NOTICE OF THESIS DEFENSE

MS Candidate: Shannon Harrel
Program: Paleontology
Title: Taphonomic Effect of Fluvial Sediment Abrasion on Dental Microwear
When: Tuesday November 5th, 2019 2:00 PM
Where: Paleontology Research Laboratory – Room 153
Shannon Harrel’s research was conducted under the direction of Major Professor Dr. Darrin Pagnac.

NOTICE OF DISSERTATION DEFENSE

PhD Candidate: Kyle Hazelwood
Program: Geology and Geological Engineering
Title: Late Cenozoic history of the Black Hills of South Dakota and Wyoming: a study of landscape evolution via stream profile analysis
When: Wednesday November 13th, 2019 9:00 AM
Where: Surbeck Center – Bump Lounge
Kyle Hazelwood’s research was conducted under the direction of Major Professor Dr. Larry Stetler.

NOTICE OF DISSERTATION DEFENSE

PhD Candidate: Umit Yildiz
Program: Geology and Geological Engineering
Title: Characterization of Fault Architecture and Fault Seal Analysis at Cherokee Ridge, Greater Green River Basin, South-Central Wyoming
When: Tuesday November 19th, 2019 8:30 AM
Where: Classroom Building – Room 329
Umit Yildiz’s research was conducted under the direction of Major Professor Dr. J. Foster Sawyer (Emeritus Professor, Fall 2021).
NOTICE OF THESIS DEFENSE

MS Candidate: Caleb Ubl
Program: Geology and Geological Engineering
Title: Statistical Analysis of Interpolation Methods for Determining Aquifer Elevations Using ArcGIS
When: Friday November 22nd, 2019 12:00 P.M.
Where: McKeel Room – Surbeck Center
Caleb Ubl’s research was conducted under the direction of Major Professor Dr. Larry Stetler.

NOTICE OF THESIS DEFENSE

M.S. Candidate: Benjamin Zalneraitis
Program: Paleontology
When: Thursday, November 21, 2019 – 1:00 P.M.
Where: Surbeck Center – Bump Lounge
Benjamins Zalneraitis’s research was conducted under the direction of Major Professor Dr. Maribeth Price.

Spring 2020:

Notice of Thesis Defense

MS Candidate: Imren Yilmazgoz
Program: Geology and Geological Engineering
Title: Petrographic and Mineralogic Characterizations of Gold Mineralization with the Rochford Formation, Rochford District, Black Hills, South Dakota
When: Thursday April 2nd, 2020 9:00 AM
Where: Zoom video conference
Imren Yilmazgoz’s research was conducted under the direction of Major Professor Dr. Nuri Uzunlar.
Notice of Thesis Defense

M.S. Candidate: Todd Anderson
Program: Geology and Geological Engineering
Topic: Groundwater-flow Model and Simulation of Dewatering Scenarios of Alluvial Deposits, Northern Summerset, South Dakota
When: Friday April 17th, 2020- 3:00 P.M.
Where: Zoom video conference
Todd Anderson’s research was conducted under the direction of Major Professor Dr. Liangping Li.

Notice of Thesis Defense

MS Candidate: Taran W. Bradley
Program: Geology and Geological Engineering
Title: Pressure and Bulk Composition Effects on Near Infrared Spectra of White Micas in High P/T Metamorphic Terranes: A Case Study in Northwest Turkey
When: Thursday April 16th, 2020 1:00 P.M.
Where: Zoom video conference
Taran W. Bradley’s research was conducted under the direction of Major Professor Dr. Gokce Ustunisik.

Notice of Thesis Defense

MS Candidate: Kristen Lewis
Program: Geology and Geological Engineering
Title: Experimental Constraints on Homogenization of Plagioclase-Hosted Melt Inclusions from Plagioclase Ultraphyric Basalts
When: Tuesday April 14th, 2020 11:00 A.M.
Where: Zoom video conference
Kristen Lewis’s research was conducted under the direction of Major Professor Dr. Gokce Ustunisik.
Notice of Thesis Defense

MS Candidate: Ahmet Yilmazgoz
Program: Geology and Geological Engineering
Title: Structural Control on Gold Mineralization in Rochford Formation, Rochford District, Black Hills, South Dakota
When: Thursday April 16th, 2020
Where: Zoom video conference
Ahmet Yilmazgoz’s research was conducted under the guidance of Major Professor Dr. Nuri Uzunlar.

Notice of Thesis Defense

MS Candidate: Disha Gupta
Program: Geology and Geological Engineering
Title: Assessment of tight oil in the Pierre Shale of South Dakota
When: Thursday April 16th, 2020 - 3:00 PM
Where: Zoom video conference
Disha Gupta’s research was conducted under the direction of Major Professor Dr. Kurt Katzenstein.

Summer 2020:

Notice of Thesis Defense

MS Candidate: Jared Long-Fox
Program: Geology and Geological Engineering
Title: Integrating Interdisciplinary Data for Analyses of Volcano Deformation: Application to Okmok Volcano, Alaska
When: Monday July 6th, 2020 - 2:00 PM
Where: Zoom video conference
Jared’s research was conducted under the direction of Major Professor Dr. Timothy Masterlark.
Notice of Thesis Defense

MS Candidate: Michael Day
Program: Geology and Geological Engineering
Title: Near Infrared Spectroscopy of White Mica and Implications for Metamorphism in the Black Hills, South Dakota
When: Monday November 16th, 2020 - 2:00 PM
Where: Zoom video conference
Michaels’s research was conducted under the direction of Major Professor Dr. Edward Duke.

Spring 2021:

Notice of Dissertation Defense

PhD Candidate: Lilly Jones
Program: Geology and Geological Engineering
Title: Assessing Aquifer Vulnerability to Contamination on the Pine Ridge Indian Reservation in southwestern South Dakota
When: Thursday March 18th, 2021 - 8:00 AM
Where: Zoom video conference
Lilly’s research was conducted under the direction of Major Professor Dr J. Foster Sawyer (Emeritus Professor, Fall 2021).

Notice of Thesis Defense

MS Candidate: Grace DeVault
Program: Paleontology
Title: Using fossil bone geochemistry and age reports to reconstruct diagenesis at the Pig Dig Site, Badlands National Park, SD
When: Wednesday April 7th, 2021 1:00 PM
Where: Zoom video conference
Grace’s research was conducted under the guidance of Major Professor Dr. Sarah Keenan.
Notice of Thesis Defense
MS Candidate: Gavin Davidson
Program: Paleontology
Title: A Taxonomic Review and Chronologic Correlation of the Fossil Assemblage from the Mission Pit Locality (Clarendonian), South Dakota
When: Wednesday April 7\textsuperscript{th}, 2021 3:00 PM
Where: Zoom video conference
Gavin’s research was conducted under the guidance of Major Professor Dr. Darrin Pagnac.

Notice of Thesis Defense
MS Candidate: Jichao Bao
Program: Geology and Geological Engineering
Title: Leveraging Deep Learning for Flow and Transport Data Assimilation in Complex Aquifers
When: Thursday April 8\textsuperscript{th}, 2021 2:00 PM
Where: Zoom video conference
Jichao’s research was conducted under the guidance of Major Professor Dr. Liangping Li.

Notice of Dissertation Defense
PhD Candidate: Jennifer Bednar
Program: Geology and Geological Engineering
Title: Current Limitations, Variability, and Role of Topography in Stream Base Flow in the Northern Great Plains of the United States
When: Tuesday April 13\textsuperscript{th}, 2021 11:00 AM
Where: Zoom video conference
Jennifer’s research was conducted under the guidance of Major Professor Dr. J. Foster Sawyer (Emeritus Professor, Fall 2021).

Notice of Thesis Defense
MS Candidate: Wyatt Tatge
Program: Geology and Geological Engineering
Title: Water-quality analysis to evaluate effects of salinity on irrigation water in the Heart River Basin, North Dakota
When: Tuesday April 13\textsuperscript{th}, 2021 8:00 AM
Where: Zoom video conference
Wyatt’s research was conducted under the guidance of Major Professor Dr. Larry Stetler.
MS Candidate: Carson Reimers
Program: Geology and Geophysical Engineering
Title: Establishing methodology to generate three dimensional models of drilled core using close-range photogrammetry
When: Friday April 16th, 2021 12:30 PM
Where: Zoom video conference
Carson's research was conducted under the guidance of Major Professor Dr. Kurt Katzenstein.

Fall 2021:

MS Candidate: Mathew Weinberger
Program: Geology and Geological Engineering
Title: The Effect of Extensional Deformation on Gold Mineralization in the Fluorspar Canyon Region of Northern Bare Mountain, Nye County, Nevada, USA
When: Tuesday November 23rd, 2021 2:00 PM
Where: Zoom video conference
Mathew’s research was conducted under the guidance of Major Professor Dr. Trevor Waldien

Spring 2022:

MS Candidate: Colleen Sullivan
Program: Paleontology
Title: Fossil Dissolution Rates at Varying pH: A Pilot Study
When: Friday March 11th, 2022 9:00 AM
Where: Room 161 – Paleontology Research Lab and Zoom video conference
Colleen’s research was conducted under the guidance of Major Professor Dr. Sarah Keenan.
Notice of Thesis Defense

MS Candidate: Stephanie Loose
Program: Geology and Geological Engineering
Title: Fault Zone Characteristics and Epigenetic Gold Potential of the Holy Terror Gold Project, Keystone, South Dakota
When: Thursday March 24th, 2022 10:00 AM
Where: Room 321 – Mineral Industries Building
Stephanie’s research was conducted under the guidance of Major Professor Dr. Timothy Masterlark.

Notice of Thesis Defense

MS Candidate: Carolyn Kocken
Program: Paleontology
Title: Geographic and temporal variation in the morphology of diagnostic tooth characteristics in Mesohippus and Miohippus
When: Thursday March 31st, 2022 11:00 AM
Where: Room 328 – Mineral Industries Building and Zoom video conference
Colleen’s research was conducted under the guidance of Major Professor Dr. Darrin Pagnac.

Notice of Dissertation Defense

PhD Candidate: Brooke Long-Fox
Program: Geology and Geological Engineering
Title: Environmental and Phylogenetic Controls on Shell Morphology in the Chemosymbiotic Lucinidae (Bivalvia)
When: Wednesday April 6th, 2022 12:00 PM
Where: Zoom video conference
Brooke’s research was conducted under the guidance of Major Professor Dr. Laurie Anderson.
Notice of Thesis Defense

MS Candidate: John Hewitt
Program: Geology and Geological Engineering
Title: Petrogenesis of Plagioclase Ultraphyric Basalts (PUB) from the Northeastern (NE) Pacific Ridge System: Evidence from Mineral Textures and Geochemical Characteristics
When: Monday April 11th, 2022 1:00 PM
Where: Bump Lounge – Surbeck Center and Zoom video conference
John’s research was conducted under the guidance of Major Professor Dr. Gokce Ustunisik.

Notice of Dissertation Defense

PhD Candidate: Fleford Redoloza
Program: Geology and Geological Engineering
Title: The Use of Deep Learning for Hydrogeological Inverse Modeling in Channelized Aquifers
When: Tuesday April 12th, 2022 2:00 PM
Where: Dorr Room – Surbeck Center
Flefords’s research was conducted under the guidance of Major Professor Dr. Liangping Li.

Notice of Thesis Defense

MS Candidate: Erica Cung
Program: Geology and Geological Engineering
Title: Quantitative Analysis of Trace Element Partitioning Data for Clinopyroxene, Garnet, and Amphibole Using Statistical Methods
When: Tuesday April 12th, 2022 11:00 AM
Where: Dorr Room – Surbeck Center and Zoom video conference
Erica’s research was conducted under the guidance of Major Professor Dr. Gokce Ustunisik.

Notice of Thesis Defense

MS Candidate: Michael Cyrier
Program: Paleontology
Title: The Impact of Carbon Availability and Geochemical Variation on Habitability of Epigenic Cave Systems
When: Wednesday April 13th, 2022 12:00 PM
Where: Room 161 – Paleontology Research Laboratory and Zoom video conference
Michael’s research was conducted under the guidance of Major Professor Dr. Sarah Keenan.
Fall 2022:

Notice of Thesis Defense

MS Candidate: Rudolph R. Hummel
Program: Paleontology
Title: Modeling North American Miocene Habitat Turnover with Multivariate Ungulate Ecometrics
When: Thursday, November 17, 2022, at 2:00 pm
Where: Classroom Building, Room 107
Hummel’s research was conducted under the guidance of Major Professor Dr. Darrin Pagnac

Notice of Thesis Defense

MS Candidate: Jessica O’Neall
Program: Paleontology
Title: Comparing the Accuracy and Precision of pXRF and ICP-MS in Determining Fossil Bone Geochemistry between Different Depositional Environments
When: Thursday, November 10, 2022 at 9:00 am
Where: Paleontology Research Laboratory, Room 161
O’Neall’s research was conducted under the guidance of Major Professor Dr. Sarah Keenan.

Spring 2023:

Notice of Thesis Defense

MS Candidate: Andrew Rich
Program: Paleontology
Title: Lithological Influences on Mosasaur Fossil Taphonomy within the Pierre Shale Formation of South Dakota
When: Thursday, March 23, 2023 at 12:00 PM
Where: SC Bump Lounge, Surbeck Center
Rich’s research was conducted under the guidance of Major Professor Dr. Sarah Keenan
Notice of Thesis Defense
MS Candidate: Peter Daly
Program: Paleontology
Title: Paleocommunity Structure in Cretaceous Methane Seeps: Comparing Epeiric Sea Communities to those bordering the Global Ocean
When: Monday, March 27, 2023, at 1:00 PM
Where: Paleontology Research Laboratory, Room 161
Daly’s research was conducted under the guidance of Major Professor Dr. Laurie Anderson

Notice of Thesis Defense
MS Candidate: Anthony Gordon
Program: Paleontology
Title: Assessment of Jacket Tensile & Flexural Strength for Some Common Plaster Jacketing Fabrics
When: Monday, March 27, 2023, at 8:00 AM
Where: Paleontology Research Laboratory, Room 161
Gordon’s research was conducted under the guidance of Major Professor Dr. Darrin Pagnac

Notice of Thesis Defense
MS Candidate: Kelsey L. Mills
Program: Paleontology
Title: Estimating the Occurrence/Prevalence of Fossil Poaching in Fossil-Rich Geologic Units of the Northern Mid-Western States, USA
When: Monday, April 3, 2023, at 9:00 AM
Where: Paleontology Research Laboratory, Room 161
Mills’s research was conducted under the guidance of Major Professor Dr. Darrin Pagnac
Notice of Thesis Defense

MS Candidate: William Whittenberg
Program: Paleontology
Title: The Use of Medical-CT to Analyze Ammonoid Shell Thickness as a Potential Response to Predation
When: Wednesday, April 5, 2023, at 3:00 PM
Where: Mineral Industries Building, Room 328
Whittenberg’s research was conducted under the guidance of Major Professor Dr. Sarah Keenan

Fall 2023:

Notice of Thesis Defense

MS Candidate: Spencer Larsen
Program: Geology and Geological Engineering
Title: Ambient Noise Tomography Analysis at the Cascadia Subduction Zone
When: Monday, November 13, 2023, at 11:00 AM
Where: Mineral Industries Building, Room 330
Larsen’s research was conducted under the guidance of Major Professor Dr. Kevin Ward

Notice of Thesis Defense

MS Candidate: Edward Anokye
Program: Geology and Geological Engineering
Title: Evaluating Surface Deformation Caused by Coalbed Methane Production in the San Juan Basin Using Interferometric Synthetic Aperture Radar
When: Friday, November 17, 2023, at 2:00 PM
Where: Mineral Industries Building, Room 328
Anokye’s research was conducted under the guidance of Major Professor Dr. Kurt Katzenstein