Festival Schedule Overview

8:00 - 11:00 AM Oral presentations
"Global Gene Expression Analysis in the Mdr1a Knockout Rat", Allison Songstad

11:00 - 11:25 AM Chapel with Dr. Randy Harris

11:40 AM - 12:50 PM Luncheon and Plenary Presentation
"A Winding Path", Lark E. Mason, Jr.

1:00 - 1:45 PM Poster Session 1

2:00 - 2:45 PM Poster Session 2

1:00 – 4:45 PM Oral Presentations

5:30 PM Award Ceremony
Oral Presentations

8:00 AM

LYNAY Conference Room
Global Gene Expression Analysis in the Mdr1a Knockout Rat, Allison Songstad
Faculty Mentor: Dr. Autumn Sutherlin, ACU Chemistry and Biochemistry

Alumni Conference Room
Does Generation Affect Attitudes and Perceptions about Welfare? Jonathan Holmes
Faculty Mentor: Dr. Thomas Winter, ACU School of Social Work

AT&T Theater
Number Derivative, Adam Simpson
Faculty Mentor: Dr. John Ehrke, ACU Mathematics

McCaleb Room Zone C
Overcoming Both Class and Age: The Implications for Intergenerational Relationships in the Works of Alan Hollinghurst, Taylor Schmitt
Faculty Mentor: Dr. Joe Stephenson, ACU English

8:15 AM

LYNAY Conference Room
Comparative Survey of Small Mammal Populations in Four Different Microhabitats from 2002 to 2011, Erin Boyd
Faculty Mentor: Dr. Thomas E. Lee, Jr., ACU Biology

Alumni Conference Room
Congregations in Community: An Analysis of the Effects of Congregation Location on Social Welfare Involvement, Jared Perkins
Faculty Mentor: Dr. Suzie Macaluso, ACU Sociology and Family Studies

AT&T Theater
Dots and Boxes: A NP Children’s Game, Jacob Schofield
Faculty Mentor: Dr. David Hendricks, ACU Mathematics

McCaleb Room Zone C
Sylvia Plath - The Quintessential Confessional Poet, Spencer Goudeau
Faculty Mentor: Dr. Jeremy Elliott, ACU English

8:30 AM

LYNAY Conference Room
Biogeography of Mentzelia thompsonii (Loasaceae) on the Colorado Plateau, Emily Crain
Faculty Mentor: Dr. Joshua Brokaw, ACU Biology

Alumni Conference Room
The Übermensch is a Thirteen-Year-Old Boy with a Joystick, Joshua Havens
Faculty Mentor: Dr. Fred Aquino, ACU Graduate School of Theology

AT&T Theater
Finding the Best Solution among Multiple Optimal Solutions, David Reynolds
Faculty Mentor: Dr. Jason Holland, ACU Mathematics

McCaleb Room Zone C
Tangled up in Convention, Elizabeth Bernhardt
Faculty Mentor: Dr. Joe Stephenson, ACU English
Oral Presentations

9:00 AM

LYNAY Conference Room
Extracting and Analyzing Semivolatile and Nonvolatile Hydrocarbons from Soil Samples, Blaine Gilbert
Faculty Mentor: Dr. Kim Pamplin, ACU Chemistry and Biochemistry

Alumni Conference Room
The Thing with Feathers, Brittany Taylor
Faculty Mentor: Dr. Dawne Swearingen, ACU Theater

AT&T Theater
NIFFTE Time Projection Chamber for Fission Cross Section Measurements, Ryan Castiello
Faculty Mentor, Dr. Rusty Towell, ACU Engineering and Physics

McCaleb Room Zone C
The Justice System: How just is it?, Lark Mason III
Faculty Mentor: Dr. Steve Weathers, ACU English

9:15 AM

LYNAY Conference Room
Going Green in University Computer Labs, Patrick Luberus
Faculty Mentor: Dr. Alfa Nyandoro, ACU College of Business Administration

Alumni Conference Room
The Illusions of Sex on TV: The Secret Life of the American Teenager, Allye Foster
Faculty Mentor: Dr. Lauren Lemley, ACU Communication

AT&T Theater
SeaQuest: Investigating the Structure of the Nucleon, Tyler Hague
Faculty Mentor: Dr. Donald Eisenhower, ACU Engineering and Physics

McCaleb Room Zone C
A Silent Statement: How Modern Dance Functioned as a Platform for Social Critique in the Twentieth Century, Allison Oden
Faculty Mentor: Dr. Cole Bennett, ACU English

9:30 AM

LYNAY Conference Room
What Happened to Climate Change? Spenser Lynn
Faculty Mentor: Dr. Mike Sadler, ACU Engineering and Physics

Alumni Conference Room
Growls, Snarls, and Deception: Implications of Villain Names in Literature, Avery Weems
Faculty Mentor: Dr. Mikee Deloney, ACU English

AT&T Theater
Studying What’s inside the Proton, Walker Nikolaus
Faculty Mentor: Dr. Rusty Towell, ACU Engineering and Physics

McCaleb Room Zone C
Shakespeare and Male over Female Domination, Katherine Handy
Faculty Mentor: Dr. Joe Stephenson, ACU English
Oral Presentations

10:00 AM

LYNAY Conference Room
A Software Tool to Teach Visual Estimation, Clement Ho
Faculty Mentor: Dr. Brent Reeves, ACU Management Sciences

Alumni Conference Room
What Happened to Lament?, Austin Holt
Faculty Mentor: Dr. Glenn Pemberton, ACU Bible, Missions and Ministry

AT&T Theater
Raising Children: Differences Between Arab and American Cultures, Darby O'Rear
Faculty Mentor: Dr. Paul Roggendorff, ACU Foreign Language

10:15 AM

LYNAY Conference Room
A System for Critiquing Body Stance, Clement Ho
Faculty Mentor: Dr. Brent Reeves, ACU Management Sciences

Alumni Conference Room
"Gardening with Grace:" The Effectiveness of a Community Garden on Building Community, Wiepie Rojas
Faculty Mentor: Dr. Jonathan Camp, ACU Communication

AT&T Theater
The White Man's Burden: U.S. Foreign Aid Policies, Lauren Tarnow
Faculty Mentor: Dr. Robert Brown, ACU Foreign Language

10:30 AM

LYNAY Conference Room
Entering a Virtual Reality Using the Microsoft Kinect, Brandon Bowen, Nate Hurley, Andrew Miller
Faculty Mentor: Dr. Michael Daugherity, ACU Engineering and Physics

Alumni Conference Room
Constitutive Rhetoric and the Taqwacore Culture, Margaret Moore
Faculty Mentor: Dr. Lauren Lemley, ACU Communication

AT&T Theater
Ireland and Abortion: The Crumbling Bulwark, Christopher Fields
Faculty Mentor: Dr. Ron Morgan, ACU Center for International Education
Oral Presentations

1:00 PM

**LYNAY Conference Room**
Liposomal Activation of Complement and Recruitment of Myeloid Derived Suppressor Cells to Tumor Tissue, Camila Robles
Faculty Mentor: Dr. John Xu, ACU Biology

**AT&T Theater**
Art, History, and the Next Generation, Morgan Hallmark
Faculty Mentor: Dr. Mark Cullum, ACU History

1:15 PM

**LYNAY Conference Room**
Search for a Genetic Barcode to Distinguish Tetraploid and Hexaploid Populations of *Mentzelia jonesii*, Tanner Agee
Faculty Mentor: Dr. Joshua Brokaw, ACU Biology

**AT&T Theater**
Transcendence of Ideas, Ryker Fitch
Faculty Mentor: Dr. Joe Stephenson, ACU English

1:30 PM

**LYNAY Conference Room**
Basis for the Neurological Evolution of Morality, Zack Morgan
Faculty Mentor: Dr. Dan Brannan, ACU Biology

**AT&T Theater**
Terrorism: WWJD? Morgan Myer
Faculty Mentor: Dr. Neal Coates, ACU Political Science

2:00 PM

**LYNAY Conference Room**
Synthesis and Characterization of Chromium Metal Complexes with Acidic Functions, Nathan Worley
Faculty Mentor: Dr. Edward Donnay
McMurry University Chemistry

**AT&T Theater**
Crafting Trust: Why we feel it and how advertisers use it, Taylor Edwards
Faculty Mentor: Dr. Joyce Haley, ACU Journalism and Mass Communication

2:15 PM

**LYNAY Conference Room**
Controlling Transitions: A New Role for the Reg1 Phosphatase in Postrecruitment Activation of RNAPII, Jonathon Jacobs, Andrew Moehlman
Faculty Mentor: Dr. Sarah Lee, ACU Chemistry and Biochemistry

**AT&T Theater**
Framing Net Neutrality: The Media Coverage of Media Ownership, Farron Salley
Faculty Mentor: Dr. Susan Lewis, ACU Journalism and Mass Communication
Oral Presentations

2:30 PM

LYNAY Conference Room
New Cluster Complexes with Mixed Bridging Groups, David Kempe, Nigel Gwini
Faculty Mentor: Dr. Greg Powell, ACU Chemistry and Biochemistry

AT&T Theater
The Internal Revenue Service's Relationship with Religious Freedom, Joseph Austin
Faculty Mentor: Dr. Andy Little, ACU Management Sciences

3:00 PM

AT&T Theater
A Rhetorical Analysis of Doctor Who, Krystal Fogle
Faculty Mentor: Dr. Lauren Lemley, ACU Communication

McCaleb Room Zone A
An Analysis of the Texas Physics Teaching Certification from 2007-2011, Kristin Holz
Faculty Mentor: Dr. Jess Dowdy, ACU Engineering and Physics

3:15 PM

McCaleb Room Zone A
Characterization of CS1 Students When Allowing for Iterative Development, Nigel Bosch
Faculty Mentor: Dr. John Homer, ACU School of Information Technology and Computing

McCaleb Room Zone B
NeuroCuro: Can Art Make us Happier? Julie Brannan
Faculty Mentor: Dr. Geoff Broderick, ACU Art and Design

3:30 PM

AT&T Theater
Subjective Truth: The Madness of Allen Ginsburg, Daniel J. Gomez
Faculty Mentor: Dr. Joe Stephenson, ACU English

McCaleb Room Zone A
From Computers to the World, Katherine Perritano
Faculty Mentor: Dr. Robert Byrd, ACU School of Information Technology and Computing

McCaleb Room Zone B
The Unconscious Effects of Music, Caroline Nikolaus
Faculty Mentor: Dr. Susan Teel, ACU Music

4:00 PM

McCaleb Room Zone A
"The Writing Guide": Reexamining Tutoring Approaches for ELL Students in the Writing Center, Juliana Kocsis
Faculty Mentor: Dr. Cole Bennett, ACU English

McCaleb Room Zone B
U.S. Farm Policy and USDA Expenditures: ACU Student Preferences Relative to the National Electorate, Kyle Ferrell
Faculty Mentor: Dr. Foy Mills, Jr., ACU Agriculture and Environmental Sciences
Oral Presentations

4:15 PM

**McCabe Room Zone A**
*Generous Justice as Argument*, Gregory C. Jeffers  
Faculty Mentor: Dr. Debbie Williams, ACU English

**McCabe Room Zone B**
*Defining Socioemotional Wealth's Influence on Business Success*, Jess Weeden, Jennifer Watson  
Faculty Mentor: Dr. Orneita Burton, ACU Management Sciences

4:30 PM

**McCabe Room Zone A**
*It's All Connected: The Ecofeminist Idea and Pursuit of Community*, Kaleigh Wyrick  
Faculty Mentor: Dr. Mikee Deloney, ACU English

**McCabe Room Zone B**
*The Biology of a Psychopath*, Savannah Wesley  
Faculty Mentor: Dr. Dan Brannan, ACU Biology

4:45 PM

**McCabe Room Zone A**
*Deracination and Heritage: Alice Walker's Multifaceted Freedom*, Erin Daugherty  
Faculty Mentor: Jeremy Elliott, ACU English

Poster Session 1

**McCabe Room Zone C**

1:00 PM

*Acedia: The Mental Affliction That was Lost in Time*, Sabrina Wegner  
Faculty Mentor: Dr. John Eric Swenson, ACU Psychology

*Go Speed Racer: Big Five Correlates of Risk Taking*, Lily Assaad, Meagan Wilcox  
Faculty Mentor: Dr. Cherisse Y. Flanagan, ACU Psychology

*William Shakespeare and Love and Death*, Landrey Lemons  
Faculty Mentor: Dr. Joe Stephenson, ACU English

*Mentoring to Success: A Program for Spanish Teaching Majors*, Kaleigh Wyrick  
Faculty Mentor: Dr. Beatriz Walker, ACU Foreign Language
Persuasion and Human Trafficking Awareness, Krystal Fogle  
Faculty Mentor: Dr. Kristina Davis, ACU Communication

Using Aging Stimulation to Increase Gerontological Awareness, Jonathan Holmes  
Faculty Mentor: Dr. Charlie Pruett, ACU Pruett Gerontology Center

Food Disparity: A Glance at the Navajo Reservation, Wiepie Rojas  
Faculty Mentor: Dr. Michael Nicodemus, ACU Agricultural and Environmental Sciences

A Short Take on the News, Jozie Sands  
Faculty Mentor: Dr. Mike Wiggins, ACU Art & Design

The Monster of Sexualized Children's Media, Katie Thornton, Morgan Myer, Elizabeth Ellery  
Faculty Mentor: Dr. Jennifer Shewmaker, ACU Psychology

Desensitization Exercises and Their Influence on Understanding Physical Limitations, Farren Franke, Kelsey McHenry, Julie Reeger  
Faculty Mentor: Dr. Charlie Pruett, ACU Sociology and Family Studies

Finding a Safer way to Make Biodiesel, Andrew Hester, Hannah Johnston  
Faculty Mentor: Dr. Hardegree, ACU Chemistry and Biochemistry

The Demographics of Altruism, Zack Morgan  
Faculty Mentor: Dr. Brannan, ACU Biology

A Beginning Study of the Biology of Religiosity: Cerebral Structures Associated with Belief, Christianna Maurer  
Faculty Mentor: Dr. Dan Brannan, ACU Biology

Bioremediation of a Tallgrass Prairie Revisited: Effects of Remaining Petroleum Hydrocarbons, Isabel Lee, Samantha Saldivar, Emily Adams  
Faculty Mentor: Dr. Josh Brokaw, ACU Biology

Comparison of the Heat Resistance of Various Wild Type Bacillus thuringiensis Spores Grown on Soil Extract and Brain Heart Infusion Media, Matthew Durham  
Faculty Mentor: Dr. Gary Wilson, McMurry University Biology

Effect of Crystal Absence on Heat Resistance of Bacillus Spores in SEA and BHI, Jonathan Urbanczyk  
Faculty Mentor: Dr. Gary Wilson, McMurry University Biology

Evolutionary Potential of Rare Plant Species: Mentzelia mollis and M. packardiae (Loasaceae), Blaine Gilbert, Emily Sparks, Isabel Lee  
Faculty Mentor: Dr. Joshua Brokaw, ACU Biology

Exploration of Sequence Diversity in Mentzelia lindheimeri and M. oligosperma, Jason Iris  
Faculty Mentor: Dr. Joshua Brokaw, ACU Biology

Genetic Comparisons of Mentzelia crosea and M. lindleyi, Samantha Saldivar  
Faculty Mentor: Dr. Joshua Brokaw, ACU Biology

**Poster Session 2**
*McCaleb Room Zone C*
*2:00 PM*

Molecular Systematics of Ophuroidea using 16S rDNA the Op, Shannon Rose, Brittany Armenta  
Faculty Mentor: Dr. Rebecca Hunter, ACU Biology

Morphological and Molecular Diagnostic Characters for Mentzelia monoensis (Loasaceae), Levi Gates  
Faculty Mentor: Dr. Joshua Brokaw, ACU Biology
P450 DNA Extraction for Gene Sequencing, Leann Black, Allison Songstad
Faculty Mentor: Dr. John Xu, ACU Biology

Predation on Mexican Free-tailed Bats (Tadarida brasiliensis) by Merlin (Falco columbarius), Stephanie G. Martinez
Faculty Mentor: Dr. Thomas E. Lee, Jr., ACU Biology

Testing ndhF-rpl32R as a Genetic Barcode to Distinguish Mentzelia eremophila and M. nitens, Jordan Dekeratry
Faculty Mentor: Dr. Josh Brokaw, ACU Biology

Testing the Hypothesis of the Evolutionary Origins of Mentzelia micrantha, Quincy Carroll
Faculty Mentor: Dr. Joshua Brokaw, ACU Biology

Wolbachia and the Biological Control of Horn Flies, Marian Cabasal, Chloe French
Faculty Mentor: Dr. Qiang Xu, ACU Biology

Biogeography of Mentzelia thompsonii (Loasaceae) on the Colorado Plateau, Elizabeth Lurz, Jonathan Stites
Faculty Mentor: Dr. Josh Brokaw, ACU Biology

Analysis of Global Chromatin Compaction During Adult Neural Stem Cell Differentiation, Evan Jones
Faculty Mentor: Dr. Autumn Sutherlin, ACU Chemistry and Biochemistry

Phenyl Acrylate Synthesis, Charles Holt, Jacob Lowry
Faculty Mentor: Dr. Brian Cavitt, ACU Chemistry and Biochemistry

When Being a Variant is Advantageous: A Role for Chromatin Remodeling After TBP Recruitment, Hillary Eichelberger, James Huddleston
Faculty Mentor: Dr. Sarah Lee, ACU Chemistry and Biochemistry

Microwave Chemistry: Reactions of Os3(CO)12 with Halogens, Nigel Gwini, David Kempe
Faculty Mentor: Dr. Greg Powell, ACU Chemistry and Biochemistry

New Osmium Cluster Complexes Derived From Reactions Involving Alcohols, Ben Lang, David Kempe, Nigel Gwini
Faculty Mentor: Dr. Greg Powell, ACU Chemistry and Biochemistry

In-Memory Computing Improves Efficiency, Landon Gray
Faculty Mentor: Dr. Orneita Burton, ACU School of Information Technology and Computing

Wind Turbine Caused Bat Fatalities in Central Texas, Patty Doyle
Faculty Mentor: Dr. Thomas Lee, Jr., ACU Biology

Interactive e-Learning, Ashley Dillin
Faculty Mentor: Dr. Brian Burton, ACU School of Information Technology and Computing

Elementary School Science, Alyssa Estes
Faculty Mentor: Dr. Jess Dowdy, ACU Engineering & Physics

Structurized Interviews, Holly McKenna,
Faculty Mentor: Dr. Yelena Kosheleva, ACU Psychology