





# February 28 Schedule

6:00 pm	Visiting Universities & Community College Registration	Paul W. Martin Sr. Honors Building Lobby & HONR 106
6:00-8:00 pm	Building Tour & Honors Ambassador Q&A	Paul W. Martin Sr. Honors Building

# March 1 Schedule

7:45 am	Doors Open and Registration	Science Building
8:30 am	Welcome from TCHC President John Vile and MTSU Provost Mark Byrnes	SCI 1006
9:00-9:45 am	Pillars of STEM I, Arts, Education, Humanities, Science, and Social Science	SCI 1001, 1003, 1190, 1191
10:00-10:50 am	Fellowship Roundtable with Q&A	SCI 1006
11:00 am	Student Trivia Bowl Honors Faculty Roundtable	SCI 1006 SCI 1003
11:30 am	Lunch Executive Board Meeting Optional: Self-Guided Campus Tours ( <i>maps available at registration</i> )	McCallie Dining Hall McCallie Dining Hall Meeting Room
1:00-1:45 pm	Poster Fair & Graduate School Tabling	SCI Atrium
2:00-2:45 pm	Pillars of STEM II, Arts, Education, Humanities, Science, and Social Science	SCI 1001, 1003, 1190, 1191
3:00 pm	Closing Session Essay Contest Winners Announced Trivia Winners Announced	SCI 1006

Questions? Stop by the registration table in the Honors College lobby on Friday or the Science Atrium on Saturday.

We recommend using drop-off on Friendship drive then parking in the Bragg lot, 1737 Blue Raider Drive.

# Fellowship Roundtable Moderators

## **Trey Straussberger**

Dr. Trey Straussberger is the Director of the Office of National Scholarships, which is part of the Honors College at the University of Tennessee at Chattanooga. He was previously an Assistant Professor of African History and completed his PhD at Columbia University. He has advised students who have received scholarships from Fulbright, Goldwater, NSF REU, and Gilman, among others. He also takes a holistic approach to fellowship advising, working with students to identify their personal and professional goals, including post-graduate programs such as the Peace Corps, Americorps, EPIK, and Teach for America.



## **Laura Clippard**



Laura Clippard recently completed the DAAD Germany Today program in the summer of 2024, where she visited higher education institutions in Germany. She has more than 25 years of experience in higher education and currently serves in the Honors College at MTSU as the National and International Fellowships Advisor. Her past employment includes 15 years of service in TRiO, where she worked with low-income, first-generation, and disabled students.

Laura has served as a non-certifying Gilman Advisor, Fulbright Program Advisor, and Critical Language Scholarship (CLS) campus advisor for the last 16 years. She served as a selection panelist for the Gilman Program, CLS, and Phi Kappa Phi Study Abroad scholarships. Laura conducts more than 45 workshops per year related to studying abroad and fellowships, including Gilman workshops. Her past leadership activities include four years of service on the National Association of Fellowships Advisors (NAFA) Executive Board. She was awarded an IEA Fulbright to Japan in 2019 and has served on the JET interview panel for the Consulate General of Japan in Nashville.

# Fellowship Roundtable Panelists

## Tandra Martin



*Senior Associate Consultant, Higher Education Strategy and Operations, Huron Consulting Group*

Tandra is a senior associate at Huron Consulting Group. Her breadth of experience in the education sector spans higher education, state government, K-16 policy, and international education policy. Tandra's expertise includes program and project management, diversity, equity, and inclusion strategic planning, organizational transformation, human resources, and mergers and acquisitions.

Before joining Huron, Tandra worked as a program manager under the Vice Provost for Academic Affairs at Vanderbilt University. She led crisis management efforts during the height of the COVID-19 pandemic and supported strategic planning as the university resumed international engagement. Tandra also held a role in student affairs at Vanderbilt University, advising student organizations and leading community engagement efforts locally and abroad.

Before joining the staff at Vanderbilt, Tandra was the director of Postsecondary Coordination and Alignment at the Tennessee Department of Education, where she was responsible for overseeing the state's portfolio of early postsecondary opportunities and industry credentials and led initiatives to close college readiness gaps for historically disadvantaged and underserved students. As a student at MTSU, Tandra received a Daniel L. Boren Award, participated in a PPIA, won the Harold Love Community Service Award, studied in Morocco, and received a Fulbright Scholarship to teach in South Africa.

## Samuel Apigian

*Senior Mechatronics Engineering major, with minors in Math and Honors*

Samuel is an Honors Buchanan Fellow at MTSU. Over the summer of 2024, he was selected for the DAAD RISE Germany internship, where he was placed at the Technical University of Dresden to work on research titled "The Development of a Nanopositioning Stage for use in Ultra Precision Manufacturing."

Formerly, he was Valedictorian at Central Magnet High School. He also worked as a referee with the U.S. Soccer Federation, responsible for games at the Richard Siegel Soccer Complex in Murfreesboro.

He is currently researching the uses and benefits of induction heating in stovetops for his Honors thesis.



## Victoria Grigsby



*Junior dual major in Political Science and German*

Victoria is a Honors Buchanan Fellow at MTSU. She studied abroad in summer 2023 in Aberystwyth, United Kingdom as a US-UK Fulbright Scholar studying "Nationhood and Identity through the Lens of Wales". In summer 2024, she studied abroad in Marburg, Germany as a Gilman Scholar studying German language, history, and politics.

Victoria is involved with several organizations on campus, including serving as a Senator in the Student Government Association, President of the American Democracy Project, a Blue Elite Tour Guide, and a CLA Emissary. Additionally, she has tutored students for the Political and Global Affairs

Department, presented research at AASCU's Civic Learning and Democratic Engagement Conference two years in a row, and created a community research project to aid first-generation students as a Delta Scholar.

In Fall 2024, she completed an internship in Washington, D.C. with the International Rescue Committee, aiding refugees in the D.C. area, through The Washington Center internship program. She is working on her Honors thesis concerning right-wing populism and foreign policy. After graduation, she intends to pursue a graduate degree in Washington, D.C., focusing on international relations and foreign service. Recently, she received a PPIA for the Summer 2025 with Princeton University.

# Pillars of STEM Session I

## **SCI 1001 – Moderated by Maia Dennis, Volunteer State**

Ryan Berry <i>University of Tennessee at Chattanooga</i>	<i>My Synthesia: Utilizing Abnormal Musical Perceptions in Ensembles</i>
Kraven King <i>University of Tennessee at Chattanooga</i>	<i>The World Through the Eyes of Harlem</i>
Emma Matlock <i>Austin Peay State University</i>	<i>Unjust Treatment of Native Americans</i>

## **SCI 1003 – Moderated by Asha Lee, Chattanooga State**

Samuel Haley <i>Middle Tennessee State University</i>	<i>Sound's Role in Crystallography: Manipulating Bismuth Crystallization</i>
Addison O'Brian <i>Freed-Hardeman University</i>	<i>Mutagenesis of Intrinsically Disordered Domain Impacts Topoisomerase II<math>\alpha</math> Catalytic Activity</i>
Brigitte Turner <i>Freed-Hardeman University</i>	<i>Spiking Neural Networks: A New Direction for AI</i>

## **SCI 1190 – Moderated by Lena Eccles, MTSU**

Aidan Harrison <i>Freed-Hardeman University</i>	<i>What Happens When You Give College Students \$3M?</i>
Arielle Lawrence <i>Austin Peay State University</i>	<i>Impediments to Math Comprehension in Primary and Secondary Education</i>
Yulieth Mercado <i>Tennessee Technological University</i>	<i>Investigating the Learning Journey of Non-English Speaking Children in Micropolitan Cookeville, Tennessee</i>

## **SCI 1191 – Moderated by Jacey Thomas, MTSU**

Elise Halkos <i>Milligan University</i>	<i>A Reflection on Literary Criticism</i>
Jaxson Hill <i>University of Tennessee at Chattanooga</i>	<i>Socrates on Modern Democracy and Tyranny</i>
Adelynn Morrell <i>University of Tennessee at Chattanooga</i>	<i>The Power of Perspective in Jane Austen's Emma</i>

# Pillars of STEM Session II

## **SCI 1001 – Moderated by Jonah Ashley, Volunteer State**

MacKenzie Amoureux  
Lincoln Memorial University

*Breaking the Glass Ceiling: Disclosing the Barriers Women Face in the Business World*

D'Maia Butler  
Tennessee State University

*Physical Therapy in Relation to Postpartum Care in Black Women*

Tara Griffith  
Freed-Hardeman-University

*Predicting Fear of Failure in Emerging Adults Using Resilience, Perfectionism, Self-esteem, and Self-efficacy*

Bana Sulieman  
University of Tennessee at Chattanooga

*Eating Disorders in the Fitness Community*

## **SCI 1003 – Moderated by Elisabeth Bean, MTSU**

Allison Gibbons  
Middle Tennessee State University

*From Sea to Land: How Oceans Affect Our Landlocked State*

Molly King  
Freed-Hardeman University

*Gestational Diabetes: An Overview*

Isabelle Lawson  
Milligan University

*Levetiracetam and Mefloquine: The Cost Drug-Drug Interactions*

Lily Simpson  
Freed-Hardeman University

*The Role of Bilingual Physicians in Enhancing Patient Transparency*

## **SCI 1190 – Moderated by Sneha Gandhi, MTSU**

Kate Fitzgerald  
Freed-Hardeman University

*The Tower of Babel, World Religions, World Civilizations, and Their Connection*

Abigail Pauls  
Milligan University

*Scripture and Spirit: A History of Women's Ordination in the Pentecostal Churches of Canada*

Owen Wampler  
Milligan University

*Richard Brautigan and the Loss of U.S. Manufactured Innocence*

Cadence Zimmerman  
Volunteer State Community College

*Art Repatriation: Three Relevant Examples*

## **SCI 1191 – Moderated by John Aduroja, MTSU**

Maia Dennis  
Volunteer State Community College

*Attorney Accessibility While in Jail*

Alexandria Hayashi  
Milligan University

*Precedent: The Evolution of Abortion in the Supreme Court*

Vinny Nguyen  
University of Tennessee at Chattanooga

*From Isolation to Partnership: The Evolution of U.S.-Vietnam Relations and Its Implications for Future Diplomatic Strategies*

Emma Robison  
Freed-Hardeman University

*New Historicism and Shakespeare's Magic: Moral Lessons in A Midsummer Night's Dream and The Tempest*



# Poster Presentations

## SCI Atrium

1. Hannah Antrican  
*Middle Tennessee State University*  
*Eco-anxiety and Pro-environmental Behaviors in College Students*
2. Ananya Arcot  
*Middle Tennessee State University*  
*The Effects of Audiovisual, Visual, and Orthographic Input on Language Learning in College Students*
3. Josie Bailey  
*University of Tennessee at Chattanooga*  
*With The Wind (1974)*
4. Lily Barrie  
*University of Tennessee at Chattanooga*  
*What People Like to Hear from Politicians: Authoritarian Populism and Voter Turnout*
5. Hannah Barron  
*Motlow State Community College*  
*The Health Outcomes of Former Foster Youth*
6. Ansley Barry  
*University of Tennessee at Chattanooga*  
*The Environmental Benefits of a Meat-Free Diet*
7. Celeste Bishop  
*Volunteer State Community College*  
*Myths on Learning*
8. Eleanor Bryant  
*University of Tennessee at Chattanooga*  
*The Role of Shifting Gender Identities and Physical Appearance in Naomi, Breasts and Eggs, and Pregnancy Diary*
9. Rashieq Cockerham  
*Middle Tennessee State University*  
*Characteristics of the Structure and Selected Biological Activities of Polysaccharides Isolated from Hemp*
10. Matthew Gardenhour  
*East Tennessee State University, Global Citizens Scholars*  
*Families, Friends, and Facilitators for Appalachian Community Education on Transgender Support*
11. Victoria Grigsby  
*Middle Tennessee State University*  
*College Prep Literacy: In Lincoln County, Tennessee*
12. Terri Hamilton  
*Lincoln Memorial University*  
*Jack Tales: A Reflection of Regional Economic Realities*
13. Elauna Hicks  
*Middle Tennessee State University*  
*Assessment of MorphoPASSE Software for Undergraduate Forensic Anthropology Education: Integrating Sex Estimation Technology into the Classroom*
14. Izzy Jacober  
*Middle Tennessee State University*  
*The Differing Effects of Oxytocin on Maternal Motivation in Mice*
15. Jackie Jarosz  
*Tennessee Technological University*  
*Cattle Composition Throughout History*





# Poster Presentations


16. Esme Keszler and Calle Shwani  
*Middle Tennessee State University*      *Nutritional Value and Degradability of Sunn Hemp (Crotalaria juncea) in the Bovine*
17. Maria Kime  
*University of Tennessee at Chattanooga*      *La Tortilla de la Abuela: Food as a Nostalgia Tool Exemplified in the Unrivaled Omelet*
18. Asha Lee  
*Chattanooga State Community College*      *What Is My Fuel?*
19. Aniyha Mathis  
*Tennessee State University*      *How Does Policing Influence Public Perception of Them?*
20. Cheyenne McAbee  
*Tennessee Technological University*      *Jailed Minds: The Hidden Crisis of Arresting the Mentally Ill*
21. Gamze Mert  
*Middle Tennessee State University*      *Exploring Parents' Journeys in Dyslexia Identification and Support*
22. Esther Paul  
*Tennessee Technological University*      *A Content Analysis of Cybercrime Statutes and the Intent to Defraud*
23. Abigail Pomplun  
*Motlow State Community College*      *Child Development Project*
24. Isaac Puckett  
*Middle Tennessee State University*      *Investigation of a New Histidine-catalyzed Reaction Option for the Knoevenagel Condensation for the Preparation of Potential Fluorophores*
25. Jubilee Reid  
*Chattanooga State Community College*      *Cultural Heritage: A Casualty of War*
26. Delaney Reynolds  
*Middle Tennessee State University*      *Representing the Correlation between Open Surface Mining and Lung Cancer Death Rates in the Appalachian Region Using GIS technology*
27. Batoul Sawas  
*Middle Tennessee State University*      *Anxiety: Influences of Psychoeducation in Young Adults*
29. Abigail Vaughn  
*Volunteer State Community College*      *Asian Stereotypes in TV/Movies*
30. Noah Wyatt  
*University of Tennessee at Chattanooga*      *A LEGO Based Low-Cost Autonomous Scientist: Using Machine Learning to Derive the Henderson-Hasselbalch Equation*

# Campus Map



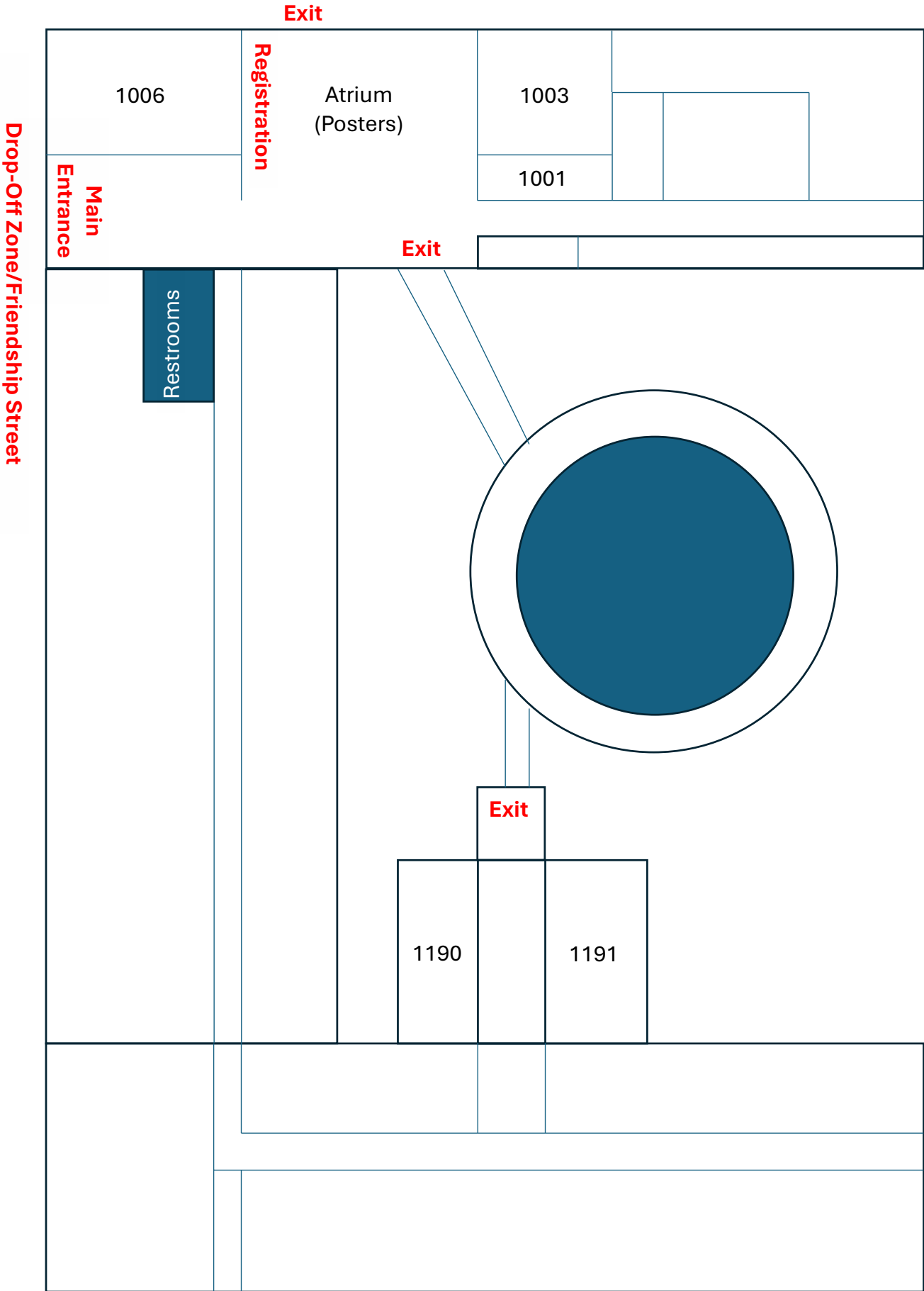
 Parking in Bragg Lot  
1734 Blue Raider Drive

 Honors College  
1737 Blue Raider Drive

 Science Building  
440 Friendship Street  
*(Drop-off before parking)*

 McCallie Dining on 2nd Floor of  
Keathley University Center  
1524 Military Memorial

# Conference Map (Science Bldg.)





Middle Tennessee State University Honors College

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