

Department of Biology, Kalamazoo College
39th Annual Diebold Symposium
April 27-29, 2023

Thursday, April 27, 2023

4:10-5:30 PM, Dewing 103

Keynote Address by Dr. Celeste Karch, K'05

Associate Professor of Psychiatry, Washington University School of Medicine in St. Louis

“Unlocking the causes of neurodegenerative disease”

Reception to follow

Friday, April 28

4:30 – 7:00 PM Student Poster Sessions, Hornet Suite at the Field House

4:30-5:40 PM	Poster Session 1, Hornet Suite at the Field House
Natalie Call	Exploring the Moose-Wolf Population Dynamics of Isle Royale National Park, MI
Jennefer Hernandez	A Proposal Discussing Ubiquitination in Cancer Regulation
Maya Nathwani	Maintaining Community and Identity as a Ugandan Post Expulsion
Arein Motan	Exploring the Physician Assistant Profession at Bronson Methodist Hospital
Charles DiMagno	A Contemporary Piano and Jazz Concert
Will Keller	Evaluating habitat preferences of three declining grassland sparrow species
Elizabeth Silber	Urban Or Rural: Does It Matter To Bumble Bees? An Analysis In Kalamazoo, MI
My-Anh Phan	Examining the Neuroprotective Effects of 7-Hydroxy-2-(2-phenylethyl)chromone in Glutamate Excitotoxicity Model of <i>C. elegans</i>
Ian Hurley	A reflection on my experience shadowing a dermatology surgeon and a literature review comparing Ester and Amide local anesthetics
Anthony Bruley	Working at ACE Flagstaff and Witnessing Human Impact on the SW American Desert
Camille Schuster	The Science of Beekeeping and Disease Mitigation
Hanna Tuchenhausen	The Montessori School: My Experience as a Teaching Assistant
Sam Boritzki	Attention-Deficit/Hyperactivity and Autism Spectrum Disorder: Focusing on ADHD with ASD Symptoms
5:40-5:50 PM	BREAK
5:50-7:00 PM	Poster Session 2, Hornet Suite at the Field House
Johanna Ghazal	Exploring a Career in Dental at Drake Dental
Danielle Bennett	Exploring Pharmaceutical Practice and Health Systems in Jamaica: A Personal Experience
Alex Stolberg	Effect of Temperature Variation on Endurance Swimming Capacity of Juvenile White Sturgeon
Katia Duoibes	A Failed System: Barriers to Health and Healthcare for People Experiencing Houselessness
Olive Smith	Building the Blocks of Kalamazoo through Asset Based Community Development
Ginamarie Lester	Organic Farming at Unadilla Community Farm with a Look at Entomopathogenic Nematodes
Jonathan Jiang	Effects of Cytokines on the Epithelial to Mesenchymal Transition in Renal Cell Carcinoma
Eli Edlefson	The Pollinator Habitat Rehabilitation Project at the Lillian Anderson Arboretum
Nathaniel Zona	A Single Center Experience of Surveillance Biopsies in Pediatric Kidney Transplants
Isabel Morillo	A Summer at AACORN: The Roles of Psychology and Nature in Health
Maeve Novotny	Farming with Nature and Climate Change Mitigation through Regenerative Agriculture Practices
Maya Richardson	An Exploration into the Dental Field

Saturday, April 29, 2023

9:50 AM – 2:40 PM Student Oral Presentation, Dow 226 and 232

9:50 AM	Opening remarks	
10:00, Dow 226	Alexis Nesbitt	Delayed Development of the Neuromuscular Junction in Mice Offspring Born Under Maternal High Fat Diet
10:00, Dow 232	Nicholas Matuszak	A Study of Oral and Maxillofacial Surgery and Recovery
10:15, Dow 226	McKenna Hepler	Medical Scribing in the Emergency Department
10:15, Dow 232	Zoe Reyes	On Healing: Understanding People-Plant Relationships through Eco-poetry and Anishinaabe Botanical Teachings
10:30, Dow 226	Ryan Johnson	The effects of nutrients and land decimation on plant-herbivore interactions and food web dynamics
10:30, Dow 232	Hashim Akhtar	Prevalence of Heart Failure in Type 2 Diabetic Patients
10:45, Dow 226	Rose Hannan	The Role of Doula Care in Reducing the Maternal Morbidity and Mortality Gap
10:45, Dow 232	Maddie Zang	Targeted Gene Therapy: A Molecular Breakthrough in the Treatment of Lung Cancers
11:00, Dow 226	Eleanor Carr	Differential epigenetic visualization analyses in mouse brains using the WashU Epigenome Browser
11:00, Dow 232	Hana Frisch	Small Scale Urban Agriculture with a Global Perspective
11:15-11:30 AM	BREAK	
11:30, Dow 226	Ben Keith	Working at the Arb: Impacts of Biological Volunteer Work and Invasive Plants on Native Communities
11:30, Dow 232	Gabrielle Evans	COVID-19: Policies, the Pandemic, and Effects on South Korea and the United States: A Study Abroad Autoethnography
11:45, Dow 226	Sydney Giddings	A Modern Review at Hildegard Von Bingen's Book of Reptiles
11:45, Dow 232	Kate Haywood	An Unpredicted Journey through an Internship at Arches National Park
12:00, Dow 226	Troy Bormann	Wilderness Therapy at SUWS of the Carolinas
12:00, Dow 232	Onora Lancaster	Analyzing Student Misconceptions via the Microbiology Concept Inventory at NDSU
12:15, Dow 226	Daniel Flores	Fluctuating Temperatures Increase Biopesticide Effectiveness in Two Lepidopteran Feeding Assays
12:15, Dow 232	Celine Lignell	Envisioning a Decolonial Education for Our Kids: An Exploration into the Summer Camp Experience
12:30, Dow 226	Cassandra Linnertz	Examination of Whether There is a Presence of Foot Gesture During Communication
12:30, Dow 232	Jez Abella	Investigating Impacts of Forest Management on Microclimate in Northern Michigan Forests
12:45-1:30 PM	LUNCH	

1:30-2:40 PM	Poster Session, Dow 3rd floor	
Mary Phillips	Utilizing Combined Point Arrays in Hepatitis B Virus Drug-Bound State Investigative Research	
Richard O'Donnell	A Southwest Conservation Experience and the Status of California Condor Conservation	
Rohan Nuthalapati	Orthodontist Shadowing Experience	
Xochitl Robertson	Plant Uptake Of Heavy Metal Pollution At Riverview Eastside And Potential For Phytoremediation	
Thea Seid	Bird Banding: A Fundamental Model to Ecology	
Alexis Valdes	Shadowing Physical Therapy and Effects of Blood Flow Restriction Training on the Reconstruction of the Anterior Cruciate Ligament (ACL)	
Marcus Rucker	Comparison of VIIRS Active Fire Data and Sentinel-2 Data for Mapping Agricultural Burning in Kenya	
Katherine Rock	New Invaders to Hardwood Forests: Discovering Jumping Worms (<i>Amyntas</i>) at the Lillian Anderson Arboretum	
Joergen Klakulak	Testing the effectiveness of floor cover and insecticide treatment program for spotted-wing drosophila, <i>Drosophila suzukii</i>	
Megan Killmaster	Exploration of Strategies to Improve Data Collection in Electronic Health Records	
Daniel Jordan	Health Literacy: Outcomes of Inadequate Health Education in Latin America	
William Fulton	Mice lacking specific proteins of the DGC exhibit dystrophic characteristics in skeletal muscle	