THIS IS RESEARCH.

FACULTY SYMPOSIUM 2016
A SHOWCASE OF RESEARCH AND CREATIVE SCHOLARSHIP

SYMPOSIUM: SEPTEMBER 16
THE HOTEL AT AUBURN UNIVERSITY AND
DIXON CONFERENCE CENTER
auburn.edu/thisisresearch
#AuburnResearch
Schedule of Events

8:00 a.m.  
Registration  
Executive Offices Foyer

8:00 a.m. – 10:30 a.m.  
Continental Breakfast  
Foyer

8:30 a.m. – 10:00 a.m.  
Lightning Sessions  
(See page 4 for session assignments.)

10:00 a.m. – 11:30 a.m.  
Lightning Sessions  
(See page 4 for session assignments.)

11:30 a.m. – 12:45 p.m.  
Luncheon and Panel  
Ballroom A

12:45 p.m. – 1:00 p.m.  
Welcome  
John M. Mason, Jr., Vice President for Research and Economic Development  
Auditorium

1:00 p.m. – 2:00 p.m.  
Auburn Talks Presentations  
Auditorium  
(See page 4 for list of presentations.)

2:00 p.m. – 3:00 p.m.  
Research EXPO  
Ballroom A  
(See page 5 for list of Offices, Institutes, Centers, and Initiatives.)

2:00 p.m. – 3:00 p.m.  
Integrating Research and Teaching: Transformative Examples  
Diane Boyd, Director of the Biggio Center for the Enhancement of Teaching and Learning  
Terrace Room  
(See page 4 for description.)

3:00 p.m. – 4:30 p.m.  
Auburn Talks Presentations  
Auditorium  
(See page 4 for list of presentations.)

4:30 p.m. – 6:00 p.m.  
Interactive Poster Session  
Ballroom A & B  
(See pages 5-10 for presentations.)

SAVE THE DATE
THIS IS RESEARCH.
STUDENT SYMPOSIUM
APRIL 13, 2017
AWARDS CEREMONY • APRIL 20, 2017
auburn.edu/thisisresearch  
#AuburnResearch
Welcome

Welcome to Auburn University’s 2016 This Is Research Faculty Symposium. From today’s lightning sessions to our series of Auburn Talks featuring a variety of prominent Auburn researchers, a major goal of this event is to foster interdisciplinary engagement and collaboration while showcasing some of our scholars’ finest work. As you visit poster sessions, listen to presentations, and engage in conversation with Auburn researchers, know that we appreciate your participation, and we look forward to more collaborations that will continue to impact our society in great ways.

Thank You To Our Sponsors

Office of the Vice President for Research and Economic Development
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College of Education
Samuel Ginn College of Engineering
School of Forestry and Wildlife Sciences
College of Human Sciences
College of Liberal Arts
School of Nursing
Harrison School of Pharmacy
College of Sciences and Mathematics
College of Veterinary Medicine
Jule Collins Smith Museum of Fine Art
Integrating Research and Teaching: Transformative Examples
Terrace Room

2:00 p.m. – 3:00 p.m.

**Making Sure Your Vote Counts**
Kathleen Hale, professor and M.P.A director, Department of Political Science; College of Liberal Arts

**Signals: How We Communicate About Nearly Everything**
Brian Connelly, professor and Luck eminent scholar, Department of Management; Raymond J. Harbert College of Business

**Improving Healthcare Access Through Pharmacy-based Innovations**
Salisa Westrick, associate professor, Department of Health Outcomes Research and Policy; Harrison School of Pharmacy

**Type 2 Diabetes Self-Management**
Caralise Hunt, assistant professor; School of Nursing

**Conserving Wildlife in a Human Dominated World**
Chris Lepczyk, associate professor; School of Forestry and Wildlife Sciences

**Constraints Led Game Design in Physical Education**
Peter Hastie, professor, School of Kinesiology; College of Education

**4D Imaging**
Brian Thurow, W. Allen and Martha Reed associate professor, Department of Aerospace Engineering; Samuel Ginn College of Engineering

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**Auburn Talks Presentations**

**Auditorium**
(Listed in order of presentation.)

1:00 p.m. – 2:00 p.m.

**Green Side Up - How Turfgrasses Work in Society & Science**
Beth Guertal, professor, Department of Crop, Soil, & Environmental Sciences; College of Agriculture

**The Upside of Sweating It: Protective Responses to Social Stress in Childhood & Adolescence**
Stephen Erath, associate professor and director of graduate programs, Department of Human Development and Family Studies; College of Human Sciences

**Research, Representation, & Recovery: New Uses of 3D Scanning in the Built Environment**
Danielle Willkens, visiting assistant professor, School of Architecture, Planning and Landscape Architecture; and Junshan Liu, associate professor, McWhorter School of Building Science; College of Architecture, Design and Construction

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**Lightning Sessions**

8:30 a.m. – 10:00 a.m.

**Nanoscience**
Meeting Room A

**Neuroscience**
Meeting Room B

**Additive Manufacturing/3D Printing**
Meeting Room C

**Applied Arts and Design**
Meeting Room D

**One Health/Public Health**
Ballroom B Left

**Environmental Sciences/Natural Resources**
Ballroom B Right

10:00 a.m. – 11:30 a.m.

**Occupational Safety and Health Well-Being**
Meeting Room A

**Social Justice**
Meeting Room B

**Fine Arts**
Meeting Room C

**Practical Applications of Digital Technology**
Meeting Room D

**Sustainability**
Terrace III

**Biomedical Discovery/Genetics**
Ballroom B Left

**New Approaches to STEM Education**
Ballroom B Right

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**Complex Plasmas: How the 4th State of Matter Can Represent all Four States of Matter**
Ed Thomas, professor, Department of Physics; College of Sciences and Mathematics

**Gene Therapy for Neurologic Disease**
Doug Martin, professor, Department of Anatomy Physiology and Pharmacology and Scott-Ritchey Research Center; College of Veterinary Medicine

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**Auburn University**

2016

Full Program Details can be found at: cws.auburn.edu/OVPR/pm/thisisresearch/faculty

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THIS IS RESEARCH 2016 • Auburn University • Full Program Details can be found at: cws.auburn.edu/OVPR/pm/thisisresearch/faculty
Research EXPO
Ballroom A
2:00 p.m. – 3:00 p.m.
Undergraduate Research
Sponsored Programs
Proposal Services and Faculty Support
Research Security
External Engagement & Support/AUB Research and Technology Foundation (ARTF)
Research Compliance
Innovation Advancement and Commercialization
AUB University Huntsville Research Center
AUB Research Instrumentation Facility
CLA Lucia Lab
UAV at Airport
AUB Cyber Research Center
AUB University Food Systems Institute (AUFSI)
AUB University Magnetic Resonance Imaging Research Center (AUMIRRC)
Canine Performance Sciences Program
Scott-Ritchey Research Center
NSF Center for Advanced Vehicle and Extreme Environment Electronics (CAVE3)
Center for Bioenergy and Bioproducts
Center for Health Ecology and Equity Research (CHEER)
Center for Environmental Studies at the Urban Rural Interface
Forest Products Development Center
Geospatial Research and Applications Center (GRAC)
AQUACULTURE
1. Alan Wilson
Fisheries, Aquaculture and Aquatic Sciences
Do Toxic Cyanobacterial Blooms Threaten Alabama’s Freshwater Resources?
2. Ken Macklin
Poultry Science
Salmonella Enteritidis Colonization in Broiler Chickens Following an Intratracheal and Subcutaneous Challenge
3. Xing Ping Hu
Entomology and Plant Pathology
Discovery of Constitutional and Inducible Anti-Bacterial Activities Against Infectious Human Pathogens in Termite
4. Terry Hanson
Fisheries, Aquaculture and Aquatic Sciences
Improving Aquaculture’s Value Through Enhanced Nutrient Management
5. Luxin Wang
Animal Sciences
Transmission and Persistence of Salmonella in Animal Production Area
6. Sang-Wook Park
Entomology and Plant Pathology
Cyclophilin 20-3, an Integrative Hub Between Jasmonate and Light Signaling
7. Alana Jacobson
Entomology and Plant Pathology
Population Genetic Structure of Frankliniella fusca
8. Nannan Liu
Entomology and Plant Pathology
A Rhodopsin-Like G-Protein Coupled Receptor in Insecticide Resistance of Mosquitoes, Culex quinquefasciatus
9. Yi Wang
Biosystems Engineering
Enhancement of Sucrose Metabolism through Metabolic Engineering in Solventogenic Clostridia for Improved Biobutanol Production
10. Jasmeet Lamba
Biosystems Engineering
Sediment Fingerprinting to Identify the Sources of In-Stream Sediment in an Urban Watershed
11. David Blersch
Biosystems Engineering
All the World’s a Stage: Engineering Topography with 3D Printing for Designer Periphytic Biofilms
12. Oladiran Fasina
Biosystems Engineering
Preparing Biomass Feedstock for Bioeconomy of the Future

Interactive Poster Session
Ballrooms A and B
4:30 p.m. – 6:00 p.m.
(Additional authors and details can be found at: https://cws.auburn.edu/OVPR/pm/thisisresearch/faculty)
13. Sushil Adhikari  
  Biosystems Engineering  
  Catalytic Upgrading of Bio-oil Produced from Hydrothermal Liquefaction of Algae

ARCHITECTURE, DESIGN AND CONSTRUCTION

1. Salman Azhar  
  McWhorter School of Building Science  
  Low Cost Scanning and Visualization Technologies for Design and Construction

2. Wesley Collins and Lauren Redden  
  McWhorter School of Building Science  
  Development of an Interactive Study Tool for the Architectural Registration Examination

3. Wesley Collins  
  McWhorter School of Building Science  
  Analysis of Change Orders on Large Projects at Auburn University

4. Matthew Hall  
  School of Architecture, Planning and Landscape Architecture  
  Sigurd Lewerentz: Context, Fragments and Influence

5. Charlene LeBleu and Keith Rahn  
  School of Architecture, Planning and Landscape Architecture, McWhorter School of Building Science  
  Mitigating Heat Transfer from Impervious Surfaces to Stormwater Discharge Using Alternative Design Methods and Pavement Types

6. John Pittari  
  School of Architecture, Planning and Landscape Architecture  
  Towards a Connectivity Plan for Downtown Birmingham

BUSINESS

1. Dora Bock  
  Marketing  
  When Small Talk Isn’t So Small: The Impact of Mutual Disclosure on Salesperson Performance

2. Travis Holt  
  Accountancy  
  A Comparative Analysis of Investor and Auditor Materiality Judgments

3. Ashish Gupta  
  Systems & Technology  
  A Novel Analytics Based Approach for Sports Injury Risk Prevention & Management

4. Jitka Hilliard  
  Finance  
  Payday Lenders: The Good and The Bad

5. Rafay Ishfaq  
  Supply Chain Management  
  SKU Classification Scheme for Improving Retail Store Operations

6. Tewhan Hahn  
  Business Administration, Auburn University Montgomery  
  Do IPO Issuers Self-Select into Commercial Bank Underwriters?

7. Ravi Chinta  
  Business Administration, Auburn University Montgomery  
  An Empirical Explanation of Longitudinal Performance Profiles of Firms

8. Don Amoroso  
  Information Systems, Auburn University Montgomery  
  The State of Mobile Device Adoption in Southeast Asian Countries

EDUCATION

1. Michael D. Roberts  
  School of Kinesiology  
  Whey Protein-derived Exosomes Increase Protein Synthesis in C2C12 Myotubes

2. Gretchen Oliver  
  School of Kinesiology  
  Segmental Sequencing of Female Novice Team Handball Athletes

3. Keith Lohse  
  School of Kinesiology  
  Building a Centralized Open-Access Rehabilitation database for Stroke (SCOAR)

4. Joni Lakin  
  Educational Foundations, Leadership and Technology  
  Evaluating the Impact of K-12 Science and Engineering Interventions

5. Sean Forbes  
  Educational Foundations, Leadership and Technology  
  Leveraging Local Crises to Grow Sustainable Community

6. Linda Searby  
  Educational Foundations, Leadership and Technology  
  The Use of Simulations in Leadership Decision Making

7. Christine Schnitcka  
  Curriculum and Teaching  
  Save the Animals! STEM Education for Middle School

ENGINEERING

1. Bryan Chin  
  AU Detection and Food Safety Center - Mechanical Engineering  
  Pathogen Detection by Biomolecular Filtering and Automated Sensor Measurement

2. Allan David  
  Chemical Engineering  
  “Smart” Nanomaterials for Biomedical Applications

3. Joel Hayworth  
  Civil Engineering  
  Endocrine Disrupting Hormones and Steroids in Estuarine Sediments

4. Shiwen Mao  
  Wireless Engineering  
  Deep Learning for Indoor Localization Using Channel State Information
5. Elizabeth Lipke  
Chemical Engineering  
*Fabrication of Cell-laden Hydrogel Microspheres for Human Cardiac Tissue Production and Injectable Therapeutic Cell Delivery*

6. Anthony Skjellum  
Computer Science and Software Engineering  
*The Internet of Things*

7. Wei-Shinn “Jeff” Ku  
Computer Science and Software Engineering  
*Indoor Spatial Query Evaluation and Trajectory Tracking with Bayesian Filtering Techniques*

**FORESTRY AND WILDLIFE SCIENCES**

1. Sarah Zohdy  
*Malaria in Madagascar: Integrative Ecohealth Approaches to Disease Surveillance*

2. Christopher Anderson  
*Changing Wetland Functions Across Human Dominated Landscapes*

3. Robert Gitzen  
*Dig Me Out, Dig Me In: Ecology and Conservation of a Southeast Endemic Mammal*

4. Lori Eckhardt and Brian Via  
*Acoustic Stiffness Characterization of Loblolly Pine (Pinus taeda L.) Families used for Improved Forest Health*

5. Brian Via and Lori Eckhardt  
*Response of Different Mature Loblolly Pine (Pinus taeda L.) Families to Leptographium terebrantis and Grosmannia huntii*

**HUMAN SCIENCES**

1. Di Samek  
Human Development and Family Studies  
*Antisocial Peer Affiliation and Externalizing Disorders in the Transition from Adolescence to Young Adulthood: Selection Versus Socialization Effects*

2. Brian Vaughn  
Human Development and Family Studies  
*Relations Between a Measure of Child Attachment Security and Measures of Social and Cognitive Functioning in Preschool Age Children*

3. Wi-Suk Kwon  
Consumer and Design Sciences  
*A Virtual Pharmacist: Intelligent e-Pharmacy Literacy Aids for Senior Patients*

4. Ben Hinnant  
Human Development and Family Studies  
*Context Effects on Adolescent Risky Decision Making: Neuroimaging Pilot Studies*

5. Veena Chattaraman  
Consumer and Design Sciences  
*Simulating Human Decision-Making through Intelligent Language-Based Aids*

6. Megan Haselschwerdt  
Human Development and Family Studies  
*Family Violence Exposure During Childhood and Adolescence: Young Adults’ Retrospective Experiences*

7. Thomas Fuller-Rowell  
Human Development and Family Studies  
*Racial Disparities in Sleep: The Role of Neighborhood Disadvantage*

8. Thomas Fuller-Rowell  
Human Development and Family Studies  
*Racial Discrimination and Sleep Problems among College Students: A Longitudinal Analysis*

9. Alecia Douglas  
Nutrition, Dietetics, and Hospitality Management  
*Restaurant Menu Nutrition Labelling: Consumer Acceptance of and Readiness to Use Mobile Augmented Reality Applications at the Point of Purchase*

10. Yee Ming Lee  
Nutrition, Dietetics, and Hospitality Management  
*Food Allergy Knowledge and Training in the Restaurants: Managerial Staff Versus Employees*

11. Melanie Duffey  
Consumer and Design Sciences  
*Visual Preference Surveys: A Methodological Recommendation Applying Point Pattern Analysis*

12. Ramesh Jeganathan  
Nutrition, Dietetics, and Hospitality Management  
*High Fat Diet Induces Brain Insulin Resistance and Cognitive Impairment in Mice*

13. Mike Green  
Nutrition, Dietetics, and Hospitality Management  
*The Pathophysiology of the Western Diet Underlies Liver Disease and Colon Cancer*

14. David Martin  
Nutrition, Dietetics, and Hospitality Management  
*The Effect of Fan Identity on Perceptions of Violence: A Study Applying Functional Magnetic Resonance Imaging*

**LIBERAL ARTS**

1. Morris Bian  
History  
*Interpreting Chinese Political Economy: Transformation and Evolution in the Twentieth Century and Beyond*

2. Wendy Gray  
Psychology  
*Adherence to Medication for Attention-Deficit/Hyperactivity Disorder during the Transition to College*

3. Sacha Pence  
Psychology  
*Preferences for Distributed and Accumulated Reinforcer Delivery: Effects of Task Difficulty and Schedule Arrangements*

4. Laura Plexico  
Communication Disorders  
*Resilience, Coping, and Satisfaction of Life in People who Stutter*

5. Mark Wilson  
Caroline Marshall Draughon Center for the Arts & Humanities  
*Dialogues on the Experience of War*
6. Tannista Banerjee  
Economics  
*Consumer Response to Lower Taxes and Subsidy*

7. M. Christopher Newland  
Psychology  
*Epigenetic and Behavioral Influences of Adolescent Methylmercury Exposure in Mice*

8. Kelli R. Thompson  
Psychology  
*Profiles of the Forms and Functions of Aggression and Psychosocial Outcomes in Two Distinct Juvenile Offender Populations*

9. Keith Hebert  
History  
*Drinking the Bitter Dregs of Defeat: Confederate Veterans and Domestic Violence*

10. Rolando Carol  
Auburn University Montgomery  
*Psychology  
Being a Good Witness: Rapport-building’s Effect on Eyewitness Recall*

11. Kimberly Pyszka  
Sociology, Anthropology and Geography, Auburn University Montgomery  
*Digging Our Own History:Archaeological Research into AUM’s Tenant Farming Past*

**NURSING**

1. Libba McMillan  
*Nursing Care of Rural Military Veterans: Building Partnerships Focused on Understanding the Veteran Experience*

2. Mary Peterson  
*ICU Patients Receiving Prolonged Life Sustaining Treatments*

**PHARMACY**

1. C. Randall Clark  
Drug Discovery and Development  
*GC-MS Differentiation of the Six Regioisomeric Dimethoxybenzoyl-1-pentyldioloes Isomeric Cannabinoid Substances*

2. Robert “Rusty” Arnold  
Drug Discovery and Development  
*Effect of Phospholipase A2 Receptor (PLA2R) Expression on Tumorgenesis and Performance of Lipid-Nanomedicines in Prostate Cancer*

3. Dmitriy Minond  
Drug Discovery and Development  
*Discovery of a Selective, Time-dependent Inhibitor of ADAM10 Using an Exosite-binding Glycosylated Substrate*

4. Peter Panizzi  
Drug Discovery and Development  
*Multispectral Opto-Acoustic Tomography and Segmental 360-Degree Bioluminescent Imaging Both Show Potential for the Dynamic Study of Staphylococcal Infections*

5. Jingjing Qian  
Health Outcomes Research and Policy  
*Disclosure of Industry Payments to Prescribers: Industry Payments Might be a Factor Impacting Generic Drug Prescribing*

6. Miranda Reed  
Drug Discovery and Development  
*Peripherally Restricted Viral Challenge Elevates Extracellular Glutamate and Enhances Synaptic Transmission in the Hippocampus*

7. Vishnu Suppiramaniam  
Drug Discovery and Development  
*Enhancing Research Productivity of Harrison School of Pharmacy by Establishing a Center for Translational Neuroscience and Related Disorders*

8. Heather Whitley  
Pharmacy Practice  
*Hemoglobin A1C Screening Outcomes to Identify Undiagnosed Chronic Hyperglycemia in a Family Medicine Clinic*

9. Margaret Williamson  
Pharmacy Practice  
*An Interprofessional Approach to Community Wellness Screenings*

10. Jianzhong Shen  
Drug Discovery and Development  
*Identification of a Biased Agonist for P2Y2 Receptor to Suppress Pro-thrombotic Gene Expression in Human Coronary Artery Endothelial Cells*

11. Jay Babu Ramapuram  
Drug Discovery and Development  
*Co-delivery System of Doxorubicin and Ceramide in a Liposomal System for Cancer Chemotherapy*

**SCIENCES AND MATHEMATICS**

1. Jon Armbruster  
Biological Sciences  
*The Shape of Diversity: Evolution of Body Form and Ecology in Minnows*

2. Anne Gorden  
Chemistry and Biochemistry  
*Actinide Selective Coordination with Imines for Chemosensors and Sensing Materials*

3. Geoffrey Hill  
Biological Sciences  
*The Mitonuclear Compatibility Model of Sexual Selection*

4. Luke Marzen  
Geosciences  
*Identification and Classification of North Alabama’s Geographically Isolated Wetlands Using Geographic Object Based Image Analysis (GeOBIA)*

5. Konrad Patkowski  
Chemistry and Biochemistry  
*Revised Damping Parameters for the D3 Dispersion Correction to Density Functional Theory*

6. Wendy Hood  
Biological Sciences  
*An Empirical Test of Mitochondrial Hormesis*

7. Ayayi Ahyi  
Physics  
*Fabrication and Electrical Characterization of Biomorphic Silicon Carbide*
8. Li Dong  
Geosciences  
The Linkage Between Atmospheric Blocking and Drought in the Southeast US

9. Ming-Kuo Lee  
Geosciences  
Field-Scale Bioremediation of Arsenic-Contaminated Groundwater Using Sulfate Reducing Bacteria

10. Rita Graze  
Biological Sciences  
Sex Differences in Drosophila Somatic Gene Expression: Variation and Regulation by Doublesex

11. Stuart Loch  
Physics  
Extending Auburn Plasma Experiments into the Ultraviolet: Preparation for a Resubmission of a Proposal for a Collaboration on the DIII-D National Fusion Facility

12. Sarit Dhar  
Physics  
Wide Bandgap Semiconductor Science and Technology

13. Eduardus Duin  
Chemistry and Biochemistry  
Mode of Action Uncovered for the Specific Reduction of Methane Emissions from Ruminants by the Small Molecule 3-nitrooxypropanol

14. Holly Ellis  
Chemistry and Biochemistry  
Evolutionary Advantage of a n-helix in a Two-Component FMN Reductase Involved in Bacterial Sulfur Acquisition

15. Mike Fogle  
Physics  
Remote Earth Sensing with CubeSats

16. Sang-jin Suh  
Biological Sciences  
Elucidating the Global Effect of Ribosome Recycling in Pseudomonas aeruginosa

17. Chris Easley  
Chemistry and Biochemistry  
Studying Diabetes using Bioanalytical Chemistry at the Nanoliter Scale

18. Aaron Rashotte  
Biological Sciences  
Cytokinin and Oxidative Stress Tolerance: An Emerging Story in Arabidopsis and Tomato

19. Benedict Okeke  
Biology, Auburn University Montgomery  
Research on Development of a Neutriceutical Composition by Monascus purpureus Secondary Fermentation of Corn Ethanol Co-product

20. Babak Rahbarinia  
Mathematics and Computer Science, Auburn University Montgomery  
An Internet-scale Measurement Study of File Downloads

21. Yi Wang  
Mathematics and Computer Science, Auburn University Montgomery  
Sparse Representation of Non-stationary Signals Using Non-linear Fourier Atoms

22. Luis Cueva-Parra  
Mathematics and Computer Science, Auburn University Montgomery  
Monte Carlo/Collision Based Kinetic Energy Transfer Computer Simulation for Vertical Flow through Non-consolidated Porous Media

23. Randy Russell  
Chemistry, Auburn University Montgomery  
Determining Cloud Albedos at Visible Wavelengths from Surface-Based Measurements of Solar Radiation

24. Chelsea Ward  
Biology, Auburn University Montgomery  
Temperature Effects on the Anuran Immune System

25. Robert Underwood  
Mathematics and Computer Science, Auburn University Montgomery  
Automatic and Regular Sequences

26. Geetha Thangiah  
Chemistry, Auburn University Montgomery  
Overexpression of proNGF in Alzheimer’s Disease Leads to Neuronal Death

VETERINARY MEDICINE

1. Craig Angle  
Canine Performance Sciences  
Detection of Biological Agents Using Detection Dogs

2. Robert Judd  
Anatomy, Physiology and Pharmacology  
Impact of Niacin on Nonalcoholic Steatohepatitis

3. Tatiana Samoylova  
Scott-Ritchey Research Center  
Intradermal Delivery of DNA Vaccines Targeting GnRHR

4. Bruce Smith  
Pathobiology, Scott-Ritchey Research Center, AURIC Oncolytic Adenoviruses for the Treatment of Canine Osteosarcoma

5. Iryna Sorokulova  
Anatomy, Physiology and Pharmacology  
A Prebiotic Supplement Prevents Complications from Heat Stress

6. Vitaly Vodyanoy  
Anatomy, Physiology and Pharmacology  
After Oxidation Zinc Nanoparticles Lose the Ability to Enhance Responses to Odorant

7. Jey Koehler  
Pathobiology  
HypoxamiR Profiles in Three Canine High-grade Glioma Cell Lines

8. Aime Johnson  
Clinical Sciences, Scott-Ritchey Research Center  
Microencapsulation for Enhanced Vaccine Delivery
AUBURN TALKS PRESENTERS

1. Beth Guertal  
   Crop, Soil and Environmental Sciences  
   Talk Title: Green Side Up - How Turfgrasses Work in Society and Science

2. Danielle Willkens and Junshan Liu  
   Architecture/Construction  
   Talk Title: Research, Representation, & Recovery: New Uses of 3D Scanning in the Built Environment

3. Brian Connelly  
   Management  
   Talk Title: Signals: How We Communicate About Nearly Everything

4. Peter Hastie  
   School of Kinesiology  
   Talk Title: Constraints Led Game Design in Physical Education

5. Brian Thurow  
   Aerospace Engineering  
   Talk Title: 4D Imaging

6. Chris Lepczyk  
   Forestry and Wildlife Sciences  
   Talk Title: Conserving Wildlife in a Human Dominated World

7. Stephen Erath  
   Human Development and Family Studies  
   Talk Title: The Upside of Sweating It: Protective Responses to Social Stress in Childhood & Adolescence  
   Poster Title: The Emotional Experience of Conversations in Children with Communication Disorders

8. Kathleen Hale  
   Political Science  
   Talk Title: Making Sure Your Vote Counts

9. Caralise Hunt  
   Nursing  
   Talk Title: Type 2 Diabetes Self-Management

10. Salisa Westrick  
    Health Outcomes Research and Policy  
    Talk Title: Improving Healthcare Access Through Pharmacy-based Innovations  
    Poster Title: Pharmacists’ Role in Assisting Medicare Patients

11. Ed Thomas  
    Physics  
    Talk Title: Complex Plasmas: How the 4th State of Matter Can Represent all Four States of Matter  
    Poster Title: Imposed, Ordered Dust Structures and Other Plasma Features in a Strongly Magnetized Plasma

12. Doug Martin  
    Anatomy Physiology and Pharmacology and Scott-Ritchey Research Center  
    Talk Title: Gene Therapy for Neurologic Disease

THIS IS RESEARCH.  
Steering Committee

Jennifer Kerpelman, Chair  
John Liu  
Matthew Ragland  
Lorraine Wolf  
Art Chappelka  
Sridhar Krishnamurti  
Karen Rogers  
Ellen McManus  
Jonathan Cullum  
Bob Holm  
Melisa Martinez  
Brandon Fincher

Tony Ventimiglia  
Charles Martin  
Leslie Parsons  
Chris Green

ADDITIONAL SUPPORT  
Lori Bugg  
Marc Haon  
Rachel Simpson  
Barb Bondy
AUBURN UNIVERSITY THIS IS RESEARCH 2016

INVITES YOU TO

SHOWCASE
THE WORK OF CREATIVE SCHOLARSHIP

A public exhibition featuring the creative scholarship and work by Auburn University faculty and students in the fields of fine art, performing arts, creative writing, applied design, and other related disciplines.

ADDITIONAL CREATIVE SCHOLARSHIP PROGRAMMING:
September 29, Noon to 1:00 p.m.
“A LITTLE LUNCH MUSIC”
featuring performance and discussion by student vocalist Jin Lee, Department of Music.
Auditorium, Jule Collins Smith Museum of Fine Art
All events are free and open to the public.

View a complete online exhibition of
Showcase: The Work of Creative Scholarship
at aub.ie/ResearchShowcase

FOR MORE INFORMATION, CONTACT:
Jennifer Kerpelman, Professor & Associate Dean for Research, Outreach & Graduate Studies, and Chair, This is Research 2016
Phone: 844-3790
Karen Rogers, Associate Dean for Graduate Studies and Research, and Chair, Creative Scholarship Committee
Phone: 844-4285
Jule Collins Smith Museum of Fine Art
Phone: 844-1484
jcsm.auburn.edu

We gratefully acknowledge, with thanks, the contributions of the Jule Collins Smith Museum of Fine Art and the Department of Music for providing music for the opening reception.

September 17 through October 2, 2016
JULE COLLINS SMITH MUSEUM
OF FINE ART AT AUBURN UNIVERSITY
901 South College Street, Auburn, AL

OPENING RECEPTION:
Thursday, September 22
5:00 – 7:00 p.m.

AUBURN UNIVERSITY
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