

26TH ANNUAL

Academic Symposium

Wednesday, April 9, 2025

8:30 a.m.	
LOCATION: Science Building, Room 106 HOST: Doug Schirch	
Samuel Klopfenstein	<i>Synthesis of Hydromorphone's Enantiomer</i>
Jonathan Nunez Soto	<i>Brexiprazole, an Atypical Antipsychotic Medication</i>
9:00 a.m.	
LOCATION: Church-Chapel, Room 110 HOST: Jonathon Schramm	
Mia Yoder	<i>Blanding's Turtles: An Indiana Endangered Species and Their Preferred Habitat</i>
Maija Short & Saroj Kauffman	<i>The Impact of Fire and Herbivory on the Density of <i>R. praetextatus</i> and <i>R. pulchellus</i> Ticks in Laikipia, Kenya</i>
Zoe Longacre	<i>Comparing Nudibranch and Macroalgae Abundance and Diversity Across Different Water Depths</i>
LOCATION: Church-Chapel, Room 112 HOST: Rob Brenneman	
Julia Hitt Krysttal Ortega Ray Tait Meiling Yordy	<i>Quantifying Community Connection: A Study of First Fridays in Goshen</i>
LOCATION: Church-Chapel, Room 300 HOST: Kortney Stern	
Meredith Blossom Kate Bodiker Lindsey Graber Kaliah Lefever Emily Strzelecki	<i>Diverse Voices On and Off the Page</i>
LOCATION: Newcomer Center, Room 17 HOST: Sara Method	
Joseph Mounsithiraj Elise Jantz Damjan Mojsin Isaac Sawatzky	<i>Art & Graphic Design Senior Thesis Projects</i>

LOCATION: Newcomer Center, Room 19 HOST: Jewel Lehman	
Kyra Austen Ellie Fausnaugh Joshua Rubio	<i>Cold Water Immersion vs. Active Stretching on HRV</i>
Vicky Naylor & Shea VanScoter	<i>Hypermobility, Injury Susceptibility, and Functional Movement Screening</i>
Jordan Garlinger Anthony Roberts Ethan Saylor	<i>Lactate Levels and Clearance in Male Collegiate Track Runners</i>
LOCATION: RFC, Room 104 HOST: Andy Ammons	
Mikey Anderson	<i>Nutrient Availability and Water Quality in Great Lakes Coastal Wetlands</i>
Isaac Bontrager	<i>Effects of Grazing and Burning on Soil Organic Matter in Two Restored Tallgrass Prairies</i>
Elijah Stoltzfus	<i>Distributed Drug Discovery: Preparation of N-acylated Dipeptide Amides</i>
LOCATION: Science Building, Room 106 HOST: Doug Schirch	
Estefania Soto	<i>Molnupiravir, an Anti-Viral Medication for Covid-19 Infections</i>
Ariana Montiel	<i>Synthesis of a Cyclic Pyranopterin Monophosphate for Restoring Normal Function of Molybdenum Enzymes</i>
Andrew Kauffman	<i>A Disclosing Agent for Dental Resin Composites</i>

10:00 a.m.

LOCATION: Church-Chapel, Fellowship Hall

Poster session

Karmen Campos	<i>Goshen Boys & Girls Club</i>
Lydia Esh	<i>Cora Dale House</i>
Madeleine Kelly-Kellogg	<i>Healthy Babies Prenatal Care Coordination</i>
Maggie Lapp	<i>Ryan's Place</i>
Miranda Pfahler	<i>Middlebury Boys & Girls Club</i>
Ashley Teifke	<i>Elkhart Police Department, Community Support Services</i>
Henry Meyer	<i>Pinhole Cameras</i>
Briana Gerig	<i>What is a Psychopath?</i>
Ashley Christison	<i>Hoarding Disorder</i>
Peri Mast-Hochstedler	<i>Electroconvulsive Therapy</i>
Mackenzie Mast	<i>The Importance of Sleep</i>
Ellie Nickel	<i>Past Trauma: Connection to Criminality?</i>
Audra Trumbull	<i>Developmental Effects on Children Post Trauma</i>

Ashwaq Aldhuraibi	<i>Folie a Deux</i>
Bailee Brown	<i>Myalgic Encephalomyelitis</i>
Montserrat Dominguez	<i>The Role of Nutrition on Mental Health</i>
Blanka Bodo	<i>Body Integrity Dysmorphia</i>
Iker Fernandez Andes Arbulu	<i>Video Game Addiction: More Than Just a Hobby</i>
Meiling Yordy	<i>Complete Streets & Health Outcomes: Small Differences, Big Changes</i>

LOCATION: Church-Chapel, Fellowship Hall

Demonstration session

Julia Hitt	<i>Slip Casting Ceramics</i>
Max Estep & Brandon Wright Barron	<i>Tesla Coil and its Physics</i>
Shoaib Ansari	<i>The Use of AI</i>
Marlon Aparicio	<i>Marlopoly</i>
Karitas Arnardottir	<i>Inclusive Technology</i>
Stephen Bandi	<i>Finder</i>
Rhys Bruhn	<i>Why Cybersecurity is Important to You</i>
Eric Claudio	<i>AI Chips, Facial Recognition, and Privacy</i>
Jacob Stoltzfus	<i>Realistic Snowboarding Virtual Reality</i>

LOCATION: Church-Chapel, Room 300

Demonstration session

Hadel Alammari Ashgaan Al-Bahal Jonathan Nunez Soto	<i>Exploring the Physics of Rainbows: A Demonstration</i>
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LOCATION: RFC, Room 104 | HOST: Andy Ammons

Destiny Salvador	<i>Effect of Sediment Particle Size on Macroalgae Abundance and Species Richness</i>
Laci Munger	<i>Influence of Tides on Sea Turtle Foraging in Zane Grey Creek, Long Key</i>
Emily Hershberger	<i>Plant Succession and Asteraceae Diversity in Restored Tallgrass Prairies</i>

LOCATION: Science Building, Room 106 | HOST: Doug Schirch

Faith McDonald	<i>A Novel Dipyridamole Derivative for Vasodilation</i>
Julia Miller	<i>Asciminib: a Drug for Chronic Myeloid Leukemia</i>
Yondhen Tuladar	<i>A Dual Drug Conjugate to Kill Gram-Negative Bacteria With a Gram-Positive Antibiotic</i>
Sydney Lockhart	<i>Synthesis of Drug-Coated Dental Floss</i>

11:00 a.m. | Convocation

LOCATION: Church-Chapel, Sanctuary | HOST: Suzanne Ehst

Dr. Rebecca Hernandez

Research as Action for Change

11:45 a.m. | Lunch

12:30 p.m.

LOCATION: Church-Chapel, Room 110 | HOST: Michelle Blank

**Karyme Chavez De Luna
Cameron Fedenis
Kayla Gibson
Detroit Walker
Sydney Winger**

Reflect, Adapt, Succeed: Impact of Metacognition on Student Learning

LOCATION: Church-Chapel, Room 112 | HOST: Rob Brenneman

**Julia Hitt
Virginia Jimenez
Naomi Lapp-Klassen
Carlos Lichty
Arleth Martinez
Josh Murphy
Peace Muhagachi**

Out in the Trenches: Senior CJRI/SOC Interns Speak

LOCATION: Church-Chapel, Room 300 | HOST: Amanda Borden

Kamille Badibanga

Mental/Physical Health and Academic Performance Correlations to E-cigarette Use Among GC Students

Cameron Comadoll

Telehealth Transformation Amidst Global Health Emergency

Gibby Gibson

Mental Health and the Misuse of Alcohol Among GC Students

LOCATION: Newcomer Center, Room 17 | HOST: Anna Groff

**Isabel Massud Faria
De Souza**

Do Career Aspirations Influence Movie Preferences in College Students?

Alyssa McDonald

Reality Dating Media's Impact on Romantic Beliefs

**Johanna
Morford-Oberst**

What Influences Health Beliefs Around Reproductive Life Plans for GC Students?

Igor Sapucaia

Do Pregame Rituals Affect Student-Athletes' Performances?

LOCATION: Newcomer Center, Room 19 | HOST: Julie Reese

Amy Drew

Sleep, Athletic Performance, and Perceived Athletic Performance Among Student Athletes

Teresa Richer	<i>GPA in Collegiate Student Athletes Compared to Non-Student Athletes When Observing Physical Activity</i>
Grace Schmitt	<i>The Impact of Sleep on Academic Performance in College Students</i>
LOCATION: RFC, Room 104 HOST: Raquel Montanez Gonzalez	
Areli Guzman	<i>Annotation of insulin-like peptide 1 in Drosophila willistoni</i>
Parker Sullivan	<i>Gene Annotation and Comparative Genomics for Drosophila serrata</i>
Estefania Soto	<i>Computational comparison of the ILP1 gene in D. rhopala and D. melanogaster</i>
LOCATION: Church-Chapel, Sanctuary HOST: Amy Budd	
Auditioning for Your Career	
Kaitlyn Baker Eddie Baldwin Cheyenne Flanagan Maille Goodwill Teo Kingsley Joseph Mounsithiraj Ella Trudel Fatima Zahara	<i>Shakespeare monologues</i>
Dontaye Albert	<i>Mark Rothko from Red by John Logan</i>
Dontaye Albert	<i>Hamlet from Hamlet by William Shakespeare</i>
Jocsan Barahona Rosales	<i>Mace from The Elaborate Entrance of Chad Diety by Kristoffer Diaz</i>
Jocson Barahona Rosales & Meredith Blossom	<i>"The Other Shoe" from Almost, Maine by John Cariani</i>

1:30 p.m.

LOCATION: Church-Chapel, Room 110 | HOST: Kathy Meyer Reimer

Anthony Beatriz Emma Campbell Liz Lewis Alia Najera Ashley Penzenik Sophia Yordy	<i>Working with Beginning Readers</i>
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LOCATION: Church-Chapel, Room 112 HOST: Kendra Yoder	
Peace Muhagachi	<i>The Role of Drag in the Destabilization of Gender</i>
Arleth Martinez	<i>Decolonizing Allyship: Building Relationships with the Apache Stronghold</i>
Naomi Klassen	<i>From Brick and Mortar to Concrete and Steel: Delocalization of Indiana's Elkhart County Jail, 1869–2007</i>
LOCATION: Church-Chapel, Room 300 HOST: Amanda Borden	
Isabella Ruiz	<i>A Secondary Analysis on Measles, MMR and the Anti-Vaxx Movement in the United States</i>
Joanna Zelaya Aguilar	<i>A Comparison of Food Insecurity in Indiana from 2021 to 2022</i>
LOCATION: Newcomer Center, Room 14 HOST: Jonathon Schramm	
Hickory Scholars	
Luisa Dutchersmith	<i>Integrating Nature-Based Play into Elementary School Curricula and Schoolyards</i>
Jill Yoder	<i>Diverse Strategies for Gathering Bird Community Data at a Non-Profit Nature Center</i>
Maija Short & Aaron Yeakey	<i>Soil Changes in a Disturbed Grassland Environment</i>
LOCATION: Newcomer Center, Room 17 HOST: Jessica Baldanzi	
Pinchpenny Press and Broadsides Readings	
Brenton Pham	<i>The Empty Nestors</i>
Bennett Silveus	<i>God Save Mr. Wallace</i>
Oscar Murguia	<i>El Burro—Part 1: West</i>
Emma Gingerich	<i>Selected Poems</i>
Emily Strzelecki	<i>Selected Poems</i>
LOCATION: Newcomer Center, Room 19 HOST: Julie Reese	
Maria A Petit Arias	<i>Differences in Attitudes Toward Family Obligations Among Americans and Venezuelans</i>
Stephany Claudio	<i>Screentime and Loneliness</i>
LOCATION: RFC, Room 104 HOST: Deana Baker	
Ana Yoder	<i>The Effects of Fire and Grazing on Microbial Communities in Midwestern Tallgrass Prairies</i>
Orlando Aguirre-Mulato	<i>Using Nitrogen-Acylated Dipeptide Amides to Create Analogs of Pre-existing Drugs</i>
Ashgaan Al-Bahal	<i>Heart Rate Variability Across Gender in Response to Jumpscare</i>

LOCATION: Church-Chapel, Sanctuary HOST: Roz Woll; Luke Norell, piano	
Julia Koch , violin	"Tzigane" by Maurice Ravel
Victor Vegas , tenor	"Gretchen am Spinnrade" by Franz Schubert
Victor Vegas , tenor	"Fuor del Mar" from Idomeneo by W.A Mozart
Aysia Adkins & Fatima Zahara , vocalists	Cabaret

2:30 p.m.

LOCATION: Church-Chapel, Room 110 | HOST: Steve Thalheimer

Kyra Austen Maddie Bollinger Emme Boots Hannah Clark Lexie Coburn Luisa Dutchersmith Kaylee Kates Sarah Miller Anita Tavares	<i>Action Research in Education</i>
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LOCATION: Church-Chapel, Room 112 | HOST: Rob Brenneman

Honors Program

Leyna Borgman	<i>The People's Temple and the Term Cult</i>
Levi Moser	<i>Transcendentalism in the United States</i>
Josiah Miller	<i>Goshen College's Power Struggle in 1923</i>
Anton Alstrom-Brookhyser	<i>Transforming Community Through Mennonite Hymnody</i>
Shalom Teferi	<i>The Need for an Integration of Traditional and Modern Medicine</i>

LOCATION: Church-Chapel, Room 300 | HOST: Amanda Borden

Johanna Morford-Oberst	<i>GC Perspectives on Reproductive Healthcare</i>
Meiling Yordy	<i>Optimizing Public Transit in Elkhart, IN: A Case Study</i>

LOCATION: Newcomer Center, Room 14 | HOST: Andy Ammons

Maple Scholars

Fernando Daza	<i>Mentoring for Faculty Belonging: Successful Strategies and New Directions</i>
Peace Muhagachi	<i>Student Success: A Whole-Systems Approach</i>
Emily Stryzelecki	<i>Eli Hochstedler: A New Perspective on Pax Bolivia</i>

LOCATION: Newcomer Center, Room 17 HOST: Paul Meyer Reimer	
Elise Jantz	<i>Stories and Communicating about Science</i>
Kevin Liddell	<i>Elements of Morality among Animals</i>
Evan King	<i>Risky Behavior and Party Culture</i>
LOCATION: Newcomer Center, Room 19 HOST: Roy Jackson	
Angelica Garcia-Ponce	<i>Popular Minority Religion Rocked by Scandal: The History of La Luz del Mundo in Mexico, 1926-2019</i>
Ashgaan Al-Bahal	<i>The Rise of Algae Town: Harnessing Nature for a Sustainable Future</i>
Charlie Aldrich	<i>Making a Magazine</i>
LOCATION: RFC, Room 104 HOST: Raquel Montanez Gonzalez	
Hadel Alammari	<i>Assessing the Antimicrobial Efficacy of Apis mellifera Propolis on Streptococcus mutans</i>
Trent Sillett	<i>Determining forearm force output imbalance in Goshen College baseball and softball players</i>
Seja Lang	<i>Using Comparative Genomics to Combat Metabolic Syndromes: Annotation of the ip13 gene</i>

3:30 p.m.

LOCATION: Church-Chapel, Sanctuary | HOST: President Stoltzfus

Graduating Leader Award ceremony

