

Department of Geology and Geological Engineering

Recent theses/dissertations: Fall 2019 – Spring 2021

Fall 2019:

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

M.S. Candidate: Caleb Ubl
Program: Geology and <u>Geological Engineering</u>
Topic: Statistical Analysis of Interpolation Methods for Determining Aquifer Elevations Using ArcGIS
When: Friday November 22, 2019 12:00 PM
Where: Surbeck Center- McKeel Room
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

Topic: Determining Risk of Fossil Loss Using Close-Range Photogrammetry in the Sharon Springs Formation of the Pierre Shale Group

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.



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.



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.



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.



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 7th, 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 8th, 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 13th, 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 13th, 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 Geological Engineering

Title: Establishing methodology to generate three dimensional models of drilled core using closerange 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.