Welcome to the ninth annual celebration of Create@State: A Symposium of Research, Scholarship & Creativity, showcasing the faculty-mentored works of our high achieving students from across all of the university’s colleges and disciplines. This venue provides an opportunity for both undergraduate and graduate students to engage and present original work to stakeholders and the community in a professional conference setting. This symposium represents the annual culminating event of A-State’s Create@State program which enhances opportunity throughout the year for student research and creativity and enriches co-curricular learning experiences in all disciplines. The works you will see this week are a testament to A-State’s strong mentorship and inclusivity provided to our students by outstanding faculty research and creativity mentors. I hope you will participate in as many of the events over the three days as possible!

Best regards,

Thomas Risch, Ph.D.
Interim Associate Vice Chancellor of Research
April 15, 2019

Schedule

9:00 a.m. - Noon
Fowler Center
Showcase of the Arts – Music, Theater & Visual Arts

9:00 a.m. - 9:45 a.m.
Creative Musical Performances, Riceland Hall

10:00 a.m. - 10:45 a.m.
Creative Visuals, Visual Arts & Theatre, Grand Ballroom

11:00 a.m. - Noon
Creative Theatrical Performances, Simpson Theatre

9:00 a.m. - 4:00 p.m.
Reng Student Union, 3rd Floor
Concurrent Oral Sessions
College of Liberal Arts and Communication
Including Humanities, Arts & Communication Studies

9:00 a.m. - 10:15 a.m.
College of Liberal Arts & Communication, Communication Studies, Arkansas River Room

10:45 a.m. - Noon
College of Liberal Arts & Communication, Communication Studies, Arkansas River Room

1:00 p.m. - 2:15 p.m.
College of Liberal Arts & Communication, Communication Studies, Arkansas River Room
College of Liberal Arts & Communication, Humanities & Arts, Black River Room
College of Liberal Arts & Communication, Humanities & Arts, White River Room

2:45 p.m. - 4:00 p.m.
Reng Student Union, 3rd Floor
College of Liberal Arts & Communication, Communication Studies, Arkansas River Room

Map (Third Floor, Reng Student Union)

1) 1909 Suite
2) Alumni Lounge
3) Auditorium
4) Centennial Hall
5) Spring River Room
6) Cache River Room
7) Diamond Lounge
8) Green Room
9) Vaughn Student Lounge
10) Mockingbird Room
11) St. Francis River Room
12) Pine Tree Room
13) Multicultural Center
14) White River Room
15) Black River Room
16) Arkansas River Room

Room Used
Room Not Used
**Schedule**

**April 16, 2019**

**Reng Student Union, 3rd Floor**

8:30 a.m. - 9:45 a.m.
Concurrent Oral Sessions
College of Nursing & Health Professions, Arkansas River Room
College of Education & Behavioral Science, Black River Room

**10:00 a.m. - Noon**
Poster Session
College of Nursing & Health Professions, Centennial Hall

**10:15 a.m. - 11:30 a.m.**
Concurrent Oral Sessions
College of Education & Behavioral Science, Psychology, Arkansas River Room
College of Education & Behavioral Science, Psychology, Black River Room

**1:00 p.m. - 2:30 p.m.**
Oral Session
College of Sciences & Mathematics, Arkansas River Room

**2:30 p.m. - 4:30 p.m.**
Poster Session
College of Sciences & Mathematics, Centennial Hall
College of Education & Behavioral Science, Centennial Hall

**April 17, 2019**

**Reng Student Union, 3rd Floor**

8:30 a.m. - 9:45 a.m.
Throw ‘em to the Wolves, Business Pitch
Neil Griffin College of Business, Auditorium

**10:00 a.m. - Noon**
Poster Session
College of Agriculture, Centennial Hall
College of Engineering & Computer Science, Centennial Hall

**10:15 a.m. - 11:30 a.m.**
Throw ‘em to the Wolves, Sales Pitch
Neil Griffin College of Business, Auditorium

**1:00 p.m. - 2:30 p.m.**
Concurrent Oral Sessions
College of Engineering & Computer Science, Black River Room
College of Agriculture, Arkansas River Room

**2:45 p.m. - 3:45 p.m.**
Demonstrations
College of Engineering & Computer Science, Vaughn Student Lounge

**4:00 p.m. - 5:00 p.m.**
Awards Program & Reception
Auditorium
It is hard to believe that the Create@State Symposium started out as a research event nine years ago and has grown to not only showcase all disciplines and areas of study, but is now the culminating event of the Create@State student research and creativity development program. Create@State enhances opportunities through the year for students to engage in faculty mentored research and creativity, focused professional development of vital critical thinking and communication skills, and enriches co-curricular learning experiences across all disciplines including engagement outside of the classroom and within the community.

We are also excited to highlight an addition to the Create@State program, our very own weekly podcast, Create@State: Making Connections that Count! This podcast highlights faculty, students and community partners in discussing A-State’s research and creativity that takes place at the university and within the community, its positive impact in both academic and community growth, and the learning experiences and advancements in the field these works provide in terms of impact and engagement. This podcast is a production through KASU Public Radio, as news director Johnathan Reaves provides the voice of Create@State in his weekly interviews that are released each Thursday through the podcast’s notifications, and also airs as the second segment on A-State Connections, the weekly radio show highlighting how the university is connecting with people in the region, across the state and around the world. Join the more than 1,000 subscribers today and connect with the podcast on the NPR One app, Apple iTunes podcasts, and Google Play.

As this event is a culmination of collaborative efforts across campus, we want to sincerely thank the Student Research and Philanthropy Councils, the Learning Commons, Assessment, Development, Career Services, Alumni Relations, Marketing and Communications, KASU Public Radio, and A-State’s outstanding faculty mentors, chairs and deans of each of the colleges for working with our offices of Research & Technology Transfer and Advancement. Welcome, and enjoy this week’s showcase of our students and the wonderful works here at A-State!

Sincerely,
Emily Devereux, Executive Director, Research & Technology Transfer
Jessica Blackburn, Director of Foundation & Corporate Engagement

**Create@State Symposium 2019**

**April 15th, 2019, 9:00 a.m. - 9:45 a.m.**

**CREATIVE MUSICAL PERFORMANCES**

**RICELAND HALL**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker(s)</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 a.m.</td>
<td>Parker Long*</td>
<td>Elemental Ambience</td>
</tr>
<tr>
<td>9:15 a.m.</td>
<td>Adam Baxter*</td>
<td>Effective Coordination of Musical Elements in Persichetti’s Parable for Solo Oboe</td>
</tr>
<tr>
<td>9:30 a.m.</td>
<td>Jeremiah Page*</td>
<td>Accessing Harmonics on the Bass as an Extension of Register</td>
</tr>
</tbody>
</table>

**April 15th, 10:00 a.m. - 10:45 a.m.**

**CREATIVE VISUALS, VISUAL ARTS & THEATRE**

**GRAND BALLROOM**

<table>
<thead>
<tr>
<th>Group</th>
<th>Speakers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creative Visuals, Visual Arts &amp; Theatre</td>
<td>Courtney Light*</td>
</tr>
<tr>
<td></td>
<td>Amy Faughn*</td>
</tr>
<tr>
<td></td>
<td>Zac Passmore*</td>
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<tr>
<td></td>
<td>Davis Campbell*</td>
</tr>
<tr>
<td></td>
<td>Kassidy Ratz*</td>
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<td></td>
<td>Abby Cooper*</td>
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<td></td>
<td>Hannah Martin*</td>
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<td></td>
<td>Claire Thomas*</td>
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<tr>
<td></td>
<td>Kaly Beede*</td>
</tr>
<tr>
<td></td>
<td>What Can Drawing Do For You?</td>
</tr>
<tr>
<td></td>
<td>Mallory Flippin*</td>
</tr>
<tr>
<td></td>
<td>Cat Print Prints</td>
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<tr>
<td></td>
<td>Mallory Flippin*</td>
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<td></td>
<td>Cat Yawns</td>
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<tr>
<td></td>
<td>Autumn Harris*</td>
</tr>
<tr>
<td></td>
<td>Lexi Herring*</td>
</tr>
<tr>
<td></td>
<td>Lourdes Hernandez*</td>
</tr>
<tr>
<td></td>
<td>App Development for Best Practices in Row Crop Burning</td>
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<tr>
<td></td>
<td>Kaly Beede*</td>
</tr>
<tr>
<td></td>
<td>Mental Self-Portrait</td>
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<tr>
<td></td>
<td>Home</td>
</tr>
<tr>
<td></td>
<td>Cassandra Heck*</td>
</tr>
<tr>
<td></td>
<td>Christian Adams*</td>
</tr>
<tr>
<td></td>
<td>Selfie in Disguise (Value and Shape Collage):</td>
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<tr>
<td></td>
<td>Kaly Beede*</td>
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<tr>
<td></td>
<td>Individual Collages</td>
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<tr>
<td></td>
<td>Kenneth Willette*</td>
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<tr>
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<td>Design I Students</td>
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<tr>
<td></td>
<td>Madison Riddle*</td>
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<tr>
<td></td>
<td>Allison Fowler*</td>
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<tr>
<td></td>
<td>Individual Collages</td>
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<tr>
<td></td>
<td>Grace Hill*</td>
</tr>
<tr>
<td></td>
<td>Mathew Jones*</td>
</tr>
</tbody>
</table>

* - Undergraduate  ** - Graduate
April 15th, 11:00 a.m. - Noon
CREATIVE THEATRICAL PERFORMANCES
SIMPSON THEATRE

<table>
<thead>
<tr>
<th>Actor 1</th>
<th>Actor 2</th>
<th>Play Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abbey Cooper*</td>
<td>Katelyn Stanton*</td>
<td>Othello by William Shakespeare</td>
</tr>
<tr>
<td>Carson Horton*</td>
<td>Courtney Light*</td>
<td>Henry IV Part 1 by William Shakespeare</td>
</tr>
<tr>
<td>Michaela Partidge*</td>
<td>Hayley Scott*</td>
<td>All’s Well That Ends Well by William Shakespeare</td>
</tr>
<tr>
<td>Bryce Moore*</td>
<td>Whitley Fore Newman*</td>
<td>Hamlet by William Shakespeare</td>
</tr>
</tbody>
</table>

Theatrical and Dance Students
"Walking in Space" from HAIR, Musical Theatre Dance Performance

Theatre will continue with a performance of Godspell at 7:00 p.m., Tuesday, April 16, at Fowler Center.

Concurrent Oral Sessions, Reng Student Union, 3rd Floor
College of Liberal Arts & Communication Including Humanities, Arts & Communication Studies

April 15th, 2019, 9:00 a.m. - 10:15 a.m.
COLLEGE OF LIBERAL ARTS & COMMUNICATION, COMMUNICATION STUDIES
ARKANSAS RIVER ROOM

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 a.m.</td>
<td>Christian Willis*</td>
<td>Lesley Gore</td>
</tr>
<tr>
<td>9:15 a.m.</td>
<td>Emily Crawford*</td>
<td>Queer Black Representation in Modern Television</td>
</tr>
<tr>
<td>9:30 a.m.</td>
<td>LaShundra Clark*</td>
<td>The Transgender Ban in the Military</td>
</tr>
<tr>
<td>9:45 a.m.</td>
<td>Zachary Young*</td>
<td>Your Gender is Being Conformed Even at the Latest Hours of the Night</td>
</tr>
<tr>
<td>10:00 a.m.</td>
<td>Zoey Smith*</td>
<td>Pretty Hurts: How Societal Views Negatively Impact Women</td>
</tr>
</tbody>
</table>

April 15th, 2019, 10:45 a.m. - Noon
COLLEGE OF LIBERAL ARTS & COMMUNICATION, COMMUNICATION STUDIES
ARKANSAS RIVER ROOM

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:15 a.m.</td>
<td>Tanisha Tak*</td>
<td>Self-Disclosure in Peer Mentoring at the Communication Center at Arkansas State University</td>
</tr>
<tr>
<td>11:30 a.m.</td>
<td>Steven Holquist*</td>
<td>The Ultimate Issue, a Look at Gender in Coed Ultimate Frisbee</td>
</tr>
<tr>
<td>11:45 a.m.</td>
<td>Tanisha Tak*</td>
<td>The Analysis of the Representation of Gendered Topics in Brooklyn 99</td>
</tr>
</tbody>
</table>

April 15th, 2019, 1:00 p.m. - 2:15 p.m.
COLLEGE OF LIBERAL ARTS & COMMUNICATION, COMMUNICATION STUDIES
ARKANSAS RIVER ROOM

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 p.m.</td>
<td>Hyunwoo Ahn*</td>
<td>Male Dancer’s Gender Role Identity Conflict and Adaptation</td>
</tr>
<tr>
<td>1:15 p.m.</td>
<td>Katelyn Wall*</td>
<td>Sexual Assault: an Epidemic on College Campus</td>
</tr>
<tr>
<td>1:30 p.m.</td>
<td>Emily Riley*</td>
<td>Women, Hunting, and Social Media: Defying Traditional Gender Norms</td>
</tr>
<tr>
<td>1:45 p.m.</td>
<td>Justin Darnell*</td>
<td>Organizational Misconduct</td>
</tr>
</tbody>
</table>

April 15th, 2019, 1:00 p.m. - 2:15 p.m.
COLLEGE OF LIBERAL ARTS & COMMUNICATION, HUMANITIES & ARTS
BLACK RIVER ROOM

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 p.m.</td>
<td>Oluwayinka Dada**</td>
<td>A Thematic Analysis of how Achalasia Patients Receive Online Social Support</td>
</tr>
<tr>
<td>1:15 p.m.</td>
<td>Najma Akhter**</td>
<td>Virtual Stranger Loss, Parasocial Grieving and Mediatized Emotion: Celebrity Mourning Process on Social Media</td>
</tr>
<tr>
<td>1:30 p.m.</td>
<td>Connor Scroggins*</td>
<td>Instrumental Musique Concrète: The Virtue of Nuance in the Sonic Experience</td>
</tr>
<tr>
<td>1:45 p.m.</td>
<td>Gaberial Waters*</td>
<td>Controlling Musical Expression with Harmonic Structures</td>
</tr>
</tbody>
</table>

April 15th, 2019, 10:45 a.m. - Noon
COLLEGE OF LIBERAL ARTS & COMMUNICATION, COMMUNICATION STUDIES
ARKANSAS RIVER ROOM

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:45 a.m.</td>
<td>Benjamin Tucker*</td>
<td>The Power of Gender in Cosplay</td>
</tr>
<tr>
<td>11:00 a.m.</td>
<td>Haley Peoples*</td>
<td>Halestorm: a Critical Analysis of Gender Performance in Today’s Music Industry</td>
</tr>
</tbody>
</table>

* - Undergraduate      ** - Graduate
April 15th, 2019, 1:00 p.m. - 2:15 p.m.
COLLEGE OF LIBERAL ARTS & COMMUNICATION, HUMANITIES & ARTS
WHITE RIVER ROOM

1:00 p.m.  Jessica Martin*  
College 101: Video Series to Help Prepare Freshmen to Live on a College Campus

1:15 p.m.  Taylor Newman*  
Friends: Gendered Speaking Then And Now

1:30 p.m.  Alexandra Borchardt*  
Spectrum: A Collection Of Original Poetry Conveying Themes Expessed Though Color Symbolism In Literature

April 15th, 2:45 p.m. - 4:00 p.m.
COLLEGE OF LIBERAL ARTS & COMMUNICATION - COMMUNICATION STUDIES
ARKANSAS RIVER ROOM

2:45 p.m.  Rachael Brozynski*  
A Girl in a Country Song

3:00 p.m.  Brianna Coyle*  
Female Body Image Through the Decades

3:15 p.m.  Kathryn Taylor*  
When Women are Power

3:30 p.m.  Darla Thomas*  
“Girls Need Love” Song Release Challenges the Ideas of Gender Communication

April 16th, 2019, 8:30 a.m. - 9:45 a.m.
COLLEGE OF NURSING & HEALTH PROFESSIONS
ARKANSAS RIVER ROOM

8:30 a.m.  Bridgette Davis*  
Contributing Factors to Mental Health Issues Among International Students

8:45 a.m.  Brooks Propst*  
Sexual Assault and Emergency Department Nurses

9:00 a.m.  Jessica Holsted**  
The Effects of Using Blood Flow Restriction Exercise for Proximal Strength at the Shoulder

9:15 a.m.  Nancy Baltz**  
Developing an Instrument to Assess Diabetes Related Knowledge, Attitudes, and Practices of Primary Providers Regarding Foot Health

9:30 a.m.  Lisa Schafer**  
Screening for and Management of Adult Obesity

April 16th, 2019, 8:30 a.m. - 9:45 a.m.
COLLEGE OF EDUCATION & BEHAVIORAL SCIENCE
BLACK RIVER ROOM

8:30 a.m.  Naoko Yoshimura*  
The Impact of Parent Perceptions on Child Fundamental Motor Skill

8:45 a.m.  Sarah Shaw*  
Sexuality and Identity and their Relation to Bullying and Disconnection in Middle School

9:00 a.m.  Lindsey Hart*  
Considering Arts as Text: Depicting Social Activism Through Text Set Development

9:15 a.m.  Emma Nwofor**  
Sexual Harassment in the Sporting World: Should Women Toughen Up?

9:30 a.m.  Brianna Sayer**  
Effects of Foam Rolling for Delayed-Onset Muscle Soreness on Military Performance and Perceived Recovery
**A Retrospective Chart Review of Immunization Rates in COPD Patients in the Primary Care Setting**

**Depression Screening Rate in a Rural Health Clinic in Pemiscot County, Missouri, Compared to a National Rate of 4.2%**

**A Rural Clinic's Patient Population Adherence to Gold Diagnostic Criteria for Using Pulmonary Function Tests in COPD**

**Calcium Versus Bisphosphonate Treatment for Osteoperosis in Postmenopausal Women**

**A Look at the Rate of Provider Adherence to the Recommendations of Diabetic Foot Exams in a North Central Arkansas Primary Care Clinic**

**Comparison of Rate of Statin Prescription in Diabetics**

**A Primary Care Clinic's HPV Vaccine Rate Versus the National Average of 65.5%**

**Adherence of Statin Therapy in Diabetic Patients**

**Discussion of Advance Directives in Primary Care**

**A Rural Arkansas Clinic Depression Screening Rate vs. the National Average**

**Chlamydia Reassessment Rates After Diagnosis in Central Arkansas**

**Onset of Menses in Desha County Arkansas Versus the National Average of 12.8 Years**

**The Relationship Between Chronic Low Back Pain and Inspiratory Abilities**

**Effects of the Amount of Eggs in a Dessert**

**Testing Sensory Differences in Peanut Butter Compared to Sun Butter in a Prepared Recipe**

**Influenza Risk Involving COPD and Adherence to Gold Guidelines**

**Treating Hypertension According to JNC-8 Guidelines in African American Women**

**Protection Against Influenza with Appropriate Immunization**

**Antibiotic Use in Adults with Acute Bronchitis**

**Smoking Cessation Products Used as First Line of Defense**

**Evidence Based Clinical Practice Guideline for Diabetes**
<table>
<thead>
<tr>
<th></th>
<th>Title</th>
<th>Author(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>37</td>
<td>Jeffery Harris** Does a Rural Clinic in Arkansas Meet the 100% Adherence Rate of the Prescription Drug Monitoring Program as Recommended by the State of Arkansas?</td>
<td>**</td>
</tr>
<tr>
<td>38</td>
<td>Lindsay Sheets** Are Patients with Erectile Dysfunction Receiving First-Line Medication?</td>
<td>**</td>
</tr>
<tr>
<td>39</td>
<td>Rocio Rodas** COPD</td>
<td>**</td>
</tr>
<tr>
<td>40</td>
<td>Helen Williams** Are Women Ages 40 to 64 in a Local Health Clinic Being Referred for Mammography as Recommended By Clinical Guidelines Set by the ACS and How Do Rates Compare to the National Average of 64.8%?</td>
<td>**</td>
</tr>
<tr>
<td>41</td>
<td>Michael Hall* Haylee Dragon* The Importance of Patient Positioning in Diagnostic Imaging</td>
<td>*</td>
</tr>
<tr>
<td>42</td>
<td>Koreanna Forster* Kirstin Bratton* Chronic Shoulder Dislocation: An Imaging Case Study</td>
<td>*</td>
</tr>
<tr>
<td>43</td>
<td>Rachel McCallister* A Comparison of White and Brown Sugar in a Product Containing Coconut</td>
<td>*</td>
</tr>
<tr>
<td>44</td>
<td>Kaylen Perkins* Testing the Palatability of Whole Wheat Flour vs. All-Purpose Flour in Desserts</td>
<td>*</td>
</tr>
<tr>
<td>45</td>
<td>Abigail McNatt* Comparing Whole Wheat Flour Tortillas and White Flour Tortillas in a Dessert Recipe</td>
<td>*</td>
</tr>
<tr>
<td>46</td>
<td>Jennifer Taylor* Bringing the Flavor of Greece Into a Health-Conscious Community</td>
<td>*</td>
</tr>
<tr>
<td>47</td>
<td>Braelyn Hunt* Nutritional Yeast as a Palatable Source of Vitamin B12 for Adolescents</td>
<td>*</td>
</tr>
<tr>
<td>48</td>
<td>Sara Saucedo* Consumption of a Vegan Diet: Provides Adequate Iron Intake to Prevent Iron Deficiency and Anemia</td>
<td>*</td>
</tr>
<tr>
<td>49</td>
<td>Abbigale Carlyle* Lemon Chia Seed Cookies</td>
<td>*</td>
</tr>
<tr>
<td>50</td>
<td>Alyssa Cunningham* Case Study: Radiation Therapy’s Role in the Treatment of Pediatric Osteosarcoma</td>
<td>*</td>
</tr>
<tr>
<td>51</td>
<td>Mariah Dykes* Baylor Sexual Assault Scandal: Crisis Communication and Brand Reputation (**Colac Poster)</td>
<td>*</td>
</tr>
</tbody>
</table>

**Concurrent Oral Sessions, Reng Student Union, 3rd Floor College of Education & Behavioral Sciences**

**April 16th, 2019, 10:15 a.m. - 11:30 a.m.**

**COLLEGE OF EDUCATION & BEHAVIORAL SCIENCE, PSYCHOLOGY ARKANSAS RIVER ROOM**

<table>
<thead>
<tr>
<th>Time</th>
<th>Presenter(s)</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:15 a.m.</td>
<td>Lindsey Brochu*</td>
<td>Jumping &amp; Concussing</td>
</tr>
<tr>
<td>10:30 a.m.</td>
<td>Trevor Asher*</td>
<td>Functions of Music</td>
</tr>
<tr>
<td>10:45 a.m.</td>
<td>Bryston Hickman*</td>
<td>The Effect of Judge Leadership Style on Jury Decision Making</td>
</tr>
<tr>
<td>11:00 a.m.</td>
<td>Kassidy Ratz*</td>
<td>Jury Decision Making: The Effects of Witness Testimony and Crime Severity</td>
</tr>
</tbody>
</table>

**April 16th, 2019, 10:15 a.m. - 11:30 a.m.**

**COLLEGE OF EDUCATION & BEHAVIORAL SCIENCE, PSYCHOLOGY BLACK RIVER ROOM**

<table>
<thead>
<tr>
<th>Time</th>
<th>Presenter(s)</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:15 a.m.</td>
<td>Diana Huynh* Shelby Daniels* Leea Carver* Madalyn Crittenden*</td>
<td>Mindfulness Through Body Awareness: An Action Research Project</td>
</tr>
<tr>
<td>10:30 a.m.</td>
<td>Lindsey Hall* Monica Pearcy*</td>
<td>Full STEM Ahead: Evaluating Thunder Over the Rock’s STEM Fest for Informal Science Education Experiences</td>
</tr>
<tr>
<td>10:45 a.m.</td>
<td>Darla Thomas* Megan Gunnels* Sara Brown* Taylor Shields*</td>
<td>Effects of Expert and Character Witness Testimony on Jury Verdicts in a Murder Trial</td>
</tr>
<tr>
<td>11:00 a.m.</td>
<td>McKenzie Griffin*</td>
<td>Effects of Biofeedback on Stress and Anxiety in College Students at Arkansas State University</td>
</tr>
</tbody>
</table>
Oral Session, Arkansas River Room
College of Sciences & Mathematics
April 16th, 2019, 1:00 p.m. - 2:30 p.m.
COLLEGE OF SCIENCES & MATHEMATICS, ARKANSAS RIVER ROOM
ARKANSAS RIVER ROOM

1:00 p.m. Dakota Dixon*
High Altitude Balloon Flight Forecasting and Historical Analysis

1:15 pm Emma Martin**
Kinley Davenport*
Assessing the Biodiversity of Aquatic Macroinvertebrate Assemblages in Northeast Arkansas Agricultural Ditches

1:30 pm Cristofer Calvo**
Hydroxyproline-O-Glycan Engineering in Tobacco Transient Protein Expression: Fish IL-22 and EGFP

1:45 pm Patrick Roberto**
Enhanced Bioproduction of Selected Antioxidant Stilbenoids in Peanut Hairy Roots

2:00 pm Abbas Karouni**
Production of Prenylated Stilbenoids in Cell Suspension Cultures of Peanut

2:15 pm Sepideh Mohammadhosseinpoor**
Prenylated Stilbenoids as Potential Chemopreventive Natural Products for Triple Negative Breast Cancer

Poster Sessions, Centennial Hall
College of Sciences & Mathematics
College of Education & Behavioral Science
April 16th, 2019, 2:30 p.m. - 4:30 p.m.
COLLEGE OF SCIENCES & MATHEMATICS
CENTENNIAL HALL

52 Amelia Atwell**
Evaluating Nutrient and Sediment Contributions to the Agriculturally Dominated Upper Cache River Watershed, Arkansas

53 Andressa Alves Augusto**
Monitoring Water Quality in Eight Subwatersheds of the Strawberry River, Arkansas

54 Justine Chester**
Correlating Water Quality Data to Fecal Coliform Counts

55 Amber Spence**
Assessment of Seasonal and Agricultural Impacts of Water Quality in Bayou Deview Watershed, Arkansas

56 Emma Martin**
Whole Effluent Toxicity (Wet) Testing in Two Agricultural Ditch Systems Using Pimephales Promelas and Ceriodaphnia Dubia

57 Md Rokib Hasan**
Maria Elena Gonzalez Romero**
A Gene Editing Approach to Elucidate the Biosynthesis of Stilbenoids in Peanut

58 Brett Hale**
(Glycine Max)
Characterization of Microspore Embryogenesis in Soybean

59 Peyton DeShazo*
A New Kjeldahl Digestion Technique for Analyzing Total Nitrogen in Plant, Soil, and Water Samples

60 Mary Elena Gonzalez Romero**
Peyton DeShazo*
Characterization of Microspore Embryogenesis in Soybean

61 ChrisTina Okolo*
Synthesis and Antiproliferative Activity of Thiazolo-Androstenones Against Breast Cancer Cell Lines

62 Kinley Davenport*
Assessing the Biodiversity of Aquatic Macroinvertebrate Assemblages in Northeast Arkansas Agricultural Ditches

63 Jose Williams*
Assessing the Immune Modulating Effects of Plant-Made Catfish Interleukin-22

64 Jennifer Taylor*
Georeferencing the Dragonfly (Order: Odonata) Collection Cataloged in the Arkansas State University Museum of Zoology

65 Annie Savage*
Project Macroinvert: Bringing Mayfly (Ephemeroptera) Collections Out of the Dark at Arkansas State University

66 River Watson*
Taxonomic Evaluation of the Goldstripe Darter, Etheostoma Parvipinne

67 Rebecca Martin* Noah Smith*
Synthesis of New 2-Aminopyrimidines

68 Kenneth Swafford*
Optimization of the Elicitor Treatment in Hairy Root Cultures of Peanut for the Production of Bioactive Stilbenoids

69 Krystian Roedel*
Elicitation and Purification of Prenylated Stilbenoids from Peanut Hairy Root Cultures of Peanut

70 Chance Austin*
Molecular Cloning for Expressing Human Fibroblast Growth Factor-2 in Tobacco by-2 Cells

71 Ramsey Aubure* Bailey McAlexander* Joshua Gray* Lauren Calhoun* Haitao Zhang**
Roles and Molecular Mechanisms of the Phosphor Regulation in Cap1 Functions

72 Grant Dawson*
Helping the Herps: Restoring the Past for Arkansas State’s Future
April 16th, 2019, 2:30 p.m. - 4:30 p.m.
COLLEGE OF EDUCATION & BEHAVIORAL SCIENCES
CENTENNIAL HALL

72 Stephen Berry**
    Jacob McGowen**
    Makenna McGowen*
Rethinking Sin: Assessing the Structure and Content of the Seven Sins Inventory

73 Jakob McGowen**
    Brandon Higdon**
    Makenna McGowen*
    Blake Higdon**
    Stephen Berry**
Resisting Temptation: Short Form Development and Validation of a Six Sins Inventory

74 Shana Schneider**
Reading Instruction for English Language Learners: Tailoring Instruction for Secondary Students

75 Melissa Clanton Kirkpatrick**
Read-Alouds: Lost in the Era of Accountability

76 Ashley Goodson**
Literacy for ELL Students

77 Raelynn Chapman**
Increasing Writing Achievement Through Evaluation Criteria Instruction

78 Duncan Brown**
Adult Illiteracy Epidemic

79 Tamara Henry**
Will Implementing School Uniforms Have a Positive Effect on Negative Student Behavior

80 Tabitha Tucker**
Using Music During Transitions

81 Sarah Hale**
The Impact of a School’s Grade Level Configuration on Literacy Scores in Mid-Sized Arkansas Districts

82 Kimberly Washington**
Student Reading Proficiency

83 Brooke Pierson**
Reading Intervention for ELLs: Recent Adolescent Immigrants

84 Katherine Shelton**
Garrett Tedford**
Effects of External Loading During Daily Living on Anaerobic Performance: A Review

85 Julia Cottrill*
    Sarah Grayson*
Poppin’ Pills: Medication Misuse in Students

86 VanKe’via Garner*
Sobriety Strategies for College Students

87 Reagan Raper*
Preschool Physical Education Curriculum Development

88 Kylie Brickey*
The Forces of Connected Learning and Unit Development for Middle School

April 16th, 2019, 7:00 p.m.
GODSPELL
FOWLER CENTER

Throw ‘em to the Wolves, Business Pitch, Reng Student Union, 3rd Floor
Neil Griffin College of Business

April 17th, 2019, 8:30 a.m. - 9:45 a.m.
NEIL GRIFFIN COLLEGE OF BUSINESS
AUDITORIUM

Sandra Winfree*
The Coffee Café **Remote presentation

Theresa Craig* Healthier Habits **Remote presentation

Fadeel Aloqi*
Win Outfitter

Caitlin Archer* Thankful Earth

Joel Haynes* Joey’s

Griffin Dunn* Drain Champion

Hogan Sims Dailey* Eagle Rock Outfitters

Amari James* Kollasal Kuts

Kailee Hutchison* Charity Hotel

Zachary Ray* SafeGuard

Brendon Eminger* Extraordinaire Soliare

* - Undergraduate  ** - Graduate
**Poster Sessions, Centennial Hall**

**College of Agriculture**

**College of Engineering & Computer Science**

**April 17th, 2019, 10:00 a.m. - Noon**

**COLLEGE OF AGRICULTURE & TECHNOLOGY**

**CENTENNIAL HALL**

**April 17th, 2019, 10:00 a.m. - Noon**

**COLLEGE OF ENGINEERING & COMPUTER SCIENCE**

**CENTENNIAL HALL**

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<th><strong>Session</strong></th>
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<td>93</td>
<td>Analysis Of DNA Methylation To Understand Protein Accumulation In Transgenic Corn Seeds</td>
<td>Akash Lal, Amber Booth**</td>
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<td>95</td>
<td>Oxidation and Reduction Enzymes as Bioremediation Agents</td>
<td>Nikolette Perkins*</td>
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<td>97</td>
<td>Geospatial Variability and Cotton Production- Profitability in a Northeast Arkansas Field</td>
<td>Jessica Krob*</td>
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<td>98</td>
<td>Automated Paper Delivery Robot</td>
<td>Gunnar Etzkorn*</td>
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<td>99</td>
<td>Heat Transfer Analysis: Multi-Fin</td>
<td>William Pretorius*, John Contrell**</td>
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<tr>
<td>100</td>
<td>Neural Network Based Soil Resistivity Prediction for Arkansas</td>
<td>Mdorifol Hassan**</td>
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<tr>
<td>101</td>
<td>Evaluation of Aggregate-Binder Compatibility Yzing Surface Free Energy Theory</td>
<td>Mohammad Nazmul Hassan**</td>
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<td>102</td>
<td>Replacement of Conventional Elastic Recovery (ER) Test by Dynamic Shear Rheometer (DSR) Based Tests</td>
<td>MMTarig Morsheed**, MM Tarig Morsheed**</td>
</tr>
<tr>
<td>103</td>
<td>Potential Use of Rice Husk Ash (RHA) in Asphalt Modification</td>
<td>Kazi Tamzidul Islam**</td>
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<tr>
<td>104</td>
<td>Optical Momentum Reversal in Nanoparticle Surface Arrays</td>
<td>Christopher Jones**, Christopher Jones**</td>
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<td>105</td>
<td>Frameless Laser Harp</td>
<td>Ashlyn Johnson*</td>
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<td>106</td>
<td>The Natural Frequency</td>
<td>Brian Hufty*, Nicholas Garcia*, Dustin Tran*</td>
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<tr>
<td>107</td>
<td>Lower Body Powered Exoskeleton</td>
<td>Elizabeth Compton*</td>
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<td>108</td>
<td>Automated Material Transport System</td>
<td>Elizabeth Compton*</td>
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<tr>
<td>109</td>
<td>Development of a Programmable Logic Controllers Trainer for Industrial Project Simulation</td>
<td>Ahlam Safouhi*, Mohamed Adawi*, Desmond Nyaho*</td>
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<tr>
<td>110</td>
<td>Bridge Structure Static and Vibration Analysis</td>
<td>John Cottrell, Rebecca Chen</td>
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<tr>
<td>111</td>
<td>Human Power Vehicle</td>
<td>Abdalala Alsuwaij*, Daniel Bope*, Yukihiro Miyakawa*, Preston Spencer*</td>
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<tr>
<td>112</td>
<td>Steel Recycling Simulation</td>
<td>Abdalala Alsuwaij*</td>
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<td>113</td>
<td>SAE Baja Drivetrain</td>
<td>Brandon Cole*</td>
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<td>114</td>
<td>SAE Baja Suspension</td>
<td>Brandon Cole*</td>
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<td>115</td>
<td>Pick and Place Robotic Arm</td>
<td>Nicolas Thomas*, Gunnar Etzkorn*</td>
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<td>116</td>
<td>PMC Shaker Tower</td>
<td>Nicolas Thomas*, Gunnar Etzkorn*</td>
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<td>117</td>
<td>Continuous to Discrete Time Converter</td>
<td>Rocklan McCaill*</td>
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<td>118</td>
<td>Tone Producing Tuning Device</td>
<td>Kyler Dickey*</td>
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<tr>
<td>119</td>
<td>Laser Communication System</td>
<td>Ahmed Alsehali*</td>
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<tr>
<td>120</td>
<td>Battery Level Indicator</td>
<td>Judee Scott-Jones*</td>
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<tr>
<td>121</td>
<td>DNA Entrapment Using Light-Matter Interaction in Nano-Patterned Arrays</td>
<td>Rebecca Chen*</td>
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<tr>
<td>122</td>
<td>3D Printing Technology with Two Photon Lithography</td>
<td>Dustin Tran*, Waed Alganahtani*</td>
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**Concurrent Oral Sessions**, Reng Student Union, 3rd Floor  
College of Engineering & Computer Science  
College of Agriculture

**April 17th, 2019, 1:00 p.m. - 2:30 p.m.**

**College of Engineering & Computer Science**  
Black River Room

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<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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<tr>
<td>1:00 p.m.</td>
<td>Clayton Liddell*</td>
<td>Analyzing the Adoption Rate of Local Variable Type Inference in Open Source Java 10 Projects</td>
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<tr>
<td>1:15 p.m.</td>
<td>Sumon Roy**</td>
<td>Investigation of Moisture Damage of Asphalt Bidders Using the Atomic Force Microscopy (AFM) Techniques</td>
</tr>
<tr>
<td>1:30 p.m.</td>
<td>Sandeep Aryal**</td>
<td>Unsteady Modeling on Fly Ash Deposition in Full-Scale Gas-To-Gas Heaters for Ultrasupercritical Pulverized Coal-Fired Power Plant Applications</td>
</tr>
<tr>
<td>1:45 p.m.</td>
<td>MD. Sailujaman**</td>
<td>Modeling for Mineral Redistribution of Blended Coals During Pulverized Coal Combustion</td>
</tr>
<tr>
<td>2:00 p.m.</td>
<td>Santosh Tamang**</td>
<td>Analytical Modeling on Multiphase Heat and Mass Transfer in Full-Scale Gas-To-Gas Heaters for Ultra-Supercritical Pulverized Coal-Fired Power Plant Applications</td>
</tr>
<tr>
<td>2:15 p.m.</td>
<td>Tamal Sarkar**</td>
<td>Electrostatic Stability and Optical Tunability of Charged Particles In Inverted Systems: An Approach Towards Novel Tunable Surfaces</td>
</tr>
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**April 17th, 2019, 1:00 p.m. - 2:30 p.m.**

**College of Agriculture**  
Arkansas River Room

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>1:00 p.m.</td>
<td>Neha Verma**</td>
<td>Hydroxyproline-O-Glycosylation in Monocot Plants and its Application in Cell Wall Engineering</td>
</tr>
<tr>
<td>1:15 p.m.</td>
<td>Amber Booth**</td>
<td>Non-Coding RNA Influence on Manganese Peroxidase Quantity Variation in Isogenic Corn Lines</td>
</tr>
<tr>
<td>1:30 p.m.</td>
<td>Joshua Byrd**</td>
<td>Plant-Produced Oxidation/Reduction Enzymes as Bioremediation Agents</td>
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**April 17th, 2019, 2:45 p.m. - 3:45 p.m.**

**Demonstrations**, Vaughn Student Lounge  
College of Engineering & Computer Science

**April 17th, 2019, 4:00 p.m. - 5:00 p.m.**

**Awards Program and Reception**, Auditorium