

### Graduate Students and Theses, 2003-Present

Graduate Student	Program	Advisor	Year Graduated	Title
Melanie Johnson	MS - Geol	Beaver	Summer 2003	Development of a regional curve to relate discharge and drainage area to hydraulic geometry for the Red River of the North Basin
Salah Sharif	MS - Geol	Gerla	Summer 2003	Effect of geochemical processes and environment on the spatial pattern of selenium in soil, surface water, and groundwater at the Hovland Ranch, central South Dakota
Paul Skubinna	MS - Geol	Korom	Fall 2004	Modeling the hydrogeochemistry of denitrification in the Elk Valley Aquifer
Aaron Ulishney	MS - Geol	Lefever	Fall 2004	Discontinuities in the Icebox Formation (Ordovician), Williston Basin, North Dakota and Montana
Corey Askin	MS - Geol	Gerla	Spring 2005	Hydrology of springs, seeps, and fens at The Nature Conservancy's Pigeon Point Preserve, Ransom County, North Dakota
Chris Laveau	MS - Geol	Gerla	Spring 2005	Assessing recharge and discharge across the prairie pothole landscape -- application of spatial hydrological data and statistical analysis in a groundwater flow model
Marron Bingle	MS - Geol	Hartman	Spring 2005	Reevaluation of species concepts of uppermost Cretaceous Unionidae (Mollusca: Bivalvia), Hell Creek Formation, Montana, U.S.A.
Adam Ulishney	MS - Geol	LeFever	Spring 2005	Regional stratigraphy of the Newcastle Formation (Lower Cretaceous) in eastern Montana and western North Dakota
Andrew Nygren	MS - Geol Eng	Ghassemi	Summer 2005	Geomechanics applied to reservoir development in the Coso geothermal field
Qingfeng Tao	MS - Geol Eng	Ghassemi	Summer 2006	Wellbore Stability in Water-Sensitive Shales
Mike Davis	MS - Geol	Gerla	Fall 2006	Evaluating Surface Area-Basin Volume Relationships for Prairie Potholes
Tedros Tesfay	PhD Geol	Korom	Fall 2006	Modeling Groundwater Denitrification by Ferrous Iron Using PHREEQC
Tanya Justham	MS - Geol	Hartman	Spring 2007	Geochemical Analysis of Ironstone Preserved Molluscan Fossils of the Hell Creek Formation (Cretaceous) and Ludlow Member of the Fort Union Formation (Paleogene) of Southwestern North Dakota
Michael Blackstone	MS - Geol	LeFever	Spring 2007	Methane Potential of Upper Fort Union Sandstones, Campbell County, Wyoming
Abigail Franklund	MS - Geol	Gerla	Fall 2007	Developing a Rapid Method for Assessing the Physical Stability of Streams in Minnesota's Agassiz Beach Ridges
Shannon Heinle	MS - Geol	Gosnold	Fall 2007	Resolving Terrain Effects in Borehole Temperature Profiles
Matthew Burton-Kelly	MS - Geol	Hartman	Fall 2008	Using Elliptical Fourier Analysis to Compare Size of Morphospace Occupation Between Modern Edentulous Freshwater Unionoid Mussels and the Fossils at L6516 (Slope County, North Dakota, U.S.A.), With Remarks on Preservation
Ryan Salinas Klapperich	MS - Geol	Korom	Fall 2008	Electron Donor Potential of Eastern North Dakota Shale Formations
Bijesh Maharjan	MS - Env Eng	Korom	Fall 2008	Correlation of electron donor concentrations in sediments with sediment properties, New Providence, Iowa
Ryan Whittaker	MS - Geol	Gerla	Fall 2009	Predicting the effect of wetland restoration on phosphorus retention, Northwest Minnesota
Alyssa Boock	MS - Geol	Zeng	Fall 2009	Carbon Dioxide Flooding Induced Geochemical Changes in a Saline Carbonate Aquifer
Richard Suggs	MS - Geol	Gerla	Spring 2011	Using Temperature Profiles to Investigate the Hyporheic Zone in an Agricultural Drainage Ditch
Anna Crowell	MS - Geol	Gosnold	Fall 2011	Identifying Potential Geothermal Resources from Co-produced Fluids using Existing Data from Drilling Logs: Williston Basin, North Dakota

James Crowell	MS - Geol	Hartman	Fall 2011	Using temporal and paleogeographic mapping to identify underrepresented regions and time intervals to aid in selecting locations to search for new molluscan species
Nnaemeka Cletus Anyanwu	MS - Geol	LeFever	Fall 2011	Stratigraphy and Petroleum Potential of the Spearfish Formation, North-Central North Dakota
Vladimir Zivkovic	PhD Geol	Gosnold	Spring 2012	A geophysical investigation of the northeastern rim of the St. Martin impact structure, Manitoba, Canada
Robert Klenner	MS - Geol	Gosnold	Summer 2012	Terrestrial Heat Flow and an Assessment of Enhanced Geothermal System Resources in Minnesota
Marron Bingle - Davis	PhD Geol	Hartman	Summer 2012	Systematics, Diversity, and Origins of Upper Cretaceous Continental Molluscan Fauna in the Infra- and Intertrappean Strata of the Deccan Plateau, Central India
Katie Kimber	MS - Geol	LeFever	Fall 2012	Diagenesis of the Middle Member of the Bakken Formation, Williston Basin, North Dakota
Chase Christenson	MS - Geol	Korom	Spring 2013	Characterization of Electron Donor Contents of Aquifer Sediments using Facies-Based Approach; Oakes Test Area, Dickey County, North Dakota
Jun He	MS - Geol	Ling	Summer 2013	Research about Low Permeability Measurement
Nic Buer	MS - Geol	Gerla	Fall 2013	Comparison of Nutrient Concentrations in a Disturbed and Natural Wetland in Northern Minnesota
Godswill Njoku	MS - Geol	Gosnold	Fall 2013	Correction Heat Flow Data in the United States to Account for Climate Change
Mark McDonald	PhD Geol	Gosnold	Fall 2013	Geophysical Investigation and Assessment of the Rye Patch Known Geothermal Resource Area, Rye Patch, Nevada
Matthew Burton-Kelly	PhD Geol	Hartman	Fall 2013	Examining the continuity of the long-lived (Triassic-Recent) freshwater mussel genus <i>Diplodon</i> (family Hyriidae)
Troy Skitt	MS - Geol	LeFever	Fall 2013	Lithologic and Sequence Stratigraphic Examination of the Madison Group Marker Beds Along the Eastern Williston Basin Margin, North Dakota
Eric Zimny	MS - Geol	Gosnold	Spring 2014	Geoneutrino Production of the Northern Black Hills, South Dakota, United States of America
Amanda Krieger	MS - Env Eng	Korom	Spring 2014	Electron Donor Contributions to Denitrification in the Elk Valley Aquifer, North Dakota
Nicholas Bosshart	MS - Geol	LeFever	Spring 2014	Characterization, Diagenesis, and Geocellular Modeling of Winnipegosis Formation Pinnacle Reefs in Williston Basin, North Dakota
Richard Ashu	PhD Geol	LeFever	Spring 2014	Stratigraphy, Depositional Environments and Petroleum Potential of the Three Forks Formation – Williston Basin, North Dakota
Russell Carr	MS - Geol Eng	Yarbrough	Spring 2014	X-Ray Fluorescence Analysis of the Bakken and Three Forks Formation of the Williston Basin, North Dakota, and Well-Logging Applications
Zachary Alcorn	MS- Geol	LeFever	Summer 2014	Lithostratigraphic Investigation of the Duperow Formation, Williston Basin North Dakota
Aaron Ochsner	MS- Geol	Gosnold	Summer 2014	Patterns and Mechanisms of Heat Transport in the Northern Denver Basin: Nebraska, South Dakota and Wyoming
Matthew Sebade	MS- Geol	LeFever	Summer 2014	The Depositional Environment of the Spearfish Formation in north central North Dakota and its Implications of Unconventional Hydrocarbon Production
Jin Zhang	MS- Geol	Wang	Summer 2014	Mechanism Study of Using Surfactant to Oil Recovery form Bakken Shale
Theodore Bibby	PHD-Geo	Putkonen	Fall 2014	Exposure Age Dating and Million Year Erosion Rates in the Southern Transantarctic Mountains
Prosper Gbolo	PHD-Geol	Gerla	Fall 2014	The Cycling, Fate, and Quantification of Nutrients at an Abandoned Feedlot
Brian Murphy	MS-Geol	LeFever	Fall 2014	Elemental Chemostratigraphy of the Three Forks Formation, Williston Basin, North Dakota

Benjamin Engleman	MS-Geol	LeFever	Spring 2015	Porosity and Permeability Controls on Production in the Birdbear Formation, Williston Basin
Risa Madoff	PhD- Geol	Putkonen	Spring 2015	Climate Driven Hillslope Degradation of Mono Basin Moraine, Eastern Sierra Nevada, California, USA
Faye Ricker	MS-Geol	Gosnold	Spring 2015	Geothermal Regime of the Williston Basin in North Dakota
Caitlin Hartig	MS-Geol	Gosnold	Spring 2015	Interplay of Porous Media and Fracture Stimulation in Sedimentary Enhanced Geothermal Systems: Red River Formation, Williston Basin, North Dakota
Mitchell Sigler	MS-Geol	LeFever	Summer 2015	Reservoir Analysis of the Birdbear Formation in Northwestern North Dakota
Bailey Bubach	MS-Geol	LeFever	Summer 2015	Geologic and Petrophysical Characterization of the Three Forks Formation: Charlson Field, North Dakota
Laura Gelles	MS-Env. Engin.	Korom	Summer 2015	Using Geochemical Modeling to Estimate Electron Donor Contributions for Denitrification in the Oruanui Ignimbrite near Lake Taupo, NZ
Anna Crowell	PHD-Geol	Gosnold	Summer 2015	Evaluating Sedimentary Basins for Geothermal Power Production Potential and Bottom-Hole Temperature Corrections
James Crowell	PHD-Geol	Gosnold	Summer 2015	Improving Thermal Conductivity Measurements and Estimates for Detailed Modeling Projects
Anthony Sarnoski	MS-Geol	LeFever	Fall 2015	Stratigraphy and Depositional History of the Deadwood Formation
Kyle Shurtliff	MS-Geol	LeFever	Fall 2015	Diagenesis of the Duperow Formation in Western North Dakota in Regards to Hydrocarbon Production
Sunny Ekwenta	MS-Geol	LeFever	Spring 2016	Depositional and Diagenetic Control on the Reservoir Quality of the Billings and Golden Valley Counties, Devonian BirdBear Formation, Williston Basin, North Dakota
Emma Lord	MS-Geol	Putkonen	Spring 2016	Glacial Fluctuations and Sediment Transport in Moraine Canyon, Antarctica based on Cosmogenic <sup>26</sup> Al, <sup>10</sup> Be, and <sup>21</sup> Ne Measurements
Francis Nwachukwu	MS-Geol	LeFever	Spring 2016	Deposition, Diagenesis and Porosity of the Birdbear Formation (Upper Devonian), Within the McKenzie County, Williston Basin North Dakota
Benjamin Oster	MS-Geol	Ostadhassan	Spring 2016	Reservoir Characterization and Modeling: Winnipegosis Formation, Temple Field, Williston Basin, North Dakota
Kilynn Sandberg	MS-Geol	LeFever	Spring 2016	Depositional Environment of the Three Forks Formation
Mathew Illies	MS-Geol	Hartman	Spring 2017	
Benjamin York	MS-Geol	Gerla	Spring 2017	Effect of Glacial Isostatic Adjustment on Rivers and Drainage Basins in the Red River Valley, North Dakota and Minnesota, U.S.A.
Kyle Peterson	MS-Geol	Nordeng	Summer 2017	Pore-size Distributions from Nuclear Magnetic Resonance and Corresponding Hydrocarbon Saturation in the Devonian Three Forks Formation, Williston Basin, North Dakota