packet for Boy Scouts and helped lead geology related activities for local Boy Scout Troops.

South Dakota Geological Survey, DENR, Rapid City, SD *Oct. 2004 to Aug.2005*

Geologic Studies Intern - Picking fossiliferous matrix, identification and study of fossil specimens, literature review. Assisting with drilling and description of drill cores, description, geologic mapping and drafting of stratigraphic columns.

Pioneer Trails Regional Museum, Bowman, ND *June 2004 to Aug. 2004*

Summer Paleontology Intern - In charge of Day Tour program, both scheduling and taking the attendees on the tour. Assisted with Weekend and Week-long Field Schools. Assisted visiting paleontologists with field work and museum study. Visited with guests in the museum about current paleontology projects and museum displays. Worked on current museum projects in the field, laboratory and museum collections.

Minot State University, Minot ND *Aug. 1999 to May 2004*

Workstudy - Assisted professors in the Geology Department and the administrative assistant in the Division of Science Office. Worked as Science Department temporary secretary in between permanent secretaries and helped with training of new secretaries. Assisted in lab preparation and maintenance of lab equipment/supplies. Grading of exams and labs. Preparation and picking of fossiliferous matrix.

Undergraduate Student - Geology class projects included preparation and analysis of sedimentary, igneous and metamorphic rock samples and associated research papers. Member of the undergraduate geology club for 5 years, served as secretary for 1 year, president for 2 years. Participated in numerous geology out-reach projects in the community. Biology class projects included ecological sampling, evolution research project on shrews, and statistical lab projects.

Undergraduate Research - Research included prospecting, picking, identifying and describing fossils, concentrating on Chadronian (Latest Eocene) Marsupials, Multituberculates and Insectivores. Using the fossil identifications for Biochronology, assessing existing age interpretations, and construction of cladograms. Experience in report writing, preparing posters and public presentations of research. Cataloging specimens and entering specimens in the computer.

Volunteer - Member of Biology Club for 5 years and participated in many biology educational outreach projects. Served as President and Secretary for AUGITE, the undergraduate geology club, and helped organize the Science Open House for regional elementary students, and helped designed activities for Science Olympiad. Facilitated community outreach activities for National Earth Science Week.

Student Ambassador - Gave tours to prospective students and their families. Planned and worked at Orientation for new students. Served as tour guide and assisted with many campus events. Worked at new student registration and helped new students register for classes.

AWARDS

2011-2012	Chester Fritz Graduate Student Scholarship – UND ($100)
2011	Alan M. Cvancara Award – UND ($500)
2011	Graduate School Doctoral Travel Grant – UND ($435)
2011	Outstanding Graduate Teaching Assistant Award - UND
2011	Sigma Gamma Epsilon F.D. Holland Jr. Service Award – UND
2010	Second Place, ND Academy of Science Roger A. Denison Graduate Award
2009	Sigma Gamma Epsilon F.D. Holland Jr. Service Award - UND
2009-2010	Chester Fritz Graduate Student Scholarship – UND ($1,000)
2008-2010	North Dakota EPSCoR Graduate Student Assistantship – UND ($34,000)
2008	Abbott Fund Award - SDSMT ($100)
2007-2008	Simmons-Tesky Fellowship - SDSMT ($5,250)
2007	J.P and Virginia Gries Memorial Fellowship - SDSMT ($700)
2007	Department of Geology and Geological Engineering Fellowship – SDSMT ($300)
2006	J.P. and Virginia Gries Memorial Fellowship - SDSMT ($1,000)
2005-2006	Griffith Fellowship - SDSMT ($2,000)
2003	National Explorers' Club Field Work Grant - MSU ($1,500)
2003	NASA Math and Science Scholarship – MSU ($750)
2002	NASA Math and Science Scholarship - MSU ($750)

PUBLICATIONS

- Boyd, CA, Matthew W. Weiler, Mindy L. Householder, and Karew K. Schumaker. *2014*. Reappraisal of specimens previously referred to *Chadronia* (Cimolesta, Pantolestidae) from the White River Group and description of a new cimolestid species. *Acta Paleontologica Polonica.*
- Weiler, Matthew W. and Karew K. Schumaker. *2012*. Lost and Found: The challenges, opportunies, and significance of a fossil Rhinoceras specimen found during a storage cleaning event [abstract]. Journal of Vertebrate Paleontology, Abstracts of Papers.
- Schumaker, Karew K., Allen J. Kihm, Matthew W. Weiler, and Joseph H. Hartman. 2011 Geology and Mammalian Paleontology of the Cvancara Locality (Paleocene) Tongue River Member, Fort Union Formation, Grant County, North Dakota [abstract]. Journal of Vertebrate Paleontology, Abstracts of Papers. 31(5):190.
- Weiler, Matthew W. and Karew K. Schumaker 2011. Development and Benefits of Student Organization Led Outreach Programs: Two case Studies from the University of North Dakota and South Dakota School of Mines & Technology [abstract]. Journal of Vertebrate Paleontology Abstracts of Papers. 31(5):212.
- Weiler, Matthew W. and Karew K. Schumaker. 2011. An occurrence of the fossil insectivore, *Ankylodon progressus* in the Brule Formation of southwestern North Dakota and implications regarding *Ankylodon* systematics [extended abstract]. Proceedings of the North Dakota Academy of Science.
- Weiler, Matthew W., Karew K. Schumaker, and Dean A Pearson. 2010. Marsupials and Insectivores from the Oligocene of Southwestern North Dakota from a Previously Undescribed Collection from the Pioneer Trails Regional Museum [abstract]. Journal of Vertebrate Paleontology Abstracts of Papers. 30(3):184-185A

- Hartman, Joseph H., Matthew W. Weiler, and Karew K. Schumaker. 2010. Benefits, Challenges, and Solutions of Collections at Small Programs and Institutions Using Experience from the University of North Dakota [abstract]. Journal of Vertebrate Paleontology Abstracts of Papers. 30(3):102A.
- Schumaker, Karew K., Matthew W. Weiler, and Megan E. Wheeler. 2010. Developing a Paleontology Outreach Curriculum for Preschool and Kindergarten Children at the University of North Dakota [poster]. Education and Outreach Symposium, Society of Vertebrate Paleontology Annual Conference.
- Schumaker, Karew K., Matthew W. Weiler, Rebecca J. Simmons. 2010. The Fossil Carnivores of the Turtle Butte Assemblage (Arikareean) Tripp County, South Dakota [abstract]. Proc. North Dakota Academy of Science, vol. 64:30.
- Hartman, Joseph H., Matthew W. Weiler, Karew K. Schumaker, and Emmett Evanoff. 2010. Correlating the South Dakota White River Group and its continental mollusks to North Dakota; a beginning up the slippery slope of utilizing historic faunas. GSA Abstracts with Programs. 42(3):13.
- Schumaker Karew K., Matthew W. Weiler, Eric G. Zimney, Robert C. L. Klenner, James J. Crowell, Benjamin J. Mooney, Donald P. McCollor, Ray D. Butler, and Joseph H. Hartman. 2009. Involving Students in Practical Field and Laboratory Studies in the Cretaceous Hell Creek Formation, Montana – from sample collection to poster construction [abstract]. GSA Abstracts with Programs, 41(7):315.
- Schumaker, Karew K. 2009. The paleontology and biostratigraphy of the Turtle Butte Formation, Tripp County, South Dakota [abstract]. Proc. North Dakota Academy of Science, vol. 63:64.
- Kihm Allen J., Karew K. Schumaker. 2008. *Domnina* (mammalia, soricomorpha) from the latest Eocene (Chadronian) Medicine Pole Hills local fauna of North Dakota. Paludicola, 7(1):26-36.
- Schumaker Karew K., Allen J. Kihm. 2006. Multituberculates from the Medicine Pole Hills local fauna (Chadronian) of Bowman County, North Dakota. Paludicola, vol. 6(1):9-21.
- Schumaker Karew K., Allen J. Kihm. 2005. *Ectypodus lovei* (Multituberculata) from the Medicine Pole Hills Local Fauna (Latest Eocene), Bowman Co., ND [abstract]. Journal of Vertebrate Paleontology Abstracts of Papers, vol. 25:(3):111A
- Pearson, Dean A., Georgia E. Knauss, Donald Wilkening, Kathy Wilkening, Antoine Bercovici and Karew K. Schumaker. 2004. Comparing Faunas and Floras from the latest Cretaceous and early Paleocene in southwestern North Dakota: a microscopic analysis of environmental and taxonomic composition [abstract]. Geological Society of America Abstracts with Programs, vol. 36(5):178.
- Kihm, Allen J., Karew K. Schumaker. 2004. The Chadronian Medicine Pole Hills Local Fauna, North Dakota.University of North Dakota, Geology Special Publication No. 45.
- Schumaker, Karew K. 2003. Soricids from the Medicine Pole Hills Local Fauna (Latest Eocene) of North Dakota [abstract]. Journal of Vertebrate Paleontology Abstracts of Papers, vol. 23(3):94-95A.
- Schumaker, Karew K., Allen J. Kihm. 2002. *Ectypodus lovei* from the Medicine Pole Hills Local Fauna (Chadron Formation: Late Eocene) North Dakota [abstract]. Proc. North Dakota Academy of Science, vol. 56:37.
- Kihm, Allen J., Karew K. Schumaker, Colleen Warner, and Dean A. Pearson. 2001. Marsupial from the Medicine Pole Hills Local Fauna (Latest Eocene) of North Dakota [abstract]. Journal of Vertebrate Paleontology Abstracts, vol. 21(3):67A.

- Warner-Evans Colleen, Karew K. Schumaker, Allen J. Kihm, and Dean A. Pearson. 2001 *Herpetotherium valens* from the Medicine Pole Hills Local Fauna (Chadron Formation: Late Eocene) Bowman, County, ND [abstract]. Proc. North Dakota Academy of Science, vol. 55:43.

REFERENCES

References available upon request