



April 15-17
2019

create

CREATE @ **STATE**

A Symposium of Research, Scholarship & Creativity

Table of Contents

Schedule 2

Map 3

Presentation Schedule 7

Oral & Creative Presentations..... 22

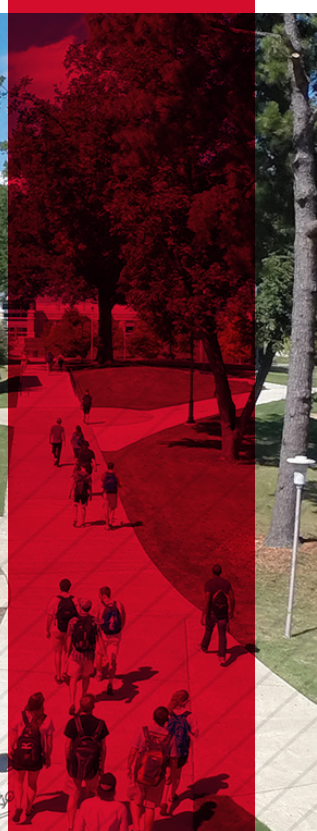
Poster Presentations..... 45

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)



- Room Used
- Room Not Used

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

**April 16
2019**

Schedule

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**

Schedule

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



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* - Undergraduate ** - Graduate

Create@State Symposium 2019 is finally here, and we would like to acknowledge the collaborative efforts of the administrators, faculty, staff and students across campus who have made this event possible. This event marks another record year of student presentations and performances, showcasing more than 100 oral and creative presentations and over 120 poster presentations, as well as engaging hands-on demonstrations by our students from various colleges and disciplines. This three-day event, both at Fowler Center and the Reng Student Union, is an inspiring showcase of the students' faculty-mentored research, scholarly and creative works from across each of our colleges and disciplines. This important event provides a diverse setting for students to engage with the community, showcase research for community impact, and to receive feedback from potential employers and networks for student learning and community building.

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 with 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 with 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 to 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.

We sincerely thank and welcome this year's judges, made up of alumni, industry, community leaders and foundations who invest their time and resources in growing opportunities for student experiences reflected in the presentations in this week's showcase! Your engagement with our students and faculty make extraordinary experiences possible for our university.

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

Showcase of the Arts - Music, Theater & Visual Arts, Fowler Center

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

CREATIVE MUSICAL PERFORMANCES

RICELAND HALL

9:00 a.m.	Parker Long*	Elemental Ambience
9:15 a.m.	Adam Baxter*	Effective Coordination of Musical Elements in Persichetti's Parable for Solo Oboe
9:30 a.m.	Jeremiah Page*	Accessing Harmonics on the Bass as an Extension of Register

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

CREATIVE VISUALS, VISUAL ARTS & THEATRE

GRAND BALLROOM

Courtney Light*	Makeup for Animal Farm	
Amy Faughn *	Makeup Design for Soft Animals	
Zac Passmore*	Costume Design for Soft Animals	
Davis Campbell*	Kassidy Ratz*	Constructing Turn of the Century Garments for Silent Sky
Abbey Cooper* Courtney Light* Precious McCullough* Lauren Wilcox*	Hannah Martin* Amy Faughn* Michaela Partridge*	Claire Thomas* Kennedy Woodall* Katelyn Stanton*
Justin Mohler*	The Eye-Nose-Mouth Connection: Creating Theatrical Animal Makeup Applications	
Mallory Flippin*	What Can Drawing Do For You?	
Mallory Flippin*	Cat Print Prints	
Mallory Flippin*	Cat Yawns	
Autumn Harris*	Lexi Herring*	Lourdes Hernandez*
Kaly Beede*	App Development for Best Practices in Row Crop Burning	
Kaly Beede*	Mental Self-Portrait	
Kaly Beede*	Home	
Cassandra Heck* Laurel Gaither* Sook Young Yoo* Kenneth Wilette*	Christian Adams* Madison Riddle* Grace Hill*	Jacob Mathis* Allyson Fowler* Mathew Jones*
	Selfie in Disguise (Value and Shape Collage): Design I Students <i>Individual Collages</i>	

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* - Undergraduate ** - Graduate

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April 15th, 11:00 a.m. - Noon

CREATIVE THEATRICAL PERFORMANCES

SIMPSON THEATRE

Abbey Cooper*	Katelyn Stanton*	<i>Othello</i> by William Shakespeare
Carson Horton*	Courtney Light*	<i>Henry IV Part 1</i> by William Shakespeare
Michaela Partidge*	Hayley Scott*	<i>All's Well That Ends Well</i> by William Shakespeare
Bryce Moore*	Whitley Fore Newman*	<i>Hamlet</i> by William Shakespeare
Joshua Pryor*		
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

9:00 a.m.	Christian Willis*	Lesley Gore
9:15 a.m.	Emily Crawley*	Queer Black Representation in Modern Television
9:30 a.m.	Lashundra Clark*	The Transgender Ban in the Military
9:45 a.m.	Zachary Young*	Your Gender is Being Conformed Even at the Latest Hours of the Night
10:00 a.m.	Zoey Smith*	Pretty Hurts': How Societal Views Negatively Impact Women

April 15th, 2019, 10:45 a.m. - Noon

COLLEGE OF LIBERAL ARTS & COMMUNICATION, COMMUNICATION STUDIES

ARKANSAS RIVER ROOM

10:45 a.m.	Benjamin Tucker*	The Power of Gender in Cosplay
11:00 a.m.	Haley Peoples*	Halestorm: a Critical Analysis of Gender Performance in Today's Music Industry

11:15 a.m.	Tanisha Tak*	Self-Disclosure in Peer Mentoring at the Communication Center at Arkansas State University
11:30 a.m.	Steven Holmquist*	The Ultimate Issue, a Look at Gender in Coed Ultimate Frisbee
11:45 a.m.	Tanisha Tak*	The Analyzation of the Representation of Gendered Topics in Brooklyn 99

April 15th, 2019, 1:00 p.m. - 2:15 p.m.

COLLEGE OF LIBERAL ARTS & COMMUNICATION, COMMUNICATION STUDIES

ARKANSAS RIVER ROOM

1:00 p.m.	Hyunwoo Ahn*	Male Dancer's Gender Role Identity Conflict and Adaptation
1:15 p.m.	Katelyn Wall*	Sexual Assault: an Epidemic on College Campus
1:30 p.m.	Emily Riley*	Women, Hunting, and Social Media: Defying Traditional Gender Norms
1:45 p.m.	Justin Darnell*	Organizational Misconduct

April 15th, 2019, 1:00 p.m. - 2:15 p.m.

COLLEGE OF LIBERAL ARTS & COMMUNICATION, HUMANITIES & ARTS

BLACK RIVER ROOM

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

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* - 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 Borchartd*	Spectrum: A Collection Of Original Poetry Conveying Themes Expressed 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

* - Undergraduate ** - Graduate

Concurrent Oral Sessions, Reng Student Union, 3rd Floor

College of Nursing & Health Professions

College of Education & Behavioral Science

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** Michelle Sarna** Dalton Craig** Kolton Crawford** Savannah Hogan**	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* Jennifer Reves* Olivia Peeler*	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

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* - Undergraduate ** - Graduate

* - Undergraduate ** - Graduate

Poster Session, Centennial Hall

College of Nursing & Health Professions

April 16th, 2019, 10:00 a.m. - Noon

COLLEGE OF NURSING & HEALTH PROFESSIONS

CENTENNIAL HALL

1	Nicholas Jacques** Megan Etter**	Posturing Responses in Concussions: Boxing & Mixed Martial Arts Fighters
2	Cynthia Teague**	Diabetes and Exercise: Improving Patient Outcomes
3	Sarah Lowtharp**	Universal MRSA Decolonization Versus Screening and Isolation of ICU Patients
4	Ryan Anderson**	Adherence is Key: Improving Hypertension Control through Education
5	Broderick Sheard**	A Local Family Clinic's Treatment Rate for Treating Hyperlipidemia in Diabetic Patients According to 2018 ACC/AHA Guidelines
6	Kellye Brown**	A West Memphis Clinic's Adherence to JNC 8 Guidelines for African American Patients
7	Corey Dorman**	Colorectal Cancer Screening Rate of a Local Clinic in Northeast Arkansas
8	Michael Gossett**	A Local Clinic's Influenza Vaccination Rate of COPD Patients Versus the National Average
9	Jessica Holsted** Michelle Sarna** Dalton Craig** Kolton Crawford** Savannah Hogan**	The Effects of Using Blood Flow Restriction Exercise for Proximal Strength at the Shoulder
10	Taylor Wilkes**	Comparing the Benefits of LLLT and Dietary Supplementation for Muscle Recovery Post Fatiguing Exercise
11	Holly Wilmarth** Houston Talmage**	Pain Neuroscience Education for Physical and Occupational Therapy Students
12	MaKenzie Hudspeth** Ashley Rash**	Chronic Pain and Personality Type
13	William Bowen** Joe Looney**	Revisiting Microbial Resistance to Blue Light Therapy
14	Laurell Gamblin**	Adherence to Alcohol Screening Guidelines within Primary Care
15	Allyssa Sellmeyer**	Discussion of Advanced Directives with Primary Care Patients with Medicare

16	Felica Woods**	A Retrospective Chart Review of Immunization Rates in COPD Patients in the Primary Care Setting
17	Jeremy Lawson**	Depression Screening Rate in a Rural Health Clinic in Pemiscot County, Missouri, Compared to a National Rate of 4.2%
18	Marka Ahrent**	A Rural Clinic's Patient Population Adherence to Gold Diagnostic Criteria for Using Pulmonary Function Tests in COPD
19	Kasey Sharp**	Calcium Versus Bisphosphonate Treatment for Osteoporosis in Postmenopausal Women
20	Michelle Snow**	A Look at the Rate of Provider Adherence to the Recommendations of Diabetic Foot Exams in a North Central Arkansas Primary Care Clinic
21	Charity Lane**	Comparison of Rate of Statin Prescription in Diabetics
22	Heather Polk**	A Primary Care Clinic's HPV Vaccine Rate Versus the National Average of 65.5%
23	Chelsea Hendrix**	Adherence of Statin Therapy in Diabetic Patients
24	Jena Shepherd**	Discussion of Advance Directives in Primary Care
25	Alex Kurtzweil**	A Rural Arkansas Clinic Depression Screening Rate vs. the National Average
26	Brittany Benton**	Chlamydia Reassessment Rates After Diagnosis in Central Arkansas
27	Skyler Mankin**	Onset of Menses in Desha County Arkansas Versus the National Average of 12.8 Years
28	Samantha Cawyer** Madison James** Thomas Sustich**	The Relationship Between Chronic Low Back Pain and Inspiratory Abilities
29	Avery Turpin*	Effects of the Amount of Eggs in a Dessert
30	Mary Daniel Johnson*	Testing Sensory Differences in Peanut Butter Compared to Sun Butter in a Prepared Recipe
31	Anthony Ciaramitaro**	Influenza Risk Involving COPD and Adherence to Gold Guidelines
32	Ashiqua Jackson**	Treating Hypertension According to JNC-8 Guidelines in African American Women
33	Mackenzie Chambers**	Protection Against Influenza with Appropriate Immunization
34	Victoria Johnson**	Antibiotic Use in Adults with Acute Bronchitis
35	Alicia Earley**	Smoking Cessation Products Used as First Line of Defense
36	Erica Dillard**	Evidence Based Clinical Practice Guideline for Diabetes

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* - Undergraduate ** - Graduate

37	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?
38	Lindsay Sheets**	Are Patients with Erectile Dysfunction Receiving First-Line Medication?
39	Rocio Rodes**	COPD
40	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%?
41	Michael Hall* Haylee Dragon*	The Importance of Patient Positioning in Diagnostic Imaging
42	Koreanna Forster* Kirstin Bratton*	Chronic Shoulder Dislocation: An Imaging Case Study
43	Rachel McCallister*	A Comparison of White and Brown Sugar in a Product Containing Coconut
44	Kaylen Perkins*	Testing the Palatability of Whole Wheat Flour vs. All-Purpose Flour in Desserts
45	Abigail McNatt*	Comparing Whole Wheat Flour Tortillas and White Flour Tortillas in a Dessert Recipe
46	Jennifer Taylor*	Bringing the Flavor of Greece Into a Health-Conscious Community
47	Braelen Hunt*	Nutritional Yeast as a Palatable Source of Vitamin B12 for Adolescents
48	Sara Saucedo*	Consumption of a Vegan Diet: Provides Adequate Iron Intake to Prevent Iron Deficiency and Anemia
49	Abbigale Carlyle*	Lemon Chia Seed Cookies
50	Alyssa Cunningham*	Case Study: Radiation Therapy's Role in the Treatment of Pediatric Osteosarcoma
51	Mariah Dykes*	Baylor Sexual Assault Scandal: Crisis Communication and Brand Reputation (**Colac Poster)

* - Undergraduate ** - Graduate

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

10:15 a.m.	Lindsey Brochu*	Jumping & Concussing
10:30 a.m.	Trevor Asher*	Functions of Music
10:45 a.m.	Bryston Hickman*	The Effect of Judge Leadership Style on Jury Decision Making
11:00 a.m.	Kassidy Ratz*	Jury Decision Making: The Effects of Witness Testimony and Crime Severity

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

COLLEGE OF EDUCATION & BEHAVIORAL SCIENCE, PSYCHOLOGY

BLACK RIVER ROOM

10:15 a.m.	Diana Huynh* Shelby Daniele* Leea Carver* Madalyn Crittenden*	Mindfulness Through Body Awareness: An Action Research Project
10:30 a.m.	Lindsey Hall* Monica Percy*	Full STEM Ahead: Evaluating Thunder Over the Rock's STEM Fest for Informal Science Education Experiences
10:45 a.m.	Darla Thomas* Megan Gunnels* Sara Brown* Taylor Shields*	Effects of Expert and Character Witness Testimony on Jury Verdicts in a Murder Trial
11:00 a.m.	McKenzie Griffin*	Effects of Biofeedback on Stress and Anxiety in College Students at Arkansas State University

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* - Undergraduate ** - Graduate

* - Undergraduate ** - Graduate

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 II-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 Mohammadhosseinpour**	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	Christina Okolo*	Synthesis and Antiproliferative Activity of Thiazolo-Androstrenones Against Breast Cancer Cell Lines
61	Jordan Fryman*	Nitration of 4-Np Using Nitrate Salts
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	Kennith 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 Auburn* Bailey McAlexander* Joshua Gray* Lauren Calhoun* Haitao Zhang**	Roles and Molecular Mechanisms of the Phosphor Regulation in Cap1 Functions
123	Grant Dawson*	Helping the Herps: Restoring the Past for Arkansas State's Future

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* - Undergraduate ** - Graduate

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	Kimberley 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 Cothron* 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

89	Shelby Daniele* Madalyn Crittenden*	Friend or Phone? Mindfulness and Phubbing in College Students
90	Jeremy DeLon*	Practicality of the Functional Movement System in the General Population
91	Hannah Freeland* Kayle Long*	Familiarization Sessions are Not Necessary for Sprint Assessments in Rugby Athletes
92	Kasey Lody* Kennedy Brookfield* Abigail Lovell*	The Influence of Gender Stereotypes on the Perceptions of Stalking

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 Craigo*	Healthier Habits **Remote presentation
Fadeel Aloqili*	Win Outfitter
Caitlin Archer*	Thankful Earth
Joel Haynes*	Joey's
Griffin Dunn*	Drain Champion
Hogan Sims Dailey*	Eagle Rock Outfitters
Amari James*	Kolossal Kuts
Kailee Hutchison*	Charity Hotel
Zachary Ray*	SafeGuard
Brendon Eminger*	Extraordinaire Soliare

create

* - Undergraduate ** - Graduate

* - 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

93	Akash Lal** Amber Booth**	Analysis Of DNA Methylation To Understand Protein Accumulation In Transgenic Corn Seeds
94	Naina Rao** Caroline Kelly** Callie Phipps* Brenna Cannon*	Floral Dip Transformation Of Camelina Sativa L. With A Myo-Inositol Oxygenase Gene To Potentially Improve Oil Yield
95	Nikkolette Perkins*	Oxidation and Reduction Enzymes as Bioremediation Agents
96	Brenna Cannon* Caroline Kelley** Callie Phipps* Brett Hale** Naina Rao**	Soybean Androgenesis from Floating Anther Culture
97	Jessica Kroh*	Geospatial Variability and Cotton Production- Profitability in a Northeast Arkansas Field

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

COLLEGE OF ENGINEERING & COMPUTER SCIENCE

CENTENNIAL HALL

98	Gunnar Etkorn*	Automated Paper Delivery Robot
99	William Pretorius* John Contrell*	Heat Transfer Analysis: Multi-Fin
100	Mdariful Hasan**	Neural Network Based Soil Resistivity Prediction for Arkansas
101	Mohammad Nazmul Hassan**	Evaluation of Aggregate-Binder Compatibility Using Surface Free Energy Theory
102	MMTariq Morshed**	Replacement of Conventional Elastic Recovery (ER) Test by Dynamic Shear Rheometer (DSR) Based Tests
103	Kazi Tamzidul Islam**	Potential Use of Rice Husk Ash (RHA) in Asphalt Modification
104	Christopher Jones**	Optical Momentum Reversal in Nanoparticle Surface Arrays

105	Ashlyn Johnson*	Frameless Laser Harp
106	Brian Hufty* Nicholas Garcia* Dustin Tran*	The Natural Frequency
107	Elizabeth Compton*	Lower Body Powered Exoskeleton
108	Elizabeth Compton*	Automated Material Transport System
109	Ahlam Safouhi* Mohamed Adawi* Desmond Nyaho*	Development of a Programmable Logic Controllers Trainer for Industrial Project Simulation
110	John Cottrell Rebecca Chen	Bridge Structure Static and Vibration Analysis
111	Abdalala Alsuwajj* Daniel Bope* Yuichiro Miyakawa* Preston Spencer*	Human Power Vehicle
112	Abdalala Alsuwajj*	Steel Recycling Simulation
113	Brandon Cole*	SAE Baja Drivetrain
114	Brandon Cole*	SAE Baja Suspension
115	Nicolas Thomas* Gunnar Etkorn*	Pick and Place Robotic Arm
116	Nicolas Thomas* Gunnar Etkorn*	PMC Shaker Tower
117	Rocklan McCall*	Continuous to Discrete Time Converter
118	Kyler Dickey*	Tone Producing Tuning Device
119	Ahmed Alsehali*	Laser Communication System
120	Jadee Scott-Jones*	Battery Level Indicator
121	Rebecca Chen*	DNA Entrapment Using Light-Matter Interaction in Nano-Patterned Arrays
122	Dustin Tran* Wael Alqahtani*	3D Printing Technology with Two Photon Lithography

create

* - Undergraduate ** - Graduate

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

April 17th, 2019, 10:15 a.m. - 11:30 a.m.

NEIL GRIFFIN COLLEGE OF BUSINESS
AUDITORIUM

Jenny Keller
Caleb Keating
Collin Cahill
Mary Conroy
Rainey Gibbs
Marisa Marquez
Shawna Martin
Beth Meister

Oral Session, Reng Student Union, 3rd Floor
NEIL GRIFFIN COLLEGE OF BUSINESS
AUDITORIUM

Alex Gookin*	Online Media Usage of Arkansas State University Students: Influence on Wellbeing, Motivation, and Learning
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* - Undergraduate ** - Graduate

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

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

April 17th, 2019, 1:00 p.m. - 2:30 p.m.
COLLEGE OF AGRICULTURE
ARKANSAS RIVER ROOM

1:00 p.m.	Neha Verma**	Hydroxyproline-O-Glycosylation in Monocot Plants and its Application in Cell Wall Engineering
1:15 p.m.	Amber Booth**	Non-Coding RNA Influence on Manganese Peroxidase Quantity Variation in Isogenic Corn Lines
1:30 p.m.	Joshua Byrd**	Plant-Produced Oxidation/Reduction Enzymes as Bioremediation Agents

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