

**MISSOURI ACADEMY OF SCIENCE**

**2021 AGRICULTURE SECTION**

**Location: Brouder Science Center 116**

**Zoom Meeting ID 974 4322 4137 Pass code: 854054**

<b><u>TIME</u></b>	<b><u>AUTHOR/TITLE OF ORAL PRESENTATION</u></b>
1:30	M. Mire and G. Zheng, Cooperative Research Programs, Lincoln University of Missouri. <b>GENETIC MARKERS AND A PCR METHOD FOR DIFFERENTIATING CRYPTIC E. COLI AND E. COLI.</b>
1:50	S. Thapa. School of Natural Sciences, University of Central Missouri. <b>TRANSPIRATION EFFICIENCY IN CORN DIFFERS ACCORDING TO THE GROWTH STAGE AND HYBRID.</b>
2:10	I. S. Braden and M. Aide. Department of Agriculture, Southeast Missouri State University. <b>WATER QUALITY AND SOIL HEALTH AT THE DAVID M. BARTON AGRICULTURE RESEARCH CENTER</b>
2:30	G. Caldwell <sup>1,*</sup> , A. Ikem <sup>1,2</sup> , and J. Garth. <sup>2</sup> <sup>1</sup> Department of Agriculture and Environmental Sciences, Lincoln University, <sup>2</sup> Cooperative Research Programs, Lincoln University. <b>THG CONCENTRATIONS OF RAINBOW TROUT (<i>ONCORHYNCHUS MYKISS</i>) FROM AQUACULTURE: EFFECT OF SIZE AND ASSESSMENT OF HUMAN HEALTH RISKS.</b>

MISSOURI ACADEMY OF SCIENCE

2021 AGRICULTURE SECTION

Zoom Meeting ID 974 4322 4137 Pass code: 854054

AUTHOR/TITLE OF POSTER PRESENTATION

IN-PERSON SESSION

1. N. Bhusal and G. Zheng, Cooperative Research Programs, Lincoln University of Missouri. **EFFICACY OF ENDOPHYTIC *BACILLUS SUBTILIS* LCA ON REDUCING POTENTIAL CONTAMINATION OF *ESCHERICHIA COLI* O157:H7 IN ROMAINE LETTUCE**
2. J. Ansari<sup>a</sup>, S.H. Anderson<sup>a</sup>, S. Bardhan<sup>a</sup>, and F. Eivazi<sup>b</sup>, <sup>a</sup>School of Natural Resources, University of Missouri, Columbia, <sup>b</sup>Department of Agriculture/Cooperative Research, Lincoln University. **SOIL ENZYME ACTIVITIES AFFECTED BY SELECTED LAND MANAGEMENT IN MISSOURI RIVER FLOODPLAIN**

VIRTUAL SESSION

3. H. Baia, T. Nakinib, G. DeSouzab, and F. Fritschic<sup>\*</sup>, <sup>a</sup>School of Agricultural Sciences, Northwest Missouri State University, <sup>2</sup>Department of Electrical and Computer Engineering, University of Missouri, <sup>\*3</sup>Division of Plant Sciences, University of Missouri. **USE OF AN X-BOX CAMERA TO MODEL SOYBEAN 3D STRUCTURE AND MORPHOLOGICAL TRAITS**
4. S.E. Svenson, Charles Nemanick Alternative Agriculture Garden, Department of Agriculture, Southeast Missouri State University. **NATIVE PERENNIALS FOR BUTTERFLY AND POLLINATOR GARDENS: SIXTH YEAR PERFORMANCE IN SOUTHEAST MISSOURI**
5. N. Al-Awwal<sup>a</sup>, M. El-Dweik<sup>b</sup>, M. Mehdi<sup>b</sup> and S.H. Anderson<sup>a</sup>. <sup>a</sup> School of Natural Resources, University of Missouri, <sup>b</sup> Cooperative Research, Lincoln University. **NANOPARTICLE IMMUNO-FLUORESCENT PROBES AS A SPECIFIC METHOD FOR THE DETECTION OF VIABLE E. COLI**
6. M.R. Islam and S.Pathan. Department of Agriculture and Environmental Sciences, Lincoln University. **EVALUATION OF QUINOA VARIETIES FOR YIELD AND YIELD RELATED TRAITS**
7. S. T. Jhumur and S. Pathan. Department of Agriculture and Environmental Sciences, Lincoln University. **SELECTION OF DROUGHT TOLERANT QUINOA VARIETIES FOR THE MID-WEST**

8. J. Smith<sup>1</sup>, and B. Valliyodan<sup>2</sup>. <sup>1</sup>Department of Science, Technology and Mathematics, <sup>2</sup>Department of Agriculture and Environmental Science, Lincoln University. **COMPARISON OF SOIL MICROBIOME OF ORGANIC AND CONVENTIONAL RESEARCH FARMS AT THE LINCOLN UNIVERSITY OF MISSOURI**
9. E. Bardot and I. S. Braden. Department of Agriculture, Southeast Missouri State University. **ONLINE LEARNING IN A PANDEMIC**
10. J. Smith. Agriculture, Lincoln University. **SOIL MICROBIOME DIVERSITY OF LINCOLN UNIVERSITY ORGANIC AND INORGANIC FARMS**
11. J. Pierce, D. Dunakey, C. Thomas, A. Spencer, C. Schabbing, S. Murray, and S. Siemers, Department of Agriculture, Southeast Missouri State University. **HORMONE IMPLANTS USED FOR GROWTH COMPARISON IN BEEF STEERS**
12. A. Moore, S. Murray, and S. Siemers, Department of Agriculture, Southeast Missouri State University. **CONSUMERS PREFERENCES FOR VARIOUS PASTA-LIKE PRODUCTS**

**MISSOURI ACADEMY OF SCIENCE**  
**2021 ATMOSPHERIC SCIENCE SECTION**

**Location: Brouder Science Center 131**

**Zoom Meeting ID 974 4322 4137    Pass code: 854054**

<b><u>TIME</u></b>	<b><u>AUTHOR/TITLE OF ORAL/ZOOM PRESENTATION</u></b>
1:30	W. Gilmore. National Weather Service Forecast Office, Little Rock, AR. <b>SURVEYING STORM DAMAGE USING THE DAMAGE ASSESSMENT TOOLKIT.</b>
1:50	J. Bongard, and P.S. Market. Atmospheric Science Program, School of Natural Resources, University of Missouri – Columbia. <b>IDENTIFYING THE PRESENCE OF COLD-AIR DAMMING ASSOCIATED WITH TOPOGRAPHICAL INFLUENCE FROM THE OZARK PLATEAU.</b>
2:10	L.J. McGuire, A. Nixon, C.E. Clay, and A.R. Lupo, Atmospheric Science Program, School of Natural Resources, University of Missouri – Columbia. <b>THE LONG-TERM VARIABILITY OF SOIL MOISTURE AND RECENT SEVERE WEATHER ACTIVITY IN THE CENTRAL USA.</b>
2:30	S. Mount, M.A. Est, C.A. Steward and A.R. Lupo, Atmospheric Science Program, School of Natural Resources, University of Missouri – Columbia. <b>THE IMPACT OF NORTHERN HEMISPHERE FLOW REGIME TRANSITIONS AND BLOCKING ON CENTRAL USA WEATHER: WINTER 2019 AND 2021.</b>
2:50	Atmospheric Science Business Meeting

MISSOURI ACADEMY OF SCIENCE

2021 BIOCHEMISTRY, BIOMEDICINE, & BIOTECHNOLOGY SECTION

Location: Brouder Science Center 133

Zoom Meeting ID 974 4322 4137 Pass code: 854054

TIME

AUTHOR/TITLE OF ORAL PRESENTATION

- 1:30 D. Morrone, Department of Basic Sciences, University of Health Sciences and Pharmacy in St. Louis. **REDUCED ALPHABET PROTEINS: GENERATION, BIOCHEMICAL CHARACTERIZATION, AND EVOLUTIONARY IMPLICATIONS.**
- 1:50 M. Asare, T. Shanko, E. Bisetegn, K. Fernandez, and M.G. Kumar, Department of Biology and Chemistry, Cottey College. **ANALYSIS OF THE MOLECULAR EFFECTS OF ACUTE DRUG TREATMENTS ON THE AQUATIC CYANOBACTERIA *MICROCYSTIS AERUGINOSA*.**

MISSOURI ACADEMY OF SCIENCE  
2021 BIOCHEMISTRY, BIOMEDICINE, & BIOTECHNOLOGY SECTION

Zoom Meeting ID 974 4322 4137 Pass code: 854054

**AUTHOR/TITLE OF POSTER PRESENTATION**

**IN-PERSON SESSION**

1. C. Rivas, C. Nichols, K. Kendrick, J. Wang, and R. J. Ulbricht, Department of Biomedical Sciences, Missouri State University. **SEX DEPENDENT EFFECTS OF INDUCED ACUTE INFLAMMATION ON RNA EDITING AND GLUCOSE METABOLISM.**
2. E. Randazzo and K. Strodman, Department of Physical and Biological Sciences, Columbia College. **CLONING 4-CARBOXYMUCONOLACTONE DECARBOXYLASE FROM *BRADYRHIZOBIUM DIAZOEFFICIENS* USDA 110.**
3. M. McGregor and K. Strodman, Department of Biochemistry, Columbia College. **PURIFICATION AND CHARACTERIZATION OF PSJM1 AND PSJM2 OF *BRADYRHIZOBIUM DIAZOEFFICIENS*.**
4. K. Espen, K. Strodman, and C. Babayco, Department of Physical and Biological Sciences, Columbia College. **WASTEWATER FLOODING INDUCED CHANGES IN THE SOIL MICROBIOME AND ENZYMATIC ACTIVITY WITHIN THE EAGLE BLUFFS CONSERVATION AREA.**
5. L. Berliew, M. Schad, and N. K. Sharma, Department of Biology and Environmental Health, Missouri Southern State University. **EXPLORING THE POTENTIAL OF FLAVOPERIREIRINE AGAINST BREAST CANCER AT THE MOLECULAR LEVEL.**

**VIRTUAL SESSION**

6. C. Nichols, B. N. James, T. S. Tebbe, B. M. Macander, and R. J. Ulbricht, Department of Biomedical Sciences, Missouri State University. **TISSUE-SPECIFIC CHANGES IN RNA EDITING DURING INDUCED INFLAMMATION.**
7. Y. Zhang, W. Liu, and R. Wang, Department of Chemistry and Center for Research in Energy and Environment, Missouri University of Science and Technology. **METALLIZATION OF DNA NANOSTRUCTURES AS BUILDING BLOCKS FOR FABRICATING NANOELECTRONIC CIRCUITS.**
8. H. Short, K. Strodman, Department of Physical and Biological Sciences, Columbia College. **CLONING 3-OXOADIPATE ENOL-LACTONASE FROM *BRADYRHIZOBIUM DIAZOEFFICIENS* USDA 110.**
9. E. Bisotto and N. K. Sharma, Department of Biology and Environmental Health, Missouri Southern State University. **ANALYSIS OF MOLECULAR TARGETS OF SHH INHIBITOR LDE-225 IN BREAST CANCER CELLS.**

MISSOURI ACADEMY OF SCIENCE

2021 BIOLOGY SECTION

Location: Brouder Science Center 227

Zoom Meeting ID 974 4322 4137 Pass code: 854054

TIME

AUTHOR/TITLE OF ORAL PRESENTATION

- 1:30 T. Roy. Department of Biology. Missouri Western State University. **A CLOSER LOOK AT THE EVOLUTION AND DIVERSIFICATION OF THE “ROSWEEEDS” (GENUS: *SILPHIUM*; FAMILY: ASTERACEAE).**
- 1:50 V. Morales, A. Mosher and A. Russell, Department of Biology, Missouri State University. **IMPORTANCE OF BEE DIET BREADTH AND CONSERVATION ACTIONS.**
- 2:10 T. Santana-Baez<sup>1</sup>, E. McHugh<sup>1</sup>, D. Monismith<sup>2</sup>, Jr., J. Campbell<sup>1</sup> and A. Campbell<sup>1</sup>.  
<sup>1</sup>Department of Natural Sciences, Northwest Missouri State University. <sup>2</sup>557<sup>th</sup> Software Maintenance Squadron, Tinker Air Force Base. **COMPERATIVE GENOMICS OF CADMIUM-RESISTANCE ISOLATES WITHIN *COMAMONADACEAE* ISOLATES FROM CONTAMINATED SOILS OF PICHER, OK**

MISSOURI ACADEMY OF SCIENCE

2021 BIOLOGY SECTION

Zoom Meeting ID 974 4322 4137 Pass code: 854054

AUTHOR/TITLE OF POSTER PRESENTATION

IN-PERSON SESSION

1. C. Horstmann and K. Kim. Department of Biology, Missouri State University. **AN INVESTIGATION ON TRANSCRIPTOME PROFILE ALTERATIONS AND TOXICITY OF CDSE/ZNS AND INP/ZNS QUANTUM DOTS IN BAKER'S YEAST.**
2. V. Davenport. Biology Department, Missouri State University. **A COMPARISON OF CHITOSAN DERIVATIVES AND THEIR POTENTIAL FOR BIOMEDICAL APPLICATIONS OF INTRA-CELLULAR DELIVERY.**
3. D. Klewer and L. Miller. Department of Biology, College of the Ozarks. **TARDIGRADE DISTRIBUTION IN OZARK LICHENS, BARRY & TANEY COUNTY, MISSOURI, U.S.A.**
4. W. Cavanagh, V. Lee and D. Duvernell. Biological Sciences, Missouri University of Science and Technology. **ESTABLISHMENT OF A COMPREHENSIVE MITOGENOME DATABASE OF MISSOURI FISHES.**
5. A. Peters and K. Kim. Biology Department, Missouri State University. **NANOPARTICLE EFFECTS ON HUMAN THYROID CANCER CELLS.**

VIRTUAL SESSION

6. S. Boss and T. Roy. Department of Biology. Missouri Western State University. **A FRESH LOOK AT THE PHYLOGENETIC RELATIONSHIPS WITHIN THE GENUS *SILPHIUM*.**
7. E. Par. Department of Biology. Missouri Western State University. **A TANGLEGRAM METHOD OF INVESTIGATING THE INCONGRUENCE BETWEEN NUCLEAR AND ORGANELLAR DNA DATA WITHIN THE MINTS (SUBFAMILY: LAMIOIDEAE; FAMILY: LAMIACEAE).**
8. A. Haddock, S. Buehre, J. Poush, M. Tai, L. Tinoco, A. Zahnd and C. Barta. Department of Biology. Missouri Western State University. **COULD THE CAPACITY TO EMIT ISOPRENE AFFECT PLANT SENESCENCE IN A WARMING CLIMATE?**



9. C. Barta, S. Buehre, A. Haddock, B. Jenkins, D. Lindstrom, H. Meers, R. Prawitz, M. Tai, L. Tinoco and A. Zahnd. Department of Biology, Missouri Western State University. **GIBBERELLIC ACID SUPPLEMENTATION DECREASES THE NEGATIVE ALLELOPATHIC EFFECTS OF AMUR HONEYSUCKLE (*LONICERA MAACKII*) LEAF EXTRACTS ON MUSTARD (*BRASSICA RAPA* L. VAR. *RAPA*) SEED GERMINATION AND GROWTH.**
10. A. Mosher<sup>1</sup>, D. Papaj<sup>2</sup>, S. Buchmann<sup>2</sup>, T. Eltz<sup>3</sup> and A. Russell<sup>1</sup>. <sup>1</sup>Biology Department, Missouri State University. <sup>2</sup>University of Arizona. <sup>3</sup>University of Bochum. **NO TRICK ANTHERS: POSSIBLE MANIPULATION OF A POLLEN FORAGING BEHAVIOR BY PLANTS.**
11. K. Madigan and T. Martin. Department of Physical and Natural Sciences, Columbia College. **SYNERGISTIC *IN VITRO* EFFECTS OF CARVACROL AND CIPROFLOXACIN ON *ENTEROBACTER CLOACAE*.**
12. N. Sommer<sup>1</sup>, W. Obert<sup>1</sup>, D. Moser<sup>2</sup>, S. Hamilton-Brehm<sup>2,3</sup> and J. Campbell<sup>1</sup>. <sup>1</sup>Department of Natural Sciences, Northwest Missouri State University. <sup>2</sup>Desert Research Institute. <sup>3</sup>Department of Microbiology, Southern Illinois University. **ISOLATION OF OLIGOTROPHIC BACTERIA FROM TERRESTRIAL WATER SOURCES IN THE MOJAVE DESERT.**
13. M. Zhang and K. Kim. Biology Department, Missouri State University. **Cd AND InP QUANTUM DOT'S IMPACTS ON ML-1 THYROID AND HELA CELLS AND THEIR INNER TRAFFICS.**
14. R. Bruner and N. Sharma. Department of Biology and Environmental Health, Missouri Southern State University. **INHIBITORY POTENTIAL OF SORAFENIB ON PANCREATIC CANCER CELL LINE AsPC-1.**
15. M. Courtade, E. Bisotto and N. Sharma. Department of Biology and Environmental Health, Missouri Southern State University. **ANALYZING THE MOLECULAR TARGETS OF BEZ235- A PI3 KINASE INHIBITOR IN PROSTATE CANCER CELL LINE LNCap.**

MISSOURI ACADEMY OF SCIENCE

2021 CHEMISTRY SECTION

Location: Brouder Science Center 229

Zoom Meeting ID 974 4322 4137 Pass code: 854054

<u>TIME</u>	<u>AUTHOR/TITLE OF ORAL PRESENTATION</u>
1:30	M. Hadjian, Department of Chemistry, Truman State University. <b>IN VITRO EFFECTS OF SALINITY AND NORDIHYDROGUAIARETIC ACID ON AMYLOID-BETA 1-28 AGGREGATION.</b>
1:50	V. Winkler, Department of Chemistry and Biochemistry, Truman State University. <b>THE EFFECT OF CURCUMIN ON THE FIBRIL FORMATION OF AMYLOID-<math>\beta</math> FRAGMENTS 1-16, 1-28, AND 1-40.</b>
2:10	L. M. Kehoe, M. R. Sly, B. P. Salunkhe, T. J. Schuman, K. Woelk, Missouri University of Science and Technology. <b>CHEMICAL-SHIFT RESOLVED HIGH-RESOLUTION NUCLEAR MAGNETIC RESONANCE RELAXOMETRY OF POLYMER HYDROGELS.</b>
2:30	A. Taushanzhi, K. Taushanzhi J. L. Hayes, State Fair Community College. <b>WATER CHEMISTRY OF CENTRAL MISSOURI (AND BEYOND) A GROWTH IN DATA ANALYSIS.</b>
2:50	J. Rhoad, D. Freeman, D. Morrow, S. Culver, J. Dorris, Department of Chemistry, Missouri Western State University. <b>STUDIES IN THE CONFORMATIONAL PREFERENCES OF FLEXIBLE MONOSACCHARIDES.</b>
3:10	O. Sharifi, Department of Chemistry, Missouri Southern State University. <b>INDUCING APOPTOSIS ON CANCER CELL LINES VIA INHIBITION OF HIF-1 AND NADH-UBIQUINONE OXIDOREDUCTASE USING ACETOGENINS.</b>
3:30	B. Dhital, Department of Chemistry, Westminster College. <b>INTEGRATING COMPUTATIONAL CHEMISTRY INTO THE PHYSICAL CHEMISTRY CURRICULUM: CHALLENGES AND OPPORTUNITIES.</b>
3:50	C. A. Castelblanco Riveros, E. Skelly; D. L. Matthews, M. T. Urbaneck, C. C. Nwanonyeni, M. J. Meziani. Department of Natural Sciences, Department of Natural Sciences, Northwest Missouri State University. <b>EFFICIENT AND SIMPLE SYNTHESIS OF COMPOSITE RESIN INCORPORATING METAL AND MAGNETIC NANOPARTICLES.</b>

MISSOURI ACADEMY OF SCIENCE

2021 CHEMISTRY SECTION

Zoom Meeting ID 974 4322 4137 Pass code: 854054

AUTHOR/TITLE OF POSTER PRESENTATION

IN-PERSON SESSION

1. G. Tucker, K. Garrison, Department of Chemistry, College of the Ozarks. **ELECTROCHEMISTRY OF AN A-GALACTOSIDASE ENZYME-IMMOBILIZED CARBON PASTE ELECTRODE BIOSENSOR.**
2. F. Cooper, J. Easdon, Department of Chemistry, College of the Ozarks. **ALDOL REACTION OF CYCLOPENTANONE AND FURFURAL CATALYZED BY L-PROLINE WITH GREEN STEREOSELECTIVE METHOD.**
3. G. Wooden, Department of Chemistry, Missouri Southern State University. **SYNTHESIZING MODIFIED QUINOLINE IMIDAZOLE ANALOGUES.**

VIRTUAL SESSION

4. C. C. Nwanonyi, M. T. Urbanek, E. Skelly, C. A. Castelblanco Riveros, D. L. Matthews D. L.; Meziani, M. J. Department of Natural Sciences, Northwest Missouri State University, Maryville, Missouri. **HIGH-QUALITY BORON NITRIDE NANOSHEETS BY A SUPERCRITICAL FLUID EXFOLIATION.**
5. A. Sorrell, Department of Chemistry, Central Methodist University. **DIET-INDUCED OBESITY, INFLAMMATION, AND ORGAN DAMAGE IN MICE.**
6. K. Thapa, S. Han, W. Liu, and R. Wang Department of Chemistry, Missouri University of Science and Technology. **EFFECT OF IMMOBILIZED METHYLENE BLUE ON THE DNA ORIGAMI AS ELECTRON CARRIERS IN MICROBIAL FUEL CELL.**

MISSOURI ACADEMY OF SCIENCE

2021 CONSERVATION SECTION

Location: New Hall 135

Zoom Meeting ID 974 4322 4137 Pass code: 854054

**TIME**

**AUTHOR/TITLE OF ORAL PRESENTATION**

- 1:30 P. Klawinski, Department of Biology, William Jewell College. **COVID-19 MAY REDUCE ROADKILL IN MISSOURI.**
- 1:50 A. Cozens, M. Perkins, T. Boman, and R. Heth, Department of Biology and Environmental Health, Missouri Southern State University. **ESTABLISHING BASELINE LEVELS OF MICROPLASTICS IN BENTHIC SEDIMENT OF THE SPRING RIVER WATERSHED, MO.**
- 2:10 T. Peternell, T. Boman, M. Perkins, and R. Heth, Department of Biology and Environmental Health, Missouri Southern State University. **DETERMINING MICROPLASTIC CONCENTRATIONS IN THE WATER COLUMN OF THE SPRING RIVER WATERSHED, MO.**

MISSOURI ACADEMY OF SCIENCE

2021 CONSERVATION SECTION

Zoom Meeting ID 974 4322 4137 Pass code: 854054

**AUTHOR/TITLE OF POSTER PRESENTATION**

**IN-PERSON SESSION**

1. J. Brooks<sup>1</sup>, D. Duvernell<sup>1</sup>, and L. Berkman<sup>2</sup>, <sup>1</sup>Department of Biological Sciences, Missouri University of Science and Technology, <sup>2</sup>Missouri Department of Conservation. **POPULATION GENETICS OF MISSOURI TOPEKA SHINERS (*NOTROPIS TOPEKA*).**

**MISSOURI ACADEMY OF SCIENCE**

**2021 GEOGRAPHY SECTION**

**Zoom Meeting ID 974 4322 4137 Pass code: 854054**

**AUTHOR/TITLE OF POSTER PRESENTATION**

**IN-PERSON SESSION**

1. S. Tesfaye and A. Dudenhoeffer, Department of Agricultural, Environmental, and Human Sciences, Lincoln University. **MAPPING THE PATH OF THE MAY 22, 2019 ELDON-JEFFERSON CITY TORNADO USING GIS PRINCIPAL COMPONENT ANALYSIS.**

**MISSOURI ACADEMY OF SCIENCE**  
**2021 GEOLOGY AND GEOSCIENCES SECTION**  
**Zoom Meeting ID 974 4322 4137    Pass code: 854054**

**AUTHOR/TITLE OF POSTER PRESENTATION**

**VIRTUAL SESSION**

1. R. Gomez and M. Gutierrez. Department of Geology, Geography, and Planning, Missouri State University. **WATER QUALITY ANALYSIS OF THE SPRINGFIELD PLATEAU AQUIFER.**
  
2. D. DeHart and D. Gouzie. Department of Geology, Geography, and Planning, Missouri State University. **TEMPERATURE AND DISCHARGE MONITORING OF SPRINGS IN THE SPRINGFIELD PLATEAU, MISSOURI.**

**MISSOURI ACADEMY OF SCIENCE**  
**2021 PHYSICS AND ENGINEERING SECTION**  
**Zoom Meeting ID 974 4322 4137    Pass code: 854054**

**AUTHOR/TITLE OF POSTER PRESENTATION**

**VIRTUAL SESSION**

1. S. Longworth, Department of Chemistry, Missouri State University. **SEARCH FOR – AND GROWTH OF – ATOMIC-CAGE THERMOELECTRICS.**
2. B. Mason, R. Smith, T. Valdez, W. Trail, T. Stein, Department of Chemistry and Physics, Southwestern Oklahoma State University, **A STUDY OF FIN SHAPE ON 3D PRINTED ROCKETS.**
3. R. Hiner, W. Trail, Department of Chemistry and Physics, Southwestern Oklahoma State University, **LAUNCHING DROSOPHILA MELANOGASTER IN HIGH POWER ROCKETS.**
4. R. Horn, Department of Chemistry and Physics, Southwestern Oklahoma State University, **FLUIDIZED BED.**

**MISSOURI ACADEMY OF SCIENCE**

**2021 SCIENCE EDUCATION SECTION**

**Location: NEW 136**

**Zoom Meeting ID 974 4322 4137 Pass code: 854054**

**TIME**

**AUTHOR/TITLE OF ORAL PRESENTATION**

- 1:30 B. Hinrichs, C. Allen, and J. Adams. Department of Physics, Drury University. **STUDENT UNDERSTANDING OF ENERGY OF DIFFERENT SYSTEMS: COMPARING MODELING WITH TYPICAL INSTRUCTION.**
- 1:50 D. Morrone. Department of Basic Sciences, University of Health Sciences and Pharmacy in St. Louis. **STUDENT DESIGN AND TESTING OF FLUORESCENT-DHFR FUSION ENZYMES AS A VISUAL LEARNING TOOL IN BIOCHEMISTRY LABS.**
- 2:10 G. Bhattacharyya. Department of Chemistry, Missouri State University. **JUDGING GENERALIZABILITY USING “EXPERIENCE CONGRUENCE”.**

**MISSOURI ACADEMY OF SCIENCE**

**2021 SCIENCE EDUCATION SECTION**

**Zoom Meeting ID 974 4322 4137 Pass code: 854054**

**AUTHOR/TITLE OF POSTER PRESENTATION**

**IN-PERSON SESSION**

1. M. McGregor. CSAFE, Iowa State University. **FIREARM AND TOOLMARK SOPs ASSESSED TO DETERMINE VARIETY IN FORENSIC LABORATORIES.**



MISSOURI ACADEMY OF SCIENCE

2021 MAS SOCIAL AND BEHAVIORAL SCIENCES SECTION

Location: New Hall 132

Zoom Meeting ID 974 4322 4137 Pass code: 854054

<u>TIME</u>	<u>AUTHOR/TITLE OF ORAL PRESENTATION</u>
1:30	C.E. Boston <sup>1</sup> , M. Brooks <sup>1</sup> , J. Peterson <sup>2</sup> , and T. Spencer <sup>3</sup> , <sup>1</sup> Department of Social and Behavioral Science, Lincoln University, <sup>2</sup> Missouri State Museum, <sup>3</sup> Department of Science, Math, & Technology, Lincoln University. <b>PRELIMINARY FINDINGS OF CERAMIC ANALYSES FROM THE DON CARLOS SITE.</b>
1:50	M. Unnvik, Department of Psychology, Central Methodist University. <b>THE EFFECTS OF DISGUST ON POLITICAL ORIENTATION.</b>
2:10	A. Carrasco, Department of Psychology, Central Methodist University. <b>AUDIO LEVEL VARIATION EFFECTS ON SUSCEPTIBILITY TO THE MCGURK EFFECT.</b>
2:30	A. Powell, Department of Psychology, College of the Ozarks. <b>PTSD, YOGA, AND TELEHEALTH.</b>
2:50	M. Akers, Department of Psychology, College of the Ozarks. <b>MASKING: NORMATIVE OR INFORMATIONAL INFLUENCE?</b>
3:10	B. Jurgensmeyer, Department of Psychology, College of the Ozarks. <b>MEASURING PERCEIVED INFLUENCE OF GROUP ATTITUDES ON INDIVIDUAL SELF-DISCLOSURE TO SOCIAL GROUP.</b>
3:30	R. Powers, Department of Psychology, College of the Ozarks. <b>THE BENEFITS OF ANIMALS ON PROSOCIAL BEHAVIOR ON CHILDREN WHO HAVE EXPERIENCED TRAUMA.</b>
3:50	K. Peters, Department of Psychology, College of the Ozarks. <b>SOCIAL MEDIA AND ITS IMPACT ON ADOLESCENTS' SELF.</b>
4:10	B. Martin, Department of Psychology, College of the Ozarks. <b>THE EFFECT OF SOCIOECONOMIC STATUS ON ATTACHMENT.</b>
4:30	E. St. John, Department of Psychology, College of the Ozarks. <b>EFFECT OF THE LEVEL OF STEREOTYPE THREAT ON INTERRACIAL INTERACTION.</b>
4:50	J. Yelton, School of Social Sciences and Languages, University of Central Missouri. <b>LESLIE SPIER IN THE PACIFIC: REMNANTS OF A FAILED ANTHROPOLOGICAL EXPEDITION.</b>

**MISSOURI ACADEMY OF SCIENCE**  
**2021 MAS SOCIAL AND BEHAVIORAL SCIENCES SECTION**  
**Zoom Meeting ID 974 4322 4137 Pass code: 854054**

**AUTHOR/TITLE OF POSTER PRESENTATION**

**IN-PERSON SESSION**

1. E. Clary, M. Csongradi, and L. Wilson, Department of Psychology, Central Methodist University. **THE EFFECT OF RACE ON JUROR'S DEATH PENALTY SENTENCING.**
2. A. Brooks, Department of Psychology, College of the Ozarks. **ENNEAGRAM AND HUMOR PRODUCTION.**
3. A. Brooks, Department of Psychology, College of the Ozarks. **ALTRUISM AND ATTRACTION.**
4. C. Woody, Department of Psychology, **THE EFFECTS OF SOCIAL MEDIA ON ONE'S PSYCHOLOGICAL ENTITLEMENT.**