

Scholars Week Winners Spring 2016

COLLEGE OF BASIC & APPLIED SCIENCES

Undergraduate 1st Place

#375 Chelsea Harmon (Chemistry), Norma Dunlap (Faculty sponsor, Chemistry) *Isolation and Identification of Medicinal Metabolites from Cichorium intybus.*

Undergraduate Tie for 2nd Place

#323 James Dean (Biology), Mustafa Alwan (Chemistry), Rebecca Seipelt-Thiemann (Faculty sponsor, Biology) *Pathogen Detection in Foods by Multiplex Polymerase Chain Reaction.*

#324 Megan Schulz (Chemistry), Robert Miller (Business), McKayla King (Chemistry), Martha Fonseca (Biology), Kayla Cowan (Nursing), Sophia Britt (Chemistry), John Divincenzo (Faculty sponsor, Chemistry) *Pollution Retention Capabilities of Pervious Concrete Augmented with Microbial and Algal Communities.*

#338 Grayson Dubois (Computer Science), Joshua Phillips (Faculty sponsor, Computer Science), *Holographic Reduced Representations for Working Memory Concept Encoding.*

#377 Yvonne Ejorh (Chemistry), Beng Ooi (Faculty sponsor, Chemistry), William Ilsley (Faculty, Chemistry), *Elucidating the Chemisorption Phenomena in SERS Studies via Computational Modeling.*

Undergraduate Tie for 3rd Place

#313 Josie Lyon (Physics and Astronomy), Sarah Cousineau (Faculty sponsor, Oak Ridge National Lab) *Optimizing the Beam Length Pattern to Increase Beam Power for the Spallation Neutron Source.*

#325 Hannah Houle (Biology), Chanell Davis (Biology), Alexis Johnson (Biology), Arol Zague (Biology), Chris Adereti (Biology), Justice Adewumi (Biology), Doha Ahmed (Biology), Mary Botros (Biology), Wesley Kirkland (Biology), Brittanie Miles (Biology), *et al.* Jeff Leblond (Faculty sponsor, Physics and Astronomy) *Distinguishing Between Morphologically Similar Lichens by Sterol Composition.*

#356 David Tyer (Chemistry), Sarah Cousineau (Faculty sponsor, Physics and Astronomy) *Synthesis of Fe Complex with Metal-Ligand Cooperativities.*

Graduate 1st Place

#577 Connor Olson (Biology), Ryan Otter (Faculty sponsor, Biology), *Biodiversity of the Spider Genus Tetragnatha in Riparian Areas of Tennessee.*

Graduate Tie for 2nd Place

#517 Danielle Baghernejad (Mathematical Sciences), Quiang Wu (Faculty sponsor, Mathematical Sciences) *Analysis of MTSU Student Retention Data.*

#553 Ali Ali (Biology), Bam Paneru (Biology), Rafet Al-Tobasei (Computational Science), Timothy Leeds (Non-MTSU University Faculty Collaborator), Brett Kenney (Biology), Mohamed Salem (Faculty sponsor, Biology), *Integrated Analysis of lncRNA and mRNA Expression in Rainbow Trout Families Showing Variation in Muscle Growth and Fillet Quality Traits.*

Graduate 3rd Place

#507 Shannon Smith (Molecular Biosciences), John DuBois (Faculty sponsor, Biology), *Scanning Electron Microscopy Investigation of Fungal Contamination in Vitis aestivalis 'Norton'.*

COLLEGE OF BEHAVIORAL & HEALTH SCIENCES

Undergraduate 1st Place

#352 Miranda Givens (Health and Human Performance), Andrew Owusu (Faculty sponsor, Health and Human Performance), *The Relationship Between Age of Initiation of Cigarettes and Substance Abuse Among Tennessee High School Students.*

Undergraduate 2nd Place

#374 Sana Marie Wilson (Social Work), Kathleen Darby (Faculty sponsor, Social Work), *More Missing: Expanding Content Analysis in Social Work Journals to Include Non-Binary Orientations and Gender Identities.*

Undergraduate 3rd Place

#387 Stacy Edwards (Human Sciences), Lita Clark (Human Sciences), Lisa Sheehan-Smith (Faculty sponsor, Human Sciences), *Evaluating the Acceptance of an Original Layered Taco Recipe to Elementary Students While Adhering to the School Nutrition Guidelines.*

Graduate Tie for 1st Place

#555 Angela Bowman (Health and Human Performance), Andrew Owusu (Faculty sponsor, Health and Human Performance), *Determinants of Adoption of the SHEP Guidelines for Health Services Delivery in Ghanaian Primary and Secondary Schools.*

#552 Sarah Murfree, Graduate student, Health and Human Performance; Norman L. Weatherby, PhD, Faculty, Health and Human Performance; Christopher Dunlap, MD, Program Director, University of Tennessee College of Medicine--Family Medicine Residency Program; Pamela Singer, DO, Faculty,

University of Tennessee College of Medicine--Family Medicine Residency Program; Norman Weatherby (Faculty sponsor, Health and Human Performance), *A Goal-Oriented Evaluation of the Family Medicine Residency Program at the Saint Louise Clinic.*

Graduate Tie for 2nd Place

#522 Megan Wertheimer (Psychology), Glenn Littlepage (Faculty sponsor), Psychology
Mapping Predictors of Team Performance.

#569 Marquinta Harvey (Health and Human Performance), Malondria Hooker (Health and Human Performance), Nicole Leblanc (Political Science), Denise Bates (Faculty sponsor), Health and Human Performance, *The Effect of Grassroots Social Media Organizations on the Syrian Refugee Crisis.*

Graduate 3rd Place

#557 Andrew Hunt (Psychology), Theresa Holcomb (Psychology), Alan Musicant (Faculty sponsor, Psychology), *Passive Acquisition of Misinformation through Social Media Posts and Comments.*

COLLEGE OF BUSINESS

Graduate 1st Place

#547 Pramita Saha (Economics and Finance), William C. McDowell (Faculty sponsor, Management), *Granger Causality Effects on Exchange Rate, Interest Rate and Inflation Rate in U.S.A.*

Graduate 2nd Place

#504 Fady Mansour (Economics and Finance), Joachim Zietz (Faculty sponsor), Economics and Finance, *The Impact of Adolescence Employment on Welfare participation Later in Life.*

Graduate 3rd Place

#539 Soochan Choi (Management), Zhen Li (Faculty sponsor), Management, *A Silver Bullet for Bullwhip Effects: Minimizing Lead-Time.*

Business Plan Competition Winners:

Hunter Marlowe and Phillip Grande, *The Jambourine by Marlowe*

Raphael Dabney, Kedron Hilario, Lindsay Dabney, *Hükd – A Roadside Assistance App*

COLLEGE OF EDUCATION

Undergraduate 1st Place

#330 Calla Sharp (Elementary and Special Education), Emily Tinch (Elementary and Special Education), Jane Lim (Faculty sponsor, Elementary and Special Education). *Creating a Better World for Preschool Children by Listening Globally.*

COLLEGE OF LIBERAL ARTS

Undergraduate 1st Place

#365 Lusha Li (English), Jiaying Du (English), Laura Dubek (Faculty sponsor, English), *The Good Wife?: Pearl S. Buck's Feminist Critique*

Undergraduate 2nd Place

#360 Olivia Thompson (Sociology and Anthropology), Jenna Gray-Hildenbrand (Faculty sponsor, Philosophy), *The Pilgrimage of a Burner: Motivations behind the Global Trek to the Nevada Wasteland.*

Undergraduate 3rd Place

#400 Jessica Howard (English), Laura Dubek (Faculty sponsor, English), *The Autobiographical Impulse in Faulkner and Hemingway.*

Graduate 1st Place

#505 Jessica Brown (Music), Dr. Jamila L. McWhirter (Faculty sponsor, Music), *Pilot Study: A Survey of Middle and High School Choral, Band, and Orchestra Directors Regarding Professional Development of Musicianship Skills For Music Educators*

Graduate 2nd Place

#501 Hillary Yeager (English), Mischa Renfroe (Faculty sponsor, English), *The Angry Audience: Examining Fan Discord and Modern Media.*

Graduate 3rd Place

#542 Heather Scheurer, (History); Katie McClurkin (History); Brenden Martin (Faculty sponsor, History), *Exhibit Creation at Old Stone Fort Archaeological Park.*

COLLEGE OF MEDIA AND ENTERTAINMENT

Undergraduate 1st Place

#321 Amanda Freuler (Journalism), David Carleton (Faculty sponsor, Political Science), *Why Is Poverty More Prevalent in Some North African Countries than Others?*

Graduate 1st Place

#525 Enrique Ferrer (Recording Industry), William Crabtree (Faculty sponsor, Recording Industry), *Creation of a Drum Sample Library.*

Graduate Tie for 2nd Place

#513 Aaron Trimble (Recording Industry), Dan Pfeifer (Faculty sponsor, Recording Industry), *The Art of Soundtrack Design.*

#565 Leah Bailey (Journalism), Jane Marcellus (Faculty sponsor, Journalism), *The Construction of Gender Roles in American Culture during World War II in Norman Rockwell's "Willie Gillis" series.*

Graduate 3rd Place

#520 Jessica Ramsey (Recording Industry), Matt Foglia (Faculty sponsor, Recording Industry), *Broadcasting Live: Sports, News and Music.*