2018 Auburn Research Faculty Symposium Poster Session				
Author(s)	Department	College/School	<u>Title</u>	Coauthors and Affiliation
Amit Morey	Poultry Science	Agriculture	Developing post-harvest innovative technologies to improve food safety, quality and shelf-life	
lan Butts	School of Fisheries, Aquaculture and Aquatic Sciences	Agriculture	Effects of donor-recipient developmental stage and stem cell preparation on transplantation and xenogenesis success in catfish	Veronica Alston, Darshika Hettiarachchi, Khoi Vo, Muyassar Abualreesh, Jeremy Gurbatow, Max Bangs, Chia Chen Weng Chen, & Rex A. Dunham
Jenny Koebernick	Crop Soil and Environmental Science	Agriculture	Breeding for reniform nematode resistance in cotton	Gulsah Kaplan, Kathy Lawrence, Jinesh Patel
Leanne Dillard, Sarah Shoup, and Kim Mullenix	Animal Sciences and Crop, Soil, and Environmental Sciences	Agriculture	Nutritive value of baleage from different cool-season annual mixtures	
Rishi Prasad	Crop Soil and Environmental Sciences, Auburn University	Agriculture	Chemical characterization of poultry litter and development of phosphorus extraction methods	Poulomi Dey1, Kristin Chaump2, Brendan Higgins2; 1.Crop Soil and Environmental Sciences, Auburn University 2.Biosystems Engineering, Auburn University
Ruiqing Miao	Department of Agricultural Economics and Rural Sociology	Agriculture	Climate Change Effects on U.S. Agriculture: Distributional Heterogeneity, Technological Adaptability, and Spatial Spillovers	Emir Malikov and Ruiqing Miao- Department of Agricultural Economics and Rural Sociology
Rex Dunham ¹ and Veronica Alston ¹	School of Fisheries, Aquaculture, and Aquatic Sciences	Agriculture	Functional Genomics of Air Breathing in Catfishes	Xiaoli Ma1, Nathan Backenstose1, Yiliu Zhang1, Max Bangs1, Chia Chen Weng Chen1, Dr. Anthony Moss 3 and Dr. Yen Duong 2. 1 School of Fisheries, Aquaculture, and Aquatic Sciences Auburn University; 2 Department of Freshwater Aquaculture at Can Tho University; 3 COSAM
Yifen Wang	Biosystems Engineering	Agriculture	Development of Active Packaging Film Combined with β- Cyclodextrin Inclusion Complex for Chilled Beef	Yichao Ma and Yi Wang
Carla Keyvanian	School of Industrial and Graphic Design	Architecture, Design and Construction	An Architecture of Reason: The Hospital of S. Spirito in 15th-century Rome.	
Danielle Willkens and Richard Burt	School of Architecture, Planning, and Landscape Architecture	Architecture, Design and Construction	"Walking in the Footsteps of History: augmenting archives and creating interactive interpretation through innovative conflict archaeology at Civil Rights sites"	Junshan Liu of BSC, Dr Keith Hebert and Dr David Carter CLA.
II Kim	School of Architecture Planning & Landscape	Architecture, Design and Construction	Kenzo Tange (1913-2005) and his Design of the Yukari Cultural Kindergarten in Tokyo (1967)	
John Pittari	Architecture, Planning and Landscape Architecture	Architecture, Design and Construction	Growing Resilience in Birmingham Framework to Implementation	Alex Krumdieck, Director, Center for Architecture and Urban Studies; Jennifer K. Smith
Mary English	Architecture, Planning and Landscape Architecture	Architecture, Design and Construction	Communicating Complexity through Movement	Andreas Fornemark; Trisha Truong and Aubrey Harrold
Shea Tillman	School of Industrial and Graphic Design; College of Architecture, Design and Construction	Architecture, Design and Construction	Archival research and restoration for the exhibition: 'Visual Memoranda – The IBM Poster Program 1969- 1979'	Robert Finkel - associate professor, AIGA
Ashish Gupta	Department of Systems and Technology	Business	"Using Data Science for Improving Food Quality in Poultry Sector"	Amit Morey and Alireza Farnoush
Kristina Neely	School of Kinesiology	Education	Motor abnormalities in young adults with ADHD	
James Lindner ¹ , Christopher Clemons ² , Bruce Murray ³	Curriculum and Teaching	Education	Spanning the Gap: The Confluence of Agricultural Literacy and Being Agriculturally Literate	Professor, Agriscience Education; 2. Assistant Professor, Agriscience Education and 3. Associate Professor, Reading Education

Vicky Cardullo	Curriculum and Teaching	Education	Preparing Pre-Service Teachers: STEM Alternate Field placement	Megan Burton Math Curriculum and Teaching: Elementary Education Octavia Tripp Science: Curriculum and Teaching: Elementary Education Sara Demoiny Social Studies Curriculum and Teaching: Elementary Education
Adil Bashir	Department of Electrical & Computer Engineering & Auburn University MRI Research Center	Engineering	Combined measurement of skeletal muscle perfusion and T2star with dynamic exercise using MRI	Sultan Zaman and Thomas S. Denney Jr
Bryan Beckingham	Chemical Engineering	Engineering	'Microcapsule-based Self-healing: Adaptation for additive manufacturing processes'	Vinita V. Shinde (CHEN), Shreyas Shelke (PFEN), Asha-dee Celestine (AERO)
Fan Li and Dongye Zhao	Civil Engineering	Engineering	"A High-Capacity and Photoregenerable Composite Material for Efficient Adsorption and Photodegradation of Persistent Organic Pollutants"	
Haodong Ji and Dongye Zhao	Civil Engineering	Engineering	"A new class of carbon-modified indium oxide nanoparticles for adsorption and photodegradation of Perfluorooctanoic acid (PFOA) in water"	
Shuting Tian and Dongye Zhao	Civil Engineering	Engineering	"Removal of perfluorobutanoic acid (PFBA) from water by strong anion exchange resins"	
Elizabeth Lipke	Chemical Engineering	Engineering	"Engineered Tissue Microspheres for Regenerative Medicine and Disease Modeling Applications"	Yuan Tian 1, Ferdous Finklea 1, Wen J. Seeto PhD1, Petra Kerscher PhD 1, Shantanu Pradhan PhD 1, Randolph L. Winter DVM 2, Fred Caldwell DVM, MS 2, Anne A. Wooldridge DVM, MS, PhD 2, 1. Department of Chemical Engineering, Auburn University, Al 36849. Department of Clinical Sciences, Auburn University, Al 36849
Carlos A. Carrero	Chemical Engineering	Engineering	"Developing a new Raman-spectrokinetic approach to gain insights on the structure-reactivity relationship of supported metal oxide catalysts	William Reid Adams, Raj Thakur, and Michael Julin
Maria Auad and Ramsis Farag	Department of Chemical Engineering	Engineering	Center for Polymers and Advance Composites (CPAC): "capabilities and opportunities".	
Mark Schall	Industrial and Systems Engin	Engineering	Operator 4.0: Collaborative Research to Improve Worker Performance and Safety during the 4th Industrial Revolution	David Bevly, Jerry Davis, Sean Gallagher, Rich Sesek, Michael Zabala
Masoud Mahjouri Samani	Electrical and Computer Engineering	Engineering	Laser-Assisted Synthesis, Processing, and Diagnostics of Emerging Nanomaterials and Devices	Nurul Azam, Salah Elafandi, Baha Yakupoglu, Zabihollah Ahmadi
Michael Zabala	Department of Mechanical Engineering	Engineering	"Comparing Two Measures of Knee Valgus Angle."	1Taylor Wright, 1Scott Kennedy, 2Megan Young, 2,3Michael Goodlett - Affiliations: 1. Department of Mechanical Engineering, 2. Auburn University Athletics, 3. Edward Via College of Osteopathic Medicine (VCOM)
Vinamra Agrawal	Aerospace Engineering	Engineering	"Wetumpka impact crater modeling and the role of water"	David King (Geosciences)
Vrishank Raghav Shankare Gowda	Aerospace Engineering	Engineering	Aerodynamic Adaptation Mechanism of Birds to Turbulent Conditions	Mike Wietstruk (Aero Engg), Paul Swiney (Aero Engg), Jamie Bellah (Veterinary Medicine)
Brian Via	Forest Products Developmer	Forestry & Wildlife Sciences	"Creating a Sustainable Future"	Beatriz Vega, Soledad Peresin, SFWS

Maria Soledad Peresin and Jay Ramapuran	Forest Products Development Center, Harrison School of Pharmacy	Forestry & Wildlife Sciences	"Nanocellulose-based materials: renewable solutions to global health challenges"	Beatriz Vega, SFWS Diego Sanchez Osorio, Universidad Pontificia Bolivariana Sarah Zhody, SFWS Ilari Filipponen, CHEN Virginia Davis, CHEN
Sanjiv Kumar	Forestry and Wildlife Services	Forestry & Wildlife Sciences	Potential reemergence of seasonal soil moisture anomalies in North America	Kumar, S. (1), M. Nemwan (2), Y. Wang (3), and B. Levneh (4); 1: Auburn University, 2: CIRES/CU Boulder, and NOAA ESRL, 3: CIRES/CU Boulder, and 4: CU Boulder / CIRES
Sarah Zohdy	School of Forestry and Wildlife Sciences and College of Veterinary Medicine	Forestry & Wildlife Sciences	Distribution of <i>Aedes</i> mosquito vectors and arboviruses in Alabama	Benjamin McKenzie, Dr. Sara Ziska
Susan (Shufen) Pan	International Center for Climate and Global Change Research	Forestry & Wildlife Sciences	The Paris climate targets and food security in Africa	Shufen Pan, Jingting Zhang, Guangsheng Chen and Hanqin Tian,International Center for Climate and Global Change Research , School of Forestry and Wildlife Sciences, Auburn University
Yee Ming Lee	Department of Nutrition, Dietetics, and Hospitality Management	Human Sciences	Calorie Knowledge and Use of Menu Labels in the Restaurants among Consumers in the U.S.	Erol Sozen, MS, Doctoral Candidate, Department of Nutrition, Dietetics, and Hospitality Management
Drew Fruge	Department of Nutrition, Dietetics and Hospitality Managemen	Human Sciences	"Exploring the Effects of a High Chlorophyll Dietary Intervention to Reduce Colon Cancer Risk in Adults: The Meat and Three Greens (M3G) Feasibility Trial"	Kristen Smith, Department of Nutrition, Dietetics and Hospitality Management, Auburn University; Kimberly-Braxton Lloyd, Department of Pharmacy Auburn University of Pharmacy, Auburn University
Geetha Thangiah	Nutrition, Dietetics and Hospitality Management	Human Sciences	Association of salivary amylase (AMY1) gene copy number with obesity in Alabama elementary school children	Chandra Mohan Kurapaty Venkatapoorna, postdoctoral fellow; Maninder Sandey, Assistant Professor, Department of
Young A Lee	Consumer and Design Sciences	Human Sciences	Sustainable Product Design and Development Using Renewable Multi-layered Cellulosic Material as a Leather Alternate	Changhyun Nam, Iowa State University
Dallin Bailey	Communication Disorders	Liberal Arts	Mental Rehearsal and Speech Motor Learning	Marisha Speights Atkins (AU), Christopher Dromey (BYU), Jason Whitfield (BGSU), and Hannah Collins (AU)
Jana F. Gutiérrez Kerns	Department of Foreign Languages and Literature	Liberal Arts	A Case Study in Civic Engagement as a Model for Task- based Language Teaching (TBLT) and Translation Studies (TS): Auburn University and Horseshoe Bend National Military Park	Mr. Eric Frey, Park Ranger, Horseshoe Bend National Military Park
Jennifer L. Robinson	Psychology	Liberal Arts	Neurofunctional topography of the hippocampus	Jessica N. Busler, Ph.D., Meredith Reid, Ph.D., Julio Yanes, Ryan Bird, Jerry Muprhy, Sarah Etherton, Gopi Deshpande, Ph.D.
Marisha Speights	Communication Disorders	Liberal Arts	Automated Segmentation of Child Continuous Speech Samples via Blind Source Extraction	Keith Gilbert, Speech Technology & Applied Research Corp., Lexington, Massachusetts; Joel MacAuslan, Speech Technology & Applied Research Corp., Lexington, Massachusetts; Alexandra Brooks, Auburn University
Melissa Blair	History	Liberal Arts	"I have talked to you not as women but as American citizens": Female Voters and the Gender Ideology of Presidential Campaigns, 1940-1960."	
Michelle Sidler and Rusty Smith	English, Rural Studio	Liberal Arts	Communication is Key: Unlocking Home Affordability & Prosperity in Rural America	
Morris L. Bian	History	Liberal Arts	Transforlution: Reinterpreting Changes in China's Public Economy, 1928-2018	
Nicolas Ziebarth	Economics	Liberal Arts	Firm Networks in the Great Depression	Erik Loualiche (Minnesota), Chris Vickers (Auburn)

Rebecca Retzlaff	Political Science; Architecture, Planning, and Landscape Architecture; and Library	Liberal Arts	An Analysis of the Evolution of City Planning in Alabama and A Public Repository of City Planning Documents	Charlene LeBleu, Landscape Architecture Program; Kasia Leousis, Library of Architecture, Design, and Construction; Tayler Hames, Community Planning Program; Yi Zhu, Landscape Architecture Program; Josh Cameron, GIS Consultant
Ann Lambert	Nursing	Nursing	Promoting Safe Sleep: Outreach to Rural Hospitals in the Black Belt	Ann W . Lambert, CRNP Associate Clinical Professor, School of Nursing Chih-hsuan Wang, PhD Associate Professor, College of Education Margot Fox, MSN, Assistant Clinical Tanya Johnson, MSN Associate Clinical Professor, School of Nursing
Erica D. Kierce	School of Nursing	Nursing	Utilization of the PHQ-9 and Pharmacogenetic Testing in Clinical Practice	Dwan M. Vanderhoef, Vanderbilt University, and Laurie M. Connors, Vanderbilt University
Katilya Ware	Nursing	Nursing	"Assessing Inclusiveness in the Learning Environment."	
Linda Gibson- Young and Libba McMillian	Nursing	Nursing	Effects of a school-based health intervention on a rural elementary school cohort	
Valarie Thomas	School of Nursing	Nursing	Patient Education: Increasing Patients' Understanding of Prescribed Medication Regimen.	
Alexei Kisselev	Drug Discovery and Development	Pharmacy	Targeting different active sites of the proteasome for the treatment of cancer	The Kisselev laboratory
Amal Khalil Kaddoumi and Youssef Mousa	Drug Discovery and Development	Pharmacy	Differential effect of APOE isoforms on amyloid-beta transport across the blood-brain barrier	
C. Edward Chou and Jeanna Sewell	Department of Health Outcomes Research and Policy; , Department of Pharmacy Practice	Pharmacy	The Development and Implementation of a Pharmacist- Led Transitional Care Program for Uninsured Populations	Shelby Means (PharmD student – second year, HSOP)
Chuan Wang, Thamer Alqurashi, Jianzhong Shen	Drug Discovery and Development	Pharmacy	Role of CXCR7 in control of myeloid cell proliferation in vitro and in vivo	Department of Drug Discovery and Development, Harrison School of Pharmacy, Auburn University
Jayachandra Ramapuram	Department of Drug Discovery and Development	Pharmacy	Enhanced Cellular Uptake and Cytotoxicity of Liposome- Encapsulated Daunorubicin in Melanoma (B16BL6) Cancer Cells.	Hamad Alrbyawi, Robert D. Arnold
Suman Majumdar	Harrison School of Pharmacy	Pharmacy	Exploring gene-environment interactions in socio- economically disadvantaged communities in Alabama: epidemiological, genomic, and epigenomic analysis of schizophrenia patients	Suman Majumdar1, Cherry Jackson2,3, Li Chen4, Jingling Qian4, Savan Patell, Sayak Charkvarut1, Timothy Moore1, Amit Kumar Mitra1, 1. Drug Discovery and Development, Harrison School of Pharmacy, Auburn University 2. Pharmacy Practice, Harrison School of Pharmacy, Auburn University 3. Department of Psychiatry and Behavioral Neurobiology, University of Alabama Hospital, Birmingham, Al. 4. Health Outcomes and Research Policy, Harrison School of Pharmacy, Auburn University
Eduardus Duin ^a	Chemistry and Biochemistry	Sciences and Mathematics	"Characterization by ENDOR and Mössbauer spectroscopy of different forms and reaction intermediates detected in (E)-4-Hydroxy-3-methylbut-2- enyl diphosphate reductase (IspH)"	Sebastian Stoian (b), Nicolas S. Lees (c), Weiya Xu (a), Matthew O. Ross (c), Joshua Telser (d), Brian M. Hoffman (c), Evert C. Duin (a); (a) Auburn University, Department of Chemistry and Biochemistry, (b) National High Magnetic Field Laboratory, (c) Northwestern University, Department of Chemistry, (d) Roosevelt University, Biological, Chemica and Physical Sciences.
Elizabeth Hiltbold Schwartz	Biological Sciences	Sciences and Mathematics	Integrative longitudinal analysis of metabolic phenotype and gut microbiota changes during the development of obesity	Higgins, Keah1; Hallowell, Haley1 Woodie, Lauren2; Greene, Michael2 , and Hiltbold Schwartz, Elizabeth1

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Martin Medina and Morgan Hill	Geosciences	Sciences and Mathematics	"A Continuous 100 Thousand-year Stalagmite δ180 Record from the Yucatan Peninsula: Implications for Caribbean Hydroclimate on Orbital and Millennial Timescales"	Stephen Burns - Department of Geosciences, University of Massachusetts Amherst, Armherst, Man David McGeo - Department of Earth, Atmospheric, and Planetary Sciences, Massachusetts institute of Technology, Cambridge, MA Josué Polanco-Martinez - Basque Centre for Climate Change, University of the Basque Country, Bilbao, Spain Matthew DeCesare - Department of Geosciences, Auburn University, Auburn, AL Chun-Yuan Huang - National Talwan University, Taipel, Talwan
Bruce F. Smith	Department of Pathobiology, AURIC and	Veterinary Medicine	Camelid antibodies to block the PD-1/PD-L1 immune axis	Payal Agarwal, Ph.D., Department of Pathobiology, AURIC
Chad D. Foradori	Anatomy, Physiology, and Pharmacology	Veterinary Medicine	Kisspeptin and neuroendocrine regulation of growth hormone release	Brian K. Whitlock2, Jay A. Daniel J. Arthur D. Zimmerman1, Midaniey A. Jones J. Casey C. Zimmerman1, Midaniey A. Jones J. Casey C. Read, Barbara F. Steelel, Jeremy I. Smith4, lain J. Clarke5, Theodore H. Eisasser 6, Duane H. Keisler7, and Sames L. Sarribi. Joparument of Anatomy, Physiology A. Paramacology, Aubuurn University, Auburn, Palamacology, Auburn University, Auburn, Alabama 56849; 2Department of Large Aminal Clinical Sciences, University of Termessee, Knowille, Termessee 37996; Clement M. E. Berrich C. Clement M. E. Gericher, Charles 1996; Clement M. E. Geriches, Charles 1996; Clement M. E. Geriches, Charles 1996; Clement M. E. Geriches, Charles 1996; Clement M. E. Charles 1996; Clement M. E. Charles 1996; Clement M. E. Charles 1996; Clement M. C. Clement M. C. Crawley, Washington 6000, Clarket M. C. Clarket M. C.
James W. Gillespie	Pathobiology	Veterinary Medicine	"Nanophages for Targeted Gene Delivery/Regulation and Vaccine Development"	Tatiana I. Samoylova (Scott-Ritchey Research Center/Pathobiology), Valery A. Petrenko (Pathobiology)
Robert Judd	Anatomy, Physiology, and Pharmacology	Veterinary Medicine	Differential Effects of a High-Fat Diet and Niacin on Adipose Tissue Inflammation and Nonalcoholic Fatty Liver Disease in C57BL/6J and B6129SF2/J Mice	Han Fang, Zhuoyue Li, Emily C. Graff
Rudiger Hauck	Pathobiology and Poultry Science	Veterinary Medicine	Activity of two alternative products against <i>Eimeria</i> spp. in chickens	Madison Hamilton (Auburn University, Departments of Pathobiology and Poultry Science) Brigid Mccrea (Alabama Cooperative Extension System) Kenneth S. Macklin (Auburn University, Department of Poultry Science)
Xu Wang	Pathobiology, College of Veterinary Medicine	Veterinary Medicine	Genome assembly and annotation of parasitoid jewel wasp <i>Nasonia oneida</i> and its Wolbachia endosymbiont	Xiaozhu Wang (Department of Pathobiology, Auburn University) and John H. Werren (Department of Biology, University of Rochester): Xu Wang (Department of Pathobioloy, Auburn University and HudsonAlpha Institute for Biotechnology, Huntsville, AL.)
Vinicia C. Biancardi	Anatomy, Physiology, and Pharmacology	Veterinary Sciences	Angiotensin II and microglia TLR4 crosstalk contributing to neurogenic hypertension	Francesca E. Mowry; Sarah C. Peaden