Tuesday, April 15, 8:00 a.m.
BALLROOM A

Science

Katelyn Ahern – Undergraduate
Anatomy, Physiology, Pharmacology
Additional Authors: Crisanta Cruz-Espindola, Jacqueline Gimmler, Dawn Booth
Determination of terbinafine in canine plasma and sebum

Basia Bartczak – Undergraduate
Agriculture
Cullars Rotation soil C and N mineralization and microbial biomass

Natassia Buckridge – Undergraduate
Chemistry and Biochemistry
Additional Authors: Stewart Schneller, Wei Ye
Seeking Carbocyclic Nucleoside Antiviral Agents

Lexi Burkard – Undergraduate
Pharmacal Sciences
Additional Authors: Alexis Scheuerman, Angela L. Calderón, Johayra Simithy
Development of a functional assay to detect inhibitors of Plasmodium falciparum glutathione reductase utilizing liquid chromatography-mass spectrometry

Chloe Chaudhury – Undergraduate
Chemical Engineering
Additional Authors: Shantanu Pradhan, Elizabeth Lipke
Development of a Novel Water-in-Oil Fabrication Technique for 3D Culture of Breast Cancer Cells in PEGDA Hydrogel Millibeads

Zachary Donoviel – Undergraduate
Biology
Additional Authors: Aubrey E Sirman and Wendy R Hood
Maternal dietary effects and age at first reproduction in the House mouse

Laryssa Ferrara – Undergraduate
Entomology and Plant Pathology
Additional Authors: Meghan Reid, Esther Ngumbi, and Joseph Kloepfer
Inoculation of Cotton Plants with Plant-Growth Promoting Rhizobacteria Induces Species-Specific Systemic Resistance

Clare Fields – Undergraduate
Microbiology
Additional Authors: Jonathan E. Oliver, Luisa Cruz, Brandon Fairless, Leonardo De La Fuente
Changes in expression of calcium transport genes due to Xylella fastidiosa infection of Nicotiana tabacum

Matthew Goforth – Undergraduate
Physics
Additional Authors: Peter Traverso, Jonathan Pearce, David Maurer, Stuart Loch
Design and implementation of a high-throughput spectrometer and optical collection system for Thomson scattering measurements on the Compact Toroidal Hybrid

Graham Gordon – Undergraduate
Mathematics and Statistics
Power-Conserving Selective-Range Multilateration for Wireless Sensor Network Localization

Christiane Ingram – Undergraduate
Biology, Auburn University at Montgomery
Additional Authors: Sharla Rafferty, Andrew Paulk, Benedict Okeke
Co-production of cellulolytic-xylanolytic-amylolytic enzymes for biofuel production

Erika Krahl – Undergraduate
Biology
Additional Authors: Malorie M. Hayes, David C. Weneke, Carla C. Stout, and Jonathan W. Armbruster
Genetic Structure and Dispersal Potential of Pteronotropis euryzonus (Suttkus, 1955), the Broadstripe Shiner in the tributaries of the Chattahoochee River

Ethan McCurdy – Undergraduate
Chemistry and Biochemistry
Additional Authors: Lauren Barr, Elizabeth Ndonsta, Douglas Goodwin
Evaluating Tryptophan 438 as a Potential Participant in Off-pathway Electron Transfer in KatG

Alysa Moore – Undergraduate
Biological Sciences
Additional Authors: Mark Liles, Malachi Williams, Priscilla Barger, Yonnie Wu
Biochemical and Genetic Characterization of an Unknown Anti-Nematode Compound

Names, Authors, Departments, and Titles of Abstracts are shown as they were submitted by the Primary Author.
Nina Noreika – Undergraduate
Biological Sciences
Additional Authors: Stephen A. Sefick and Jack W. Feminella
Does Disturbance Frequency Affect Macroinvertebrates in Southeastern Plains Streams?

Emily Pipan – Undergraduate
Pharmaceutical Sciences
Additional Authors: Johayra Simithy, Mary Smith, Angela Calderón
On-line LC-MS Based Identification of Inhibitors of the Mycobacterium tuberculosis Shikimate Kinase

Sharla Rafferty – Undergraduate
Biology, Auburn University at Montgomery
Additional Authors: Christiane Ingram, Andrew Paulk, Benedict Okeke
Effects of Metal Ions on Cellulolytic-Xylanolytic Enzymes of a New Trichoderma species and Lignocell

Meghan Reid – Undergraduate
Entomology and Plant Pathology
Additional Authors: Laryssa Ferrara, Esther Ngumbi, and Joseph Kloeppper
Evaluating the Direct Insect Effects of Plant Growth-Promoting Rhizobacteria

Hilary Rizk – Undergraduate
Forestry and Wildlife Sciences
Additional Authors: Molly Staley, Geoffrey Hill
Validating methods for detecting house finch exposure to Mycoplasma gallisepticum

Colson Smith – Undergraduate
Biological Sciences
Additional Authors: Susan A.R. Colvin, Jack W. Feminella
Weight-length relationships of redfin pickerel across seasons and stream types of coastal Alabama.

Katie Teixeira – Undergraduate
Psychology
Additional Authors: Blake A. Hutsell, M. Christopher Newland
Chronic adolescent cocaine exposure disrupts reversal learning and impulsivity in adult mice

Forrest Thompson – Undergraduate
Forestry
Additional Authors: Becky Barlow, John Kush
The Last Straw

Neil Tiwari – Undergraduate
Pharmaceutical Sciences
Additional Authors: Katja Becker, Angela I. Calderón
MS based screening for Plasmodium falciparum thioredoxin reductase (PfTrxR) inhibitors from Malaria Box

Amanda Wallis – Undergraduate
Biology
Additional Authors: Chelsea Ward and Robert Estes
Effect of Amblyomma rotundatum parasitism on Rhinella marina leukocyte counts

Gabby Willhelm – Undergraduate
Animal Sciences
Additional Authors: Staci DeGeer, Christy L. Bratcher
Effects of Lactic Acid and Sodium Metasilicate on Fresh Beef Quality Parameters

Walter Casper IV – Graduate
Chemistry
Additional Authors: Bormotova. T.A.; H. Sun, H.; Blumenthal, R.
Optical Emission Spectroscopic Studies of the Laser Ablation of RDX

Christopher Marlow – Graduate
Geology and Geography
Additional Authors: Ming-Kuo Lee
Characterizing Geological, Geochemical, and Hydrological Properties of Selected Gas Shales in the Black Warrior Basin, Alabama

Daniel Smith – Graduate
Chemistry and Biochemistry
Additional Authors: Konrad Patkowski
Towards an Accurate Description of Methane Physisorption on Carbon Nanotubes

Ni Xiang – Graduate
Entomology and Plant Pathology
Additional Authors: K.S. Lawrence, J.W. Kloeppper, J.A. McInroy
In vitro screening of biological control agents against Soybean Cyst nematode (Heterodera glycines)
Haque Ziaul – Graduate
Geology and Geography
Additional Authors: A. S. M. Woobaidullah, Hasan Ali
Geophysical Field Investigation: Groundwater study at a coal mine in Northwestern Bangladesh

Guanqun Cao – Faculty
Mathematics and Statistics
Spline Estimation of Integral Curves for Diffusion MRI

Yifeng Du – Faculty
Biological Sciences
The Topology and Functions of p62 in Mitochondria

Robert Estes II – Faculty
Biology, Auburn University at Montgomery
Additional Authors: Christopher Davis, Keith Do, Allen Williams
Larvicidal Activity of Callicarpa americana (American beautyberry) Leaf Extracts Against Mosquito Larvae

Ming-Kuo Lee – Faculty
Geology and Geography
Additional Authors: Chris Marlow
A New X-ray Diffraction and Fluorescence Laboratory for Energy and Environmental Research

Yi Liu – Faculty
Forest Products Development Center
Additional Authors: Yuanfeng Pan, Qingzheng Cheng, Thomas J. Robinson, Brian K. Via
Effect of acetone pre-treatment on improving the cross-linking of high substitution bio-oil based epoxy resin

Aaron Rashotte – Faculty
Biological Sciences
Additional Authors: Paul J. Zwack and P. Winston Miller
Identification of function roles for the ungrouped Cytokinin Response Factor, CRF7

Elizabeth Schwartz – Faculty
Animal Sciences
Biological Sciences
Additional Authors: Johnathan Broady, Gregory Gasser, Brian Westbrook, Meredith McCray, Luxin Wang
Growth of Listeria monocytogenes as a biofilm: kinetics, chemical composition, and virulence properties

Goncagul Serdaroglu – Faculty
Chemistry and Biochemistry
Additional Authors: Ortiz Vincent
The Conformational Dependence on Phenobarbitone Molecule’s Reactivity: in Gas phase and Dielectric media

George Cheng – Staff
Forest Products Development Center
Additional Authors: Brian Via
Green cellulosic nanocomposites

Bianca Evans – Staff
Diversity and Multicultural Affairs
Why They Persist: A Case Study of a Summer Bridge Program

Zhiqiang Shi – Staff
Biomass Processing Chemistry and Bioenergy Lab
Additional Authors: MaoBing Tu
characterization of milled wood lignin and ethanol organosolv lignin from woody biomass

Social Sciences and Humanities

Katherine Bottenham – Undergraduate
Psychology
Additional Authors: Jennifer Robinson
Functional connectivity of the human hypothalamus using meta-analytic connectivity modeling

Barbara Bradley – Undergraduate
Art
Samuel F.B. Morse’s The House of Representatives

Sara Geonczy – Undergraduate
Forestry and Wildlife Sciences
Additional Authors: Yaoqi Zhang
Private waste and public costs: Economic analysis of effective policies for municipal solid waste management

Ashley Hill – Undergraduate
Psychology
Additional Authors: Jennifer Robinson
Gender Differences in Working Memory Networks: A BrainMap Meta-Analysis

Names, Authors, Departments, and Titles of Abstracts are shown as they were submitted by the Primary Author.
Summer Myrick and Kelsey Alpeter – Undergraduate
Communication Disorders
Electrical and Computer Engineering
Additional Authors: Sridhar Krishnamurti, Gopikrishna Deshpande
Investigation of neural correlates of time-compressed speech comprehension using auditory fMRI

Kallie Revels – Undergraduate
Management
Additional Authors: Alan G. Walker and C. Brian Flynn
Job Satisfaction as a Mediator of Servant Leadership and Intent to Leave

Shauna Walker – Undergraduate
Human Development and Family Studies
Additional Authors: Allen Sabey, Leah Albers, Leah Williams, and Amy Rauer
So (Un)Healthy Together: Health Habits in Older Couples

Kaitlyn Welling – Undergraduate
Nutrition, Dietetics, and Hospitality Management
Additional Authors: Zizza, CA
What’s in your Backpack? A nutritional assessment of the East Alabama Food

Julia Alyssa White – Undergraduate
Sociology, Anthropology and Social Work
Amassing Evidence: A Study of Body Mass Variation in the Robert J. Terry Skeletal Collection

Steven Boomhower – Graduate
Psychology
Additional Authors: Derek A. Pope, M. Christopher Newland
Chronic exposure to cocaine during adolescence saturates memory in adulthood

Elizabeth Dunaway – Graduate
Psychology
Additional Authors: Martha Escobar
Extended training increases the efficacy of immediate and delayed counterconditioning

Ford Dyke – Graduate
Kinesiology
Additional Authors: Maurice M. Godwin, Paras Goel, Jared Rehm, Jeremy C. Rietschel, Carly A. Hunt, Matthew W. Miller
Advice for the casual athlete’s mind: Brain activity associated with nonexpert golfers’ best puts

Marc Jackson – Graduate
Psychology
Additional Authors: Ana M. Franco-Watkins
Fighting for Self-Control: The Influence of Impulsivity on Unhealthy Habits

Kara Palmer – Graduate
Kinesiology
Additional Authors: J. Megan Irwin, Abigail L. Dennis, Matthew W. Miller, Leah E. Robinson
Children’s perceived competence and measured abilities on cognitive and physical tasks.

Bavani Paneerselvam – Graduate
Psychology
Additional Authors: Aimee Callender
Do you remember better with all-of-the-above option on the multiple choice questions?

Warren Truitt – Graduate
Human Development and Family Studies
The Development of Child/Caregiver Interactions in a Child Care Setting

R. Alexander Sauer – Graduate
Psychology
Additional Authors: Martha Escobar
Renewal of Counterconditioning in a Human Predictive Learning Task

Sang-Eun Byun – Faculty
Consumer and Design Sciences
Additional Authors: Hyejeong Kim, Olivia Johnson, Mary K. Daniels
Small Retailers’ Visual Merchandising Practices: Perceptions, Challenges, and Opportunities

Names, Authors, Departments, and Titles of Abstracts are shown as they were submitted by the Primary Author.
Undergraduate, Graduate, and Faculty

Tuesday, April 15, 8:00 a.m.
BALLROOM A

Sang-Eun Byun – Faculty
Consumer and Design Sciences
Additional Authors: Hyejeong Kim, Carol Centrallo, Whitney Ginder
Developing a Virtual Knowledge Support Network to Promote Local Entrepreneurship

Veena Chattaraman – Faculty
Consumer and Design Sciences
Additional Authors: Wi-Suk Kwon and Juan Gilbert
Locus of Control in Conversational Agent Design: Effects on Older Users’ Online Experience

Nafsaniath Fathema – Staff
Educational Foundation Leadership and Technology
Additional Author: Latryce Cole
Science Education in the Black Belt Region of Alabama: Middle School Perspective

Wi-Suk Kwon – Faculty
Consumer and Design Sciences
Additional Authors: Veena Chattaraman and Yishuang Li
Enhancing Seniors’ e-Pharmacy Literacy through Intelligent Agent Technology

Wi-Suk Kwon – Faculty
Consumer and Design Sciences
Additional Authors: Gopikrishna Deshpande, Sang-Eun Byun, Jeff Katz, Sandra Forsythe, Adam Goodman, Xiao Huang
Buying Motivations: Behavioral and Neural Cross-Validation

Yee Ming Lee – Faculty
Nutrition, Dietetics, and Hospitality Management
Restaurants’ Preparedness for Food Allergies

James Long – Faculty
Accountancy
Additional Authors: Duane Brandon, Tina Loraas, Jennifer Mueller-Phillips, Brian Vansant
Online Instrument Delivery and Participant Recruitment Services: Emerging Opportunities for Behavioral Accounting Research

Christopher McNulty – Faculty
Art
Outside In: Sculpting Space

Amy Ogburn – Faculty
Communication and Dramatic Arts
Additional Authors: Alisha L. Jones, Donna Fitzgerald-DeJean
The effects of self-regulated learning and motivation on academic success in SLPA students

Amy Ogburn – Faculty
Communication and Dramatic Arts
Additional Authors: Alisha L. Jones, Ashley M. Godwin
The treatment efficacy of the Fast ForWord program on language in a child with SLI and APD

Adrienne Wilson – Faculty
Theatre
Harmonic Dissonance

Debra Worthington – Faculty
Communication and Journalism
Additional Authors: David G. Levasseur
To Provide or Not to Provide Course PowerPoint Slides? The Impact of Instructor-Provided Slides upon Student Attendance and Student Performance

Norman Youngblood – Faculty
Communication and Journalism
Digital inclusiveness of health information websites

Names, Authors, Departments, and Titles of Abstracts are shown as they were submitted by the Primary Author.