



Tennessee Collegiate Honors Council Conference

February 11 - 12, 2022

Culp Center

East Tennessee State University

# February 11

6:00 – 9:00 PM	Evening Registration	East Tennessee Room (Culp 272)
7:00 – 9:00	Student Social	East Tennessee Room (Culp 272)

# February 12

8:00 – 12:30 PM	Registration	East Tennessee Room (Culp 272)
10:00 – 10:30	Opening Remarks Dr. Brian Noland, ETSU President	East Tennessee Room (Culp 272)
10:45 – 12:30	Presentation Session I	East Tennessee Room (Culp 272) Posters: Outside East Tennessee Room Culp Center 217, 219, 303, 304, 305, 311
11:30 – 12:30	Poster Presentations with Authors	Outside East Tennessee Room (Culp 272)
12:45 – 1:45 PM	Lunch and Keynote Address Keynote: Handaa Enkh-Amgalan, Author and Program Coordinator, International Rescue Committee, Uganda	Ballroom (Culp 316B)
2:00 – 3:00	Students: Intercollegiate Trivia Contest	Culp Center “Cave” (Culp 142)
2:00 – 3:00	Deans / Directors: Meeting	East Tennessee Room (Culp 272)
3:15 – 5:00	Presentation Session II	East Tennessee Room (Culp 272) Posters: Outside East Tennessee Room Culp Center 217, 219, 303, 304, 305, 311
5:15 – 5:45	Closing Remarks	East Tennessee Room (Culp 272)

Questions? Stop by the registration table on the Culp Center second floor.

Light snacks provided 9:00 – 11:00, second floor common area.

[Directions to the Culp Center](#) (clickable Google Maps Directions)

Links to [ETSU Campus Map](#) and [Map of Johnson City](#)

We recommend parking in Lots 15a, 15b, 33 or 34.

# Presentation Session I

## Culp 217

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Amber Curtis, Fisk University	Business, the Next Chapter: Structural Changes to Revitalize the Workforce Following Covid-19
Courtney Middleton, Freed-Hardeman University	Diversified Portfolio Management
Skylar Wilson, East Tennessee State University	Connecting Campus: An Analysis into East Tennessee State University's Largest Outdoor Renovation

## Culp 219

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Mara Howell, Austin Peay University	The Digital Divide: The Foot on Rural America's Neck
Aryany Perez, Christian Brothers University	Opportunities for Those Who Dream
Nicholas Meredith, East Tennessee State University	Mindsets about Mornings
Laura Cook, East Tennessee State University	Causes and Effects of Caffeine Addiction in College Students
Precious Oseghale, Fisk University	Fisk Connect App

## Culp 303

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Casey Jackson, Freed-Hardeman University	Heggerty's: Helpful or Harmful?
Sydney Fischer, Middle Tennessee State University	A Literature Review of Teacher Evaluation Systems on the Inclusion of Quality Markers for Rural Educators
Abigail Lowry, UT Chattanooga	The Intersectionality of LGBTQ+ Identities and ADHD Within College Students
Rebekah Cahill, UT Chattanooga	The Issue of Modern Gerrymandering within A Selection of Alabama School Systems

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**Culp 304**

Gabriel Smith,  
East Tennessee State  
University

Cyclic-di-GMP-Binding Proteins Regulate *Acinetobacter Baumannii*  
Motility

Deeba Mohseni,  
East Tennessee State  
University

Role of STM1987 and ArtI in Arginine Response of *Salmonella*  
*Typhimurium*

Lucy Johnson,  
Freed-Hardeman  
University

Narcissistic Numbers

Sarah Hopkins,  
Lincoln Memorial  
University

The Effects of ECIG-generated Aerosol on the Longevity, Growth, and  
Lipid Metabolism of *C. elegans*

Alexus Brown,  
Lipscomb University

*E. coli*. Cloning to Overexpress Adhesins

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**Culp 305**

Travis Kyker,  
Milligan University

Culture Flattening and the Marvel Cinematic Universe

Isaac Wood,  
Milligan University

Wendell Berry's Vision of Enacted Community in the Story of Hannah  
Coulter

Emily Miller,  
UT Chattanooga

Receptions of the Classics and Self Image: Lil Nas X, TikTok, and Toxic  
Masculinity

James VanDyke,  
Northeast State  
Community College

Unifying the Divided: A New Plan for Reconstruction after the Civil War of  
America in 1865

Emma Sprayberry, UT  
Chattanooga

BTS: What the Korean band's worldwide success means for South Korea

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**Culp 311**

Zoe Huffman,  
Austin Peay University

Gender Inequality Around the World

Alexandra Huang,  
Christian Brothers  
University

A Display of Courage from the Ideal Hindu Woman in Ramayana of  
Valmiki

Klara Proffen, East Tennessee State University	How to Get More Women into the STEM Field
Rosemary F. Reid, Middle Tennessee State University	Universal Design in the Restaurant Industry: Bridging the Gap Between ADA Guidelines and Customer Needs
Callie Myers, Freed-Hardeman University	Psychopathy in Juveniles: Psychoscience or Hollywood?
Emma McCarthy, Lee University	When Worlds Collide: Exploring Attachment Theory Among Internationally Adopted Children

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**East Tennessee Room (Culp 272)**

Molly Dycus, Milligan University	Influence of Divine Imagery on Patriarchal Leadership in the Church
Marrissa Stallard, Northeast State Community College	Born Again
Zachary Cross, UT Chattanooga	Exploring Theories of Practice and the Practice of Theory
Hayden Dean, East Tennessee State University	Greater Mysteries: Mind-Altering Substances and the Eleusinian Mysteries
Barbara Bell, East Tennessee State University	Handcrafting: Beneficial for Mental Health
Charles Patterson, Fisk University	Standing Up for Rights: The Black Church's Response to the Civil Rights Movement

# Presentation Session II

## Culp 217

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Lacey Conley,  
Christian Brothers  
University

Rewiring Your Malleable Brain: A Look at Neuroplasticity

Mehroo Imran,  
East Tennessee State  
University

Effects of Long-Term Stress on Intrauterine Environment, Mother, and Baby

Natalie Paige Wilson,  
East Tennessee State  
University

A Review of Mental Health Resources in Ecuador

Ada'Jiah Watson,  
Fisk University

Implementing Machine Learning to combat Cardiovascular Disease

## Culp 219

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Elizabeth Paige Bond,  
East Tennessee State  
University

Extraction and Purification of an Antibiotic-like Compound Produced by a Soil Bacterium

Katherine Pollard,  
East Tennessee State  
University

Combating Pollution in the Tennessee River

Emily Roark,  
Lincoln Memorial  
University

Activity of Ticks from Various Habitats and Times of Day, and Corresponding Infection status with *Borrelia* spp. and *Babesia* spp.

Carina Vazquez,  
Middle Tennessee State  
University

Experimental Composition of Two Systems: Ring Resonator Structures and an Acoustic Demultiplexer

Hailey Hall,  
Middle Tennessee State  
University

Mind your Pressure: A Study on the Effect of Trait Mindfulness on Resting Blood Pressure

## Culp 303

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Anna Konstantopoulos,  
Milligan University

Origen: Platonism and the Preexistence of Souls in the Gospel of John

Uma Plambeck,  
UT Chattanooga

Homosexuality in *Fun Home* and the Malthusian Couple

Jessica White,  
Austin Peay University

Psychopathy VS Sociopathy Through Edgar Allan Poe

Jacob Sherman,  
Lee University

Recreating the World Online

### **Culp 304**

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Olivia Brokaw,  
Milligan University

"Blessed are the Peacemakers?": Christianity's Perpetuation of Violence  
Against Women of Color

Lucas Tatum,  
Freed-Hardeman  
University

The Legacy of Philo

Isaac Garrott,  
Lee University

The Great Revival of 1858: A Failed Awakening?

Nash Meade,  
Middle Tennessee State  
University

When Gods Fall: The Epic Conventions of Game Narrative

Emily Blankenship,  
Lipscomb University

While I Weep

### **Culp 305**

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Hunter Brady,  
Middle Tennessee State  
University

Chlorine Dioxide Gas: Potential for Use as an Anti-viral Agent

Maria Hite,  
Middle Tennessee State  
University

The Effect of Cryptococcus Neoformans Infection on the Phosphorylation and  
Subcellular Localization of CITED1 in Macrophages

Danielle M. Bryant,  
Milligan University

An Exploration of the Effects of Quorum Quenching Reagents on  
Pseudomonas aeruginosa Biofilms

Yaseen Ginnab,  
Middle Tennessee State  
University

Lake Michigan's Microbial Community Quickly Adapts to the Presence of  
Crude Oil to Degrade Polycyclic Aromatic Hydrocarbons (PAHs)

Zachary Cross,  
UT Chattanooga

Giving Stage to Non-Human Life

### **Culp 311**

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Emily Miller,  
UT Chattanooga

COVID-19, High School Quality, and Junior Year GPA

Gretchen Hollaway, Roane State Community College	Why Abstinence Only Education is a Failure
Susan Mahaffey, Milligan University	Indigenous Environmental Justice in the United States
Oleander Reagan- Artemis, UT Chattanooga	The Sacred Bee
Clark Endsley, Freed-Hardeman University	Why Do We Tame Grass?
Abigail Faxon, UT Chattanooga	Studying Suspended Sediment Concentrations in the South Chickamauga Creek of Chattanooga, TN using Satellite Imagery, Digital Image Processing, and Numeric Modeling

### **East Tennessee Room (Culp 272)**

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Maegan George, Middle Tennessee State University	Correctional Officer Perceptions of Inmate Mental Health: Correlations with Job Satisfaction Emotional Labor, Perceptions of Inmates, and Interactions with Inmates
Rebecca Jones, Middle Tennessee State University	The Attitudes and Influences of Information System Majors
Madeline Carter, Freed-Hardeman University	Can Music Dictate How We Feel?
Ellie Beth Potter, Lee University	The Sexualization of Intimacy



# Poster Presentations

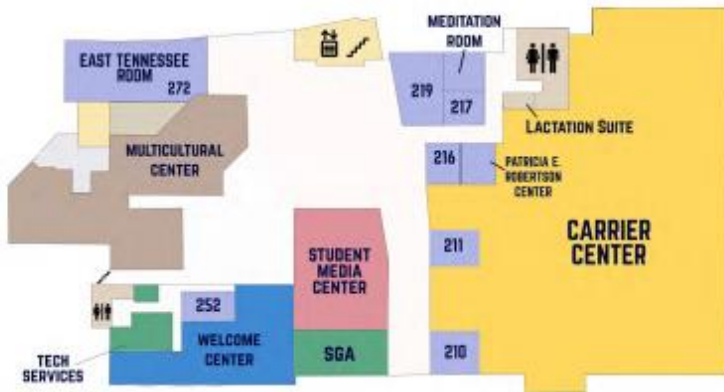
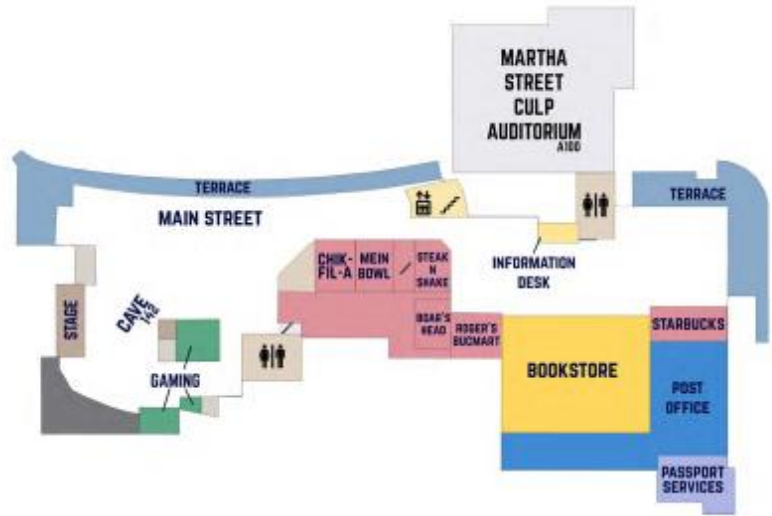
(Prefunction Area, Outside East Tennessee Room, Culp 272)

Sydney Asmus, Taylor Fletcher, Tennessee Tech University	Synthesis of a Novel Terpenoid and Optimization of its Preparation for Yield and Environmental Impact Using Design of Experiment (DOE)
Pamela Avendano Rubi, East Tennessee State University	Long-Term Effects of Estrogen Loss on Cardiac Function Following Chronic Sympathetic Stimulation
Madison Zada Cothorn, UT Chattanooga	Existentialism and the Scientific Enlightenment
Madeleine Enos, Lipscomb University	The Hsp90 Chaperone Regulates p38 Activation During ER Stress
Lydia Helton, Milligan University	Does This Bumper Sticker Make Me Look Reckless? Stereotypes About Driving Ability Based on Perceived Gender
Mitchell Hibbs, UT Chattanooga	Fabricating Our Identity
Grady Hicks, Tennessee Tech University	Comparing the Effects of a Bottle Bill in Tennessee to Other States
Jude Keef, Oleander Reagan-Artemis, UT Chattanooga	Preserving Classics Through Prose Composition
Hanna Kolwyck, Middle Tennessee State University	Noise Exposure: How it Affects Hearing in Music Majors Versus Non-Music Majors
Owen F. Madsen, East Tennessee State University	Pliocene Wood from the Gray Fossil Site
Claudia McDavid, Tennessee Tech University	Development of a Field Test for Identification of Cocaine and Heroin Utilizing Thin Layer Chromatography
Cassandra Perrone, Middle Tennessee State University	Cloning Successive Generations of Industrial Hemp ( <i>Cannabis sativa</i> ) to Assess Cannabinoid Profiles
Lily Smith, Lincoln Memorial University	The Role of Centrosomes in Rhabdomyosarcoma Myogenesis
Anna Yuhas, Middle Tennessee State University	Initiation and Cannabinoid Assessment of Trichomes on Industrial Hemp ( <i>Cannabis sativa</i> )

# Culp Center Map

## 1ST FLOOR

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## 2ND FLOOR

ML

## 3RD FLOOR

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