

2021 Spring Research Symposium
Gustavus Adolphus College, April 30th, 2021

Session A: Oral Presentations, Nobel Hall, Wallenberg Auditorium https://hellogustavus.zoom.us/j/85690594014?	
2:30 pm	Fungal Species and Fluconazole Resistance Katya McDonald Advisor: Laura Burrack, Biology
2:45 pm (virtual)	Implications of Dispersion in Connecting Capillaries for Separation Systems Involving Post-Column Flow Splitting Caden Gunnarson , Thomas Lauer, Harrison Willenbring, Eli Larson, Monika Dittmann, Ken Broeckhoven, and Dwight Stoll Advisor: Dwight Stoll, Chemistry
3:00 pm	Effect of two Arbuscular Mycorrhizal Fungi Isolates (<i>Rhizophagus irregularis</i> Ri09 and <i>R. irregularis</i> DAOM) on Water Relations of Drought-Stressed Leeks (<i>Allium porrum</i> L.) Brooke Bernhardt Advisor: Pamela Kittelson, Biology
3:15 pm	Initial Steps in the Synthesis of a Tri-Porous Covalent Organic Framework Building Block Maria Sylvester, Kaitlyn Perez, and Ashley Ley Advisor: Ian Hill, Chemistry
3:30 pm 30- minutes	Differential Plasticity and Sex-Specific Resource Allocation in Response to Nitrogen Availability in a Dioecious Forb, <i>Silene latifolia</i> Tessa Dethlefs Advisor: Amy Kochsiek
4:00 pm 30- minutes	An Assessment of the Effects of Prescribed Sheep Grazing on Reclaimed Minnesotan Prairie Pollinator Habitat Jeremy Gilbertson Advisor: Pamela Kittelson, Biology

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Session B: Oral Presentations, Nobel Hall 1412 https://hellogustavus.zoom.us/j/82556114540?	
2:30 pm	Nitrate Reduction by Iron Oxidizing Bacteria in the Minnesota River Area Luke Dragseth Advisor: Jeff Jeremiason, Chemistry and Environmental Studies
2:45 pm	Ecology and Climate Sensitivity of Ancient Polar Forest Ecosystems, Antarctica Morgan Mellum, Aidan Dahlseid, and Erik Gulbranson Advisor: Erik Gulbranson, Geology
3:00 pm	Mercury Analysis and Method Development Haley Jostes Advisor: Jeff Jeremiason, Chemistry and Environmental Studies
3:15 pm (virtual)	RNA Degradation via Nonsense Mediated Decay Nick Aney Advisor: Jeffrey Dahlseid, Biochemistry and Molecular Biology
3:30 pm	Kinematic Vorticity and Thermobarometry Conditions of the Wildhorse Detachment in the Pioneer Mountains Metamorphic Core Complex Isabella Johnson, Hannah Schroeder Advisor: Rory McFadden, Geology
3:45 pm	Ligand Synthesis and Cobalt Complex for Dehalogenation of Organic Compounds Korrina Hysten Advisor: Melissa Denler, Chemistry