Each spring for the last 33 years, the College has paused classes to celebrate achievement of our students in scholarship, research and the arts.

Welcome to the 2023 Steinmetz Symposium.

The Union community values collaboration between and among students and faculty. The presentations, exhibits and performances you’ll see today reflect the intellectual and creative curiosity of our students. Today’s events also reflect the boundless dedication of our faculty and staff.

On Steinmetz day, it is exciting to see the energy of our students, the joy they find in developing and presenting their work and the support they show for one another. Today will be a meaningful experience that stays with our students. We hear often from alumni that participating in Steinmetz was a significant and transformational milestone.

Please join me in thanking the organizing committee for the 2023 Steinmetz Symposium. In particular, I want to acknowledge Heather Watson, associate professor of physics and astronomy and director of undergraduate research; and Ruth Cotter, assistant to the dean of studies.

Finally, I hope you can join us for Prize Day in Memorial Chapel on Saturday, May 13, at 1 p.m., when we will recognize our students for scholarly excellence and leadership.

The Maker Web

On Steinmetz Day, the Maker Web will be hosting an exhibition in the Imagine Lab (Wold Center 118) to display some of the tools, technologies and techniques that students use to create work, develop research projects and engage coursework at Union College. Come to learn about various digital fabrication processes including 3D printing, 3D scanning, laser cutting, CNC milling and machining and see how students are using these tools to develop their research and academic projects. The Imagine Lab will be open and staffed from noon to 2 p.m. and all are welcome to stop by to see the exciting tools Union students use to refine their work and expand their education.

—COLE BELMONT, DIRECTOR OF THE MAKERSPACE

To see the online program for the 2023 Steinmetz Symposium, visit: https://steinmetz.union.edu/program
## SCHEDULE OF EVENTS

**Friday, May 12**

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<th>Time</th>
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| 9:00 a.m. – 5:00 p.m. | **Steinmetz Symposium**  
Presentations on student creative, scholarly and research achievement.  
Programs and information are available throughout campus.  
Student presentations begin at 9:00 a.m. |  |
| 9:00 a.m. – 4:00 p.m. | **The 2023 Annual Steinmetz Student Visual Arts Exhibition**  
The exhibit is open March 27-May 14, 2023, Monday-Friday 9:00 a.m. to 4:00 p.m.  
It will be open Steinmetz weekend as well. The exhibition features 231 artworks by 77 students in digital art, drawing, painting, photography, printmaking, and sculpture. | **CROWELL AND WEST GALLERIES, FEIGENBAUM CENTER FOR VISUAL ARTS** |
| 4:00 p.m.     | **Steinmetz Dance Performance**  
The 2023 Lothridge Festival of Dance highlights student performers and choreographers from across our community—including dance minors presenting their choreographic research, students enrolled in dance practicums and leaders of dance organizations. | **NOTT MEMORIAL** |
| 8:00 p.m.     | **Union College Jazz Ensemble**  
Professor Tim Olsen, Director | **EMERSON AUDITORIUM, TAYLOR MUSIC CENTER** |

**Saturday, May 13**

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<tr>
<th>Time</th>
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| 1:00 p.m.    | **Prize Day**  
Presentation of Prizes and Recognition | **MEMORIAL CHAPEL** |
| 7:00 p.m. – 9:00 p.m. | **Union’s Got Singing Talent Show**  
Student competitors from Union College will be singing live and be judged by three superstars in the musical theater and pop industry. Lisa Brescia, Craig Carnelia, and Robert Taylor ’78 will determine the winner of the night.  
Tickets are $5 (Union College ID) or $15 (general admission). | **MEMORIAL CHAPEL** |
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### Friday, May 12

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<td><strong>Steinmetz Concert</strong></td>
<td>Union College Jazz Ensemble</td>
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<td>8:00 p.m.</td>
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**THE BOOKSTORE WILL BE OPEN:**
- Friday, 8:45 a.m. – 5 p.m.
- Saturday, 10 a.m. – 3 p.m.
- Sunday, closed

**SCHAFFER LIBRARY WILL BE OPEN:**
- Friday, 8 a.m. – midnight
- Saturday, 10 a.m. – midnight
- Sunday, 10 a.m. – 2 a.m.

**THE NOTT MEMORIAL WILL BE OPEN:**
- Friday, 10 a.m. – 6 p.m.
- Saturday, 10 a.m. – 6 p.m.
- Sunday, 10 a.m. – 6 p.m.
THE 2023 ANNUAL STEINMETZ SYMPOSIUM
STUDENT ART EXHIBITION

9:00 A.M. – 4:00 P.M. / CROWELL AND WEST GALLERIES IN THE FEIGENBAUM CENTER FOR VISUAL ARTS

The Visual Arts Department is delighted to present our 2023 Steinmetz Symposium Student Art Exhibition, an annual highlight of student work selected by our Studio Fine Arts faculty. We are proud of our students’ achievements and delighted to share all their hard work with the Union community. The breadth and diversity of works highlight the range of courses students are actively engaged in and also demonstrate ways in which they push the boundaries between materials and genres.

LORRAINE COX, PH.D. / DEPARTMENT CHAIR

The exhibition features 231 artworks by 77 students in digital art, drawing, painting, photography, printmaking and sculpture.

Vhalky Abraham
Elizabeth Arredondo
Georgia Baer
Shriya Balaji
Gabriela Balakier
Jayson Bromberg
Tam Vu Chi
Mircy Coca
Ryan Conway
Samuel Crowley
Paige Curran
Sarah Dames
Sarah Davenport
Vicky Davison
Chris Delances
Haley Dineen
Victoria Donatucci
Emma Drake
Emily Evans
Julien Evans
Idalis Fuentes
Maya Gempler
Justen George
Matt Giarrattana
Ava Gray Graichen
Collin Harrington
Alexis Henrikson
Cate Hicks
Hieu Hoang
Kali Jauregui Morris
Fuka Kanesaka
Nolan Kelley
Emma Kennedy
Athenasia Kytoudi
Isaac Levey
Alexandra Lim
Isobel Mackinnon
Betsy Matthew
Forrest May
Lydia McElroy
Andrea Mullen
Morgan Napier
Salima Nazir
Anna Nickman
Andrew Nordell
Katherine O’Brien
Elizabeth Owens
Isabel Pacchiana
Sherlandy Pardieu
Grace Parini
Evan Perry
Alice Phan
Maddie Phan
Iris Phenix
Lucas Piconi
Leah Piscitelli
Mia Polenberg
Claudia Porto
Jocelyn Poste
Josephine Proctor
Juliette Richenthal
Sophia Rothberg
Isabella Russell
Nova Shek
Efu Takahashi
Ysabel Thompson
Paige Tromblee
Alissa Tsay
Lily van Baaren
Bridget Walsh
Leila Warde
Lili Wang
Suzanna Wright
Sinthia Xhabej
Emily Zucco
FACULTY SPONSORS

Professor Allison Conley
DRAWING AND PRINTMAKING

Professor Chris Duncan
SCULPTURE

Professor J.B. Morton ’10
PHOTOGRAPHY

Professor Laini Nemett
PAINTING

Professor Fernando Orellana
DIGITAL ART
SESSION I

9:00 – 10:40 A.M. / CONCURRENT ORAL PRESENTATIONS

KARP 105

Psychology of Gender and Aggression
MODERATOR: CONOR O’DEA

9:00 / MITCHELL K. REINHART
Masculine Threats and Motivations toward Muscularity

9:20 / MITCHELL J. ASHTON
“Are you really just going to let him do that?”: Masculine Honor Beliefs, Threat and Confrontation

9:40 / TAM YU CHI
Reducing Performative Activism through a Short Online Intervention

10:00 / JORDAN M. WHITTIER
The Creation and Validation of a Scale Assessing the Motivations Underlying Honor Ideology

KARP 103

Anthropology and Sociology
MODERATOR: STEPHEN LEAVITT

9:00 / FIONA XU
Analyzing Hometown Health’s Social Determinants of Health Program and its Community Health Network

9:20 / JOCELYN POSTE
Symbiotic Relationships with Non-human Companions: Therapy and Emotional Support Animals on College Campuses

9:40 / SAMHITA BHEEMIREDDY
Analysis of the Schenectady New Hire Community Panel: A Contemporary Police Reform Initiative

10:00 / MAEVE P. DABY
A Blessing or a Curse: Utilization and Inclusivity in Faith-Based Organizations Servicing the Homeless

10:20 / REBECCA F. TEGIACCHI
The Effect of Alzheimer’s Disease Progression on Caregivers’ Mental Health

LIPPMAN 016

Economics
MODERATOR: STEPHEN SCHMIDT

9:00 / RUNFEI LIU
The effectiveness of fiscal policy in mitigating the economic impact of COVID-19

9:20 / RANEY J. NEWMAN
Tweetonomics: The Relation Between Twitter Sentiment and Cryptocurrency Returns

9:40 / EVAN J. FARR

10:00 / TRISHA D. AGRAWAL
How Much Did the Rise of Energy Prices Contribute to the U.S. Dollar and Euro Reaching Parity?

LIPPMAN 101

Argentina Mini-term 2022:
Social Movement, Human Rights and the Environment: Part 1
MODERATOR: MARITZA OSUNA

9:00 / GWYNETH SULTAN

9:20 / PATRICK MULREADY
“First they want to eat:” Citizens’ Perceptions of Climate Change in Argentina

9:40 / ALINA WHITESIDE
Skinny, Blond, and White: Female Beauty in Argentina

10:00 / NATALIE GIORDANO
“Nunca más:” Physical Reminders of an Ugly Past in Buenos Aires, Argentina
SESSION I

9:00 – 10:40 A.M. / CONCURRENT ORAL PRESENTATIONS

ISEC 118

**Advanced Composite Material Designs**

**MODERATOR: RON BUCINELL**

9:00 / SHANNON A. TUCKER
The Design and Manufacturing of a Sustainable Composite I-Beam—SAMPE 2023

9:20 / AIDAN P. KASK
Analysis of Optimal Operating Frequencies For Skiing Apparatuses via Material Layer Optimization

9:40 / JUSTIN M. PASCHKE
Development of a Hybrid Golf Head Using Sustainable Resources and Cost-Efficient Materials

10:00 / KENYON C. PELLETIER
Development of an Affordable Hybrid Golf Shaft Using Sustainable Materials

KARP 002

**Neuroscience**

**MODERATOR: CHAD ROGERS**

9:00 / TRAVIS RATHWELL
Where did the time go? Using time judgment tasks as a predictor for adult ADHD

9:20 / DANTE D. SASSO
The Potential Influence of Anti-Transgender Bias on Memory and Judgements

9:40 / AVANTI KHARE
Evaluating the impacts of accent and semantic context on listening effort

WOLD 225

**Nanotechnology**

**MODERATOR: REBECCA CORTEZ**

9:00 / LEXIS MCCABE
Reduction of Skin Surface Roughness via Facial Moisturizers

9:20 / KATIE OLSSON
Applications of Modified Graphene Oxide Membranes for Water Treatment

9:40 / AIDEN C. ROWLEY
Flexible Reduced Graphene Oxide (rGO) Micro-Supercapacitor Sensors

10:00 / LUKE S. KILBY
Manufacturing and Testing of Reduced Graphene Oxide Micro Supercapacitors

KARP 001

**English 1: Creative Worlds**

**MODERATOR: SHENA MCAULIFFE**

9:00 / ABIGAIL SMITH
Sticky Tape, and Other Reflections

9:20 / ISABELLA RUSSELL
The Dream Thief

9:40 / GRAHAM KAPLAN
Vouvant: A Tragic Love Story in the West of France

10:00 / KASEY A. WALSH
Women in Popular Culture Literature
SESSION I

9:00 – 10:40 A.M. / CONCURRENT ORAL PRESENTATIONS

ISEC 120

Ecology and Organismal Biology

MODERATOR: STEVEN RICE

9:00 / EMMA DRAKE
Mapping Hemlock Stand Distribution and Structure in Otsego County, NY to Develop Site-Specific Mitigation of Hemlock Woolly Adelgid

9:20 / RONAN COUGHLIN
Temperature and Direction-changing Effects on the Headbob Displays of Anolis sagrei

9:40 / CAITLIN WILLIAMS
Utilizing Captive-Bred Bearded Dragons to Study Sensory and Cognitive Capacity in Lizards

10:00 / MAYA GEMPLER
Reversal of Apoptosis (Anastasis) as a Homeostatic Mechanism in Mammalian T-lymphocytes

ISEC 124

Stable Isotopes

MODERATOR: KATHLEEN LOGIUDICE

9:00 / JACOB ABBOTT
Stable water isotopes provide insight into the spatial variability of As and U in drinking water across the Northern Plains

9:20 / HAILEY STOLTENBERG
Peruvian Stalagmites as Indicators of Past Climate: Stable Isotope Record from 315 to 250ka

9:40 / AVERY CLAVEL
MIS 8 and MIS 9 Reconstruction from Aged Stalagmite Isotopic Values and Impacts on South American Summer Monsoon

ISEC 150

Biochemistry + Surgical Techniques

MODERATOR: BRIAN COHEN

9:00 EMILY ARMLIN
Human Folitropin Receptor Lipid Raft Residency is Mediated by its Caveolin Binding Motif

9:20 / ISABEL G. LUBIN
Effect of lipid raft disrupting agents on FSHR-dependent cAMP production

9:40 / ELLA N. HARPER-SCHIEHL
Investigating Genetic Underpinnings of Depression

10:00 / AVI A. GAJJAR
Two Birds with One Stent: Venous Sinus Stenting and Weight Loss in Idiopathic Intracranial Hypertension Patients via a Multi-Center Study

10:20 / AVI A. GAJJAR
The Artery Much Less Traveled: The Experience with Intraoperative Angiography via Popliteal Artery Access
SESSION II

10:50 A.M. – 12:30 P.M. / CONCURRENT ORAL PRESENTATIONS

KARP 105

**Klemm Fellowship Presentations**

**MODERATOR: MARK DALLAS**

10:50 / ELLA HARPER-SCHIEHL
Klemm Fellowship: A Ghanaian Crash Course in Listening, Learning and Loving

11:10 / ANUJA KONDA
Giant Tortoises and Sea Lions: Unique Species of the Galápagos and Conservation Efforts to Protect Them

11:30 / TALHA MUSHTAQ
Rebuild the Blue: Restoring Fiji’s Mangroves and Protecting its Sharks

11:50 / AZIR NAWAZ
The Peaceful People: Nepal’s Healthcare, Rich Culture and Way of Life

12:10 / MAYUR PABBA
Swimming with Sharks and Planting Mangroves in Fiji

KARP 002

**Psychology 1**

**MODERATOR: GEORGE BIZER**

10:50 / HAYLEE A. SNOW
Thoughts of nature, thoughts of god: The effects of exposure to nature on religiosity

11:20 / KYLE A. HANNIBAL
Programming for Attention: Personality Traits and Headline Selection

11:40 / SANJIV SUNDERRAM
The Interactive Effect of Dispositional and Induced Mindfulness on Free Throw Shooting

KARP 103

**Political Science 1**

**MODERATOR: BRAD HAYS**

10:50 / JULIANNAN R. LISI
The Impacts of DNA Evidence in the Courtroom

11:10 / EMMA MALEY
Socio-legal mobilization for SMO’s: The Impact of Litigation efforts and media coverage for the Brady Campaign to Prevent Gun Violence

11:30 / ABIGAIL O. STRAUZER
Senatorial Courtesy Linked to Racial Disparity?

11:50 / ANNA S. ZDUNCZYK
Why Politicians Say Yes: The Politics Behind Building Polar Park

LIPPMAN 014

**Sociology and Healthcare**

**MODERATOR: TIMOTHY STABLEIN**

10:50 / AVI A. GAJJAR
Political Barriers in Equitable Ischemic Stroke Care in the Post-Endovascular Mechanical Thrombectomy Clinical Trial Era

11:10 / ARMANDA Y. NOEL
Sociology and Health

11:30 / NOVA K. SHEK
Families with Neurodevelopmental Disorders and Society Response

11:50 / GRACE E. NICOL
Obenzinger Project: HealthySteps Intern for At-Risk Children in Schenectady
SESSION II

10:50 A.M. – 12:30 P.M. / CONCURRENT ORAL PRESENTATIONS

**LIPPMAN 101**


**MODERATOR: MARITZA OSUNA**

10:50 / JOCELYN POSTE
They Never Sleep: Feminists and LGBTQIA+ Movements in Argentina

11:10 / ANDREW BASSUK
Drinking Mate as Culture: The Argentine and American perspectives

11:30 / EBYAN ABSHIR
They Choose Not To Forget: Preserving Memory in Buenos Aires, Argentina

**KARP 001**

English 2: Critical Visions

**MODERATOR: JUDITH LEWIN**

10:50 / AUGUST D’AMORE
Text, Taboo and Pleasure in the Resolution of the Chaotic Narrative

11:10 / KIMBERLYN FALCON
The Portrayal of Mexican (Im)migration in Children’s Literature

11:30 / CAITLIN BOICE
The Art of Translation: An Analysis of Japanese to English Translation in Shinkai Makoto’s “Your Name”

**LIPPMAN 012**

French and Francophone Studies

**MODERATOR: CHARLES BATSON**

10:50 / SEBASTIAN KANIA
A Conversation of No Importance

11:10 / JANET FABODE
The Pandemic Hidden Within the Pandemic

11:30 / DEANA PATTERSON
Le système éducatif Belge au Congo: Il est effectif pour qui?

**LIPPMAN 016**

Sociology and Education

**MODERATOR: ROSEMARY PATTERSON**

10:50 / JULIA C. RYBICKI
The Neoliberal Attack on Education: Burnout for Teachers and Increased Exposure to Student Food Insecurity Amid COVID-19 in Low-Income School Districts

11:10 / ABBY G. WILDER
Anti-Gay Curriculum: The Clash of Conservative Rhetoric and Queer Pedagogical Approaches

11:30 / TAYA J. MORGADO
Competency-Based Education and Its Effect on Math Assessment Scores

**WOLD 225**

Mechanical Engineering 1

**MODERATOR: WILLIAM KEAT**

10:50 / RYAN GARDNER
Constant Velocity Joints for the 2023 Union College BAJA Racing Team Car

11:10 / DEVIN W. ROCHELLE
Design of SAE Baja Portal Gearboxes with Integrated Mechanical 4WD System
SESSION II

10:50 A.M. – 12:30 P.M. / CONCURRENT ORAL PRESENTATIONS

11:30 / ANDREW L. NORDELL
Designing and Manufacturing a Human Powered Vehicle

11:50 / NATHAN T. CONSTABLE
Design of a Solar Tracking System with Independent Sensing Unit

12:10 / SRIHARI BALAJI
Laser Sintered Polyethylene Laminates - An Analysis

ISEC 124

Electrical Engineering
MODERATOR: LUKE DOSIEK

10:50 / JOHN M. PIPES
A Machine Learning-Based System to Forecast Weather in Remote Locations

11:10 / JAMES E. BROUDER
Reducing the Cost of the Turtlebot3 Autonomous Mapping Rover

11:30 / BAO VO
Assistive Robot for People with Disabilities

11:50 / LUKE O. MUSSELMAN
Bite Hero: Endotracheal Tube Bite Guard and Fixation

WOLD 128

Environmental Science and Policy
MODERATORS: ANOUK VERHEYDEN-GILLIKIN / ANDREW MORRIS

10:50 / GRACE LEVINS
The Effectiveness of Private Leveses on Maintaining Productive Uplands from Sea Level Rise

11:10 / CHRISTINE M. SWANSON
Characterization of Stream Turbidity in the Catskills, New York: Insights into Environmental Controls

11:30 / KELLEY DOLAN
Environmental Contamination on Former Military Facilities and the Challenges of Economic Redevelopment

12:10 / JORDYN KERR
Environmental Injustice: An Analysis of Environmental Impacts with regard to Sociological Disparities

ISEC 150

Sigma XI Award Nominees

Presenting students have been nominated for this prestigious award with final judging based on these talks.

MODERATOR: JEFF CORBIN

10:50 / MILES ACKERMAN
Building a Confocal Laser-Scanning Microscope and Writing GUI-Based Control Software for Biological Imaging and 2D Material Characterization Purposes

11:10 / MEGAN LEE
Using stable isotope analysis to explore the exploitation of anthropogenic foods by gray squirrels and eastern chipmunks in urban and rural sites

11:30 / JILL RAMEY
Asking For It: An Examination of Victim Blaming Reasons and Correlates

ISEC 118

Mathematics 1
MODERATOR: BRENDA JOHNSON

10:50 / LICHUAN XIONG
Puzzles and Games with Linear Algebra

11:10 / MICHAEL D. NYIKOS
Exploring the Art of Computer Graphics

11:30 / SHIZHE LI
Bipartite intrinsically knotted graphs with 21 edges

11:50 / QUOC AN
Some Different Ways to Prove The Irrationality of The Square Root of 2
SESSION III

12:30 – 1:50 P.M. / POSTERS AND TEAM DISPLAYS

TEAM DISPLAYS

WOLD (LOWER LEVEL)

JONATHAN FISCHMAN
Union College Robotics Crew—Micromouse Demos

MAX J. VAN DIJK
Baja SAE Design Competition Team—Vehicle Display

MOHAMED KAID
SAE Aero Design Competition Team—Aircraft Display

POSTERS

WOLD ATRIUM

Natural Sciences and Engineering 1

SOFIA T. BARTH
Provenance of the Sitka Graywacke from Glacier Bay National Park in Southeast Alaska

ANDREW R. BOYD
Myoelectric Manifestations of Muscular fatigue in the Bicep Brachii when Using The Life Handle

MELANIE E. BOYLE
The Freezing Point of Salt Water at High Pressure on Europa

JAYSON T. BROMBERG
Analysis of the a0 (980) and a2 (1320) Mesons at GlueX

RACHEL P. BRYAN
Detrital Zircons Reveal Tectonic Translation of the Yakutat Terrane, Alaska

ELIZABETH-VERONICA M. CROWLEY
A Union College Observatory Study of Asteroid (993) Moultona

NIHA DAS
Time Series Observations of Four Asteroids in 2022

AYDANA DJOROEV
Lightcurve for Koronis Asteroid (2498) Tsesevich using the Union College Observatory

ALEXANDER N. FORSYTH
The Effect of Mangrove Tidal Pumping on Proximal Reef Systems

MAREN L. FRIDAY
The In-Plane Dielectric Properties of Graphene Oxide Membrane with Modification from Al3+

WILLIAM H. GOOD
Flexible Roughness Elements in a Turbulent Boundary Layer

JOHN D. GOODMAN
Fecal Indicator Bacteria indicate impairment of surface water quality in the Indian Kill Watershed in the Town of Glenville, New York

WILLIAM GRIMWOOD
A Marble of Ancient Construction: How much did it cost to build the Parthenon?

KATELYN E. HIRNAK
Alternate Ion Signalling and Its Effect on Metacaspase Activity

XIAOYU HU
Local microtopography affects bryophyte water loss more than differences in canopy structure

ALEXANDER JACOBS
Permeability and Stability Analysis of Copper cation modified Graphene Oxide Membranes (CuX-GO) for Fuel Dehydration Applications

C’LANNYE JAMES
Incorporating Octanethiol-functionalized Gold Nanoparticles into the Interior of Bilayer Peptoid Nanosheets

MAYA N. JONES
Investigating the Role of Cortisol Sensitivity SNP rs2918419 in Metabolic Syndrome
SESSION III

12:30 – 1:50 P.M. / POSTERS AND TEAM DISPLAYS

ABHAY S. KASHYAP
3-Dimensional Object Detection and Location Tracker in the Real World

RAJESH M. KHAMBETE AND MARISSA BURSTEIN
What can Stable Isotope Analysis Tell us about Short-Tailed Shrews and Squirrels?

SEBASTIAN A. KOCH
Ohm-Meter To Test Reduced Graphene Oxide Sensors

Haley R. Kresch
The Effects of Robot Eye Gaze On Task Performance

VIOLA LI
Ontogeny of Pheromones Among Five Drosophila Species of the Affinis Subgroup.

KYRA M. LUM
Potential S. commune Metacaspase Inhibitors: Assessing a New Synthetic Approach

ISEC ATRIUM (LOWER LEVEL)
Natural Sciences and Engineering 2

FINLAY A. MACDONALD
Definitive Period for Asteroid (1389) Onnie

TIMOTHY S. MCGARRY
The Effect of OD-PABA

CAROLINE O. MONACO
Diel Biogeochemical Cycles and Tidal Pumping in a Tropical Mangrove Creek

ALEXIS R. NIKITAS
The Design of a Tick-Collecting Robot

BEATRICE A. OGDEN
Developing Methodology for Antibacterial Studies with Transition Metal Complexes

ETHAN D. PALIWODA
Water Bear Gene Transformation and Fungal Stress Response

DEVIN M. RAMOS
Analysis of TFOP Observations of NASA TESS Exoplanet Candidates

TRAVIS J. RATHWELL
Using a hybrid model to simulate protein-DNA interactions

RUBAB RAZA
Synthesis of Dual CCR5/CXCR4 Inhibitors In the Prevention of HIV Infection

NOAH A. SCOPEUOLO-ROSEN
Light Curves for Koronis Family Asteroids (2742) Gibson and (2833) Radishchev

JASON M. SINDONI
Calibrated Light Curve of Asteroid (1725) CrAO

EMILY K. STEIN
Synthesis of Metallo-Chemotherapeutics: Pyridine-Based Ligands with Copper and Nickel Containing Complexes

GWYNETH Y. SULTAN
Comparison of Caveolin Interaction Motifs of the FSH Receptor and Other GPCRs

MILES T. TENG-LEVY
Optimizing a Strain Wave Gearbox for 3D Printing

NICOLE C. TURPIN
Ultrasound Neuromodulation in an Earthworm

DANIEL T. TYEBKHAN
Evolving MoonBoard Bouldering Routes

JENNIFER M. WILLIAMSON
Hiking Tracker

LOGAN J. WALKER
Controlling Voxel-Based Soft Robots with Quality Diversity Algorithms

ANAN ZHOU
Circuit breaker Failure Analysis
SESSION III

12:30 – 1:50 P.M. / POSTERS AND TEAM DISPLAYS

SCHAFFER LIBRARY

Humanities, Social Sciences and Health Sciences

MAYA C. ACAMPORA
Flexor Hallucis Longus Muscle Activation in Dancers versus Non-Dancers

JASON AYALA
Retrieval Practice and Context Reinstatement

NIKHIL AZHAGIRI
The Relationship Between Hospital Affiliation and Patient Welfare

ANDREW R. BASSUK
Urban Farming at Union College?

VIRAJ V. BRAHMBHATT
Analyzing potential risk factors and contributors to Breast Cancer to aid in guidelines for early screenings

BRANDON MITCHELL
Exercise and Incubation Effects in Creative Problem Solving

JACK DAVIS
Private Equity and Real Estate Allocation in Public Pension Funds

MARCUS C. DIAZ
Environmental Kuznets Curve in United States

AYDANA DJOROEVA
Spirituality predicts ability to “get in the zone” while neuro-exergaming among older adults

DAVID A. DOMBROVSKY
Investigating the Value of Neurosurgical Residency Websites During the Virtual Interview Cycle

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ANDERS G. FISH
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KATIE M. GIBBONS
Personality Traits Correlation to Dream Factors

AIDA GIRMA
The Relationship between Parenting Styles and Overcoming Mental Fixation in Creative Idea Generation

ALEXA F. GONZALEZ
Factors That Affect the Development of “Deviant” Individuals

RYAN W. HAYES
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NICOLE HITCHCOCK
Social isolation during the coronavirus pandemic: Impact on cognition in those with mild cognitive impairment (MCI)

ANUSHKA KAIWAR
Are racists reclaiming the term racist? A novel examination of slur reappropriation

JUDE A. KAPPEL
Trade Organization Membership and Imports of Environmentally-Sensitive-Goods: What is the link?

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Informal and Formal Economy; Corruption and European Union: The Modern Albanian Economy and its Flaws

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Unequal Neighborhoods: A Comparative Case Study of Niskayuna and Schenectady

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Religious Correlates on Openness to Criminal Behavior

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Tissue Retractor for Open Umbilical Hernia Surgery
SESSION III

12:30 – 1:50 P.M. / POSTERS AND TEAM DISPLAYS

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Alternative Surgical Headlamp to Reduce Surgeon’s Chronic Neck Pain

OLIVIA PACHLA
Two years later: In-home neuro-exergaming with iPACES for adolescent with Autism Spectrum Disorder

LUDOVICA D. PALMIERI
Unemployment and Fertility: Cross-country Evidence from OECD countries

ELIZABETH M. PICA
How Differences in Spain’s Regional Healthcare Resources Impact Healthcare Across the Country

LEAH H. PISCITELLI
Using Negative Space to Create a New Generative Story

SHAMS A. QURESHI
Measuring EMG signals from the maximum voluntary contractions of the soleus and gastrocnemius muscles.

NOLAN M. RANDALL
The Use of Electromyography in Myoelectric Prosthetics as a Method to Restore Functionality after Upper-Extremity Amputation

ALICIA SLAVIT
The Effect of Cyclic Changes in Hormone Levels on Muscle Fatigue

ARMAAN S. UPPAL
Racial Disparities in Spine Surgery A Systematic Review

BRANDON F. WERTHEIMER
Social Security Bridge Strategy

KARLY E. WILLSON
Skill-Related Neuroplasticity: An Exploration of Electrophysiological Markers Indicating a Shift in Cognitive Strategy

YUTONG WU
Baroque Dance Workshop
SESSION IV

1:50 - 3:30 P.M. / CONCURRENT ORAL PRESENTATIONS

KARP 105

Minerva Fellowship Panel
MODERATOR: ROBIN OILINSKY
1:50 / ANNA TRANCOZO
Minerva Fellowship Presentation
2:10 / ABIGAIL STACK
Minerva Fellowship Presentation
2:30 / JILLIAN E GOLDBER
Minerva Fellowship Presentation

KARP 103

Gender, Sexuality and Women’s Studies
MODERATOR: DEIDRE HILL BUTLER
1:50 / MELANIE E. BOYLE
What it Means to be a Woman in STEM
2:10 / KATHRYN E. CAWLEY
Women’s Reproductive Freedom Before and After Roe v. Wade
2:30 / SKYLER V. LIEGEOT
A Critic of Income Inequality since the COVID-19 Pandemic in the US: The Feminist Anarchist Response
2:50 / REBECCA H. CLAYMAN
Fighting For a Level Playing Field: The Reality of Elite Women’s Sports in Today’s Modern Era

KARP 001

Psychology 2
MODERATOR: JOSHUA HART
1:50 / HANNAH R. CRODELLE
Attachment Style, Schizotypy, and Conspiracy Belief: A Mediational Process Model
2:10 / JACOB M. DIORIO
An Examination of the Effects of Family Stability on Intimate Relationships
2:30 / EMILY F. OLENIK
The relationship between helicopter parenting and risky sexual behavior in emerging adults
2:50 / JACKSON G. GIAMMATTEI
The Effect of Religiosity, Partisanship, and Identity-Seeking Behavior on Political Engagement
3:10 / ALINA H. WHITESIDE
Psychological Ownership and Insecure Adult Attachment

LIPPMAN 014

Eating disorders, body image, and weight stigma
MODERATOR: CATHERINE WALKER
1:50 / JULIA WEBSTER
A Body Functionality Approach to Height Dissatisfaction in Women
2:10 / NATALIA GARCIA MORENO
Weight stigma among healthcare professionals and its effects on misdiagnosis of eating disorders
2:30 / CLARA LACORTE
The Neuropsychological Correlates of Eating Disorders
2:50 / OLIVIA BRAND
How weight and race impact perceptions of anorexia nervosa
3:10 / HALLIE R. KATZMAN
Intimate Partner Violence Among College Students: Service Utilization and Quality of College Campus Mental Health Services
SESSION IV

1:50 - 3:30 P.M. / CONCURRENT ORAL PRESENTATIONS

LIPPMAN 101

History 1
MODERATOR: SARINA KUERSTEINER

1:50 / SOPHIE A. BROWN
Interrogating Historical Trauma Through the Lens of Black and Indigenous Artists

2:10 / ARIANA S. ROGOWSKI
How 20th Century South African Women Viewed the Plausibility of Communist Liberation

2:30 / LAURYN D. WEST
To Dress a Woman: The Industrial Revolution, Fashion, and Lady’s Magazines

2:50 / ZOE L. ZMURKO
‘Establishing Class’: The Analysis and Establishment of the American Middle Class Through the Evolution of American Dining Etiquette: 1850-1880

3:10 / GABRIELLA R. BARATIER
We Need an American Girl Doll Who...Was at the Capitol Crawl

ISEC 120

Computer Science
MODERATOR: MATTHEW ANDERSON

1:50 / ZACHARY J. DUBINSKY
The Wedderburn-Artin Theorem and Fast Matrix Multiplication

2:10 / DANIELLA L. MASSA
Improving Human-Robot Interaction: Modifications of a Social Robot on Dimensions of Gender and Personality

2:30 / JING CHEN
Fetal Movement Visualizations to Empower Pregnant People

2:50 / SON H. NGUYEN
Predicting Future Workload of Cloud Datacenter

3:10 / FIONA M. SHYNE
Automatic Playtesting of Dungeons and Dragons Combat Encounters

WOLD 225

Current Research on Aerogel Materials
MODERATOR: ANN ANDERSON

1:50 / TINGWEI AO
Aerogel Windows for Sustainable Building Design

2:10 / JENNIFER GARCIA
Phosphorescent Aerogel Based Lighting

2:30 / ANNA HOFFMAN
Quantifying the Effects of Aerogels for Their Use in Catalytic Converters

2:50 / PAULO REYES
Drag Reduction Through Hydrophobic Aerogel Film

ISEC 124

Biology
MODERATOR: KATE FELLER

1:50 / LEONARDO M. FERRISI
Optimizing an Assistive Brain Computer Interface that uses Auditory Attention

2:10 / CHRISTOPHER J. RINGER
The effect of weight gain on locust jumping kinematics and extensor muscle activity (Schistocerca americana)

2:30 / DANA TRUINI
Gravid grasshoppers produce more energy but jump shorter distances

2:50 / NATALIE J. PREVEZA
Contrasting the production and molecular composition of venom from varying species of Belostomatidae
SESSION IV

1:50 - 3:30 P.M. / CONCURRENT ORAL PRESENTATIONS

ISEC 150

Chemical Biology
MODERATOR: KRISTIN FOX

1:50 / LUKE MIRANDA
Mutation of Schizophyllum commune Type Ia Metacaspase for Cleavage Site Identification

2:10 / MORGAN TRUEDELL
Identification of calcium binding sites of Schizophyllum commune metacaspases

2:30 / MORGAN DUFFANY
Investigating the G-Quadruplex Structure in Precursor MicroRNA

2:50 / YEONJAE LEE AND KYRA LUM
Assessing the Stereoselectivity of a Novel Synthesis of Heteroaryl Ketones as Potential S. commune Metacaspase Inhibitors

ISEC 118

Mathematics 2 and Theoretical Physics
MODERATOR: JEFFREY HATLEY

1:50 / DANIEL T. TYEBKHAN
Elliptic Curves for Prime Factorization of Integers

2:10 / MAYAH TEPLITSKIY
Polynomials in $F_p[x]$ which commute under composition

2:30 / AIDAN P. MCAULIFFE
Isoperimetric Inequality

2:50 / AQEEL AHMED
Comparing Newtonian Mechanics, Special Relativity and General Relativity for Motion Near a Mass

3:10 / JULIAN ZAPATA-HALL
Big Data: Development of Fouling Strategy for College Basketball

WOLD 128

Environmental Chemistry
MODERATOR: LAURA MACMANUS-SPENCER

1:50 / CAROLINE MONACO
Sorption of PFAS Chemicals to Organic Material as an Environmental Remediation Strategy

2:10 / TESSA THOMAS
Studying the Binding of Hexafluoropropylene Oxide-Dimer Acid to Human Serum Albumin (HSA) in the Presence of Fatty Acids

2:30 / DANIEL SINGER
Quantifying the Sediment Sorption of Organic Ultraviolet Filter Chemicals Using Solvophobic Theory

EMERSON AUDITORIUM

Unusual Music: From Lutes to Birds and Jazz
MODERATORS: DIANNE MCMULLEN / TIM OLSEN

1:50 / GRACE I. CANEPARI
Do Birds Really Sing?: A Debate Among Scientists and Musicians

2:10 / CORBIN T. VELONIS
Renaissance Lute Music Reborn

2:30 / ASPEN MORRIS
Jazz Arrangements of Six Pieces from the “Cowboy Bebop” Soundtrack
SESSION V

3:40 - 5:20 P.M. / CONCURRENT ORAL PRESENTATIONS

KARP 105

Social and Health Challenges of College-Age Students
MODERATOR: DAVE COTTER

3:40 / KARSON M. SAUNDERS
Addressing the Limitations of the Medical Model: An Examination of Stigma, Challenges and Social Support for College-Age Women Living with Type One Diabetes

4:00 / LILY R. WALKER MONEY
Exploring Intimate Partner Violence Among 18-24-year-olds During COVID-19: A Clinical Perspective

4:20 / ZOË E. FLESSAS-FINOCCHI
Why are BIPOC students not Involved in Greek Life at Union?

4:40 / ALEXIS H. HENRIKSON
Invisible Disabilities: Self and Understanding in Higher Education

KARP 002

Political Science 2
MODERATOR: TOMAS DVORAK

3:40 / MICHAEL E. ROSENBAUM
Liberty through the looking-glass: Comparative democratic backsliding in response to the French Revolution (1789-1806)

4:00 / HARRISON M. BERGER
Evaluating the Rise of Multipolarity

4:40 / AVA C. DIEDEN
No More Deaths: rights based humanitarianism on the US-Mexico border

4:40 / BENJAMIN BIRNBACH
In Search of a More Comprehensive Joint Comprehensive Plan of Action (JCPOA): The wider implications of dealing with the Islamic Republic of Iran.

LIPPMAN 101

History 2
MODERATOR: JOYCE MADANCY

3:40 / GRANT DEBOER
Propaganda for Peace: Edward Bernays and Public Relations’ Purpose in Modern Society

4:00 / LILY P. WAINWRIGHT
U.S. Presidential Advertising Campaigns: An Analysis of the Implementation and Efficacy of Fear

4:20 / SEBASTIAN G. KANIA
Literature and History: Honoré de Balzac, His Writings, and Nineteenth-Century France

4:40 / MATTHEW D. GIARRATANA
The Democratization of American Historical Societies: From Gentleman Scholars to Girlbosses and Beyond

LIPPMAN 012

Developmental Psychology
MODERATOR: LINDA STANHOPE

3:40 / LINDSEY MCDONALD
Children’s Exposure to Interparental Conflict Predicts the Quality of their Friendships in College

4:00 / ISABEL RIPSAM-WALSH
Relationships Among Attachment Style, Hook-up Attitudes and Mental Health

4:20 / NATALIE GIORDANO
The Association Between Parenting Style and Birth Order as Explored in College Students

4:40 / CARLY MATTICE
Special Education Teacher Stress and Upholding the Individuals with Disabilities Education Act for Students with Autism
SESSION V

3:40 - 5:20 P.M. / CONCURRENT ORAL PRESENTATIONS

WOLD 225
Mechanical Engineering 2

MODERATOR: JARON KUPPERS

3:40 / LEONARDO J. GAGLIARDI
Canopy Shear Layer Perturbation by Localized Height Heterogeneity

4:00 / DANIEL R. CHOATE
Steering System for the Union College SAE Baja Team

4:20 / EMILY L. ABRUZZESE
Development and Testing of a Clean Cookstove Testbed

4:40 / NATALIE J. SHEARING
Liebau Pumping in Embryonic Hearts: A RIM-PIV Study of Liebau Impedance Pumping in an Embryonic Heart Model
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<td>Daby, Maeve P.</td>
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<td>Lubin, Isabel G.</td>
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UNION COLLEGE | 23
STEINMETZ DANCE PERFORMANCE

FRIDAY, MAY 12 / 4:00 P.M. / NOTT MEMORIAL

The 2023 Lothridge Festival of Dance

THE CHARLES PROTEUS STEINMETZ SYMPOSIUM 2023

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**Star-Crossed Lovers**
**CHOREOGRAPHY:** EVA CROWLEY  
**MUSIC BY HARRY STYLES:** "KEEP DRIVING"  
**Dancers:** Jordan An, Grace Newcombe

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**Presence**
**CHOREOGRAPHY:** EMILY ARMLIN  
**MUSIC BY SLEEPING AT LAST:** "TASTE"  
**Dancers:** Emily Armlin, Hannah Kimball, Grace Levins, and Abby Wilder

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**Union College Steinmetz Spectacular**  
**CHOREOGRAPHY:** JULIANA LISI  
**MUSIC BY THE WEEKEND:** "BLINDING LIGHTS"  
**Dancers:** Rachel Bryan, Sarah Dames, Caitlin LeSage, Juliana Lisi, Haylee Snow, Sage Stinson

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**Bhangra Union Spring 2023**  
**CHOREOGRAPHY:** TRISHA AGRAWAL, NISHTHA AGARWAL, VAISHALI SRINIVASAN  
**MUSIC BY MANAK-E, AYO AND TEO, DILJEET DOSANJ, HARRDY SANDHU:** "JHERI KUDI," "ROLEX," "GOAT," "BIJLEE BIJLEE"  

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**Kpop Spring 2023 Chorus Mashup**  
**CHOREOGRAPHY:** SHRiya BALAJI  
**MUSIC BY NCT 127, ENHYPHEN, NEW JEANS, BLACKPINK, BTS:** "KICK IT," "FEVER," "HYPER BOY," "SHUT DOWN," "MIC DROP"  
**Dancers:** Nishtha Agarwal, Shriya Balaji, Ashlesha Bhagat, Mahek Desai, Maddie Donahue, Aydana Djoroeva, Pheary Kang, Chiharu Mamiya, Lexis McCabe, Vaishali Srinivasan

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**Vibes**
**CHOREOGRAPHY:** AIDA GIRMA & ISHIKA CHOURLASIA  
**MUSIC BY A COLLECTION OF AFROBEATS AND AFRO-INSPIRED MUSIC**  
**Dancers:** Dulce Barrios, Ishika Chourasia, Chris Delances, Aida Girma, Deja Jenkins, Jocelyn Poste, Jennifer Mendez

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**XV: Le Diable**
**CHOREOGRAPHY:** EVA CROWLEY  
**MUSIC BY DJO:** "MORTAL PROJECTIONS"  
**Dancers:** Melanie De La Cruz, Livi Gwinnett, Grace Newcombe, Armada Noël, Isabella Russell, Haylee Snow, Zoe Watson, Abby Wilder

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**As You Walk**
**CHOREOGRAPHY:** CAITLIN LESEAGE AND ZOE WATSON  
**MUSIC BY MUMFORD AND SONS:** "THE CAVES"  
**Dancers:** Caitlin LeSage, Zoe Watson

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**Union College Dance Team**  
**CHOREOGRAPHY:** ABBY RESNIC AND ZOE WATSON  
**MUSIC BY CHRISTINA AGUILERA, PITBULL, JOHN MARTIN, SWEDISH HOUSE MAFIA, GALANTIS:** "FEEL THIS MOMENT," "DON’T YOU WORRY CHILD," "RUNAWAY (U61)"  
**Dancers:** Maya Acampora, Faith Burroughs, Maia Carty, Sarah Dames, Hannah Kimball, Caitlin LeSage, Alexandra Nicolaus, Abby Resnic, Isabella Russell, Lydia Singer, Anabel Sollinger, Zoe Watson and Anna Zusi
Love, Your Seniors

CHOREOGRAPHY: THE UNION DANCE SENIORS
MUSIC BY BEN RECTOR: “BRAND NEW”

Dancers: Quoc (Jordan) An, Emily Armlin, Julianna Lisi, Armanda Noël, Abby Resnic, Isabella Russell, Haylee Snow, Zoe Watson

Locked In

CHOREOGRAPHY: KEERTHI KONDA & JANET FABODE


A Night in Sevilla

CHOREOGRAPHY: OMONIKE AKINYEMI

Dancers: Students in ADA-054 Special topics: Flamenco. Rachel Bryan, Laura Kao, Athanasia Kytoudi, Chiharu Mamiya, Nguyen Nguyen, Mircey Micheidy Coca Soriano, Riley Spagnuolo, Efu Takahasi, Caitlin Williams

Así se Baila–LatinX

CHOREOGRAPHY: MIRIAM ROJO GUTIERREZ & KIM FALCON
MUSIC BY ZACARIAS FERREIRA, AFRICANDO, DADDY YANKEE, LIL JON, EL ALFA, CHAEL PRODUCIENDO, MC DG AND MC GUSTTA: “LA ASESINA,” “BETECE,” “BOMBOM,” “GOGO DANCE,” “ABUSADAMENTE”


Director’s Note

It is with great pleasure to see the Lothridge Dance Festival return to the Nott this year! We are thrilled to highlight the student performers and choreographers from across our community—including choreographic research from dance minors, as well as students enrolled in our dance practicums, and performers who are active leaders in the various dance clubs, teams, and organizations on campus. In my first year as the Gustave L. Davis ’59 and Susan S. Davis Director of Dance/Artist-in-Residence, I would like to extend my gratitude to Laurie Zabele Cawley, assistant director of dance, for her work in organizing the involvement of the student performers in this year’s Steinmetz performance. We hope you enjoy this celebration of Dance at Union! —Megan Flynn
Union College Jazz Ensemble

DIRECTOR: PROFESSOR TIM OLSN

SAXOPHONE
Grace Canepari ’25
Peter D’Agata ’25
Ethan Lampert ’22
Aspen Morris ’25
Kavi Mathur ’26
Jack Oats ’26

TRUMPET
Lynn Davis
Hannah Ingber ’26
Tessa Klimowicz ’26
Ian Petrat ’25
Bob Relyea
Tyler Weissinger ’25

TROMBONE
Oliver D’Anna ’26
Art Duncan
Deana Patterson ’23
Erik Roberts ’26
Tim Welch ’23

PIANO
Chloe Bui ’24
Ryder Mollo ’26

GUITAR
Aarón Carretero Benites ’25
Minh Vu Le ’23

BASS
Owen Santora ’26
Leo Weisberger ’26

DRUMSET
Joseph Cirksey ’24
Ryan Geiger ’26
Kent Hefele ’23

PERCUSSION
Ashlesha Bhagat ’26

VOCALS
Chloe Bui ’24
Alicia Cynamon ’25
Rosalind Lampert ’26