WELCOME

FROM PRESIDENT DAVID R. HARRIS

Each spring for the last 34 years, the College has paused classes to celebrate achievement of our students in scholarship, research and the arts.

Welcome to the 2024 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 and 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 2024 Steinmetz Symposium. In particular, I want to acknowledge Heather Watson, associate professor of physics 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 11, at 1 p.m., when we will recognize our students for scholarly excellence and leadership.

To view the online program for the 2024 Steinmetz Symposium, visit: steinmetz.union.edu/program
## SCHEDULE OF EVENTS

### FRIDAY, MAY 10

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<th>Time</th>
<th>Event</th>
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<tr>
<td><strong>8:30 a.m. - 5:20 p.m.</strong></td>
<td><strong>Student Presentations</strong>  &lt;br&gt;Presentations on student creative, scholarly and research achievement. Programs and information are available throughout campus. Student presentations begin at 8:30 a.m.</td>
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<tr>
<td><strong>9:00 a.m. - 5:00 p.m.</strong></td>
<td><strong>The 2024 Annual Steinmetz Symposium Student Visual Arts Exhibition</strong>  &lt;br&gt;The exhibition will be open daily from 9:00 a.m. - 5:00 p.m through Sunday, May 12, 2024. The exhibition features artworks by 94 students in Digital Art, Drawing, Painting, Photography, Printmaking, and Sculpture.  &lt;br&gt;CROWELL AND WEST GALLERIES, FEIGENBAUM CENTER FOR VISUAL ARTS</td>
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<tr>
<td><strong>11:30 a.m. - 12:30 p.m.</strong></td>
<td><strong>The Templeton Institute’s “Great AI Debate”</strong>  &lt;br&gt;OLIN AUDITORIUM (OLIN 115)</td>
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<tr>
<td><strong>4:00 p.m.</strong></td>
<td><strong>Lothridge Festival of Dance 2024</strong>  &lt;br&gt;NOTT MEMORIAL</td>
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<tr>
<td><strong>8:00 p.m.</strong></td>
<td><strong>2024 Spring Concert: Bon Voyage</strong>  &lt;br&gt;Professor Jin Byun, Director  &lt;br&gt;MEMORIAL CHAPEL</td>
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### SATURDAY, MAY 11

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<tr>
<td><strong>11:00 a.m.</strong></td>
<td><strong>Union College Jazz Ensemble and Latin Percussion Workshop Steinmetz Concert</strong>  &lt;br&gt;Professor Tim Olsen, Director  &lt;br&gt;FRED L. EMERSON FOUNDATION AUDITORIUM • TAYLOR MUSIC CENTER</td>
</tr>
<tr>
<td><strong>1:00 p.m. - 3:00 p.m.</strong></td>
<td><strong>Presentation of Prizes and Recognition</strong>  &lt;br&gt;MEMORIAL CHAPEL</td>
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**FRIDAY, MAY 10**

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<td>Feigenbaum Center for Visual Arts</td>
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<td><strong>Session I: Concurrent Oral Presentations</strong></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. – 8 p.m.
Saturday, 10 a.m. – 6 p.m.
Sunday, 10 a.m. – 6 p.m.
The Department of Visual Arts is proud to present this year’s Steinmetz Exhibition, selected from the most outstanding student work in Drawing, Painting, Printmaking, Photography, Sculpture, and Digital Art. The exhibiting artists include departmental majors, minors, as well as students from other disciplines. The dynamic, creative synthesis embodied in this year’s work demonstrates our students’ exploration of their media, development of their concepts, and complex dialogues between the past, present, and future.

The exhibition is held in the Crowell and West Galleries, Feigenbaum Center for Visual Arts, and will be open daily from 9:00 a.m. - 5:00 p.m. through Sunday, May 12, 2024.

### Students exhibiting in the Visual Arts Steinmetz Exhibition:

**DRAWING**
- Jessica Strzepek
- Abby Goodell
- Alanna Byrne
- Noah Schott
- Bella Juliano
- Sarah Unger
- Antoinette Gamble
- Atlas Bederson
- Andy Mullen
- Alex Kapilian
- Sae Kanda
- Gisselle Boyer Perez
- Walter Kraus
- Ashlesha Bhagat
- Iris Phenix
- Yuxuan Li
- Emily Evans
- Bryan Nunez
- Liza Pustavoitau
- Aksel Reid
- Nolan Kelley
- Abby Trzepla
- Jane Schreiner
- Alma Moreno
- Grace Parini
- Ysabel Thompson
- Isabel Pacchiana
- Gigi Rankin

**PAINTING**
- Sam Crowley
- Annabel Johnson
- Maya Dow
- Lily Van Buren
- Alice Phan
- Sophia Rothberg
- Simon Rhodes
- Georgia Baer
- Caroline Werner
- Haley Dineen
- Alissa Tsay
- Susanna Wright

**PRINTMAKING**
- Molly Bannon
- Forrest May
- Dario Brandao
- David Bershad
- Mia Polenberg
- David Fabian
- Idalis Fuentes
- Epephanie LaBoy
- Claudia Sanz
- Eliza Dorf
- Jane Schreiner
- Ambrose Proctor
PHOTOGRAPHY
Juliette Richenthal
Aspen Morris
Evan Perry
Sean Speck
Chloe Ginsberg
Iris Phenix
Isabel Pacchiana
Housseynatou Diallo
Grace Wu
Caroline Werner
Cate Hicks
Nishtha Agarwal
Forrest May
Zachary Anisman
Jose Moreno de Los Santos
Keara Page
Aidan Munns
Kavita Trivedi
Ashlesha Bhagat
Madison Mack
Sadie Hill

SCULPTURE
Jayson Bromberg
Jonathan Fischman
Laura Kaso
Athenasia Kytoudi
Issac Levey
Ambrose Proctor
Sara Marencio
Victoria Donatacci
Gabriela Baker
Victoria Davison
Anyerys Diaz Polanco
James Heffernan
Jennifer Lopez
Leslie Quijada
Robert Speck
Lesley Zamora
Qianying Zhu

DIGITAL ART
Claudia Porto
Hades Panlilio
Ashlesha Bhagat
Alissa Tsay
### SESSION I
8:30 a.m. – 10:10 a.m. / Concurrent Oral Presentations

#### KARP 001
**Understanding Challenges in Home-Based End of Life Care**

**Moderator:** Carol Weisse

**8:30 a.m. / Jasmine Choi**
Antidepressant Discontinuation Syndrome Among Hospice Patients in a Residential Care Home Setting

**8:50 a.m. / Maxine Wetzel**
The Role of the Hospice Social Worker in the Care of Individuals with a History of Substance Use

**9:10 a.m. / Meredith Killian**
Phenomenological Analysis of Hallucinations and Dementia Prevalence in a Residential Care Home Setting at the End of Life

**9:30 a.m. / Rosemary Crooker**
Exploring Emotions Near Death in a Social Model Hospice Residential Care Home Setting

**9:50 a.m. / Jasmine Choi**
Oenzinger Scholarship: Patient and Family Advisory Committee (PFAC) at Hometown Health Centers

#### KARP 002
**Body Image, Weight Stigma and Eating Disorders**

**Moderator:** Catherine Walker

**8:30 a.m. / Emily Deyst**
Effect of the Thin-Ideal on Women’s Cognitive Performance

**8:50 a.m. / Kiara Lewis**
Food Images and Attentional Biases related to Eating Disorder Pathology in Nonclinical Sample

**9:10 a.m. / Victoria Avon**
Borderline Personality Disorder, Body Modification, and Emotional Regulation

**9:30 a.m. / Natalia Garcia**
You just have to set your mind to it: How weight controllability beliefs drive weight stigma

#### KARP 103
**History 1**

**Moderator:** Mark Walker

**8:30 a.m. / Grant deBoer**
Propaganda for Peace: Uncovering the Origins, Motives, and Consequences of Public Relations

**8:50 a.m. / Charles Alekson**
Politics, Fear, and Secrecy: A Comparison of the Three Mile Island, Chernobyl, and Fukushima Nuclear Accidents

**9:10 a.m. / Margaret Peterjohn**
The Tricontinental: Revolutionary Cuba’s Attempt to Unite the Global South Through Liberation Movements During the Cold War

**9:30 a.m. / Catherine Lapham**
Art and Medicine: The Influence of Religion on Perceptions of Medicine in Ancient Greece and Medieval Europe

#### KARP 105
**English 1**

**Moderator:** Shena McAuliffe

**8:30 a.m. / Elias Valore-Caplan**
Science and Storytelling: From Enlightenment to Romantic

**8:50 a.m. / Quincy Brown**
Creating Interactive Narratives to Reveal Truths about Death and Dying in Residential Care Homes

**9:10 a.m. / Cassandra DeGeorge**
“The Banks of Binnekill”: The History of the Stockade through Short Fiction

**9:30 a.m. / Alex B. Roginski**
Understanding Narratives in Hospice through Storytelling
### Sociology 1

**MODERATOR: DEIDRE HILL BUTLER**

- **8:30 a.m. / Sarah Dames**
  Teacher Experiences in Various Geographic, Socioeconomic, and Racially Diverse School Districts

- **8:50 a.m. / Mary Gallary**
  The role of empathy in addressing communication disorders among children: The need for Holistic Therapeutic treatment approaches

- **9:10 a.m. / Sophie Chesnut**
  Exploring Immigration Status as a Mechanism of Abuse and its Consequences as a Barrier to Reporting Intimate Partner Violence

- **9:30 a.m. / Amy Aranda**
  Creating Shared Vulnerability and Resistance: The Transformative Impact of Community Organizations on Hispanic Immigrant Women’s Racial Identity Through Intimate Partner Violence & Birth Outcomes

- **9:50 a.m. / Stella Rowley**
  The Making of a Scientist: An Ethnographic Study of Geoscientists in a Liberal Arts College and Beyond

### Economics 1

**MODERATOR: TOMAS DVORAK**

- **8:30 a.m. / Jack Thompson**
  The effectiveness of consumption smoothing: theory vs. practice

- **8:50 a.m. / Ryosuke Hashimoto**
  Do Investors Understand Portfolios with ETFs? Investor Awareness of ETFs’ Contributions to Portfolio Exposure

- **9:10 a.m. / Anton Tatus**
  Valuation of Metso Corporation (METSO.HE, METSO.FH): Arriving at an Enterprise Valuation of a Leading Mining Equipment Manufacturer

- **9:30 a.m. / Mayur Pabba**
  Racial Disparities in Cancer Screening Utilization before and after the COVID-19 Pandemic

- **9:50 a.m. / Nishtha Agarwal**
  The Global Textile Value Chain Transformation: Impact of COVID-19 Lockdown on China’s Dominance and the Shift to Other Asian Countries

### Political Science 1

**MODERATOR: BRADLEY HAYS**

- **8:30 a.m. / Luca Richo**
  Redefining Human Rights in Latin America

- **8:50 a.m. / Katelyn Hirnak**
  The Feminist Legacy of Susan Sontag

- **9:10 a.m. / Grace Stearns**
  Agro-Industrial Complexes: Theorizing the Human Domination of Nonhuman Lives in the United States

- **9:30 a.m. / Peter D’Agata**
  You Need People Like Me: Demonization and Idealization of the Immigrant in the 1932 Film Scarface and its 1983 Remake

- **9:50 a.m. / Giani Digennaro**
  Reimagining Land Management in the Amazon Using Native Techniques
SESSION I
8:30 a.m. – 10:10 a.m. / Concurrent Oral Presentations

ISEC 118
Math and Computer Science
MODERATORS: RYLAN GAJEK-LEONARD AND JEFFREY HATLEY
8:30 a.m. / Olivia Gwinnett
Linear Codes and their Properties
8:50 a.m. / Emily Vasquez
Finding the Relationship between Triangles and the Pythagorean Theorem using Calculus
9:10 a.m. / Mayah Tepitskiy
Elliptic Curves and Diophantine Stability
9:30 a.m. / Uri Tomer
Newton polygons of polynomials composed with Eisenstein polynomials
9:50 a.m. / Diep (Emma) Vu
How can the fast adaptation of cross-accented speech recognition architecture help virtual assistants mitigate racial bias?

ISEC 120
Reproductive Endocrinology
MODERATOR: BRIAN COHEN
8:30 a.m. / Davis Richard
Investigation on the impact of sphingolipid disrupting agents on follicle-stimulating hormone receptor function
8:50 a.m. / Hannah Shames
Investigating the Role of Caveolin in Human FSH Receptor Activity
9:10 a.m. / Morgan Malinow
Mutations in Caveolin Binding Motif Alter Human Follicle Stimulating Hormone Receptor Signaling
9:30 a.m. / Arundhati Gore
Co-immunoprecipitation of the human follitropin hormone receptor (hFSHR) with caveolin
9:50 a.m. / Grace Nicol
Investigating the Role of Beta-Arrestin in Ovarian Hyperstimulation Syndrome

ISEC 124
Chemistry 1
MODERATOR: LAURIE TYLER
8:30 a.m. / Emily Stein
Investigating the Anticancer Properties of Schiff Base Containing Copper Complexes: Synthesis, Characterization, and Biological Activity
8:50 a.m. / Lillian Woods
Structure-Function Studies of Substituted Azoles for Metal Ion Detection in Water: Synthesis, Characterization, and Fluorescence Analysis
9:10 a.m. / Margaret Turck
Photodegradation of Octyldimethyl para-aminobenzoic Acid (OD-PABA or Padimate O) and its Photoproduct Formation
9:30 a.m. / Rubab Raza
Synthesis of Dual CCR5/CXCR4 Inhibitors for HIV Infection
9:50 a.m. / Lani Waggoner
Application of Circular Dichroism Spectrophotometry to Observe Structural Changes in RNA Induced by Binding Interactions

WOLD 225
Aerogels
MODERATOR: MARY CARROLL
8:30 a.m. / Ella Brinkley
Reference materials for use in the evaluation of catalytic aerogels
8:50 a.m. / Christopher Tsouvalas
Quantifying Aerogel Catalyst Usage in Catalytic Converters and Modification of the Union Catalytic Aerogel Testbed
9:10 a.m. / Yenely Payano Lora
Aerogels as Adsorbents: Mitigating the Environmental Impact of Oil Spills
SESSION I
8:30 a.m. – 10:10 a.m. / Concurrent Oral Presentations

9:30 a.m. / Meredith Blinn and Shane Fuhrey
Developing Durable, Aerogel-Based, Superhydrophobic Surfaces for the Purpose of Drag Reduction

9:50 a.m. / Finlay MacDonald
Modeling Aerogels: Structure and Flow Properties

YULMAN THEATER 101 (STUDIO A)

Theater
MODERATOR: ANDREW MANNION

9:30 a.m. / Thomas Raimo
35mm: An Overview of Scenic Design, Set Construction and Performance
SESSION II
10:20 a.m. – 12:00 p.m. / Concurrent Oral Presentations

KARP 001

Health Disparities and Wellbeing among Diverse Populations
MODERATOR: MARLOW GUERRANT
10:20 a.m. / Caroline Kelly
The Psychological Impacts of Hormonal Birth Control Methods
10:40 a.m. / Sriya Baru
Psychological Wellbeing of Hemodialysis Patients: Findings from a Clinic-Based Pilot Study
11:00 a.m. / Elizabeth Bentsianov
Psychological Wellbeing of Hemodialysis Patients: Lessons Learned & Limitations to Survey-based Research for Chronically Ill Populations
11:20 a.m. / Snigdha Narayandas
Generational Transmission of Mental Health Stigma among Asian Americans
11:40 a.m. / Sreehitha Manga
Understanding Developmental Delays in Children and Navigating the Journey of Parental Support

KARP 002

France and Beyond
MODERATOR: CHEIKH NDIAYE
10:20 a.m. / Lydia Singer
Aging: A Study of Cultural Models in France and The United States
10:40 a.m. / Stephen Wong
How Fairy Tales Can be Used to Analyze Culture and Society
11:00 a.m. / Celeste Beaudoin
Unveiling the Shadows: A Comprehensive Analysis of Sports Corruption and Mitigation

KARP 006

Klemm Fellows 1
MODERATOR: MARK DALLAS
10:20 a.m. / Mahek Desai
Klemm Fellowship in Fiji: Learning From the Little Ones
10:40 a.m. / Johanna DiCerbo
Researchers of the Reef: Shark Conservation Efforts in Fiji
11:00 a.m. / Sophia Douglas
Human Rights Activism in Argentina
11:20 a.m. / Ryosuke Hashimoto
The Life and Legacy of Mama Elinurulu: An Organic Farmer from Arusha, Tanzania
11:40 a.m. / Isabella Jenney
When Life Begins: Midwifery in Cusco, Peru
12:00 p.m. / Grace Tang
Klemm Fellowship: A Journey into Mongolian Medicine and Culture

KARP 103

History 2
MODERATOR: ELENA MCGRATH
10:20 a.m. / Alexander Morin
Minerals and Misery: South African Mineworkers and Political Struggle
10:40 a.m. / Michael Stanco
Redefining a Narrative: A Nuanced Understanding of the Effects of Colonialism on Religion in West Africa
11:00 a.m. / Alex Strait
Harry Hopkins: Social Worker, New Dealer, Pragmatist

KARP 105

Researching the Global Ulysses
MODERATOR: KAITLIN STAUDT
10:20 a.m. / Amelia Keese
Songs and the Nation: Music in the Modernities of Ulysses, Berlin Alexanderplatz, and A Mind at Peace
10:40 a.m. / Benjamin Stern
Ivy Day in the Archive Room
11:00 a.m. / Annabella Schiavi
Language As a Means of Infantilization in James Joyce's “Nausicaa”
11:20 a.m. / Sarah Murphy
Ulysses and Colonialism: Mapping Colonial Networks through Beauty Trends in Ulysses
SESSION II
10:20 a.m. - 12:00 p.m. / Concurrent Oral Presentations

LIPPMAN 012
The Power of Reflection: Stories of U
MODERATOR: JOSEPH JOHNSON
10:20 a.m. / Jonathan Rust
Mind Over Matter: The Mental Game of Student-Athletes
10:40 a.m. / Viola Li
Story Presentation: Sunny Side Up
11:00 a.m. / MacKenzie Black
I Fell Down, But I Survived

LIPPMAN 014
Women in Ancient Rome
MODERATOR: STACIE RAUCCI
10:20 a.m. / Mariel Silpe
Caesia: A Nanny in Ancient Rome
10:40 a.m. / Allison Shelley
Tyche: A Roman Prostitute
11:00 a.m. / Claire Braaten
Hapate: A Stenographer in Ancient Rome
11:20 a.m. / Clare Reilly
A Flute Player in Ancient Rome

LIPPMAN 016
Economics 3
MODERATOR: STEPHEN SCHMIDT
10:20 a.m. / Benjamin Tichner
How Does the Legalization of Recreational Marijuana Affect Alcohol Consumption in the United States?
10:40 a.m. / Leslie Quijada
First in The Race, Last to Win: Investigating the Role of Parents' Education on First-Generation and Continuing-Generation College Student's Financial Literacy
11:00 a.m. / Sutirth Mannikeri
Rested Resident Physicians: The effects of duty-hour reforms on all-cause-in-hospital mortality

LIPPMAN 017
Sovereignty and Security: The West Wrestles with Difficult Challenges
MODERATOR: ROBERT HISPOLOPE
10:20 a.m. / James O’Haire
Where Did it All Go Wrong? An Analysis of Russian Relations with Western Nations
10:40 a.m. / Brooke Fleming
Secure and Control: The Illegitimacy of the European Union’s Immigration and Border Control Policies during the Migration Crisis

LIPPMAN 101
Environmental Studies 1
MODERATOR: ANDREA FOROUGHI
10:20 a.m. / Zachary Davis
Biophilic Design: Using International Inspiration to Increase Sustainable Building Practices in the United States
10:40 a.m. / Genevieve Goldstein
Water Insecurity in The Navajo Nation: Analyzing the Failure to Implement Policy on Water Rights at the State and Federal Level
11:00 a.m. / Peter Kip
The Integration of Indigenous Principles into Environmental Legislation
11:20 a.m. / Thomas Schrader
The Search for a Sustainable Agricultural Alternative: Lessons in Conservation and Land Management from Indigenous Bolivians in Amazonia

ISEC 118
Biomedical Engineering and Imaging
MODERATOR: SHANE COTTER
10:20 a.m. / Nicole Turpin
Smoke Evacuation Attachment for Electrocautery Pens
10:40 a.m. / Jack Anderson and Ashley Pontillo
Analysis of the Effects of Osteoarthritis on the Thumb CMC Joint using Surface Electromyography
11:00 a.m. / Nicholas Gellich
Creating 3D Models from 2D Ultrasound Imaging
SESSION II
10:20 a.m. - 12:00 p.m. / Concurrent Oral Presentations

ISEC 120

**Obesity: Science and Medicine**
**MODERATOR: BRIAN COHEN**

**10:20 a.m. / Allison Smith**
Investigating the Association of Cortisol Hypersensitivity Single Nucleotide Polymorphisms with Metabolic Syndrome

**10:40 a.m. / Kaitlyn Ehmann**
Investigating the Role of Genetics in the Successful Outcome of Bariatric Surgery

**11:00 a.m. / Ryan Davis**
Cost Analysis of Four Sleeve Gastrectomy Techniques: A Single Institution Retrospective Study

ISEC 124

**Biochemistry**
**MODERATOR: KRISTIN FOX**

**10:20 a.m. / Katelyn Hirnak**
Investigation of Autoproteolytic Cleavage in Schizophyllum commune Type Ia Metacaspases

**10:40 a.m. / Morgan Truesdell**
Investigating the Calcium Binding Mechanism of Schizophyllum commune Type Ia Metacaspases Using Circular Dichroism Spectroscopy

**11:00 a.m. / Devin Batheja and Kyra Lum**
Robust and direct synthetic method for potential S. commune metacaspase inhibitors

**11:20 a.m. / Christian Carrigan**
Chronic Blood-Brain Barrier Damage Following a Traumatic Brain Injury: A Role for the Inflammasome?

WOLD 128

**Geosciences**
**MODERATOR: ANOUK VERHEYDEN-GILLIKIN**

**10:20 a.m. / Stella Rowley**
Northern Red Sea Coral Reveals Multidecadal Variability in Surface Water Conditions Linked to North Atlantic Climate Since 1743

**10:40 a.m. / Nikola Newcomer**
Unearthing the Impact: An Analysis of El Nino Flood Events Recorded in Andean Lake Cores and Their Socioeconomic Implications

**11:00 a.m. / Katie Boermeester**
Macroalgae as a Proxy for Organic Pollution along the Coast of Japan

**11:20 a.m. / Louis Aquino**

**11:40 a.m. / Devin Snyder**
Characterizing Rice Crop Hydrologic History and Implications for Arsenic Uptake Through the Use of Stable Isotopes and Remote Sensing

WOLD 225

**Sigma Xi Nominees**
**MODERATOR: TIMOTHY BARNUM**

**10:20 a.m. / Rachel Bryan**
Olivine Diffusion Chronometry Reveals Rapid Ascent Rates and Complex Eruptive History of Rangitoto, Auckland Volcanic Field, New Zealand

**10:40 a.m. / Allison Malatesta**
Analyzing Street Tree Diversity Over Discriminatory Districts in Schenectady

**11:00 a.m. / Anyerys Diaz**
Breaking symmetry during initiation of the spiral intestine in Leucoraja erinacea

EMERSON AUDITORIUM

**Music**
**MODERATOR: JENNIFER MATSUE**

**10:20 a.m. / Jackson Janney**
Classical Composition: A Musical Journey

**10:40 a.m. / Rafael Murillo**
The Design and Construction of The Guitoma

**11:00 a.m. / Mark D’Alessandro**
DIY or Die?: Uncovering Authenticity and Inclusivity in The Capital Region DIY Music Scene

**11:20 a.m. / Yutong Wu**
Xiaoheluogu
The Templeton Institute’s “Great AI Debate” at Steinmetz 2024

OLIN AUDITORIUM

11:30 a.m. - 12:30 p.m.

The aim of this session is to showcase the varied impacts of Artificial Intelligence on higher education. We will explore this topic in the context of Union’s liberal arts model of education, which emphasizes the technical aspects and humanist aspects of a topic like AI in equal measure. We will hear faculty and student perspectives on issues such as the ethics around AI, philosophical aspects of machine intelligence, and the use of AI technology to solve complex problems. The participants have been selected by the Co-Directors of the Templeton Institute to showcase diverse views on AI at the College. This event brings together short (five-minute) lightning talks on these topics with roughly a half-hour discussion among panelists and with the audience. Panelists will include faculty and students from across campus with expertise in Computer Science, Philosophy, and other disciplines.

All are welcome to attend and join the conversation.
SESSION III
12:30 p.m. – 1:50 p.m. / Posters and Team Displays

Team Displays

**WOLD**

**Union College Robotics Crew Micromouse Demos**
**Baja SAE Team Display**
**SAE Aero Micro Team Display**

**WOLD ATRIUM**

**Posters: Natural Sciences and Engineering 1**

**Jake Karp**
Expression and Purification of a Type II Metacaspase from S. Commune

**Vaishali Srinivasan**
Analyzing Methods to Determine Binding Between Small Molecules and the G-Quadruplex Structure in Precursor MicroRNA

**Elma Dema**
Calibration of the Fluorescence Signal for Metacaspase Activity Assays

**Aarón Carretero Benites**
Confocal Benchmarking of Human Mesenchymal Stromal Cells in 3-Dimensional Hydrogels

**Victoria Avon**
Muscle Differentiation and Vilification in the Skate Spiral Intestine

**Khadija Amir**
Understanding the role of sexual selection in speciation by studying the secondary sexual traits of the Drosophila Athabsca species

**Talia Marc**
Examining Left-sided Signaling in the Spiral Intestine of the little Skate

**David Dombrovsky**
An Analysis of Trends and Disparities in Glaucoma Prevalence and Disability Impact in The United States

**Chau Tran Minh**
Regulating Interparticle Gap Distances in Peptoid Nanosheets by Modifying Gold Nanoparticle Surface Ligands

**Raquel Duenas**
Assembly and properties of peptoid nanosheets formed with 10-nm gold nanoparticles functionalized with either polystyrene or octadecanethiol ligands

**Nora Kliczewski**
Valorization of waste solvents and reagents from the chemical recycling of postconsumer plastics: A step towards a green circular economy

**Shams Qureshi**
Functionalized Gold Nanoparticle (AuNP) embedded peptoid nanosheets: Tuning the packing density of nanosheets by altering ligand length via exchange

**Caroline Monaco**
Sorption of Per- and Polyfluoroalkyl Substances (PFAS) to Organic Material as an Environmental Remediation Strategy

**C’Ianny James**
Incorporating Octanethiol-functionalized Gold Nanoparticles into the Interior of Bilayer Peptoid Nanosheets

**Nathan Riordon**
Chirped-Pulse Fourier Transform Microwave Spectrometry: Assembly and Application

**Shayna Kantor**
Analyzing the Formation of Plasmonic Peptoid Nanosheets using a Langmuir Trough

**Linnea Tix**
Perfluorooctanesulfonic acid (PFOS) Uptake into Wheatgrass Microgreens

**Anthony Condemi**
New Catalytic Approaches for Wittig Synthesis with Tertiary Amides

**Jules Squissato**
Synthesis of Disubstituted Thioureas for use in low-temperature Preparation of Monodisperse ZnS Quantum Dots
SESSION III
12:30 p.m. – 1:50 p.m. / Posters and Team Displays

Rhianna R. Candido
A demonstrating application of a single-step chemical recycling approach of postconsumer plastic waste into high quality products

Alexandra Nicolaus
Design of a Safer Trocar for use in Primary Port Insertion in Laparoscopic Surgery

Katherine Robinson
hMSC Viability and Immunomodulatory Factor Production between Polymer Batches and Varying Weight Percentages

Nicholas DeBaise
TinyML to Predict Occupancy Levels Using Microcontrollers

Timothy McGarry
The Effect of Tanning Oil on Normal Dermal Fibroblast Viability

Joseph Cirksey
PV Module Power Output Forecasting

Taryn LaFontaine
The Effect of Ovarian Hormone Concentrations on the Gastrocnemius and Soleus Muscle Activation

Vasileios Megas
Application of 1D Non-autonomous Chaotic System Synchronization for Bistatic Radar System

Maia Carty
Green roofs Selection Guide

Andrew Bassuk
Urban Farming: A solution to agricultural problems?

Sarah Unger
Understanding the Peruvian Andean paleoclimate through stable isotope analysis of speleothems

Andrea Kaufer
A Tale of Two Floods: Comparing peak discharges of the 1918 and 2022 Northern Yellowstone National Park Floods

Emma Phillips
Water Quality of the Kromme Kill and Collins Lake System, Scotia and Glenville, New York: Impairment Due to Septic Failure and Salinization

Alexander Forsyth
Karst hydrological control on oxygen isotope variability of cave drip water: a regional cave monitoring study from the Peruvian Andes

Maxwell Rhodes
Design and Optimization of a S.A.E. Baja Suspension

Jeffrey Kent
Baja Racing 2024 Roll Cage Design and Analysis

ISEC (LOWER LEVEL)

Posters: Natural Sciences and Engineering 2

Ashlesha Bhagat
Grouping the Selective Way—Context Sensitive Selective Model

Kurt Mahlke
Design of a Solar Water Pasteurization System

John Quaintance
Simulation of Heat Transfer in Catalytic Converters to Mitigate Modern Automobile Pollution

Tristen Kemp
Fabrication of Phosphorescent Aerogels

Jesse Jerome-Wrenn
Bio-Inspired Jumping Robot

Anthony Ruzzo
“Improved” Cookstoves Research at Union

Antonio Griffin
Design and Manufacturing of Desktop Case with Optimal Cooling Strategy

Zachary Kalb
A Window Into a Greener Future

Aidan Donnelly
Effect of Plasma Treatment on the Structure of Graphene Oxide Membranes and its Potential Water Treatment Application
SESSION III
12:30 p.m. - 1:50 p.m. / Posters and Team Displays

**Rafael Murillo**  
The Design and Construction of The Guitoma

**Matthew Epstein**  
Understanding the Auxetic Structure of Graphene Oxide

**Dylan Robichaud**  
Lingo Land—Language Practicing Chat Website

**Olivia Logan**  
Ion Beam Analysis of Zircon With Application to Earth Science

**Elizabeth-Veronica Crowley**  
Protoplanetary Disk Simulations with the Hall Effect

**Gavin Wright**  
Photometric Analyses for Two Koronis Family Asteroids

**Kali Jauregui Morris**  
Coarse Grained Molecular Simulations of DNA Condensation in the Presence of Cobalt Hexamine

**Adrian Ring**  
Phase Relations of Potassium Chloride Solutions With Relevance to Europa

**Ann Zhang**  
Compositional Analysis of Phage phi29 Capsid and its Effect on DNA Packaging

**Alexia Goldenberg**  
Verification of a TESS Object of Interest (TOI) Exoplanet Candidate with Remote Telescopic Observations

**Niha Das**  
Analyzing the $\pi^+\pi^-\pi^0\pi^0p$ Final State at GlueX

**Eduardo Castro**  
Lightcurve and Period Insights for Koronis Family Asteroid (2092) Sumiana

**Jayson Bromberg**  
Spin Density Matrix Elements for the $\phi(1020)$ Meson at GlueX

**Joshua Hiller**  
Development a GUI for Single Photon Experiments Using Type-I and Type-II Spontaneous Parametric Downconversion

**Hades Panlilio**  
MotMaison: Educational Video Game Design for Language Learning

**Collin Harrington**  
Improving Competition Chess Sets: Automatic Score Sheets

**SCHAFFER LIBRARY**

**Humanities, Social Sciences, and Health Sciences**

**Allison Shelley**  
Ovid's Ars Amatoria: Female Instruction and Construction in Augustan Rome

**Sophia Douglas**  
Comparing Abortion Politics in the US and Mexico

**Stephen Barbelet**  
Investigating Creativity: Influence of Emotional States on Divergent and Convergent Thinking

**Qianying Zhu**  
Problem Solving and Analogical Transfer

**Ava Hubert**  
Assessing Student Use and Perceived Credibility of Artificial Intelligence Platforms

**Sean Laragy**  
A Neuropsychological Systematic Review on Cognitive Processing Therapy: The Golden Standard for Post Traumatic Stress Disorder Intervention

**Ashley Dell’Oso**  
Perceived Levels of Class at Elite Institutions
SESSION III
12:30 p.m. – 1:50 p.m. / Posters and Team Displays

Mahek Desai
Traditional Biomedical Model of Childbirth vs. Humanized Care: Epidemiology of Neonatal Birth Injury

Allyson Bennett
You: Pictures of Union Students, Athletes, and Leaders on Campus

Ambrose Proctor
Playing With Nature

Cassidy Careccia
Promoting Sustainable Energy Futures: Impact of Boardroom Diversity on Renewable Energy Use

Dimitrios Binopoulos
An Empirical Analysis of Executive Compensation and Firm Performance in Greece

Grace Beazoglou
Greece’s Financial Crisis of 2015

Calvin Schneider
The Effect of the 2016 NFL Anthem Protests on Game Attendance and Ticket Price

Dionis Polanco
Assessing the Impact of Economic Diversity and Education On Student Achievement

Liam McGovern

Lily van Baaren
The Hidden Medieval at the Metropolitan Museum of Art

Mridula Shanker
Cultural Competence and Health Literacy: Bridging Healthcare Disparities in Schenectady, New York
SESSION IV
1:50 p.m. - 3:30 p.m. / Concurrent Oral Presentations

KARP 001

Psychology
MODERATOR: JOSHUA HART AND CAMERON KAY
1:50 p.m. / Kayla Shapiro
An Examination of Effective Motivational Techniques among Patients with Major Depressive Disorder and a Guide to Treatment
2:10 p.m. / Ella Tycz
The Effect of Chronic Illness on Self-esteem as a Function of Perceived Social Support
2:30 p.m. / Ian Gray
The Effects of Bogus Feedback on Self-Efficacy in Grandiose and Vulnerable Narcissism
2:50 p.m. / Tam Vu Chi
Stitching Social Stigmas: The Threads Between Fashion Advertising and Modern Racism

KARP 105

English Honors Theses 1. Human Connections and Confrontations: Creative Theses in English
MODERATOR: PATRICIA WAREH
1:50 p.m. / Laura Matthew
Helena Sophie
2:10 p.m. / Kevin Ha
Becoming a Supernova at the End of the World
2:30 p.m. / Jonah Levin
Expedition: Nisi Futurum by Jonah Levin

LIPPMAN 012

Sociology 2
MODERATOR: DAVID COTTER
1:50 p.m. / Grace Tang
Central Role of Traditional Mongolian Medicine in Mongolia’s Current Healthcare System
2:10 p.m. / Jason D’Amico
Comparing the Campus Characteristics Contributing to Sexual Assault Reporting Rates and the Efficacy of Data Collection Strategies at Union College and Beyond
2:30 p.m. / Eastwood Yeboah
Increasing Mental Healthcare Accessibility Within Marginalized Communities
2:50 p.m. / Glory Moncion Allen
The Intersectional Lens: Exploring First-Generation Experiences and Its Impact on Sense of Belonging and Academic Success in Predominantly White Institutions
3:10 p.m. / Charles McVicker
Becoming ᎠᎣᏣᏪᏲ (real people) at GWY ልᎣᎣᎣᎣ (the Cherokee Language Immersion School)
SESSION IV
1:50 p.m. – 3:30 p.m. / Concurrent Oral Presentations

LIPPMAN 014

Classics 1
MODERATOR: STACIE RAUCCI

1:50 p.m. / Oliver Taylor
Classifying Pottery Fragments by Decorative Technique
Using a Convolutional Neural Network

2:10 p.m. / Nicole Marcin-Van Meter
Literary and Visual Depictions of the Egyptian Goddess
Isis in the Hellenistic and Roman Imperial Periods

2:30 p.m. / Christopher Galiano
The Ballad of Hesiod: Putting the Author into the Myth

2:50 p.m. / William Grimwood
The Parthenon through Time: Cost and Value

3:10 p.m. / James Hogan
The Knight And The Legionnaire: Heavy Armor In Use
a Millennium apart

LIPPMAN 017

Political Science 2
MODERATOR: GUILLERMINA SERI

1:50 p.m. / Gregory Melchior-Fisher
The Capital of Democracy: A Comprehensive Case for
D.C Statehood

2:10 p.m. / Owen Harrison
The Promise of Living Well: Buen Vivir as a Global
Alternative to Neoliberal Development and Extractive
Capitalism

2:30 p.m. / Elaine Fryer
Improving Public Health Through Litigation: Evaluating
the National Opioid Settlements and Their Potential
Impact on Abating the Opioid Epidemic

2:50 p.m. / Lucy Mastrianni
From Beliefs to Ballots: Environmental Opinions’ Impact
on Voting Behaviors in the United States

3:10 p.m. / Aurore Lambert
The Social, Economic, and Political Determinants of
Health: The Role of Political Factors on Racial Health
Inequality During the COVID-19 Pandemic

LIPPMAN 101

Environmental Studies 2
MODERATOR: ASHRAF GHALY

1:50 p.m. / Grace Parini
How Indigenous Knowledge of Forests and Landscape
Benefit the Earth and Humanity: Policy Change Can Allow
for Greater Native Involvement in Management of Federal
Lands Considering Fire as a Tool

2:10 p.m. / Audrey Larson
Rising Tides and Vulnerability Disparities: A Comparative
Exploratory Analysis

2:30 p.m. / Sebastian Graber-Adamsons
Understanding the Effects of Changes in Airborne
Particulate Matter Concentrations on Human Health
in the USA

ISEC 118

Physics and Computer Science
MODERATOR: MATTHEW ANDERSON

1:50 p.m. / Manav Bilakhia
Improving the Hydra Classifier for Data Quality Monitoring
at GlueX

2:10 p.m. / Ryan Petrauskas
New Synodic Rotation Periods for Koronis Family Asteroids
(2470) Agematsu and (3856) Lutskij

2:30 p.m. / Khai Dong
A Survey into Lower Bounding Cohn & Umans Matrix
Multiplication
SESSION IV
1:50 p.m. - 3:30 p.m. / Concurrent Oral Presentations

ISEC 120

**Biology 1**

**MODERATOR: STEPHEN HORTON**

**1:50 p.m. / Veronica Turek**
Assessing Mycelial Growth Potential: CRISPR Mediated Double Knockout of Ethylene Receptors ETR1 and ETR2 in Ganoderma sp.

**2:10 p.m. / Ethan Romero**
Using CRISPR to edit the gene LFC1 in the mushroom-producing fungus Ganoderma

**2:30 p.m. / Sivagouzia Sivarajah**
Assessing Fungal Response to Stressors after Tardigrade Gene Transformation

ISEC 124

**Lyme Disease Vaccines**

**MODERATOR: STEPHANIE CURLEY**

**1:50 p.m. / David Krimer**
Outer Membrane Vesicles-Based Vaccine Platform Against Lyme Disease

**2:10 p.m. / Yasmin Torres**
Surface exposed antigen OspA as a biological nanoparticle for Lyme disease vaccine delivery

**2:30 p.m. / Bennett Beaulieu**
Investigation of Recombinant Protein Lyme Disease Vaccine Using OMVs

**2:50 p.m. / Chau Tran Minh**
Crosslinking Outer Membrane Vesicles of Gram-negative bacteria for developing Lyme Disease Vaccine

WOLD 225

**Nanomaterials**

**MODERATOR: YIJING STEHLE**

**1:50 p.m. / Braman Cronin**
Applications and Optimization of Laser Reduced Graphene Oxide Aerosol Sensors

**2:10 p.m. / Elias Valore-Caplan**
Effects of Fabrication Environment Humidity on Graphene Oxide Membranes

**2:30 p.m. / William Zimmer**
Synthesis, Purification, and Heavy Metal Fluorescence Quenching of ZnS Quantum Dot Derivative Systems

**2:50 p.m. / Nolan Randall**
Thin Film Formulation of an OMV Vaccine
SESSION V
3:40 p.m. – 5:20 p.m. / Concurrent Oral Presentations

**KARP 001**

**Health Professions**
**MODERATOR: JOANNE FITZGERALD**

**3:40 p.m. / Alexander Ottavio**
Impact of Increased Hospital Utilization During COVID-19 Pandemic on Financial and Operational Pressures for Hospitals and Health Systems

**4:00 p.m. / Viraj Brahmbhatt**
Assessing ChatGPT as a patient education tool for Diabetes Mellitus patients.

**4:20 p.m. / Sathvik Narayana**
Quantifying Heterogeneity in Phase III Oncology Clinical Trials

**4:40 p.m. / Caroline Stanton**

**5:00 p.m. / Jenna Meshcon**
Carrier Status & Antibiotic Susceptibility of Staphylococcus aureus among Healthcare and Non-Healthcare Workers

**KARP 002**

**Neuroscience**
**MODERATOR: CAY ANDERSON-HANLEY**

**3:40 p.m. / Clara LaCorte**
Attention Intervention: Neuro-exergaming for ADHD with iPACES in a college sample

**4:00 p.m. / Mya Delesdernier**
Executive Function: Neuro-exergaming for ADHD with iPACES in a college sample

**4:20 p.m. / Tessa Thomas**
Cognition and Per- and Polyfluoroalkyl Substances (PFAS): Older Adult sample from the NHINES trial

**4:40 p.m. / Ummi Coats**
The Role of Valence and Speaker Identity in False Hearing

**5:00 p.m. / Molly Rusgrove**
Assessing the Immediate Effect of Transcutaneous Auricular Vagus Nerve Stimulation (taVNS) on the P300 Event-Related Potential Across Modalities

**KARP 006**

**Klemm Fellows 2**
**MODERATOR: MARK DALLAS**

**3:40 p.m. / Shivani Modi**
A Reality Check: Case Studies of Cambodian Healthcare

**4:00 p.m. / Margaret Peterjohn**
Klemm Fellowship: Wildlife Conservation in Patagonia, Argentina

**4:20 p.m. / Rubab Raza**
Beyond Borders: Exploring Nepal’s Healthcare System

**4:40 p.m. / Sivagouzia Sivarajah**
A Glance into Sri Lankan Healthcare: Inside the Homes and Hospitals of Colombo

**KARP 105**

**English Honors Theses 2. Human Debates and Transformations: Critical Theses in English**
**MODERATOR: PATRICIA WAREH**

**3:40 p.m. / Sophie Ruhl**
Rethinking Athletics Through a Feminist Lens

**4:00 p.m. / Noa Shevchuk**
Mary Shelley and the Vitality Debate

**4:20 p.m. / Tessa Fountain**
Ovid and Shakespeare: Allusion to Roman Myth in a Midsummer Night’s Dream and Romeo and Juliet
SESSION V
3:40 p.m. – 5:20 p.m. / Concurrent Oral Presentations

LIPPMAN 017

Political Science 3
MODERATOR: SALIL BENEGAL
3:40 p.m. / Ryan Cudworth
Movement and Sovereignty: The Separation Wall and the Denial of Palestinian Statehood

4:00 p.m. / Kyle Patlove
Return to Sender: The Rise and Fall of the Right to Claim Asylum in the United States

4:20 p.m. / Jeremy Schmelkin
Religiosity and Politics: The Evangelical, Mormon, Jewish and Quaker Theological Stance on Reproductive Rights, LGBTQIA+ Rights and Racial Relations

4:40 p.m. / Ayah Osman
Discovering And Applying Black Self-Concept Theory

ISEC 120

Biology 2
MODERATOR: JEFFREY CORBIN
3:40 p.m. / Viola Li
Pheromones’ Influence on Speciation in the Athabasca Complex

4:00 p.m. / Khai Ton
Proteomic Discovery Comparison Between CLN3 and NPC1

4:20 p.m. / Nima Darafshi
Unraveling the Mystery of Prey Tracking in Bearded Dragons: A Study in Smooth Pursuit

4:40 p.m. / Ryan Nowak
Assessing Efforts to Control Giant Hogweed in New York State

5:00 p.m. / Johanna DiCerbo
The Effects of Robinia pseudoacacia Removal on Soil Nutrient Concentrations in the Albany Pine Bush

WOLD 225

Mechanical Engineering
MODERATOR: WILLIAM KEAT
3:40 p.m. / Brinton Roberts
Design and Testing of an Unmanned Hydrofoil Prototype

4:00 p.m. / Bailey McAtee
Volumetric Flow Measurements Surrounding Sheltered Finite Circular Cylinders with Varying Spanwise and Streamwise Offsets

4:20 p.m. / Mohamed Kaid
3D Turbulent Flow Measurements Over Rigid and Flexible Isolated Roughness Elements

4:40 p.m. / Minh Nguyen
Effects of Multiple Interacting Cracks on Rates of Fatigue Crack Growth

5:00 p.m. / Aidan Parente
Effects of Local Convection of Flow Over Periodic Roughness

5:20 p.m. / Zachary Panlilio
Turbulent Boundary Layer Over Cylindrical Roughness: 2D PIV Measurements
Signatories (Excerpt)
Choreography: Megan Flynn, in collaboration with the dancers
Music: Weight of a Nation by Danny Mulhern
Performers: Mel De La Cruz, Sarah DeRosa, Livi Gwinnett, Emily Tobar

Invitation (Excerpt)
Choreography: Laurie Zabele Cawley
Music: Fugato by Astor Piazzolla, Katheryn Stott & Yo-Yo Ma
Performers: Sarah Dames, Sarah DeRosa, Ava DuBoff, Livi Gwinnett, Grace Newcombe, Alexandra Nicolaus, Lydia Singer, Sage Stinson

Whispered Flight
Choreography: Laurie Zabele Cawley
Music: String Quartet No. 3 “Mishima” VI by Philip Glass
Dancers: Sarah Dames, Alexandra Nicolaus, Sage Stinson

ÉCOUTEZ!
Choreography: Eva Crowley
Music: Amour, Haine, et Danger by Angèle
Performers: Rachel Bryan, Maggie Buckley, Eva Crowley, Grace Newcombe, Thomas Raimo, Marielese Robillard, Abby Wilder

KAU Crew: Steinmetz 2024 K-Pop Medley
Choreography: Pheary Kang, Vaishali Srinivasan, Aydana Djoreeva, Ashlesha Bhagat, Hades Panililo (modified original choreography by Team Same Jidae, C.A.P.T Terry, Enhynen Ni-ki, Kany, and Sienna Lalau)
Music: Cheers by Seventeen, Untie by Vivix, Bite Me by Enhynen, ON by BTS
Performers: Nishtha Agarwal, Ashlesha Bhagat, Mahek Desai, Aydana Djoreeva, Paige Fox, Pheary Kang, Hades Panililo, Vaishali Srinivasan

Afrobeat Battle: South vs West
Choreography: Ishika Chourasia, Vivian Escobar, Veronah Najjuuko, Makeda Wallace
Music: Kupe Dance by A Star, Nesessari by Kizz Daniel and Philekeys, Plan 2 by Major keys, Yuppe and Ceehle, Funk 55 by Shakes & Les, DBN Gogo, Zee Nxumalo Ft. Ceeka RSA and Chley, To Ta To by Bayanni
Performers: Najma Abdi, Dulce Barrios Lopez, Ishika Chourasia, Vivian Escolar, Veronica Lopez, Wellington Matos, Keshawn Mcclarence, Jennifer Mendes, Veronah Najjuuko, Alicia Rose, Sofia Steele

3 in the Morning
Choreography: Grace Newcombe
Music: I Lived by OneRepublic
Performers: Eva Crowley, Mel De La Cruz, Grace Newcombe

Dance Team
Choreography: Sofia Cresta and Lydia Singer
Music: Disco Inferno by The Trammps
Performers: Maya Acampora, Faith Burroughs, Maia Carty, Sofia Cresta, Sarah Dames, Paige Fox, Hannah Kimball, Caitlin Lesage, Alexandra Nicolaus, Lizzy Paykuss, Lydia Singer, Anabel Sollinger, Anna Zusi

Up On Top Of The World
Choreography: Eva Crowley
Music: Mission To Moscow by Benny Goodman
Performers: Eva Crowley and Grace Newcombe

Natyashastra: The Spectacle of Art
Choreography: by Vaishali Srinivasan
Music: Mix by Vaishali Srinivasan
Performers: Priya Baru, Sienna Chambial, Sreehitha Manga, Snigdha Narayandas, Vaishali Srinivasan & Sujay Vundavalli
**Sabor Latino, Con Amor y Ritmo**

**Choreography:** Dulce Barrios, Merari Rios Tovar, Melanie De la Cruz, Tony Gonzalez, Greg Chapkis

**Music:**
- *24 horas* by 24 horas
- *Abusadora* by Oro Solido
- *Dale Don Dale* by Don Omar, *Con Calma* by Daddy Yankee, Snow, *Where She Goes* by Bad Bunny

**Performers:** Ariela de la Villa Irizarry, Aavasna Rupakheti, Dulce Barrios, Edgar Pastran, Emily Tobar, Jayce Jasso, Jennifer Mendez, Keidy Molina, Melanie de la Cruz, Merari Rios Tovar, Raquel Duenas, Veronica Lopez, Vivian Escobar

**Doom Song**

**Choreography:** Eva Crowley

**Music:** *If You Love Me (Really Love Me)* by Brenda Lee

**Performers:** Jolita Brettler and Brian Rusk

**We Call the Shots**

**Choreography:** Mahek Desai and Nishtha Agarwal

**Music:** *Bitch Better Have my Money* by Rihanna, *Redrum* by 21 Savage, *Hey Mama* by David Guetta, Bebe Rexha, Nicki Minaj

**Performers:** Abby Wilder, Ashlesha Bhagat, Aydiana Djoroeya, Beatrice Ogden, Daniel Buletza, Karmen Gill, Mahek Desai, Maryam Tariq, Maya Mitra, Nathan Ramachandran, Nishitha Agarwal, Paige Fox, Pheary Kang, Rachel Bryan, Sienna Chambial, Suka Nyugen, Vaishali Srinivasan, Zayna Shaikh

**Nineteen Years: Featuring The Class Of 2024**

**Choreography:** Eva Crowley

**Music:** *Nowhere To Go But Up* from the Mary Poppins Returns Soundtrack

**Performers:** Rachel Bryan, Maia Carty, Eva Crowley, Sarah Dames, Mel De La Cruz, Ava DuBoff, Liv Gwinnett, Claire Knecht, Adriana Lawton, Grace Newcombe, Alexandra Nicolaus, Lydia Singer, Sage Stinson, Abby Wilder

**Bhangra: A Trip Back in Time**

**Choreography:** Vaishali Srinivasan, Nishtha Agarwal, Armaan Uppal


**Performers:** Kshitij Agarwal, Nishtha Agarwal, Sreehitha Manga, Snigdha Narayandas, Mayur Pabba, Trisha Panse, Priya Patel, Sohan Shah, Zayna Shaikh, Vaashali Srinivasan, Grace Tang, Atharv Tekurkar, Kavita Trivedi, Armaan Uppal, Sujay Vundavalli

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“**It’s not merely a showcase of skill, but a testament to the power of dance to transcend barriers and forge bonds, enriching the fabric of our campus community.**”

—Laurie Zabele Cawley, Assistant Director of Dance

“**The Nott is such an incredible venue to experience live dance performance because the energy between the audience and performers fills the entire building. Steinmetz is truly a celebration of the diversity of dance offerings at Union and our community of artist-scholars!**”

—Megan Flynn, Director of Dance

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**The Dance Program would like to thank:**

**OUR SPONSORS**

- Mrs. Joan and Mr. David L. Henle
- William E. and Anna S. Lothridge 1879 Fund
- Charles D. Lothridge ‘44 / Edward Villella Fellowship
- Dr. Gus Davis 1959 and Mrs. Sue Davis / The Stephanie C. Davis Dance Residency
- The Gail and Carl George Annual Fund

**COLLABORATORS**

- Megan Flynn / Gustave L. Davis ‘59 & Susan S. Davis Director of Dance
- Drew Bodd / Technical Director
- Brittney Belz / Costume Coordinator
- Robin MacDuffie / Scene Shop Foreman
- Claire Knecht / Stage Manager
- Arts Administrators / Victoria Rotondi and Charlie Jones
- Work Study / Eva Crowley, Mel De La Cruz, Grace Newcombe

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A TRADITION AND A CELEBRATION UNION COLLEGE 25
2024 SPRING CONCERT: BON VOYAGE
Friday, May 10 / 8:00 p.m. / Memorial Chapel

DIRECTOR: PROFESSOR JIN BYUN

Union College Chamber Singers

Ubi caritas
Kronstorfer Messe, WAB 146
I. Kyrie
II. Sanctus
III. Benedictus
IV. Agnus Dei
Locis Iste
Besame Mucho

M.J Tortta
A Bruckner

Union College Choir

Two Excerpts from the Requiem
Arirang

Jackson Jannay ‘24
Hyo-won Woo

Union College and Community Orchestra

Piano Concerto No. 20 in D minor, K. 466
II. Romanze
III. Rondo, Allegro assai
Grace Yu Tong Wu ’25, soloist

L’arlesienne suite no.2
I. Pastorale
II. Intermezzo
III. Minuet
IV. Farandole

W.A. Mozart
Georges Bizet

Union College Choir,
Union College Chamber Singers
and Union College Community Orchestra

The City from Sunrise Mass

Ola Gjeilo

Grace Yu Tong Wu, the class of 2025, will be performing as a soloist for the Union College and Community Orchestra. She will be playing Piano Concerto No. 20 in D minor, K. 466 by W.A. Mozart with Union College and Community orchestra.

Jackson Janney, the class of 2024, will be premiering two of his compositions, which include excerpts from the Requiem by Union College Choir.
2024 STEINMETZ CONCERT
Saturday, May 11 / 11:00 a.m. / Fred L. Emerson Foundation Auditorium, Taylor Music Center

DIRECTOR: PROFESSOR TIM OLSEN

Union College Jazz Ensemble
and Latin Percussion Workshop

Sunny
Boogie Woogie Bugle Boy
Misty
Coming Home Song
Cómo Fué
Blues Walk
Simplicidad
Isn't This a Lovely Day
Ain't Got No Home
Vienna
Moanin'

CLARINET
Jonathan Deitchman '27
Bobby Hebb
Raye Prince
Errol Garner
Bowers/Leet
Ernesto Duarte Brito
Clifford Brown
Tim Olsen
Irving Berlin
Clarence “Frogman” Henry
Billy Joel
Charles Mingus

SAXOPHONE
Lauren Coletti ’27
Peter D’Agata ’25
Ethan Lampert ’22
Kavi Mathur ’26
Owen Shultz ’27

TRUMPET
Tessa Klimowicz ’26
Tyler Weissinger ’25
Oliver D’Anna ’26
Art Duncan
Chris Tompkins ’27

TROMBONE
Ryder Mollo ’26

PIANO
Aarón Carretero Benites ’25

GUITAR
Sam Dickinson ’27
Leo Weisberger ’26
Owen Santora ’26

DRUMSET/PERCUSION
Joseph Cirksey ’24
Ben Pistiner ’27

VOCALS
Alicia Cynamon ’25
Victoria Donatacci ’24
Rosalind Lampert ’26
Benjamin Neff ’25
Nikki Newcomer ’24
Chris Tompkins ’27

LATIN PERCUSSION WORKSHOP
John Hayes ’25
Jackson Janney ’24
Casey Langschultz ’27
Yuxing Liu ’24
Monica Mackey
Rafael Murillo ’24
Ben Pistiner ’27
Faith Potter ’25
Owen Shultz ’27
Chris Tompkins ’27
Shiqi Wang ’26
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<th>Name</th>
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<tbody>
<tr>
<td>Aarón Carretero Benites</td>
<td>Wold Atrium</td>
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<td>Adrian Ring</td>
<td>ISEC Atrium</td>
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<td>Aidan Donnelly</td>
<td>ISEC Atrium</td>
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<td>Wold Atrium</td>
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<td>11:20 a.m.</td>
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<tr>
<td>Sebastian Graber-Adamsons</td>
<td>4:20 p.m.</td>
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<tr>
<td>Shane Fuhray</td>
<td>2:50 p.m.</td>
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<tr>
<td>&amp; Meredith Blinn</td>
<td>9:30 a.m.</td>
</tr>
<tr>
<td>Name</td>
<td>Time</td>
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<tr>
<td>Shivani Modi</td>
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<td>Sophie Chesnut</td>
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<td>Sophie Ruhl</td>
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<td>Tam Vu Chi</td>
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<td>Ebyan Abshir</td>
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<td>Viraj Brahmbhatt</td>
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<tr>
<td>Zachary Panlilio</td>
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