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## 2023 Scholars Symposium Event Schedule

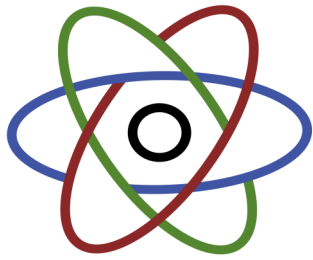
Cedarville University

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# Scholars Symposium

2023 Schedule of Events  
Posters  
Wednesday, April 19  
3:00pm - 5:00pm

## Business Administration

**Are You the Alpha of Your Technology Pack? Some Antecedents and Consequences of Digital Dominion**  
Phoebe Tsai

## Engineering and Computer Science

### **ACCIDENT with CodeQL**

Benjamin Smid, Nathan Johnson, Christopher Bellanti, Caleb Collins

### **Assassins App**

Corrissa Smith, Hannah Oaisa, Dilean Munoz, Henry Anderson

### **Automatic Audio Transcription**

Spencer Wyman, Phillip Keating, Stephen Chow, Audrey Martin, Danielle Fredette

### **CAN System and Car Hacking**

Jacob Pennell, Nate Kinser, David-Bryne Adedeji

### **Cedarville CS/CY VM Project**

Samuel Copeland, Zachary Young, Elijah Henderson

### **Design and Fabrication of Quasi-Zero Stiffness Mount Prototypes**

Paul Gusmano, Jonathan Viaud-Murat, Luke Fredette

### **Exploiting the Vulnerabilities of a Cellular Network Router**

Gabriel Hingst, Todd Landis, Nishant Nedungadi, Brandon Reiheld

### **MathAcrostatic**

David Stirn, Zachary Brubaker, Matthew Wright

### **Measurement Method for Dynamic Flow Characteristics of Hydraulic Bushing Features**

Michael Kennedy, Kenneth DeGarmo, Luke Fredette

### **Tapping into the Automotive Nervous System**

Yuqing He, Erin Eppich, Joel Ramireddy, Stephen Impraim

### **TASK Glove**

Zachary Trybus, Macy Schieber, Bailey Weiss, Max Ross

## History & Government

### **The Impact of Intergroup Contact on Evangelical Attitudes Toward Catholicism**

Thomas Avery, Christian Dupuy, Jared Jernas,

## Kinesiology and Allied Health

### **Effects of KT Tape on Wrist Extensor Muscle Strength**

Ashley McNamara, Emma Taylor, Hope Struthers

## Pharmacy

### **Evaluation of the Practicality, Safety, and Effectiveness of Intravenous Piggyback Versus Intravenous Push Lacosamide at an Academic Medical Center**

McKenzie Grinalds, David Peters, Katriona Peterson, Zach Byrum, Huanyun Duan, Morgan Falconer

### **Lophira Alata Suppresses Glioblastoma Cell Growth Via Inhibition of Protein Kinase C- $\alpha$**

Huanyun Duan, Ifeoma Ezenyi, Martins Emeje, Samuel Okhale, Stacy Lin, Denise Jean-Louis, Samson Amos

## Psychology

### **Coping With Homesickness: A Qualitative Study of International Students**

Felisha Younkin, Elizabeth Maher, Susannah Sowell

### **A Desire to Protect: A Qualitative Study of Students Entering the Field of Law Enforcement**

Felisha Younkin, Ashley Price, Hannah Kinion, Esther Ramireddy, Patrick Oliver

### **Integration of the Social Determinants of Health in the Pharmacy Curriculum and its Impact on Practice**

Katelyn Case

### **A Qualitative Study of Community and Addiction Recovery**

Felisha Younkin, Rebecca Riley, Hannah-Grace Huxley, Nicole Nugent, Kyla Stiegelmeier

### **A Qualitative Study of Undergraduate Student's Prayer Lives**

Felisha Younkin, Marcus Hernandez, Owen Dougherty, Andrew Harris

### **A Qualitative Study on Student Grieving After a Professor's Unexpected Death**

Katelyn Case

### **Who Tells a Better Story? Children's Storytelling in A Peer-To-Peer Setting**

Alison Bachowski, Chao Liu, Adam Vaflor, Josh Wong, Caroline Wacome, McKenzie Henry

## Science and Mathematics

### **Analyzing Occupancy and Habitat Use of Wildlife in a Heavily Agricultural Area**

Carson Gehman, Mark Gathany

### **Assessing Midge Larval Distribution in the Western Allegheny Plateau Ecoregion, Ohio**

Michael Mendel, Gavin Couture, Chandler Emerson, Abigail Gosselink, Stephen Lehmann, David Pride

### **Can Tetrahymena Thermophila Be Used to Model Oncohistone Function?**

Heather Kuruvilla, Arianna Bland, Miki Fath, Caleb Faul, Abigail Hall, Samuel Johnson, Sarah Kinder, Katarina Mills, Abigail Misselbeck, Chukwuemerie Ojukwu, Nathan Spottswood, Emily Wachter, Ethan Wang, Samantha Wolff

### **Can We Estimate Soil Respiration From the Sky?**

Mark Gathany, Kassi Eskeldson, Jonah Lynch, Molly Moses, Elizabeth Tan, Carl Weaver

### **Comparing Drone and Ground-based forest Canopy Measurements**

Mark Gathany, Kassi Eskeldson, Jonah Lynch, Molly Moses, Elizabeth Tan, Carl Weaver

### **Crash-Testing Cladistics**

Jonathan Maxwell

## Science and Mathematics

### **Differences in Germination Time of Soybean (*Glycine max* (L.) Merr.) Cultivar**

Robert Paris, Gage Paris, Grace Paolo, Andrew Harshbarger, Adin Pendell, Catherine Harbach

### **Dinosaur Fossil Preparation and Identification**

Sarah Stone

### **Discerning Interaction Levels of Mutated Protocadherin-19 with Neuronal Cadherin**

Allegra Fife, Abigail Hall, Abby Jones, Abby Naas, Emily Wachter, Sharon Cooper

### **Distribution of Adena-Hopewell Mounds and Earthworks in the Ohio River Valley**

Gretchen Nichols

### **Early Season Ohio Midge (Diptera: Chironomidae) Species**

Michael Mendel, Catherine Harbach, Grace Leiford, Sara McElroy, Landon Smith, Carson Gehmann

### **Effects of Wildfires on Endangered Habitats Across the State of Florida**

Stephen Lehmann, Meredith Smith, Ben Aiken

### **Establishing Soil Organic Matter Benchmarks in Active Agricultural, Restored Prairie, and Conservation Reserve Programs (CRP) soils**

Mark Gathany, Benjamin Aiken, Katie Boyd, Jake DeVol, Evan Lyon, Alexandria Rohrs, Sarah Stone, Elizabeth Sultan, Tristan Williams, Sawyer Williams

### **Geologic Analysis of Ice Age Model Results**

Elizabeth Sultan

### **Geospatial Analysis of Cedarville University Wells and Water Table**

Emma Henze

### **H3K27 is Involved in Mitotic Regulation in *Tetrahymena thermophila***

Abigail Bautista, Heather Kuruvilla

### **How Often Do Radioisotope Ages Agree? A Statistical Study of 29,000 Radioisotope Ages in the USGS National Geochronological Database**

Micah Beachy, Benjamin Kinard

### **Is Sinkhole Formation Structurally Controlled?: A Lineament Study with the use of ArcGIS of the Epley Property and the Sinking Spring 7.5 Minute Quadrangle, Ohio**

Daniel Burton

### **Karst Mapping and Periglacial Influences in Highland County, OH**

Andrew Swift

### **K-feldspar Sand Grain Rounding in Aeolian and Subaqueous Transportation**

Elizabeth Sultan, Emma Henze

### **Past, Present, and Future Research into Domestication Syndrome in Animals: Evaluating the Trajectory of Domestication Syndrome Research**

Daniel Ormsbee

### **A Potential Biocorrelation of the Morisson, Lourinha, and Tendaguru Formations**

Jonathan Maxwell

### **Selecting for Reduced Germination Time in Soybean (*Glycine max* (L.) Merr.)**

Robert Paris, Alexandria Rohrs, Luke Gustafson, David Armistead, Olivia Estep, Zachary Roberts, Benjamin Vincent

### **Differences in Germination Time of Soybean (*Glycine max* (L.) Merr.) Cultivar**

Robert Paris, Gage Paris, Grace Paolo, Andrew Harshbarger, Adin Pendell, Catherine Harbach

## Science and Mathematics

### **Soil CO2 Efflux Varies in Response to Soil Series and Prairie Restoration**

Mark Gathany, Benjamin Aiken, Katie Boyd, Jake DeVol, Evan Lyon, Alexandria Rohrs, Sarah Stone, Elizabeth Sultan, Tristan Williams, Sawyer Williams

### **Tetrahymena Thermophila as an Indicator Species for Climate Change**

Haleigh Eckert, Tara Keller, Katarina Mills, Isaac Seabra, Taylor Strickland, Heather Kuruvilla

### **Using GIS to Predict Wildfire Risk in California National Forests**

Andrew Swift

### **Wetland Easement GIS Mapping Analysis**

Nathanael Harkrider

## Social Work

### **Attention Deficit Hyperactivity Disorder and Substance Use Disorder**

Stephanie Courtsouridis, Elisa Owens

### **Do Single Mothers Increase Their Independence Due to Educational Support Groups?**

Olivia Burkett, Sarah Talmage

### **Education for Students with Autism**

Elayna Cantrell, Heidi Hecker

### **The Experiences of Couples with Domestic Violence Pre and Post Covid-19**

Mark Gallimore

### **The Impact of Fatherlessness on Child Welfare**

Samantha Wisor, Abigail Adams

### **Language Barriers in Health Care**

McKenna Kaneversky, Abigail Gentile

### **Recidivism in Youth: The Impact of Parental Incarceration**

Haley Caudill, Mackenzie Williams

### **Refugees and Mental Health**

Rachel Nesmith, Jordan Parsons

### **Relationship Between Lack of Education and Burnout in Working with Human Trafficking**

Hannah Abel, Hannah Amundson

### **Teaching Youths About Consensual Sex**

Carrie Below, Elizabeth Nevarez

## English, Literature, & Modern Languages

### **Attitudes of American Secondary Students Towards Foreign Languages: A Study at a High School in Western Pennsylvania**

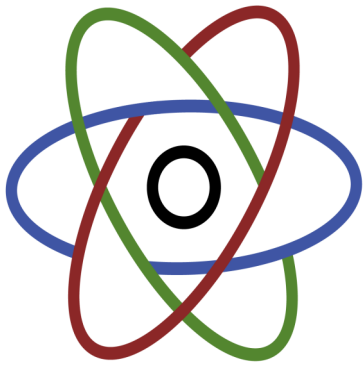
Lynnell Fry

### **Everyman Costume Design**

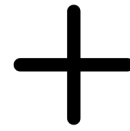
Rachel Knierim

### **Language as a Bridge to the Soul: The Role of the Multilingual Amazigh Woman and Tarifit Berber in Preserving Amazigh Ethnic Identity in the Rif**

Madeline Spaulding



**Scholars  
Symposium**



**Arts &  
Humanities  
Initiative**

**DMC 101**

**1:00 PM**

**The Kingdom of This World is Become the Kingdom of Our Lord: Revealing the Theology Preached in Handel's Messiah**

Lily Reese

**The Role of Music in the Sixteenth-Century Lutheran Church**

Megan Gorog

**Not Marx, but Augustine: Reimagining the Epistemological Foundations of a Discipline**

Andrew Harris

**2:00 PM**

**Romantic Music's Influence from Poetry, As Seen in the Romantic Era's Genres, Composers, and Ideals**

Caden Lantz

**Violin Intonation: The Connection Between the Violin's Tuning System and Performance**

Marion Johnson

**"Truth sublime": A Reappraisal of Beattie's Theory of Language**

Merideth Pitts

**3:00 PM**

**Making Music in the House of God: How Augustine Influenced Jean Calvin and Martin Luther's Opinions on Musical Worship**

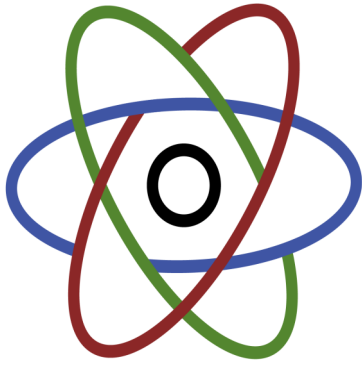
Emma Ross

**Psalms and Saints in the Offices: From Prayerful Praise to Commemorating Cults**

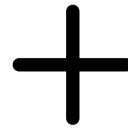
Paul Scanlon

**Venetian Ospedali: A Dichotomy Between the Sacred and the Secular**

Abigail Kenyon



**Scholars  
Symposium**



**Arts &  
Humanities  
Initiative**

**DMC 102**

**1:00 PM**

**Mozart's Opera--The Magic Flute**

Abigail Motter

**Opera-tional: The Evolution of the Metropolitan Opera Through Its Leadership**

Olivia Mauterer

**AI Art: a Digital Revolution**

Caleb Booth

**2:00 PM**

**The Beginnings of the Opera Craze**

Karena Schick

**The Perfect Fourth: An Intervallic Chameleon?**

Timothy Barnes

**Sing to Him a New Song: Early Christians in the Midst of Myths of Competing Culture**

Sandra Yang

**3:00 PM**

**From Natural to Valved Horn: How Did It Affect Composers' Musical Choices?**

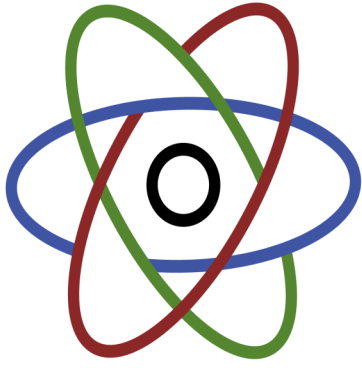
Kauri Fields

**Homework Muffin**

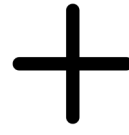
Joshua Walden

**The Development of the Clarinet: A Historical Analysis**

Corinne Turner



**Scholars  
Symposium**



**Arts &  
Humanities  
Initiative**

**DMC 103**

**1:00 PM**

**Exploring Felix Stalten's *Bambi* Narrative: Biblical Tenets and Lois Tyson in Dialogue**

Haley Kollstedt, Meghan Wells, Hannah Albright

**"Plundering the Egyptians": Worship and Idolatry in the Literary Arts**

Alicia McCartney

**2:00 PM**

**Preserving Innocence**

Hannah Smith

**Sending Waves: A Look into How Female Musicians of the Late Renaissance and Early Baroque Period Influenced Music, Composition, and Performance**

Elise Taylor

**Cultural Belonging and Divine Encounters: An Adoption Story Told through the Arts and Humanities**

Holly Blakely

**3:00 PM**

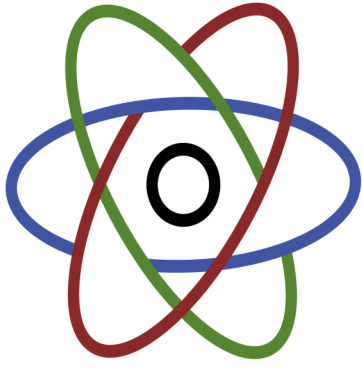
**HEX: A Case Study in Combinatorial Game Theory**

Caleb Lees

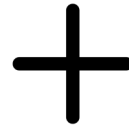
**Our Hauntings and How They Sculpt Us**

Maxwell Bubnis





**Scholars  
Symposium**



**Arts &  
Humanities  
Initiative**

**DMC 105**

**1:00 PM**

**The Jesus Movement's Effect on Christian Music**

Thomas Bell

**A Visual Articulation of a Pilgrimage**

Emily Herbst

**Emergent Narratives in Hyrule: A Narrative Analysis of The Legend of Zelda**

**Breath of the Wild**

Alex Boesch

**2:00 PM**

**Fence & Seed**

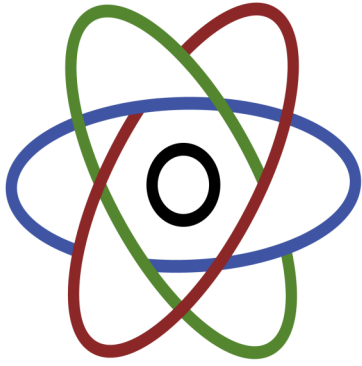
Ian Joel

**Foundations of Music Education: You Can Thank the Greeks**

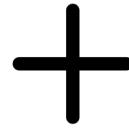
Abigail Karn

**Role and Work of Women in Church Music: Early Church to Reformation**

Ashley Armstrong



**Scholars  
Symposium**



**Arts &  
Humanities  
Initiative**

## Recital Hall

**1:00 PM**

**African American Spirituals of the Civil Rights Movement**

Grace Guthrie

**Defining the American Sound: Literary Influences in Aaron Copland Works**

Lillian Fox

**Exoticism in Debussy's Estampes**

Abigail Lilite

**Robert and Clara Schumann: The Power of Musical Communication and Connection**

Esther Dixon, Lillian Fox, Jason De Mets

**2:00 PM**

**Arts in Action: The Final Dress Rehearsal**

Beth Porter

**4:00 PM**

**To Teach and Delight: Christian Discipleship Through the Arts and Humanities**

Panel Discussion: Sandra Yang, Kevin Sims, Kirsten Setzkorn, Andrew Harris, Merideth Pitts, Holly Blakely, Alicia McCartney, Stacey Stratton, Caleb Booth, Catelyn Mailloux

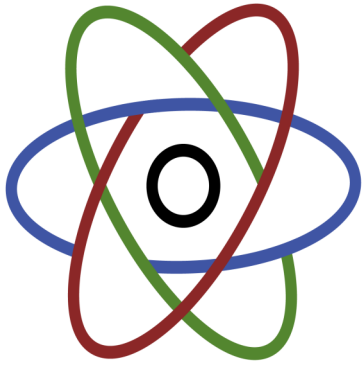
**7:00 PM**

**Women's Choir Spring Concert**

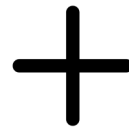
## The DeVries Theatre

**2:00 PM and 8:00 PM**

**Play: *Much Ado About Nothing***



**Scholars  
Symposium**



**Arts &  
Humanities  
Initiative**

**Art Exhibits**

**Passing Time** - Samuel Fish

**Change of Seasons** - Olivia Fish

**Everyman Costume Design** - Rachel Knierim

**From Dust to Dust** - Madelaine Smith

**Gift of Grace** - Sydney Mason

**Havilah** - Nina Friess

**Internalized Emotions** - Sophia Tonti

**Lately Laminar** - Joshua Jones

**Makeup Bag (to conceal)** - Olivia Stipe

**Romans 12:2** - Andrea Drews

**The Dream** - Angela Delano

**The Human Bind** - Natalie Tracey

**The Room** - Lynsey Stratton

**Untitled (Perforation)** - Daniel Rothermel

**Weary Traveler** - Abigail Harmon