Alpha Chi in St. Louis

2014 National Convention March 27-29

The Future of Water
With grateful appreciation for his generous heart, collegial spirit, and love of learning, we dedicate this program to Michael Flachmann, founding faculty sponsor of the California Iota chapter at California State University, Bakersfield, and National Council member from 2003 to 2013.

“For his bounty
There was no winter in’t;
As Autumn ’twas
That grew the more by reaping.”

Antony & Cleopatra
V.ii.105-7
**Keynote Speakers**

**Gen. Tommy Franks**

Four-star General Tommy Franks has been chosen to receive the 2014 Distinguished Alumni Award. Born in Oklahoma and raised in Texas, General Franks gained national prominence as Commander-in-Chief of the United States Central Command during Operation Enduring Freedom and Operation Iraqi Freedom. He was inducted into the Texas Alpha Theta chapter of Alpha Chi at the University of Texas at Arlington in 1968.

Franks' enrollment at UTA followed his service as a second lieutenant in Vietnam, where he earned six awards for valor and three Purple Hearts. He credits his involvement with Alpha Chi at UTA with ensuring his collegiate success. After earning his bachelor's degree in Business Administration, he also earned a master's degree in public administration from Shippensburg University and, as a career army officer, graduated from Armed Forces Staff College and the Army War College.

The General's awards include five Distinguished Service Medals, four Legions of Merits, four Bronze Stars, and three Purple Hearts. Her Majesty Queen Elizabeth II appointed him a Knight Commander of the order of the British Empire, and President George W. Bush awarded him the Presidential Medal of Freedom. He retired from active military duty in 2003 after 38 years of service and now travels the world, speaking on leadership, character, and democracy.

His autobiography, *American Soldier*, debuted at Number 1 on the *New York Times* Best Seller List, and will be available for sale and signing at the convention. Gen. Franks will speak to delegates on Saturday morning.

**Dr. Dennis Richardson**

Dennis Richardson cofounded the Bawa Health Initiative (BHI), a 501(c)(3) based in Wallingford, Connecticut, in May of 2005 when a fellow parasitologist and Bawa, Cameroon, native challenged him with the comment that “for the price of what you spend on feeding your cat, you could save the lives of children in my village.” BHI’s purpose is to reduce the prevalence of endemic diseases in the village of Bawa and in surrounding villages. Its goals include treating, empowering, and educating through interventions, collaboration, and ongoing research.

Dr. Richardson is a distinguished helminthologist and professor of biology at Quinnipiac University in Hamden, Connecticut. He has traveled many times to rural Cameroon, determined to improve the lives and health of the villagers he has come to know and think of as family. Richardson and his small team have pitched tents, dug latrines, and shown villagers how to construct bio-sand water filters. They have installed anti-malarial mosquito nets, distributed medicine to treat worm infections, and comforted the parents of children suffering from a myriad of hardships. Construction of BHI’s primary health care clinic in Bawa, the Sophine Awounke Health Center, is nearing completion.

Dr. Richardson is very excited to speak to Alpha Chi members on Thursday evening. He will also join delegates for the FunWalk for Water on Friday afternoon.
2014 Alpha Chi National Convention
Program of Events

Thursday · March 27

3:00-6:00 p.m.  AX Central ..........................................................................................................Grand Ballroom Foyer
Chapter Delegation Check-in  St. Louis Information & Sightseeing Options
Presenter Questions & Poster Check-in  Brown's Graduation Regalia, Jewelry & Merchandise
FunWalk for Water Sign-ups  American Soldier by Gen. Franks, available for purchase

5:30-6:30 p.m.  Chapter Sponsor Reunion and Welcome.................................................................................Grand Ballroom EF
Chapter sponsors and their attending family members gather for social networking, welcoming those new to
our group, and renewing collegial friendships. Light refreshments will be served.

6:15-6:45 p.m.  Logistics Meeting for all Judges and Moderators .....................................................Grand C
Attend this meeting for important information and to receive presenter certificates and judging forms.

7:00 p.m.  Opening Ceremonies and Dinner—General Session I ............................................Grand Ballroom EF
The entire convention gathers for dinner and a keynote address by Dr. Dennis Richardson of the BAWA Health
Initiative. The doors will open for seating to begin at 6:45. Your name badge should be worn to meal events.

8:30-9:30 p.m.  Research & Creativity Forum ...............................................................................................Midway
Join us for dessert and coffee in the Midway for the 2014 Research & Creativity Forum. In addition to the
poster displays, Dr. Richardson will be available for questions. Judges for the twelve academic fields
represented by these presenters are asked to bring their judging forms and make themselves available to
the presenters at the times posted below. Presenters are asked to remain with their posters until 9:30 p.m.

Education

“Educational Challenges of Culturally and Linguistically Diverse Students”
Jamie Craig, Park University, Missouri Theta, Region IV................................................................. Education, 8:50

”Importance of Expanding Civic Learning and Duty Opportunities at University Level”
Gina English, Park University, Missouri Theta, Region IV................................................................. Education, 9:00

Humanities

“Guerre d’Algérie: The War Without a Name”
Caitlin Maddox, East Central University, Oklahoma Gamma, Region II...........................................World History, 8:40

“Batman Through the Hero’s Journey”
Elisabeth Rose Grimes, Chowan University, North Carolina Phi, Region III.....................................Communication, 8:50

“From an Emma in Control to an Emma in Love: Examining Class and Relationships”
Stephanie Parnell, University of North Carolina at Pembroke, North Carolina Kappa, Region III ......British Literature, 9:00

Original Visual Art

“Survivor Series”
Chin-Ye Chew, Lyon College, Arkansas Iota, Region I .................................................................Art, 8:30

“Just a Memory”
Emily Anderson, Missouri Western State University, Missouri Lambda, Region IV.............................Art, 8:40

“Typography Self-Portrait”
Lindsey L. Chambers, Lyon College, Arkansas Iota, Region II .......................................................Art, 8:50

“A Discovery in Color”
Grace Ann Diepenbrock, Mars Hill University, North Carolina Epsilon, Region III .........................Art, 9:00

“A Modern Grapes of Wrath”
Kathryn Herbert, Marist College, New York Theta, Region VI ......................................................Art, 9:10

“Psalm 139: A Series of Perceptual Portraits”
Hannah Hochstetler, Huntington University, Indiana Beta, Region V .............................................Art, 9:20
Social Sciences

“The Prevalence of Obesity in Developing Countries”
Kelsey Mercedes Kunk, University of Mary Hardin-Baylor, Texas Beta, Region I ............................................ Anthropology/Sociology, 8:40

“Racial Differences in Perception of Viewing and Funeral Behaviors”
Anna Layne Gass, Thomas University, Georgia Lambda, Region III ............................................................... Psychology A, 8:50

Cody Michael Soden, East Central University, Oklahoma Gamma, Region II ................................................. Psychology B, 9:00

Sciences

“Immunoprecipitation of Immunoglobulin Gamma-Transferrin Complex”
Frank Villa Hernandez, Catawba College, North Carolina Omicron, Region III .................................................. Chemistry, 8:30

“Clean Air Energy”
Jonathan Raymond Aragon, Grand Canyon University, Arizona Alpha, Region VII ........................................ Chemistry, 8:40

“A SEI RA Analysis on Elongated Nickel Nanostructures”
William Kyle Barker, University of Central Arkansas, Arkansas Gamma, Region II .................................... Chemistry, 8:50

“Enantiodifferentiation of Multifunctional Tertiary Alcohols by NMR Analysis with a Chiral Solvating Agent”
Jonathan Dannatt, Lyon College, Arkansas Iota, Region II ........................................................................... Chemistry, 9:00

“Detection of Naturally Produced Organohalogen Compounds in Marine Sponges from the Bahamas and Florida Coast”
Stephanie Shaw, Lyon College, Arkansas Iota, Region II .................................................................................. Chemistry, 9:10

“The Influence of Structure, Stereochemistry, and pH of Acids on the Erosion of Tooth Enamel”
Sarah Smith, Greensboro College, North Carolina Xi, Region II ................................................................. Chemistry, 9:20

“Human Forearm Myoelectric Signals Used for Robotic Hand Control”
Jessica Sikula, Indiana Institute of Technology, Indiana Lambda, Region V ......................................................... Computer Science/Engineering, 8:40

“Can Melatonin Break Seed Dormancy”
John Eakin & Algerr Remy, Midwestern State University, Texas Alpha Gamma, Region I .................. Molecular/Cellular Biology, 8:40

“Disruption of NS1A Dimerization as a Potential Target for Influenza Therapies”
Daniel Olea, University of the Sciences, Pennsylvania Kappa, Region VI ......................................................... Molecular/Cellular Biology, 8:50

“LPA Stimulates Ser/Thr-phosphorylation of Argonaute-2 in Hypoxia-Stressed Ovarian Cancer Cells”
Crista Riggs, Ouachita Baptist University, Arkansas Beta, Region II ................................................................. Molecular/Cellular Biology, 9:00

“Creating a Differential Medium for an Aeromonas salmonicida clp Mutant that is Deficient in Transformation”
Jacob Woods, Abilene Christian University, Texas Psi, Region I ................................................................. Molecular/Cellular Biology, 9:10

“Molecular Systematics of the Ophiuroidea Using Both Nuclear and Mitochondrial DNA”
Lydia Brown, Abilene Christian University, Texas Psi, Region I ................................................................. Organismal/Ecological Biology, 8:50

“Coral Reef Ecology”
Erika Renee Martin, Missouri Valley College, Missouri Sigma, Region IV ......................................................... Organismal/Ecological Biology, 9:00

“Temporal and Spatial Niches Affect Biodiversity in Evolving Metacommunities”
Olivia Jordan Myers, Catawba College, North Carolina Omicron, Region III ...................................................... Organismal/Ecological Biology, 9:10

“Summer Emergence Production in the Tributaries of Lake Sunapee, New Hampshire”
Jenisha Shrestha, Colby-Sawyer College, New Hampshire Alpha, Region VI ...................................................... Organismal/Ecological Biology, 9:20

Throughout the program, the water droplet designates presentations supporting the conference’s theme, “The Future of Water.”
Friday · March 28

7:30 a.m.-1:00 p.m. **AX Central** ..........................................................................................................Grand Ballroom Foyer

Late Check-in (for delegations that have been unable to pick up their packet)
Program Questions or Changes
FunWalk for Water Check-in & Last-Minute Sign-ups
St. Louis Information & Sightseeing Options
**American Soldier** by Gen. Franks, available for purchase
Brown's Graduation Regalia, Jewelry & Merchandise
Judging Forms Collected (We will collect every judging form this year. Hold all forms until the prize recipient has been chosen; each judge then turns in all completed and signed forms.)
Conference Lost & Found

7:30-8:15 a.m. **Regional Continental Breakfast Meetings** (with officer elections)

A continental breakfast will be set up in the Grand Foyer area. Please get your breakfast and take it with you to your regional meeting. Your region is printed on your name badge.

Region I ...................................................................................................................... Grand A
Region II .................................................................................................................... Grand B
Region III .................................................................................................................. Grand D
Region IV .................................................................................................................... Grand C
Region V ................................................................................................................. Regency C
Region VI ................................................................................................................ Regency B
Region VII .............................................................................................................. Regency A

8:30-10:00 a.m. **Student Presentations Session One** (see pp. 12-14)

This session contains six 15-minute blocks. Delegates will use the 9:45 block for academic networking.

Section 1 Art/Music/Dance Papers ...................................................................................... Grand A
Section 2 Philosophy, Mysticism, and World Religions ....................................................... Grand B
Section 3 American Literature: 19th Century Writers ........................................................ Grand C
Section 4 British Literature: Canonical and Mythic Texts .................................................... Grand D
Section 5 World Literature .............................................................................................. Regency A
Section 6 Creative Writing .............................................................................................. Regency B
Section 7 Education: Vocabulary, Play, and Pencil Grasp ................................................ Regency C
Section 8 Organismal/Ecological Biology: Bacteria and a New Plant Species ..................... New York Central
Section 9 Anthropology/Sociology: Technological Influences and World Perspectives ........... Illinois Central
Section 10 Psychology A: Motivation and Depression ......................................................... Missouri Pacific
Section 11 Psychology B: Technology, Cognition, and Stress ............................................. Frisco
Section 12 Political Science/Economics: Political Races and Environmental Studies .......... Burlington Route
Section 13 Health Science A: Treatment of Disease .......................................................... Wabash Cannonball
Section 14 Health Science B ............................................................................................ Jeffersonian
Section 15 Business Administration: Management ............................................................ Knickerbocker

8:45-10:00 a.m. **Collaborative Research Project Presentations, The Future of Water** ...................... Pegram

This is the first year for this competition. Guest judges will hear brief presentations by five collaborative research groups. These presentations will occur during Session One. Limited seating will be available in the Midway area reserved for these poster presentations. To read more about these presentations and the student researchers on each team, see pp. 10-11.

- **8:45—Change is in the Water**
  Texas Psi, Abilene Christian University

- **9:00—Tainted Purity: Toxins from the Tap**
  Tennessee Delta, Carson-Newman University

- **9:15—The Worth of Water: Groundwater, A Diminishing Resource**
  Oklahoma Gamma, East Central University

- **9:30—Water, Economics, Ethics, and Fracking: A Cost/ Benefit Analysis of Hydraulic Fracturing**
  North Carolina Zeta, Gardner-Webb University

- **9:45—The Potential Impact of Media and Education Programs on Conservation**
  Texas Eta, University of North Texas
10:15-11:15 a.m.  Chapter-Strengthening Sessions

Delegations should send people to as many different sessions as possible. Seating is first-come, first-served.
Recaps of the sessions will be posted later on Alpha Chi’s website.

Letting Them Know Who You Are: Raising the Profile of Alpha Chi on Campus

In 2013-14, the North Carolina Zeta chapter made a determined effort to raise its profile among both administrators and students. We’ll show how we put strategic planning and a small budget to work to implement programs, such as a crash course for prospective graduate students and a reception for sophomores on the dean’s list. This workshop will also guide participants through brainstorming activities suitable to their own campuses. The session will be led by Gardner-Webb University chapter members Michelle Cooper, Mary Hellstrom, Kate Oliphant, Kendra Bragg, Andrea Thomas, Rachael Bradley, Brooke Rampy, and Charity Byrum.

We’ve Grown Our Chapter. Now What? Getting Chapter Members Involved

During this interactive session, we will share ideas about ways to increase chapter member participation. Come ready to share your own experiences in this workshop led by Texas Psi sponsors, Lynette Austin, and Mikee Delony, who is also an at-large member of the National Council.

Campus Programs with a Purpose

We will discuss Alpha Chi-led programs, suggestions for attracting a campus audience (including collaborative efforts), ideas that have been successful in the past, and the importance of establishing programming “traditions.” This session will be led by Dr. Paul Michelson, Indiana Beta chapter sponsor, and Andrew Wickersham, Indiana Beta chapter vice president and program chair.

Planning and Implementing Excellent Chapter Meetings

This session will provide guidance on planning and implementing excellent chapter meetings and will include successful examples from the Alpha Chi chapter at The University of Texas at San Antonio. It will be led by Trey Edwards, Texas Alpha Pi member and student representative to the National Council.

Making Connections: Collaborating with Clubs on Campus

Learn how to effectively work with other organizations and clubs on campus. We will discuss things like how to choose a club and communicate with them, how to plan an event, and how to divide the responsibilities and funding. The session will include a presentation and fictional scenario, and participants will have the opportunity to brainstorm ideas for their own chapter. This session will be led by Courtney James and Aliethia McLeod, members of the Pennsylvania Nu chapter at Saint Vincent College.

Living Alpha Chi: Virtually

Many institutions are seeing growth of non-traditional students earning their degrees online. Connecting these students to campus is critical for retention, engagement, and student satisfaction. Learn how to manage an active arm of your chapter online in a few easy steps. Please bring your laptop and/or cell phone to participate. Dr. Jennifer Jones, Grand Canyon University, Arizona alpha chapter sponsor and National Council member, will lead this session.

The 259-Day Plan: The Art of Fundraising at a Small University

Funding is an excellent way to raise money to cover convention and chapter expenses. In this session chapter leaders will share successful yearlong strategies for raising funds, which are used to pay 100 percent of the cost of transportation, lodging, and registration for all convention attendees, as well as to sponsor the Alpha Chi Teacher of the Year Award and the university’s student research conference. The session will be led by North Carolina Phi chapter leaders Jylian Wilde and Nicola Khouri from Chowan University.

Replicating Effective Leadership: Finding, Training, and Replacing Chapter Officers

This workshop will present basic implementation and operation methods for creating an effective chapter leadership structure using the theme “Replace yourself.” Since leadership at the student level is by nature transitory and volunteer based, organizing and developing local chapter officers must take a unique approach in order to be effective in the long-term. Our goal is to provide your chapter with the tools and vision to create effective, professional leadership that can be replicated with new officers year after year. This session will be led by Josh Blagaila, member at Fresno Pacific University and student representative to the National Council.

Honor Students Gone Wild

Alpha Chi members are sometimes seen as overly-serious folks who don’t know how to have fun, but we know better. In this session, we’ll brainstorm ideas for off-the-wall events that chapters can use to raise their profile on campus, advance the purposes of Alpha Chi, and fill their meetings with fun and laughter. Small groups will develop detailed action plans for making those events a reality. All of the plans generated during the workshop will be compiled and distributed to participants following the convention. This session will be led by Misha Matsumoto of the Hawai’i Beta chapter at Hawai’i Pacific University, and Bill Potter, chapter sponsor and National Council member.

So You Want to Go to Graduate School?

A panel will share ideas from Huntington University’s annual “So You Want to Go to Graduate School” Alpha Chi Forum, including tips and pitfalls involved in the process, participation by faculty who recently finished graduate school, preparing for graduate school, and walking through online resources. We will even discuss some things that didn’t work. The session will be led by Mrs. Jean Michelson, Indiana Beta chapter sponsor, and Preston Hoobler, chapter president.

#lSGradSchool4Me

The fear of the unknown and frustration with application paperwork can deter talented undergraduates from attending graduate school. Come hear what Alpha Chi chapters can do on their campuses to help undergraduates make the successful transition to graduate school. The co-sponsors of the Texas Iota chapter at Texas State University, Ron Brown, Paula Williamson, and Sarah Pivonka, will lead this session.
Chapter-Strengthening Sessions continued  (Friday, 10:15-11:15 a.m.)

Across-Campus Collaboration ................................................................. Grand C
There are many reasons why Alpha Chi Chapters should consider teaming up with other campus organizations. These kinds of events are easier to execute because there are more helpers, students in different groups get to know each other better, and campus groups are encouraged and energized by supporting each other. This session will draw lessons from successful collaborations on the campus of East Central University. It will be led by Dr. Lorraine Latimore, Oklahoma Gamma chapter cosponsor.

Are You Kidding? We Can Do That in Alpha Chi?! Going Wild for the Greater Good ........................................................ Grand B
How often has your chapter planned something, carried it out, and then your chapter looked back and said: “That was boring! We could’ve done so much better, made it more fun!” Let’s go outside the box, draw outside the lines! This session will brainstorm wild and whacky ideas to use for campus events, even chapter meetings. As we all know, once the word gets out how fun the Alpha Chi event was or how unexpectedly amazing the chapter meeting was, more will come back! Bring your ideas (old and new) and your stories about funny and fun events your chapter has done on your campus. The leaders for this session will be Dr. Gregory A. Clemons and Dr. E. Kate Stewart, both chapter sponsors and at-large members of the National Council.

Mission Possible: How Sponsors Can Develop and Optimize Chapter Life ................................................................. Grand A
This session will cover developing a clear mission statement and sponsor job description, creating measurable outcomes, and assessing results. We will provide examples, then split up into groups and share contributions to optimize the session’s practical applications/implications for sponsors. Our goal will be to develop re-usable examples in real-time workgroups, as we try to be effective leaders, cultivate relationships, manage risk, and motivate students for success. The leaders of this session will be Dr. Kathi Vosevich, Georgia Theta chapter sponsor at Shorter University, and Caitlin Burnside Sumner, chapter president.

11:30-12:30 p.m.  Student Presentations Session Two (see pp. 15-16)

Section 16  Performing Arts ................................................................. Grand A
Section 17  American History ................................................................. Grand B
Section 18  American Literature: Women Writers ................................................................. Grand C
Section 19  British Literature: 19th Century Voices ................................................................. Grand D
Section 20  Creative Writing: Original Fiction ................................................................. Regency B
Section 21  World History: Women’s Roles, Independence, and Democracy .................. Regency C
Section 22  Organismal/Ecological Biology: Aquatic Environments .................................. New York Central
Section 23  Education: Increasing Learning ................................................................. Illinois Central
Section 24  Communication: Theory and Practice ................................................................. Missouri Pacific
Section 25  Business Administration: Economics and Finance ............................................. Frisco
Section 26  Contemporary Bioethical Issues: Correlations and Causes ............................... Burlington Route
Section 27  Computer Science/Engineering: Practical Applications ................................... Wabash Cannonball
Section 28  Chemistry: Synthesis, Isolation, and Free Radicals ........................................... Jeffersonian

1:00 p.m.  AX Service Project:  2014 FunWalk for Water ................................................................. near 20th Street exit doors
National Council Vice President Dr. Bill Clemente and Dr. Dennis Richardson of the BAWA Health Initiative will lead Alpha Chi members and chapter leaders in a short walk toward the St. Louis Arch. The proceeds of the funwalk will benefit the Bawa people of Cameroon in West Africa.

Explore St. Louis!

10:00 p.m.  Open Mic Night, sponsored by Nationwide Insurance, society partner ................................ Pegram
Sponsored by Nationwide Insurance, this relaxed, informal gathering will cap the day. Musicians, poets, and other talented performers from among us will provide the entertainment. Hot and cold beverages and an assortment of light snacks will be served.
Saturday · March 29

7:45 a.m.-2:00 p.m.  AX Central ............................................................................................................................ Ballroom Foyer

Program Questions or Changes
St. Louis Information & Sightseeing Options
American Soldier by Gen. Franks, available for purchase
Brown's Graduation Regalia, Jewelry & Merchandise
Judging Forms Collected (We will collect every judging form this year. Hold all forms until the prize recipient has been chosen; each judge then turns in all completed and signed forms.)
National Subsidy Reimbursement Forms Collected
Conference Lost & Found

8:00-9:30 a.m.  Student Presentations Session Three (see pp. 17-19)
This session contains six 15-minute blocks. Delegates will use the 9:15 block for academic networking.

Section 29  Performing Arts and Creative Writing .................................................................Grand A
Section 30  Religion and Philosophy: Biblical and Doctrinal Issues ...........................................Grand B
Section 31  American Literature ..........................................................................................Grand C
Section 32  Anthropology/Sociology: Community and Outsiders ..............................................Grand D
Section 33  Shakespeare .................................................................................................Regency A
Section 34  Political Science/Economics: Growth, Advertising, and Poverty .........................Regency B
Section 35  Organismal/Ecological Biology: Critters ................................................................Regency C
Section 36  Chemistry: Cancer, Migraine, and Autoimmune .....................................................New York Central
Section 37  Psychology A: Crime, Abuse, and Suicide ................................................................Illinois Central
Section 38  Psychology B: Mental Illness, Resilience, and Ethics .............................................Missouri Pacific
Section 39  Molecular/Cellular Biology: Molecular Modification and New Therapies ...............Frisco
Section 40  Health Science A: Analyzing Health Education and Industry ................................Burlington Route
Section 41  Health Science B: Cardiac Issues, Cortisol, and Caffeine ........................................Wabash Cannonball
Section 42  Education: Individual Development and Course Creation .....................................Jeffersonian

9:45-11:00 a.m.  Brunch with the Top Brass—General Session II ....................................................Grand Ballroom EF
Students and sponsors converge for the convention’s second general session at a plated breakfast to honor Alpha Chi’s 2014 Distinguished Alumnus, Gen. Tommy Franks, alumnus of the chapter at the University of Texas at Arlington.

11:00 a.m.  Hotel Check-outs / Temporary Luggage Storage ..................................................Grand Ballroom EF

11:30 a.m.-12:30  Student Presentations Session Four (see pp. 19-21)

Section 43  Art/Music/Dance Papers: Global Perspectives ..................................................Grand A
Section 44  World History: WWII .........................................................................................Grand B
Section 45  Political Science/Economics .................................................................................Grand C
Section 46  World Literature .............................................................................................Grand D
Section 47  British Literature ..............................................................................................Regency A
Section 48  Psychology A: Memory and Attention .............................................................Regency B
Section 49  Psychology B: Parenting and Autism ...............................................................Regency C
Section 50  Chemistry: Fingerprint Acids, Nano-Films, and Quantum Bonds .....................New York Central
Section 51  Mathematics: Game Theory, Primes, Set Theory, and Modeling .........................Illinois Central
Section 52  Communication: Cultural and Personal Understanding ......................................Missouri Pacific
Section 53  Business Administration ..................................................................................Frisco
Section 54  Exercise Science/Nutrition .................................................................................Burlington Route
Section 55  Computer Science/Engineering: Introduction and Analysis .............................Wabash Cannonball
Section 56  American History ............................................................................................Jeffersonian

12:30 p.m.  Closing Ceremonies—General Session III ............................................................Grand Ballroom EF
The grand finale—this session will cap the convention with door prizes, announcement of national scholarship recipients and presentation prize winners, and the announcement of the 2015 meeting site.
The Future of Water
The 2014 Student Collaborative Research Project
Friday at “Collaboration Station”
(in Pegram off the Midway, 8:45-10:00 a.m.)

8:45 a.m. • Change is in the Water
Travis Chura (Biology), Rebecca Fowler (English), Colton McCoy (Spanish/Biology), Katelyn Werner (Biochemistry/English), and Jacob Woods (Biology)

Dr. Dan Brannan, faculty advisor, Abilene Christian University, Texas Psi

Over fifty percent of the human body is composed of water, yet over one billion people in the world lack access to clean drinking water. This study analyzes the way the body’s most essential physical need is also the basis for which social progress is attained. Only after a community gains access to clean drinking water can it begin to look beyond that fundamental, universal necessity and focus on developing its social and civic infrastructure. As Maslov’s Hierarchy of Needs illustrates, a community must have its physiological needs satisfied before education, religion, and economic advancement can occur. Specifically addressing the region of sub-Saharan Africa, humanitarian organizations have studied this issue and proposed various strategies to increase the quality of life in these developing communities. We have synthesized the merit of these solutions and determined which are viable for creating permanent and positive change.

9:00 a.m. • Tainted Purity: Toxins from the Tap
Garret W. Duron (Chemistry), Laura-Kate Gonyea (Communications), and Alexander Griffith (Political Science/Pre-Law)

Carson-Newman University, Tennessee Delta

Across America, harmful particles are appearing in drinking water, and the cause of the epidemic comes from what should be the solution. These noxious chemicals result from chlorine disinfection, a common treatment for water bacteria. The process that should protect millions of individuals ends up harming them. "Tainted Purity: Toxins from the Tap" explores the health risks, legal implications, and the public outreach plans to combat the rising impurities in tap water.

9:15 a.m. • The Worth of Water: Groundwater, A Diminishing Resource
Michael Cain (Cartography), MaryBeth Cox (Chemistry), Heather Smith (Political Science), Cody Soden (Psychology), and Linzi Thompson (Environmental Health Science)

Dr. Christine Pappas, faculty advisor, East Central University, Oklahoma Gamma

Less than 3% of Earth’s water is fresh, and most of it is locked in ice caps. This leaves groundwater as the planet’s largest reserve of useable freshwater. With one gallon of water costing a fraction of a penny, this collaborative research focused on what water is truly “worth” as it is clear that this slowly-replenishing groundwater resource is threatened by rapid overuse and pollution. Phelps’ analysis of interest groups that have stakes in water policy allows for her suggestion on reforms regarding groundwater regulation issues. Soden’s work analyzed the public’s opinion on and knowledge of Oklahoma’s water costs. A way to remediate polluted groundwater with electrically enhanced insitu treatment was researched by Thompson. Cox’s research focused on enhancing solar panel cells with an organic substance. This enhanced cell model could be implemented into Thompson’s electrical treatment design to allow for cheaper groundwater remediation. To better understand our own state’s risk of polluted water, the EPA’s Safe Drinking Water Information System was used by Cain to create a choropleth map of Oklahoma’s public groundwater Maximum Contaminant Level violations of nitrate-nitrite during the past five years. Through this group collaborative project, it was found that greater regulations and enhanced research will be needed to ensure that the protection of our nation’s vital groundwater resources continues.
9:30 a.m. • Water, Economics, Ethics, and Fracking: A Cost-Benefit Analysis of Hydraulic Fracturing

Joshua Johnson (Chemistry), Kristina Grayson (Chemistry), Kevin Mills (Economics/Business), Brooke Rampy (Biology), and Carson Shoupe (Philosophy/Ethics)

Dr. June Hobbs, faculty advisor, Gardner-Webb University, North Carolina Zeta

Hydraulic fracturing has become a prominent method of natural gas extraction, but it raises questions about the future of water as well as the economic benefits from fracking. Our team will address the issue by answering the following research question: Do the economic benefits of hydraulic fracturing outweigh the environmental impacts that occur due to the waste water produced from fracking wells? We will address the issue from four different standpoints: environmental, chemical, economic, and ethical.

9:45 a.m. • The Potential Impact of Media and Education Programs on Conservation

Ellen Zimmerman (Learning Technologies), Jeremy Tinker (Computer Science), and Azure Hardy (Anthropology)

Dr. Jeanne Tunks, faculty advisor, University of North Texas, Texas Eta

Water conservation is an ongoing area in need of additional research and future planning. While many local, state, and federal agencies continue to investigate options and negotiate compromises, there is still a need for better communication regarding the current state of water availability and how to improve the outlook for the future. This project evaluates the history of water conservation in the Dallas, Texas area and presents information about the potential impact of media and education programs on the conservation initiative based on a review of existing research. Determining the benefits of media and education programs from other locations can provide insight into the means of beginning a trend toward water conservation in the Dallas, Texas area and beyond.
**Student Presentations Session One (Friday, 8:30 a.m. to 10:00 a.m.)**

**Section 1**  
**Art/Music/Dance Papers**  
8:30  
"The Hidden Narrative: Exploring the Uses of Classical Music in Film"  
Dr. Howard Smolleck, New Mexico State University, moderating

8:45  
"Music in the Depths of Hell: An Outlet for Emotions, Entertainment, and Torture in Nazi Concentration Camps from 1935-1945"  
Kendra Bragg, North Carolina Zeta, Gardner-Webb University, Region III

9:00  
"Hearing the Light: The Case for Hildegard of Bingen's Synesthetic Experiences"  
Kate Ollphants, North Carolina Zeta, Gardner-Webb University, Region III

9:15  
"The Changing Connotation of the Curtain: Caravaggio vs. Joseph Wright of Derby"  
Erca Sturkie, Virginia Beta, Averett University, Region III

9:30  
"North Dakota Parks and Recreation Rebranding"  
Samuel Frawley, Tennessee Eta, Belmont University, Region III

**Section 2**  
**Philosophy, Mysticism, World Religions**  
8:30  
"The Ontological Disconnect"  
Dr. Tom Yarbrough, retired professor, East Central University, moderating

9:00  
"Transcending the Mundane: An Analysis of Classical Mysticism as Perceived by Contemporary Scholars Through the Lens of Endurance Running"  
Derek Davis Gibson, North Carolina Epsilon, Mars Hill University, Region III

9:15  
"Ashoka's Revival of Buddhism"  
Dr. Greg Clemons, Mars Hill University, moderating

**Section 3**  
**American Literature: 19th Century Writers**  
8:30  
"Historicism in Nathaniel Hawthorne’s ‘My Kinsman, Major Molineux’"  
Andrew Jacobs, Faulkner University, moderating

8:45  
"The Tracks of Concord: Walden as Muse"  
Dr. Mark Stevens, Southern Polytechnic State University, moderating

9:00  
"The Passing of Angels: Death in Uncle Tom’s Cabin and Little Women"  
Dr. Tom Yarbrough, retired professor, East Central University, moderating

9:15  
"Edgar Allan Poe and Mental Illness in the Mid-Nineteenth Century"  
Dr. Teagan Decker, University of North Carolina at Pembroke, moderating

9:30  
"Hearing the Light: The Case for Hildegard of Bingen’s Synesthetic Experiences"  
Kendra Bragg, North Carolina Zeta, Gardner-Webb University, Region III

**Section 4**  
**British Literature: Canonical and Mythic Texts**  
8:30  
"Creation and Convention: French Tradition and Emerging Realism in the Works of Geoffrey Chaucer"  
Dr. Mark Stevens, Southern Polytechnic State University, moderating

8:45  
"Split Personalities: Milton and His Characters"  
Dr. Mark Stevens, Southern Polytechnic State University, moderating

9:00  
"The Gray Town and the Unreal City: Remythologizing Hell in C.S. Lewis’s The Great Divorce and in T.S. Eliot’s The Waste Land"  
Dr. Mark Stevens, Southern Polytechnic State University, moderating

9:15  
"Intertextuality and Monstrous Ethics in Young Adult Literature"  
Dr. Mark Stevens, Southern Polytechnic State University, moderating

**Section 5**  
**World Literature**  
8:30  
"Something Achebe Got Wrong About Conrad"  
Dr. Greg Clemons, Mars Hill University, moderating

8:45  
"The Crippling Effect of Superiority in the Igbo and South African Apartheid Culture"  
Dr. Greg Clemons, Mars Hill University, moderating

9:00  
"Before You Die, You See the Ring: Culture Differences in ‘Ringu’ and ‘The Ring’"  
Dr. Greg Clemons, Mars Hill University, moderating

9:15  
"Identity Formation and the Element of Essential Divisibility"  
Dr. Greg Clemons, Mars Hill University, moderating

**Section 6**  
**Creative Writing**  
8:30  
"Convictions"  
Dr. Teagan Decker, University of North Carolina at Pembroke, moderating

8:45  
"A Day in the Life of a Strip Club"  
Dr. Teagan Decker, University of North Carolina at Pembroke, moderating
9:00 “Da’s Girl”
Molly Maschka, Iowa Iota, Waldorf College, Region IV

9:15 “Daughter of an American Mennonite”
Brownen Ellen Fetters, Indiana Beta, Huntington University, Region V

9:30 “The Summer We Grew Up (aka The Summer We Realized That Parents Are People, Too)”
Allie Sockwell, Tennessee Kappa, Lipscomb University, Region III

Section 7 Education: Vocabulary, Play, and Pencil Grasp

8:30 “The Statistical Significance of Flash Cards on Vocabulary Acquisition in the Spanish Classroom”
Dr. Lynda Leavitt, Lindenwood University, moderating

8:45 “Improving Scientific Vocabulary”
Kacey Loren Booth, Lindenwood University, Region IV, Missouri Pi Alumna

9:00 “What Are the Effects of Play upon Literacy and Language Development?”
Brittney K. Sykes, North Carolina Phi, Chowan University, Region III

9:15 “Go Play Outside! How Schools Can Use Natural Play Environments to Foster Critical Development Needs of Young Adolescents”
Brandi Culp, Arkansas Zeta, University of Arkansas at Monticello, Region II

9:30 “Does the Speed and Legibility of a Certain Pencil Grasp Influence a Student’s Preference for Handwriting or Keyboard Note-Taking?”
Charity Anne Byrum, North Carolina Zeta, Gardner-Webb University, Region III

Section 8 Organismal/Ecological Biology: Bacteria and a New Plant Species

8:30 “Determination If Erythrocyte Invasion by Francisella tularensis Increases Colonization of Ticks”
Leanne Mazzella, West Virginia Epsilon, West Liberty University, Region V

8:45 “Elucidating the Antimicrobial Effect of EGCG on Pseudomonas aeruginosa and Pseudomonas fluorescens by Examining Various Virulent Factors”
Tina Ann Johnson, Texas Alpha Pi, University of Texas at San Antonio, Region I

9:00 “Ecology of the Nitrogen-Fixing Bacterium Frankia: Assessing Populations in Soil Using SYBR Green-Based qPCR”
Suvidha S. Samant, Texas Iota, Texas State University, Region I, Graduate Student

9:15 “Enhanced Microbial Remediation of Nitrate and Perchlorate in a Simulated Aquifer Through Electrical Proton Reduction”
Linzi Thompson, Oklahoma Gamma, East Central University, Region II

9:30 “Edaphic Specialization in the Neoe ndemic Plant Mentzelia monensis”
Tina Ann Johnson, Texas Psi, Abilene Christian University, Region I

Section 9 Anthropology/Sociology: Technological Influences and World Perspectives

8:30 “The History of the Cell Phone and the Impact of Text Messaging”
Megan R. Drake, Texas Alpha Beta, University of Texas at El Paso, Region I

8:45 “Online Sexuality’s Impact on Relationships”
Samantha McCauley, Iowa Beta, William Penn University, Region IV

9:00 “The Rwandan Genocide”
Minnie Washington, Missouri Theta, Park University, Region IV

9:15 “Beyond Puerto Rican Humor: The Identity, the Spanglish, the Machismo, and the Ladies”
Joanna Gonzalez, New York Sigma, Long Island University, Brooklyn, Region VI

9:30 “The Context and Impacts of Land Reform in China”
Daniel Binkoski, Indiana Beta, Huntington University, Region V

Section 10 Psychology A: Motivation and Depression

8:30 “Drinking Motives and Booze: The Relationship Between Social Anxiety and Alcohol Consumption Among College Students”
Angelica Yolanda Satchell, North Carolina Phi, Chowan University, Region III

8:45 “Motivating a Healthy Lifestyle”
Haley Beer, Indiana Alpha, Anderson University, Region V

9:00 “Social Psychology”
Saranjot Kaur, Delaware Beta, Goldey-Beacom College, Region VI

9:15 “Activating Our Youth: An Application of the Theory of Planned Behavior”
Hailey Ann Simmons, Arkansas Iota, Lyon College, Region II

9:30 “Relationship Between Significance of Music and Level of Depression”
Sarah Stahmer, Kansas Epsilon, Friends University, Region IV

Section 11 Psychology B: Technology, Cognition, and Stress

8:30 “The Relationships Between Cell Phone Dependency, Texting, and GPA: What Is the Connection Between Cell Phones and GPA?”
Brittany Thornton Brown, North Carolina Phi, Chowan University, Region III

8:45 “Techno-Interruptions and Self-Regulation”
Jessica Gladfelter, Virginia Delta, Roanoke College, Region III

9:00 “The Origin of Human Language: An Integration of Anthropology and Cognitive Neuroscience”
Nicole Marshall, California Zeta, Fresno Pacific University, Region VII

9:15 “Veteran Scholar Program: Female Student Veterans and Stress”
Ana Gonzalez, Texas Alpha Pi, University of Texas at San Antonio, Region I
Section 12 Political Science/Economics: Political Races and Environmental Studies

8:30 “Preserving the Colorado River Through Deregulation”
Daniel Markendorf, California Iota, California State University, Bakersfield, Region VII

8:45 “Preserving Trees in Texas: An Evaluation of Urban Forestry Regulations”
Brendan Lavy, Texas Iota, Texas State University, Region I, Graduate Student

9:00 “Firsthand Political Education”
Preston T. Wimberly, Texas Alpha Iota, Angelo State University, Region I

John Thomas Faircloth, Tennessee Eta, Belmont University, Region III

9:30 “Little Miss vs. Mr. Man: A Comparative Analysis of Female and Male Congressional Candidates”
Kaylin Cullum, Oklahoma Gamma, East Central University, Region II

Section 13 Health Science A: Treatment of Disease

8:30 “Allogeneic Stem Cell Transplantation in Two Patients with Therapy-Related Acute Myeloid Leukemia and History of Non-Hodgkin Lymphoma in Remission Following an Autologous Stem Cell Transplant for Relapsed Disease”
Kacie Nicole Hoyle, Tennessee Delta, Carson-Newman University, Region III

8:45 “A Case Study of Diverticulitis”
Gabrielle Saucer, Texas Beta, University of Mary Hardin-Baylor, Region I

9:00 “The Effects of the Diabetic Milieu on the Development of Nephropathy”
Tricia Haley, Indiana Alpha, Anderson University, Region V

9:15 “Aquatic Therapy for Individuals with Lupus and Multiple Sclerosis: Assessing Its Efficacy”
Reji Shaju, New York Sigma, Long Island University, Brooklyn, Region VI

Carl John Kornman, Texas Alpha Xi, University of Texas at Tyler, Region II

Section 14 Health Science B

8:30 “Microbiological Benefits for Infants Delivered Vaginally Versus Cesarean Section”
Morgan Ostwinkle, Texas Alpha Iota, Angelo State University, Region I

8:45 “Midwives and Physicians in Maternity Care: Results of a Rapid Transition from Home to Hospital in the United States”
Kerri Beth Slaughter, Tennessee Nu, Milligan College, Region III

9:00 “Purification and Characterization of Bactericidal Compound in Local Lichen”
Kristen Fisher, Missouri Delta, Westminster College, Region IV

9:15 “Conserving Environment in Simple Ways”
Suravi Shrestha and Tripti Giri, Missouri Delta, Westminster College, Region IV

Section 15 Business Administration: Management

8:30 “Quality and Its Successful Management”
Carina Spengler, Georgia Lambda, Thomas University, Region III

8:45 “Leading with Kindness”
Marlene Kasama, Kentucky Mu, St. Catharine College, Region V, Graduate Student

9:00 “Ethics and Human Resources: The Performance Review Pandemic”
William Grey DePledge, California Zeta, Fresno Pacific University, Region VII

9:15 “Stress Management in the Workplace”
Nistha Pradhan, Mississippi Beta, William Carey University, Region III

9:30 “The Impact of Intrinsic and Extrinsic Motivation on Students and Workers”
Nicola Jamal Khouri, North Carolina Phi, Chowan University, Region III
Student Presentations Session Two (Friday, 11:30 a.m. to 12:30 a.m.)

Section 16 Performing Arts .................................................................................................................. Grand A
Dr. Linda Thompson, Harding University, moderating

11:30 “I’ve Got a Package!”
Heather Nicole Bronson, North Carolina Epsilon, Mars Hill University, Region III
11:45 “Loewe and Schumann—Contemporaries in Comparison: Frauenliebe und—leben”
Timothi Williams, West Virginia Epsilon, West Liberty University, Region V
12:00 “Tunnel Tonicization”
Jesse Peck, Tennessee Eta, Belmont University, Region III
12:15 “Nuvole Bianche: A Piano Piece by Ludovico Einaudi”
Christopher Grimes Safley, Arkansas Eta, Harding University, Region II

Section 17 American History .............................................................................................................. Grand B
Dr. Danny Moore, Chowan University, moderating

Jacob H. Ashley, North Carolina Epsilon, Mars Hill University, Region III
11:45 “America's Failed Revolution: A Secret Society’s Involvement in the Aaron Burr Conspiracy”
Dan Deggges, Arkansas Zeta, University of Arkansas at Monticello, Region II
12:00 “Could’ve Been the Whiskey. Might’ve Been the Wine: The Tie That Binds Washington County Together”
Stephen Davis Hale, Kentucky Mu, St. Catharine College, Region V, Graduate Student
12:15 “Supplying Fraternalism: Demoulin Bros. & Co. and Side Degree Paraphernalia”
Adam Stroud, Lindenwood University, Region IV, Missouri Pi Alumnus

Section 18 American Literature: Women Writers .................................................................................. Grand C
Dr. Wesley Beal, Lyon College, moderating

11:30 “The Heart Is A Lonely Hunter: Characters and Their Alcohol”
Jannae Thomason, Indiana Beta, Huntington University, Region V
11:45 “An Ecocritical Literary Criticism of Dillard’s Holy the Firm”
Jannarae R. Niece, Kentucky Mu, St. Catharine College, Region V
12:00 “Transcendentalism in Poetry: Enter Denise Levertov”
Krysta Woods, Texas Alpha Gamma, Midwestern State University, Region I
12:15 “Tearing Away the Bars: Luce Irigaray, Patriarchal Language, and 'The Yellow Wallpaper’”
Alyssa Keyes, Mississippi Beta, William Carey University, Region III

Section 19 British Literature: 19th Century Voices ........................................................................... Grand D
Diane Wahl, University of North Texas, moderating

Molly Young, Arkansas Iota, Lyon College, Region II
11:45 “A Dialogical Discourse: Gaskell’s Social Commentary on a Divided Culture”
Elisa Wyrick, Texas Psi, Abilene Christian University, Region I
12:00 “Freakery as Social Evolution in Wilkie Collins’s The Woman in White”
Kelby Dayne Newcomb, Arkansas Iota, Lyon College, Region II
12:15 “Misguided Truths: Chronicling Fact-Value Distinctions in Keats, Tennyson, and Eliot”
Caitlin Burnside, Georgia Theta, Shorter University, Region III

Section 20 Creative Writing: Original Fiction ....................................................................................... Regency B
Jason Parks, Anderson University, moderating

11:30 “Light-Up Shoes”
Kelsey Elizabeth Cooper, Texas Alpha Delta, Texas Lutheran University, Region I
11:45 “Dirty Laundry”
Andrew McCollister, North Carolina Omicron, Catawba College, Region III
12:00 “JUST FINE: A Novel and a Mantra”
Annie E. Tesh, North Carolina Epsilon, Mars Hill University, Region III
12:15 “Love | Lust”
Tiffany Lee, Hawaii Beta, Hawaii Pacific University, Region VII

Section 21 World History: Women's Roles, Independence, and Democracy ..................................... Regency C
Dr. Pamela Johnston, Fresno Pacific University, moderating

11:30 “Blood Countess: The Story of Elizabeth Bathory”
Jennifer E. Humphrey, North Carolina Phi, Chowan University, Region III
11:45 “Gender and Ideological Affiliations: An Evaluation of Female Sexual and Reproductive Rights in the German Democratic Republic and the Federal Republic of Germany”
Jennifer Barker, Arkansas Gamma, University of Central Arkansas, Region II
12:00 “Lithuania: The Road to Freedom and Independence”
Christy Vitkus, Tennessee Eta, Belmont University, Region III
12:15 “Democratic After Tian'anmen”
Ge Huang, New Hampshire Alpha, Colby-Sawyer College, Region VI
Section 22 Organismal/ Ecological Biology: Aquatic Environments
Dr. Tim Lindblom, Lyon College, moderating

- **11:30** “Estuaries: An Inconvenient Necessity”
  Danyel G. Christensen, Kansas Epsilon, Friends University, Region IV

- **11:45** “Population Growth, Food, and Water”
  Kevin Mills, North Carolina Zeta, Gardner-Webb University, Region III

- **12:00** “Is the Use of Dolphin-Assisted Therapy on Children with Special Needs Truly Effective?”
  Michelle Jacobson, North Carolina Phi, Chowan University, Region III

- **12:15** “The Scientific Method: An Aquaponics Endeavor”
  Kristina Grayson, North Carolina Zeta, Gardner-Webb University, Region III

Section 23 Education: Increasing Learning
Dr. Lynda Leavitt, Lindenwood University, moderating

- **11:30** “Implementing Concept Cartoons into the Mathematics Classroom”
  Lexi Bilbruck, Illinois Beta, Blackburn College, Region V

- **11:45** “Using iPads for Literacy Learning”
  Alyssa Vincent, Kentucky Delta, Brescia University, Region V

- **12:00** “The Implementation of Technology and Read-Alouds in the Middle Grades Promoting a More Positive and Engaging Attitude Towards Reading”
  Alicia Jilma Satchell, North Carolina Phi, Chowan University, Region III

- **12:15** “In the True: Writing About Writing as a Means for Entering the Discourse”
  Paul D. LaPrade, University of Texas at El Paso, Region I, Texas Alpha Beta Alumnus

Section 24 Communication: Theory and Practice
Heather Harris, Stevenson University, moderating

- **11:30** “Acceptance and Avoidance: The Affordable Care Act and the Elaboration Likelihood Model”
  Kelly Reed, Arkansas Zeta, University of Arkansas at Monticello, Region II

- **11:45** “Auteur Theory and Tim Burton”
  Ashley A. Morrow, Texas Beta Alpha, Texas A&M University-Texarkana, Region II

- **12:00** “Infographic for 12-Step Based Drug and Alcohol Treatment Program”
  Adam Fout, Texas Eta, University of North Texas, Region II

- **12:15** “Athletics and Racetalk in a Small Midwestern Town: How Whites Perceive Black Athletic Ability”
  William D. Stauffer, Indiana Alpha, Huntington University, Region V

Section 25 Business Administration: Economics and Finance
Dr. Bob Mahan, Milligan College, moderating

- **11:30** “Honduras International Trade Performance After the Entry into the CAFTA-DR”
  Emisa Aracely Diaz Hernandez, Arkansas Eta, Harding University, Region II

- **11:45** “NFL vs. MLB: Economic Comparison”
  Harrison Gore, Alabama Delta, Faulkner University, Region III

- **12:00** “An Insight on Investments and IRAs”
  Ivan Doubrogave, North Carolina Phi, Chowan University, Region III

Section 26 Contemporary Bioethical Issues: Correlations and Causes
Dr. Tom Yarbrough, retired professor, East Central University, moderating

- **11:30** “The Poverty-Environment Nexus: An Investigation of the Spiraling Nature of Poverty and its Role as Both a Cause and a Result of Environmental Degradation”
  Sierra Raine Berry, Texas Iota, Texas State University, Region I

- **11:45** “Wrongful Birth’ Ethics: A Case Study”
  Timothy Duke, Florida Xi, Florida College, Region III

- **12:00** “The Relationship Between Personal Ethical Norms and Attitudes Towards Science”
  Alexis Kaiser, Indiana Alpha, Anderson University, Region V

Section 27 Computer Science/ Engineering: Practical Applications
Dr. Howard Smolleck, New Mexico State University, moderating

- **11:30** “An Animal Insect Disease App for Use In Saudi Arabia”
  Qazi Ahmed, Georgia Nu, Southern Polytechnic State University, Region III

- **11:45** “Jobs4Us: A Website for Foster Care Graduates”
  Bradley Shedd, Georgia Nu, Southern Polytechnic State University, Region III

- **12:00** “A Linear Solution Generating Algorithm to the N-Queens Problem Using Vector Spaces over Finite Fields”
  John Robert Pope, Arkansas Iota, Lyon College, Region II

- **12:15** “Big Data and Its Application”
  Bishesh Lal Shrestha and Yasna Rajkarnikar, Missouri Delta, Westminster College, Region IV

Section 28 Chemistry: Synthesis, Isolation, and Free Radicals
Dr. Randel Price, Christian Brothers University, moderating

- **11:30** “Synthesis and Characterization of Tetra-3,3',5,5'-arylazadipyrromethanes”
  Chane Szymeter, Texas Alpha Gamma, Midwestern State University, Region I

- **11:45** “Synthesis and Acid Catalyzed Rearrangement of Ortho, Para, and Meta bis-substituted Sulfonamides”
  Dominique Moody, Pennsylvania Kappa, University of the Sciences, Region VI

- **12:00** “Saving a Victim: The Isolation of an Argininesterase from Agkistrodon Contortrix Contortrix Venom”
  Johnna Henry, Texas Alpha Gamma, Midwestern State University, Region I

- **12:15** “The Effects of Free Radicals on Tropospheric Chemistry”
  Joshua Johnson, North Carolina Zeta, Gardner-Webb University, Region III
### Student Presentations Session Three (Saturday, 8:00 a.m. to 9:30 a.m.)

#### Section 29 Performing Arts and Creative Writing

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>“Jazz: An Expressive Outlet”</td>
<td>Caitlin Campbell, Arkansas Iota, Lyon College, Region II</td>
</tr>
<tr>
<td>8:15</td>
<td>“Five Bagatelles by Gerald Finzi (Solo Clarinet)”</td>
<td>Keith Xavier Harding, Alabama Delta, Faulkner University, Region III</td>
</tr>
<tr>
<td>8:30</td>
<td>“Meeting Islam”</td>
<td>Neely Baugh, Tennessee Kappa, Lipscomb University, Region III</td>
</tr>
<tr>
<td>8:45</td>
<td>“Exploring Voices: Perspective in Poetry”</td>
<td>Kalika Jaeckel, Kansas Epsilon, Friends University, Region IV</td>
</tr>
</tbody>
</table>

#### Section 30 Religion and Philosophy: Biblical and Doctrinal Issues

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>“The Caffyn Controversy and the Orthodox Creed: Reciprocal Causes and Effects”</td>
<td>Alex Carver, Tennessee Delta, Carson-Newman University, Region III</td>
</tr>
<tr>
<td>8:15</td>
<td>“The Burning Controversy in America”</td>
<td>Caleb Dillinger, West Virginia Zeta, Ohio Valley University, Region V</td>
</tr>
<tr>
<td>8:30</td>
<td>“Making Sense of Eternal Salvation”</td>
<td>Ashley Rae Buhts, Texas Alpha Delta, Texas Lutheran University, Region I</td>
</tr>
<tr>
<td>8:45</td>
<td>“Is Satan Really Evil?: Exploring the Character of Satan in the Old Testament and Synoptic Gospels in Comparison to a Few Modern Interpretations”</td>
<td>Rachael E. Bradley, North Carolina Zeta, Gardner-Webb University, Region III</td>
</tr>
<tr>
<td>9:00</td>
<td>“When Baal and Yahweh Became One: A Brief History of Syncretism in Ancient Israel”</td>
<td>Rachel Hawkins, Missouri Rho, Evangel University, Region IV</td>
</tr>
</tbody>
</table>

#### Section 31 American Literature

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>“Literary Fiction in a Web 2.0 World”</td>
<td>Todd Spear, Georgia Lambda, Thomas University, Region III</td>
</tr>
<tr>
<td>8:15</td>
<td>“Collective Adversity: The True Knot from Stephen King’s Doctor Sleep and the Autumn People from Ray Bradbury’s Something Wicked This Way Comes”</td>
<td>Brian Glen Daniels, Virginia Beta, Averett University, Region III</td>
</tr>
<tr>
<td>8:30</td>
<td>“Monomyth, Racism, and Dragons: An Exploration of The Elder Scrolls V: Skryim”</td>
<td>Daniel Archer, Texas Psi, Abilene Christian University, Region I</td>
</tr>
<tr>
<td>8:45</td>
<td>“The Comical Race: An In-Depth Look Into the Portrayals of Race in Illustrative Narratives”</td>
<td>Misha Matsumoto, Hawaii Beta, Hawaii Pacific University, Region VII</td>
</tr>
<tr>
<td>9:00</td>
<td>“Assimilation and Identity: The Clash Between Italian-American Parents and Their Children”</td>
<td>Sharmin Amjad, New York Sigma, Long Island University, Brooklyn, Region VI</td>
</tr>
</tbody>
</table>

#### Section 32 Anthropology/Sociology: Community and Outsiders

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>“I Just a Little More Amish”</td>
<td>Kassi Lewis, Missouri Lambda, Missouri Western State University, Region IV</td>
</tr>
<tr>
<td>8:15</td>
<td>“Tales From My Mother: The Impact of Family Narrative on Resilience”</td>
<td>Emily Snyder, Tennessee Eta, Belmont University, Region III</td>
</tr>
<tr>
<td>8:30</td>
<td>“An’ if it Harm the Least: A Reflexive Review of an Esoteric Community and the Military”</td>
<td>Emily Knott, South Carolina Alpha, Lander University, Region III, Graduate Student</td>
</tr>
<tr>
<td>8:45</td>
<td>“Sex Trafficking”</td>
<td>Courtney Kleinschmidt, Iowa Beta, William Penn University, Region IV</td>
</tr>
<tr>
<td>9:00</td>
<td>“Exploiting the Homeless”</td>
<td>Miranda West, Tennessee Eta, Belmont University, Region III</td>
</tr>
</tbody>
</table>

#### Section 33 Shakespeare

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>“Shakespeare’s Feisty Couples”</td>
<td>Veronica Garrison-Joyer, Maryland Alpha, Bowie State University, Region VI</td>
</tr>
<tr>
<td>8:15</td>
<td>“The Reinforcement of Patriarchy as a Result of Female Power in Shakespeare’s The Winter’s Tale”</td>
<td>Katherine Emily Gale, Missouri Epsilon, Columbia College, Region IV</td>
</tr>
<tr>
<td>8:30</td>
<td>“Shakespeare’s Unoriginality”</td>
<td>Molly Renee Murphy, California Theta, University of La Verne, Region VII</td>
</tr>
<tr>
<td>8:45</td>
<td>“The Tempest: Fighting the War on White Men”</td>
<td>Riley Welck, Texas Alpha Beta, University of Texas at El Paso, Region I, Graduate Student</td>
</tr>
</tbody>
</table>

#### Section 34 Political Science/Economics: Growth, Advertising, and Poverty

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00</td>
<td>“The Effects of Advertising Expenditure on a Company’s Revenue”</td>
<td>Jessica Kickham, Missouri Delta, Westminster College, Region IV</td>
</tr>
<tr>
<td>8:15</td>
<td>“Temporary FEMA Group Housing as an Urban Growth Machine: Perspectives of Post-Katrina Louisiana”</td>
<td>Elyse Zavar, Texas Iota, Texas State University, Region I, Graduate Student</td>
</tr>
<tr>
<td>8:30</td>
<td>“Impact Assessment of Fundación Mujer: The Role of Microcredit Institutions in Developed Countries”</td>
<td>Jennifer Zarek, Nebraska Alpha, Hastings College, Region IV</td>
</tr>
</tbody>
</table>

---
Section 35  Organismal/Ecological Biology: Critters ................................................................. Regency C
Enni O'Toole, University of North Texas, moderating
8:00  "Anticipating Hibernation Emergence of Eastern Box Turtles in Southeastern Fire-managed Systems"
Catheryn Dawn Wilson, North Carolina Kappa, University of North Carolina at Pembroke, Region III
8:15  "Stress Physiology in Rana sphenocephala"
Jylan Wilde, North Carolina Phi, Chowan University, Region III
8:30  "The American Oyster and Its Many Roles in the Northern Gulf of Mexico"
Shelby Gabrielle Barrett, Mississippi Beta, William Carey University, Region III
8:45  "Arthrogryposis Multiplex: Curly Calf Syndrome"
Katlynn Cox, Texas Alpha Iota, Angelo State University, Region I
9:00  "Factors That Affect Red-Cockaded Woodpecker Dispersal"
Sheridan Bigg, North Carolina Epsilon, Mars Hill University, Region III

Section 36  Chemistry: Cancer, Migraine, and Autoimmune ............................................. New York Central
Dr. Alexander Silvius, Park University, moderating
8:00  "Identification of Ajulemic Acid Receptors to Investigate the Mechanism of Cell Death in Ewing's Sarcoma"
Rebekah Marie Ward, Arkansas Beta, Ouachita Baptist University, Region II
8:15  "Treating Cancer Using Polymers"
Ashlie C. Reagan, Tennessee Gamma, Tennessee Wesleyan College, Region III
8:30  "CGRP Receptor Antagonists in Migraine Treatment"
Kaylan L. Powers, Tennessee Gamma, Tennessee Wesleyan College, Region III
8:45  "Inhibiting Recognition of the B-Cell Receptor by the Tyrosine Kinase Syk"
Timothy Munson Horton, Arkansas Beta, Ouachita Baptist University, Region II

Section 37  Psychology A: Crime, Abuse, and Suicide ................................................. Illinois Central
Dr. Jennifer Daniels, Lyon College, moderating
8:00  "Neuropsychology of a Killer"
Jourdin Watkins, Kansas Delta, Kansas Wesleyan University, Region IV
8:15  "Criminal Profiling"
Kelsey Hostetter, Indiana Lambda, Indiana Institute of Technology, Region V
8:30  "Academic and Behavioral Outcomes Due to Maltreatment: A Literature Review on the Effects of Neglect, Sexual, and Physical Abuse"
Alexis Lynnette Wilkerson, North Carolina Phi, Chowan University, Region III
8:45  "Personality Tendencies and Relationships"
Alexandria Pierce, Kansas Delta, Kansas Wesleyan University, Region IV

Section 38  Psychology B: Mental Illness, Resilience, and Ethics ....................................... Missouri Pacific
Jennifer Jones, Grand Canyon University, moderating
8:00  "Socioeconomic Status and the Endorsement of Stigmatizing Attitudes Toward the Mentally Ill"
Crystal Thomas, Arkansas Iota, Lyon College, Region II
8:15  "Esther as a Model of Resilience"
Andrea Thomas, North Carolina Zeta, Gardner-Webb University, Region III
8:30  "Religion as a Coping Technique"
Samantha Allen, North Carolina Zeta, Gardner-Webb University, Region III
8:45  "Ethics in Psychological Research"
Danielle Giannotti, Iowa Beta, William Penn University, Region IV

Section 39  Molecular/Cellular Biology: Molecular Modification and New Therapies .................... Frisco
Dr. Lori Hensley, Ouachita Baptist University, moderating
8:00  "What Is in Your Food? Searching for Genetic Modification in Strawberries"
Holly Jones, North Carolina Xi, Greensboro College, Region III
8:15  "Mechanism of Inhibition of Recombinant GABA Receptors by Pentyleneetetrazole and Alleviation by Anticonvulsants"
Akimasa Iijima, Hawaii Beta, Hawaii Pacific University, Region VII
8:30  "Antibiotic Resistance at Variant Temperatures: Pseudomonas aeruginosa"
Samantha D. Knowlton, West Virginia Epsilon, West Liberty University, Region V
8:45  "Can Mesenchymal Stem Cell Therapy Replace the Standard Surgical Procedures for Managing Degenerative Disc Disease?"
Ashley Meadows, Texas Alpha Delta, Texas Lutheran University, Region I
9:00  "Oxytocin Delivery as a Therapy for Autism Spectrum Disorder"
Michael Christopher Suarez, Texas Alpha Xi, University of Texas at Tyler, Region II
Section 40 Health Science A: Analyzing Health Education and Industry
Dr. Laura Haubrick, Shenandoah University, moderating

8:00 “Improving Disaster Awareness and Preparedness Among Families of Children with Special Health Care Needs”
Matthew J. Baltz, Arkansas Iota, Lyon College, Region II

8:15 “The Coordinated Approach to Child Health (CATCH)-A Health Promotion Analysis”
Richard Plumlee, Texas Alpha Pi, University of Texas at San Antonio, Region I

8:30 “Health Fairs: An Examination of Differences in the Health Status of Various Socioeconomic Groups”
Jordanna Twilley, Tennessee Kappa, Lipscomb University, Region III

8:45 “Health Science Study Abroad in Mexico”
Hadassah Tillotson, Kansas Epsilon, Friends University, Region IV

9:00 “Health Insurance and Hospital Admission”
Reza Amini, Texas Eta, University of North Texas, Region II, Graduate Student

Section 41 Health Science B: Cardiac Issues, Cortisol, and Caffeine
Dr. Jon Scales, Midwestern State University, moderating

8:00 “Examination of Atrioventricular Block With Possible Myelodysplastic Complications”
Anna Dellomo, New York Theta, Marist College, Region VI

8:15 “Takotsubo Cardiomyopathy”
Jessica Cagle, Texas Alpha Xi, University of Texas at Tyler, Region II

8:30 “Chronic Stable Angina”
Kaylee Marie Dean, Texas Alpha Xi, University of Texas at Tyler, Region II

8:45 “Hair Cortisol as a Predictor of Retrospective Outcomes in Infants and Young Children”
Stephanie Allen-Winters, Tennessee Theta, Christian Brothers University, Region III

9:00 “‘Should I Kill Myself or Have A Cup of Coffee?’ Caffeine, the Gateway Drug”
Casey Adams, Kansas Epsilon, Friends University, Region IV

Section 42 Education: Individual Development and Course Creation
Bill Potter, Hawai’i Pacific University, moderating

8:00 “Veronica Roth’s Divergent: Intersecting Adolescent Identity Development and Entertainment”
Kimberly Kolpek, Tennessee Kappa, Lipscomb University, Region III

8:15 “Spatial Reasoning Skills: Acquired or Instructed?”
Ellen Zimmerman, Texas Eta, University of North Texas, Region II, Graduate Student

8:30 “Suprasegmental Effects on the Comprehensibility of Foreign Speakers”
Beth Stevens, Missouri Rho, Evangel University, Region IV

8:45 “Creating HUM 2990: Jewish Culture and Literature”
Jedidiah Irving Bressman, Indiana Lambda, Indiana Institute of Technology, Region V

9:00 “El Sueño Americano: A Study of Why Latinos are Underrepresented in Higher Education”
Christianna Anneke Snyder, Tennessee Nu, Milligan College, Region III

Student Presentations Session Four (Saturday, 11:30 a.m. to 12:30 a.m.)

Section 43 Art/ Music/ Dance Papers: Global Perspectives
Grand A

11:30 “Tisa Tash ’19”
Farrah Al Sulaiman, Texas Omicron, Sam Houston State University, Region II

11:45 “Pop Culture, Gender, and Democracy: South Korean P’ungmul Music”
Sarah Wolf, Nebraska Alpha, Hastings College, Region IV

12:00 “A Synthesis of Old and New: Carlos Chávez”
Katerina Canter, North Carolina Epsilon, Mars Hill University, Region III

12:15 “Music as Transcendent Order: The Connection Between Mousike and Logos in Ancient Greek Education”
Charles Anthony Castanon, California Zeta, Fresno Pacific University, Region VII

Section 44 World History: WWII
Grand B

11:30 “The First Burma Campaign and the Japanese Thorn”
Flikah Barber, Missouri Lambda, Missouri Western State University, Region IV

11:45 “The Root of Evil: Comparing the Formative Influences on Hitler and Mussolini”
Amy Landhuis, Indiana Beta, Huntington University, Region V

12:00 “We Hold What We Have (and Yield What We Must): The Impact of American Anti-Imperialism on British Colonial Policy (1940-1945)”
Andrew Wickersham, Indiana Beta, Huntington University, Region V

Section 45 Political Science/ Economics
Grand C

11:30 “Discrimination In Our Criminal Justice System”
Raul Vasquez, Texas Alpha Pi, University of Texas at San Antonio, Region I

11:45 “Race and Space: Who Goes Hungry in Our Communities?”
Emily Johnson, Nebraska Alpha, Hastings College, Region IV

12:00 “Opportunity Cost of Time Considerations in a Provision Point VCM: Experimental Evidence”
Joshua J. Gongaware and Joseph Stopansky, Pennsylvania Nu, Saint Vincent College, Region VI
### Section 46: World Literature

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30</td>
<td>“Prosimetrics and Popular Philosophy: Boethius and the Effective Communication of Truth”</td>
<td>Anthony J. Fredette, California Zeta, Fresno Pacific University, Region VII</td>
</tr>
<tr>
<td>11:45</td>
<td>“Translation or Original?”</td>
<td>Jennifer Greene, Tennessee Kappa, Lipscomb University, Region III</td>
</tr>
</tbody>
</table>

Dr. Kate Stewart, University of Arkansas at Monticello, moderating

### Section 47: British Literature

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30</td>
<td>“Using Dream Theory and Stages of Loss in The Gawain Poet’s The Pearl”</td>
<td>Nikola K. Green, Tennessee Delta, Carson-Newman University, Region III</td>
</tr>
<tr>
<td>11:45</td>
<td>“Limitlessness Through Limitation: A Comparison of the Sublime in the Works of Kant and Wordsworth”</td>
<td>Stephen T. Sanders, South Carolina Alpha, Lander University, Region III</td>
</tr>
<tr>
<td>12:00</td>
<td>“Subjectivity, Subjugation, and Stereotype in Stoker’s Dracula”</td>
<td>Alexandra Patrono-Smith, Arkansas Iota, Lyon College, Region II</td>
</tr>
<tr>
<td>12:15</td>
<td>“The Smell of Empire: Mimetic Identity in Burmese Days”</td>
<td>Rebekah Renee Grado, Texas Alpha Beta, University of Texas at El Paso, Region I, Graduate Student</td>
</tr>
</tbody>
</table>

Dr. Kip Wheeler, Carson-Newman University, moderating

### Section 48: Psychology A: Memory and Attention

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30</td>
<td>“The Effect of Positive Training on Attention to Negative Stimuli in Anxious Individuals”</td>
<td>Savannah Ladage and Elizabeth Wilson, TennesseeEta, Belmont University, Region III</td>
</tr>
<tr>
<td>11:45</td>
<td>“Effects of Seating on Attention”</td>
<td>Christine R. Dumouchel, South Carolina Iota, Erskine College, Region III</td>
</tr>
<tr>
<td>12:00</td>
<td>“Short Term Memory Recall Amidst Distraction: Aural and Visual”</td>
<td>Natalie Beers, Missouri Lambda, Missouri Western State University, Region IV</td>
</tr>
<tr>
<td>12:15</td>
<td>“Intentional Blindness Among College Students Pursuing Professional Degrees and Liberal Arts Majors”</td>
<td>Lisa Lin, New York Sigma, Long Island University, Brooklyn, Region VI</td>
</tr>
</tbody>
</table>

Dr. Jonathan Miller, Ohio Valley University, moderating

### Section 49: Psychology B: Parenting and Autism

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30</td>
<td>“The Effect of Scenario and Respondent Parenting Style During Childhood on Perception of Scenario Self-Regulatory Ability in College Students”</td>
<td>Delaney A. Bivens, Arkansas Eta, Harding University, Region II</td>
</tr>
<tr>
<td>11:45</td>
<td>“Psychopathy and Parenting: The Role of Parental Abuse and Neglect in the Development of Psychopathy”</td>
<td>David G. Carlelli, Rhode Island Alpha, Roger Williams University, Region VI</td>
</tr>
<tr>
<td>12:15</td>
<td>“Understanding Autism: Embrace the Differences, Don’t Fear Them”</td>
<td>Angie Rickers, Nebraska Alpha, Hastings College, Region IV</td>
</tr>
</tbody>
</table>

Sarah Pivonka, Texas State University, moderating

### Section 50: Chemistry: Fingerprint Acids, Nano-Films, and Quantum Bonds

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30</td>
<td>“An Analysis and Comparison of the Fatty Acid Composition of Fingerprints Across Racial Groups”</td>
<td>Calvin Eastwood, Kansas Epsilon, Friends University, Region IV</td>
</tr>
<tr>
<td>11:45</td>
<td>“Nano-SnO2 Buffer Layer Formation Enhanced by an Ultrasonic Probe”</td>
<td>Allison Davis, Missouri Theta, Park University, Region IV</td>
</tr>
<tr>
<td>12:00</td>
<td>“Atomic Arms: A Review of the Quantum Wave Mechanics Underlying the Valence Bonding Theory”</td>
<td>R. Thomas Wampler II, Tennessee Nu, Milligan College, Region III</td>
</tr>
</tbody>
</table>

Dr. Alexander Silvius, Park University, moderating

### Section 51: Mathematics: Game Theory, Primes, Set Theory, and Modeling

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30</td>
<td>“When It’s Smart to be Dumb”</td>
<td>Holly Kathleen Anderson, South Carolina Iota, Erskine College, Region III</td>
</tr>
<tr>
<td>11:45</td>
<td>“The Necessity of Primes in RSA Encryption and Probable Primes”</td>
<td>Brandi Haliscak, Texas Alpha Delta, Texas Lutheran University, Region I</td>
</tr>
<tr>
<td>12:00</td>
<td>“Set Theory: To Infinity and Beyond”</td>
<td>Emilie O’Brien, Kentucky Lambda, Campbellsville University, Region V</td>
</tr>
<tr>
<td>12:15</td>
<td>“Prediction Model of the Rabies Epidemic in Southeast-Asia for the Next 25 years”</td>
<td>Amy Mezarrina, West Virginia Zeta, Ohio Valley University, Region V</td>
</tr>
</tbody>
</table>

Dr. Victoria Neagoe, Goldey-Beacom College, moderating

### Section 52: Communication: Cultural and Personal Understanding

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30</td>
<td>“Cults and Rhetoric: An Examination of Jim Jones’ Last Sermon”</td>
<td>Allison Ens, California Zeta, Fresno Pacific University, Region VII</td>
</tr>
<tr>
<td>11:45</td>
<td>“Understanding the Armenian-Mexican Conflict”</td>
<td>Jessica Houston, Missouri Epsilon, Columbia College, Region IV</td>
</tr>
<tr>
<td>12:00</td>
<td>“Bond Girls: The Ladies of 007 as Idealized Womanhood”</td>
<td>Tonya R. Powers, Kansas Delta, Kansas Wesleyan University, Region IV</td>
</tr>
<tr>
<td>12:15</td>
<td>“Language: The Ultimate Tool of Revelation”</td>
<td>Evan Vaughn, Tennessee Eta, Belmont University, Region III</td>
</tr>
</tbody>
</table>

Dr. Karl Havlak, Angelo State University, moderating
Section 53  Business Administration
Dr. Labi Tiamiyu, Harris-Stowe State University, moderating

11:30  “Globalization and International Corporate Responsibility”
      Shawnauna Middleton, South Carolina Alpha, Lander University, Region III

11:45  “The Value of Intrapreneurship”
      Angela Houston, Missouri Epsilon, Columbia College, Region IV

12:00  “Consumerism in a Secular World”
      Sheena Ariel Riley, Alabama Delta, Faulkner University, Region III

12:15  “Home Safe”
      Zachary Sprung, Grand Canyon University, Arizona Alpha, Region VII

Section 54  Exercise Science/Nutrition
Dr. Tim Lindblom, Lyon College, moderating

11:30  “Childhood Obesity, School Nutrition, and Physical Education”
      Rachel Brown, North Carolina Kappa, University of North Carolina at Pembroke, Region III

11:45  “Wolff-Parkinson-White Syndrome in Two Division I College Athletes”
      Michelle Cooper, North Carolina Zeta, Gardner-Webb University, Region III

12:00  “Oh, Sugar. Oh, Sweet, Sweet Drug”
      Sofia Elmaliki, Tennessee Eta, Belmont University, Region III

12:15  “What is Parkour?”
      Natalie Zimmerman, Indiana Lambda, Indiana Institute of Technology, Region V

Section 55  Computer Science/Engineering: Introduction and Analysis
Michelle Putnam, Lipscomb University, moderating

11:30  “A Brief Introduction to Artificial Intelligence”
      Duane Miles Murphy, North Carolina Phi, Chowan University, Region III

12:00  “Test Driven Development in Software Design”
      Alexander Karnitis, Indiana Lambda, Indiana Institute of Technology, Region V

12:15  “An Analysis of the Euler Method”
      Luke Batdorff, Indiana Beta, Huntington University, Region V

Section 56  American History
Dr. Tonia Compton, Columbia College, moderating

11:30  “South Carolina and WWI Soldiers”
      Anna Rose Jones, South Carolina Alpha, Lander University, Region III

11:45  “The Humaneness of William T. Sherman’s Total War”
      McKenzie Macy, Arkansas Iota, Lyon College, Region II

12:00  “The Role of Racial Ideology in Processes of Dehumanizing and Rehumanizing Japanese and U.S. Populations During and After World War II”
      Jonathan Forrest Wales, Texas Alpha Delta, Texas Lutheran University, Region I

12:15  “The Different Factors that Enabled the North to Ultimately Prevail Over the South in the American Civil War”
      Mark Washabaugh, California Beta, California Baptist University, Region VII
<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casey Adams</td>
<td>41e</td>
</tr>
<tr>
<td>Qazi Ahmed</td>
<td>27a</td>
</tr>
<tr>
<td>Farrah Al Sulaiman</td>
<td>43a</td>
</tr>
<tr>
<td>Samantha Allen</td>
<td>38c</td>
</tr>
<tr>
<td>Stephanie Allen-Winters</td>
<td>41d</td>
</tr>
<tr>
<td>Reza Amini</td>
<td>40e</td>
</tr>
<tr>
<td>Sharmin Amjad</td>
<td>31e</td>
</tr>
<tr>
<td>Emily Anderson</td>
<td>RC</td>
</tr>
<tr>
<td>Holly Kathleen Anderson</td>
<td>51a</td>
</tr>
<tr>
<td>Jonathan Raymond Aragon</td>
<td>RC</td>
</tr>
<tr>
<td>Daniel Archer</td>
<td>31c</td>
</tr>
<tr>
<td>Jacob H. Ashley</td>
<td>17a</td>
</tr>
<tr>
<td>Matthew J. Baltz</td>
<td>40a</td>
</tr>
<tr>
<td>Jennifer Barker</td>
<td>21b</td>
</tr>
<tr>
<td>William Kyle Barker</td>
<td>RC</td>
</tr>
<tr>
<td>Shelby Gabrielle Barrett</td>
<td>35c</td>
</tr>
<tr>
<td>Luke Batdorff</td>
<td>55c</td>
</tr>
<tr>
<td>Neely Baugh</td>
<td>29c</td>
</tr>
<tr>
<td>Haley Beer</td>
<td>10b</td>
</tr>
<tr>
<td>Natalie Beers</td>
<td>48c</td>
</tr>
<tr>
<td>Masey D. Blasa</td>
<td>07b</td>
</tr>
<tr>
<td>Kacey Loren Booth</td>
<td>07a</td>
</tr>
<tr>
<td>Rachael E. Bradley</td>
<td>30d</td>
</tr>
<tr>
<td>Kendra Bragg</td>
<td>01c</td>
</tr>
<tr>
<td>Jedidiah Irving Bressman</td>
<td>42d</td>
</tr>
<tr>
<td>Heather Nicole Bronson</td>
<td>16a</td>
</tr>
<tr>
<td>Britanny Thornton Brown</td>
<td>11a</td>
</tr>
<tr>
<td>Lydia Brown</td>
<td>RC</td>
</tr>
<tr>
<td>Rachel Brown</td>
<td>54a</td>
</tr>
<tr>
<td>Ashley Rae Buhrts</td>
<td>30c</td>
</tr>
<tr>
<td>Caitlin Burnside</td>
<td>19d</td>
</tr>
<tr>
<td>Abiodun Busuyi</td>
<td>05b</td>
</tr>
<tr>
<td>Charity Anne Byrum</td>
<td>07e</td>
</tr>
<tr>
<td>Jessica Cagle</td>
<td>41b</td>
</tr>
<tr>
<td>Caitlin Campbell</td>
<td>29a</td>
</tr>
<tr>
<td>Katerina Canter</td>
<td>43c</td>
</tr>
<tr>
<td>Alex Carver</td>
<td>30a</td>
</tr>
<tr>
<td>Charles Anthony Castanon</td>
<td>43d</td>
</tr>
<tr>
<td>Lindsey L. Chambers</td>
<td>RC</td>
</tr>
<tr>
<td>Chin-Yee Chew</td>
<td>RC</td>
</tr>
<tr>
<td>Daryle G. Christensen</td>
<td>22a</td>
</tr>
<tr>
<td>David G. Ciarlelli</td>
<td>49b</td>
</tr>
<tr>
<td>Courtney Clifton</td>
<td>04b</td>
</tr>
<tr>
<td>Kelsey Elizabeth Cooper</td>
<td>20a</td>
</tr>
<tr>
<td>Michelle Cooper</td>
<td>54b</td>
</tr>
<tr>
<td>Katlynn Cox</td>
<td>35d</td>
</tr>
<tr>
<td>Jamie Craig</td>
<td>RC</td>
</tr>
<tr>
<td>Katie Cukrowski</td>
<td>06b</td>
</tr>
<tr>
<td>Kaylin Cullum</td>
<td>12e</td>
</tr>
<tr>
<td>Brandi Culp</td>
<td>07d</td>
</tr>
<tr>
<td>Shane Allen Curry</td>
<td>05c</td>
</tr>
<tr>
<td>Brian Glen Daniels</td>
<td>31b</td>
</tr>
<tr>
<td>Jonathan Dannatt</td>
<td>RC</td>
</tr>
<tr>
<td>Allison Davis</td>
<td>50b</td>
</tr>
<tr>
<td>Kaylee Marie Dean</td>
<td>41c</td>
</tr>
<tr>
<td>Dan Degges</td>
<td>17b</td>
</tr>
<tr>
<td>Anna Dellomo</td>
<td>41a</td>
</tr>
<tr>
<td>William Grey DePledge</td>
<td>15c</td>
</tr>
<tr>
<td>Desiree Jean Diaz</td>
<td>06a</td>
</tr>
<tr>
<td>Grace Ann Diepenbrock</td>
<td>RC</td>
</tr>
<tr>
<td>Caleb Dillinger</td>
<td>30b</td>
</tr>
<tr>
<td>Ivan Dubogreaev</td>
<td>25c</td>
</tr>
<tr>
<td>Megan R. Drake</td>
<td>09a</td>
</tr>
<tr>
<td>Timothy Duke</td>
<td>26b</td>
</tr>
<tr>
<td>Christine R. Dumouchel</td>
<td>48b</td>
</tr>
<tr>
<td>John R. Eakin</td>
<td>RC</td>
</tr>
<tr>
<td>Calvin Eastwood</td>
<td>50a</td>
</tr>
<tr>
<td>Kristen Elia</td>
<td>03d</td>
</tr>
<tr>
<td>Sofia Elmaliki</td>
<td>54c</td>
</tr>
<tr>
<td>Gina English</td>
<td>RC</td>
</tr>
<tr>
<td>Allison Ens</td>
<td>52a</td>
</tr>
<tr>
<td>John Thomas Faircloth</td>
<td>12d</td>
</tr>
<tr>
<td>Bronwen Ellen Fetter</td>
<td>06d</td>
</tr>
<tr>
<td>Kristen Fisher</td>
<td>14d</td>
</tr>
<tr>
<td>Erin Ford</td>
<td>03e</td>
</tr>
<tr>
<td>Adam Fout</td>
<td>24c</td>
</tr>
<tr>
<td>Samuel Frawley</td>
<td>01e</td>
</tr>
<tr>
<td>Anthony J. Fredette</td>
<td>46a</td>
</tr>
<tr>
<td>Katherine Emily Gale</td>
<td>33b</td>
</tr>
<tr>
<td>Veronica Garrison-Joyner</td>
<td>33a</td>
</tr>
<tr>
<td>Anna Layne Gass</td>
<td>RC</td>
</tr>
<tr>
<td>Sarah Gell</td>
<td>03c</td>
</tr>
<tr>
<td>Danielle Giannotti</td>
<td>38d</td>
</tr>
<tr>
<td>Derek Davis Gibson</td>
<td>02c</td>
</tr>
<tr>
<td>Tipti Giri</td>
<td>14e</td>
</tr>
<tr>
<td>Jessica Gladfelter</td>
<td>11b</td>
</tr>
<tr>
<td>Joshua J. Gongaware</td>
<td>45c</td>
</tr>
<tr>
<td>Ana Gonzalez</td>
<td>11d</td>
</tr>
<tr>
<td>Joanna Gonzalez</td>
<td>09d</td>
</tr>
<tr>
<td>Parker Gordon</td>
<td>01a</td>
</tr>
<tr>
<td>Harrison Gore</td>
<td>25b</td>
</tr>
<tr>
<td>Rebekah Renee Grado</td>
<td>47d</td>
</tr>
<tr>
<td>Kristina Grayson</td>
<td>22d</td>
</tr>
<tr>
<td>Nikole K. Green</td>
<td>47a</td>
</tr>
<tr>
<td>Jennifer Greene</td>
<td>46b</td>
</tr>
<tr>
<td>Elisabeth Rose Grimes</td>
<td>RC</td>
</tr>
<tr>
<td>Stephen Davis Hale</td>
<td>17c</td>
</tr>
<tr>
<td>Tricia Haley</td>
<td>13c</td>
</tr>
<tr>
<td>Brandi Halisak</td>
<td>51b</td>
</tr>
<tr>
<td>Keith Xavier Harding</td>
<td>29c</td>
</tr>
<tr>
<td>Rachel Hawkins</td>
<td>30e</td>
</tr>
<tr>
<td>Mary J. Hellstrom</td>
<td>02e</td>
</tr>
<tr>
<td>Leanne Henry</td>
<td>28c</td>
</tr>
<tr>
<td>Kathryn Herbert</td>
<td>RC</td>
</tr>
<tr>
<td>Emisa Diaz Hernandez</td>
<td>25a</td>
</tr>
<tr>
<td>Hannah Hochstetler</td>
<td>RC</td>
</tr>
<tr>
<td>Alex Hoffman</td>
<td>02b</td>
</tr>
<tr>
<td>Timothy Munson Horton</td>
<td>36d</td>
</tr>
<tr>
<td>Kelsey Hostetter</td>
<td>37b</td>
</tr>
<tr>
<td>Angela Houston</td>
<td>53b</td>
</tr>
<tr>
<td>Jessica Houston</td>
<td>52b</td>
</tr>
<tr>
<td>Kacie Nicole Hoyle</td>
<td>13a</td>
</tr>
<tr>
<td>Ge Huang</td>
<td>21d</td>
</tr>
<tr>
<td>Jennifer E. Humphrey</td>
<td>21a</td>
</tr>
<tr>
<td>Akimasa Iijima</td>
<td>39a</td>
</tr>
<tr>
<td>Michelle Jacobson</td>
<td>22c</td>
</tr>
<tr>
<td>Kalika Jaeckel</td>
<td>29d</td>
</tr>
<tr>
<td>Emily Johnson</td>
<td>45b</td>
</tr>
<tr>
<td>Joshua Johnson</td>
<td>28d</td>
</tr>
<tr>
<td>Tina Ann Johnson</td>
<td>08e</td>
</tr>
<tr>
<td>Anna Rose Jones</td>
<td>56a</td>
</tr>
<tr>
<td>Holly Jones</td>
<td>38e</td>
</tr>
<tr>
<td>Alexis Kaiser</td>
<td>26c</td>
</tr>
<tr>
<td>Enni Kallio</td>
<td>34d</td>
</tr>
<tr>
<td>Alexander Karnitis</td>
<td>55b</td>
</tr>
<tr>
<td>Marlene Kasama</td>
<td>15b</td>
</tr>
<tr>
<td>Saranjot Kaur</td>
<td>10c</td>
</tr>
<tr>
<td>Alyssa Keyes</td>
<td>18d</td>
</tr>
<tr>
<td>Nicola Jamal Khouri</td>
<td>15e</td>
</tr>
<tr>
<td>Jessica Kickham</td>
<td>34a</td>
</tr>
<tr>
<td>Jennifer Kieser</td>
<td>02d</td>
</tr>
<tr>
<td>Courtney Kleinschmidt</td>
<td>32d</td>
</tr>
<tr>
<td>Emily Knott</td>
<td>32c</td>
</tr>
<tr>
<td>Samantha D. Knowlton</td>
<td>39b</td>
</tr>
<tr>
<td>Kimberly Kolpek</td>
<td>42a</td>
</tr>
<tr>
<td>Carl John Kornman</td>
<td>13e</td>
</tr>
<tr>
<td>Kelsey Mercedes Kunk</td>
<td>RC</td>
</tr>
<tr>
<td>Savannah Ladage</td>
<td>48a</td>
</tr>
<tr>
<td>Josh Lamore</td>
<td>03b</td>
</tr>
<tr>
<td>Amy Landhuis</td>
<td>44b</td>
</tr>
<tr>
<td>Paul D. LaPrade</td>
<td>23d</td>
</tr>
<tr>
<td>Brendan Lavy</td>
<td>12b</td>
</tr>
<tr>
<td>Tiffany Lee</td>
<td>20d</td>
</tr>
<tr>
<td>Kassi Lewis</td>
<td>32a</td>
</tr>
<tr>
<td>Lisa Lin</td>
<td>48d</td>
</tr>
<tr>
<td>McKenzie Macy</td>
<td>56b</td>
</tr>
<tr>
<td>Caitlin Maddox</td>
<td>RC</td>
</tr>
<tr>
<td>Daniel Markendorf</td>
<td>12a</td>
</tr>
<tr>
<td>Nicole Marshall</td>
<td>11c</td>
</tr>
<tr>
<td>Erika Renee Martin</td>
<td>RC</td>
</tr>
<tr>
<td>Molly Maschka</td>
<td>06c</td>
</tr>
<tr>
<td>Misha Matsumoto</td>
<td>31d</td>
</tr>
<tr>
<td>Leanne Mazzella</td>
<td>08a</td>
</tr>
<tr>
<td>Samantha McCauley</td>
<td>09b</td>
</tr>
<tr>
<td>Andrew McCollister</td>
<td>20b</td>
</tr>
<tr>
<td>Macy McDonald</td>
<td>04d</td>
</tr>
<tr>
<td>Stephen Mead</td>
<td>04c</td>
</tr>
<tr>
<td>Ashley Meadows</td>
<td>39c</td>
</tr>
<tr>
<td>Amy Mezarina</td>
<td>51d</td>
</tr>
<tr>
<td>Shawunna Middleton</td>
<td>53a</td>
</tr>
<tr>
<td>Name</td>
<td>Age</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-----</td>
</tr>
<tr>
<td>Kevin Mills</td>
<td>22b</td>
</tr>
<tr>
<td>Domonique Moody</td>
<td>28b</td>
</tr>
<tr>
<td>Ashley A. Morrow</td>
<td>24</td>
</tr>
<tr>
<td>Jesse Morrow</td>
<td>05d</td>
</tr>
<tr>
<td>Duane Miles Murphy</td>
<td>55a</td>
</tr>
<tr>
<td>Molly Renee Murphy</td>
<td>33c</td>
</tr>
<tr>
<td>Olivia Jordan Myers</td>
<td>RC</td>
</tr>
<tr>
<td>Kelby Dayne Newcomb</td>
<td>19c</td>
</tr>
<tr>
<td>Jennarae R. Niece</td>
<td>18b</td>
</tr>
<tr>
<td>Emilee O'Brien</td>
<td>51c</td>
</tr>
<tr>
<td>Daniel Olea</td>
<td>RC</td>
</tr>
<tr>
<td>Kate Oliphant</td>
<td>01b</td>
</tr>
<tr>
<td>Morgan Ostwinkle</td>
<td>14b</td>
</tr>
<tr>
<td>Stephanie Parnell</td>
<td>RC</td>
</tr>
<tr>
<td>Alexandra Patrono-Smith</td>
<td>47c</td>
</tr>
<tr>
<td>Jesse Peck</td>
<td>16c</td>
</tr>
<tr>
<td>Alexandria Pierce</td>
<td>37d</td>
</tr>
<tr>
<td>Richard Plumlee</td>
<td>40b</td>
</tr>
<tr>
<td>John Robert Pope</td>
<td>27c</td>
</tr>
<tr>
<td>Kaylan L. Powers</td>
<td>36c</td>
</tr>
<tr>
<td>Tonya R. Powers</td>
<td>52c</td>
</tr>
<tr>
<td>Nistha Pradhan</td>
<td>15d</td>
</tr>
<tr>
<td>Yasna Rajkarnikar</td>
<td>27d</td>
</tr>
<tr>
<td>Ashlie C. Reagan</td>
<td>36b</td>
</tr>
<tr>
<td>Aaron Records</td>
<td>05a</td>
</tr>
<tr>
<td>Kelly Reed</td>
<td>24a</td>
</tr>
<tr>
<td>Alger Remy</td>
<td>RC</td>
</tr>
<tr>
<td>Angie Rickers</td>
<td>49d</td>
</tr>
<tr>
<td>Crista Riggs</td>
<td>RC</td>
</tr>
<tr>
<td>Sheena Ariel Riley</td>
<td>53c</td>
</tr>
<tr>
<td>Madeleine Roberts</td>
<td>03a</td>
</tr>
<tr>
<td>Christopher Grimes Safley</td>
<td>16d</td>
</tr>
<tr>
<td>Suvitha S. Samant</td>
<td>08c</td>
</tr>
<tr>
<td>Stephen T. Sanders</td>
<td>47b</td>
</tr>
<tr>
<td>Alicia Jilma Satchell</td>
<td>23c</td>
</tr>
</tbody>
</table>

**RC - Research & Creativity Forum**

<table>
<thead>
<tr>
<th>Research &amp; Creativity Forum</th>
<th>pp. 4-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter-Strengthening Sessions</td>
<td>pp. 7-8</td>
</tr>
<tr>
<td>Collaborative Research Teams</td>
<td>pp. 10-11</td>
</tr>
</tbody>
</table>