2013 UNIVERSITY EXPOSITION
FRIDAY, APRIL 5

Undergraduate Posters

1. Dahmen, Aaron - Sterols of the Green-Pigmented, Freshwater Raphidophyte, Goniosiphonia sericea, from Scandinavian Lakes
2. Caruso, Anna - Uterine Regeneration in the Postpartum Mare
3. Herlan, Jonathan - Loop Filters as Resonant Elements for Acoustic Metamaterials and Stop Band Structures
4. Campbell, Mackenzie - A Case Study on Gestational Diabetes Mellitus
5. Ruggle, Alissa - Specific Mutation Effects on Encoded Proteins Associated with the MTHFR Gene
6. Ruggle, Alissa - Comparison of Commercial Grade Trypsin in a Standard Mashed Potato Recipe
7. Grant, Stephanie - Acidic Deep Eutectic Solvents in Organic Synthesis
8. White, Adam - Improving Surface Characteristics of Roller Compacted Concrete by Scanned Imagery Analysis
9. Swiggart, Ethan - Differences in Phenotype, Growth, and Maturation Among Five Accessions of Mucuna pruriens (Velveteen) Grown in Middle Tennessee
10. Payne, Amber - The Importance of Registered Dietitians in Lifestyle Interventions for Polycystic Ovary Syndrome
11. Hayes, Caleb - The Prevalence of Latin American Folk Health Practices in Murfreesboro, Tennessee
12. Jones, Rita - Communication Experiences of International Students in the U.S.A.: Comparison Study of Cross-Cultural Adaptation Between European and Asian Students
13. Banach, Adam - Improving the Flavor and Health Benefits of Alcoholic Beverages
14. Gonzalez, Honorio - To Dye For: Synthesis and Characterization of 5-4-(4-Julolidinyl)-2,4-Pentadienal and Derivatives
15. Simon, JoBeth - Analysis of Mississippi River Shell Deposits at Site 40Dv7 on the Cumberland River in Middle Tennessee
17. Daniel, Carlee - Effects of the Pre Workout Supplement Assault on Muscular Fitness, Speed, and Aerobic Endurance
18. Boone, Keith - Price Premiums for Certified Angus Beef
19. Smith, Jamie - Muscular Endurance Outcomes of Solo Versus Partner Exercise; Does Having Another Present Make a Difference?
22. Smith, Elizabeth - Effect of Ankle and Knee Flexibility and Foot Size on Flutter Kick Times of Competitive Youth Swimmers
23. Carrillo, Ellen - Effectiveness of Blood Flow Restriction Training on Muscular Size and Strength of the Latissimus dorsi and Biceps brachii
24. Patel, Shikha - A Facile Route to Highly Triazolated Heteroaromatics
25. Keaser, Joey - Crossing Boundaries along the Cumberland

Performance (In the tent)

Undergraduate Poster Presenters:
- (0-150) Graduate Posters (400-510)

Centers, Institutes, and Programs (900-920)
Faculty Posters (700-720)
Undergraduate and Graduate Multimedia Presentations (200-212 and 600-610)

27. Morehouse, Melissa - Validating Step Count of the Bodymedia Sensewear Armband Pro
28. Rigsby, Lauren - A Comparison of Two Treatment Planning Programs for Lung Cancer Radiation Therapy
29. Gootee, Angela - NMR and UV Solvatochromism in Pentadendylic Dyes with Aromatic Amines and Thiobarbituric Acid Acceptors
30. Hicks, Angela - The Joint Effects of Aromatherapy and Exercise and How It Reduces Anxiety Levels in College Age Individuals
31. Caum, Suzanne - Decoding the Transcriptome of the Rainbow Trout Pineal Gland Using RNA-Seq
32. Harris, Ashlin - RNA-Seq Identifies SNP Genetic Markers and Differential Gene Expression Associated with Increased Muscle Yield in Rainbow Trout
33. Holloway, Brendon - Gender Identity and Attitudes on Campus: Building Bridges and Solving Problems
34. Moore, Joshua - Improving Student Organization Cooperation, Communication, and Collaboration through Better Data Collection: Is TR20 an Answer?
35. Lambert, Amy - Attitudes of Graduates of Tennessee High Schools toward Sex Education in the Public Schools
36. Taylor, Susan - Approaches to Working with Students with Asthma in Tennessee Schools
37. Wilson, Michael - Study on Cultivation and the Public View on Health Care Reform (A Look into the Terms "Obama Care" and "Health Care Bill")
38. Boyer, Andrea - Closing the Prison Trajectories in Tennessee
39. Huddleston, Rebecca - Preventing Teen Pregnancy in Tennessee
40. Devenish, Robert - Vets at MTSU: Assessing Military Veterans’ Civic Engagement as University Students

Complete schedule of events, abstracts, and other information is available at http://www.mtsu.edu/research/scholarsWeek/
Undergraduate Posters (continued)

41. Davis, Aubrey Davis  The Buzz About Honey’s Use in Wound Treatment
42. Murphy, Alexander  A Preservice Secondary Mathematics Teacher’s Model for Scaffolding the Development of Pedagogical Mathematical Metacognition through Reflective Analysis
43. Griggs, Meghan  Why Did I Stay?: Relational Transgressions and Childhood
44. Keith, Ki-In  Fate of Pentobarbital
45. Harrison, Victoria  The Effect of Calf Boost® Milk Replacer Supplement on Dairy Calf Health and Performance
46. Horvath, Joshua  The Impact of Tort Reform on Querries to the National Practitioner Data Bank
47. Reves, Luke  Polarization Characteristics of Io-Related Jupiter 18 MHz Radio Emissions
49. Gassaway, Gabriell  The Effect of Live Competition on Performance and Physiological Characteristics
50. Osborne, Lucas  Why Does America Hate Socialism? A Rhetorical Analysis of American Values and Their Contrast with the Economic System that is Socialism
51. Patel, Mayank  Laboratory-Directed Evolution of a Salt-Tolerant Luciferase for Halobacterium salinarum
52. Dodson, Jordan  A Computational Investigation of the Anomeric Effect
53. Henry, Matt  Effects of Moderate Exercise on Math Testing
54. Holly, Robert  Performance Evaluation of Ultra-High Performance Concrete
55. Love, Anna  A Study of the Gas Phase Reaction Between Chlorine Dioxide and Three Byproducts of Mammalian Putrefaction
56. Harris, Boomer  The Use of Rumen Temperature Boluses to Monitor Dairy Cow Health and Production in a Contos-Bedded Pack Barn
57. Smith, Logan  Detection of Group A Streptococcus by Fluorescently-Labeled Monoclonal Antibody
58. Tyree, Rachel  A Comparative Analysis of Waste Disposal Patterns at the Health, Wellness, and Recreation Center on the Middle Tennessee State University Campus, Murfreesboro, Tennessee
59. Davies, Rachel  Assessing the Baseline Awareness Level of Women in Science Role Models in Tennessee
60. Tithof, Kristen  The Effect of Phage Therapy on Escherichia coli: Potential Use as an Antibiotic Alternative
61. Meeks, Katie  The Effects of Five Hour Energy on Muscular Strength in the Lower Body
62. Vinson, Tabitha  Menswear Merchandising
63. Leach, Jamie  The Effects of Complementary and Alternative Medicine on Pain Management
64. Edgemon, Timothy  Rationalized Script Theory: Intersecting the Theories of Weber, Mead, and Goffman to Define a New Theoretical Framework of Rationalized Scripts
65. Sbenaty, Lema  Effects of Gossypol on Yeast Cell Memiosis
66. Arner, Laura  Examining the Relationship Between Signs and Symptoms of Depression and Suicidal Tendencies Among High School Students in Tennessee
67. Murphy, Robert Daniel  Grating Enhanced Electromagnetic Fields in Photonic Band-Gap Multilayers
68. Jackson, Anna  Acute Bout of Exercise and Testing Performance
69. Courtney, Justice  Effects of Gossypol on Tossiposarum II Binding to DNA
70. Campbell, Kendall  Visual Rhetoric: Road to Redemption
71. Malone, Cody  A Comparison of Single Pilot Efficiency in a Diversión Situation using Electronic and Traditional Aeronautical Publications
72. Gintig, Anne Elizabeth  ICD-10: The Next Y2K for Healthcare?
73. Killburn, Kachina  Advertising Campaign Created by Natural Solutions
74. Hart, Rachel  An Analysis of Regulated Expression in Genes LDL-R and ApoA1 through Alternative Gene Splicing
75. Zelaya, Juan  Managerial Aversion to Vroom’s Expectancy Theory
76. Griffith, John  Jupiter’s Radio Sources Changing over Time
77. Hayden, Mary  Impacts of the Kingston Fly Ash Spill on Tetragnathidae Spiders: A Bioaccumulation Study with Food Web Implications
78. Shrive, Alan  Assessing the Benefits of Leed Gold Certification for an Assisted Living Facility
79. LaBeff, Lauren  Making an Impact for Tennessee Girls in STEM through the Expanding Your Horizons Experience
80. Reinhardt, Davina  Elementary School Nutrition: Development of an Untested Recipe Utilizing Commodity Foods Ingredients
81. Hiller, David  Eye Tracking the Cosmos: Attentional Differences in the Citizen Science Volunteers of the Galaxy Zoo Project
82. Bonior, Daniel  General Relativistic Effects on Orbiting Qubits
83. Hoover, Austin  Kinetic Analysis of Nucleoside Hydrolyase (RHIC) from Escherichia coli
84. Ellis, Jake  Characterization of a Novel Bacterial Organism that is both Free-Living and an Intracellular Parasite
85. Gurung, Kamali  Purification of Uridine Phosphorylase from Beef Liver
86. Sallman, Bryan  Demonstrating Chemical Absorption and Movement in Soils
87. Nguyen,uyen  Nucleoside Metabolizing Enzymes from Alaska Pea
88. Griffin, Stephen  Ecromorphological Analysis of Prehensile Tail Use in Alouatta palliata
89. Patel, Parinda  Purification of Cytidine Metabolizing Enzymes in Corn
90. Villareal, Jon  Identification of Discarcidaries by HPLC Analysis
91. Williams, Alex  False Discovery Rates for Iterative Database Searching
92. Rainer, Tiara  Effects of Acetyl salicylic Acid Treatment on Leukocytes, Corticosterone Levels, and Thermoregulation in Male Fencin Lizards, Sceloporus undulatus
93. Vanderpool, Will  Morpheme Counting: A Task Development Study
94. Kremer, Victoria  The Effects of Maternally Transferred Methylmercury on Leukocyte Differentials in Northern Water Snake (Nerodia sipedon) Neonates
95. Cooper, James  A Laser Trap as a Viscometer
96. Lampley, Michael  Synthesis and Testing of Cyclopropyl Peptidomimetics as Potential BACE Inhibitors
97. Schwartz, Peter  Measuring Photon Bunching of Laser Light
98. Basham, Jacob  Synthesis of Nitrocyclopropyl Peptidomimetics
99. Saha, Anita  Using the Point-of-Zero Charge (PZC) to Optimize the Electrocatlectic Activity of CeO2/ZnO-CNT Composites
100. Morgan, Sarah  Effects of Caffeine on Muscular Endurance and Mental Fatigue in a Maximum Repetition Body Squat Test
101. Brifkani, Mahmud  Islamic Law in International Relations: A Case Study of Iran and the Conflict over Its Nuclear Program
102. Davies, Rachel  Dependence of the Enhancement Factors of Raman Spectroscopic Signals on the Substituents of Aniline and the Analytical Methods
103. Guerrier, Dianne  Capitalizing on Mother Earth: A Marxist Critique of Colonial and Neo-Colonial Haiti
104. Lipscomb, Ashley  Molecular Components of Certain Plant Extracts May Prove Significant in the Treatment or Prevention of Many Diseases
105. Bass, Cynthia  HIV/AIDS Intervention Program for Veterans in the Murfreesboro and Nashville Area
106. Gross, Alexis  Survey of Botanical Extracts to Identify Potential Sources for New Drugs to Treat Acanthamoeba polyphaga
107. Wallace, Kaitlyn  Prefixes, Suffixes, and Comprehension: A Study of Morphology
108. Moton, Brooke  An Examination of the Relationship Between School-Based Violence and Mental Health Outcomes Among Tennessee High School Students
110. Washer, Alicia  Nature Spirit- Rendered Self-Portrait
111. Payne, Amber  School Nutrition Recipe Development and Evaluation: A Small, Informal Study of Middle School Students and Teachers
112. Abshure Hardy, Brittany  Influences of Students’ Behaviors that Influence Their Academics
113. Creavalle, Precious  Social Media Effects on Wedding Dress Purchase Planning
114. Adams, Renee  A Marxist Critical Approach to Colonization of South America

Undergraduate Multimedia

200. Herbert, Naijah  Feminine Empowerment within a Masculine Framework: Strategies Employed by Aztec Women
201. Bottum, Stephanie  Meida: Passion, Rage, and Revenge
203. Murray, Jonathan  Wisdom in Words: One School’s Journey with Vocabulary and Adult English Language Learners
204. Mingle, Tyler  Project Engage
205. Alcorn, Paige  Auntie Name: Live, Live! The Design Process
206. Vasser, Sara  “Bras For A Cause” Creative Community Service Project
207. Harvin, Taylor  Developing a Web-Based Website Management Tool
208. Baker, Dexter  Automating the Beverage Industry
209. Hartsuiker, Phillip  Layered Orchestral Recording Techniques for Contemporary Music
210. Guyes, Eric  InHouse Development of an Educational Gas Turbine Laboratory Module
211. Guyes, Eric  Designing a Motion Analysis Program in MATLAB
212. Wade, Joshua  An Innovative Virtual Reality Driving Environment for Autism Intervention

Performance (in the tent)

030. Bentley, Thomas  Libido
031. Shanks, Trey  August
032. Tallent, Lucas  Choose Your Own Relationship
Learning Structures for English Language Learners and Literacy

Impact of Vocabulary Instruction Methods on Retention and Acquisition in a Foreign Language Classroom

I Like Myself: Assessing the Use of Personal or Impersonal Questions in Written Responses of English as a Foreign Language Students

Developing Autonomous Robots in an Open Environment

Planning and Design Storm Water Prevention Plans

Isolation and Effects of Vaginolysis on Monocytes

Recommended Guidelines for the Interpretation of Mold Spore Air Sample Analytical Results

Running Shoe Technology Revolution

Becoming Reading Detectives: A Pilot Study Considering the Impact of Inferential Comprehension Instruction on Textual Understanding and Knowledge Acquisition

A Survey of Job Hazards within the Aviation Maintenance Profession

Examining the Psychometric Properties of the Ghana Global School-Based Student Health Survey (GSSHS)

Voice and Choice: Critical Response to Relevant Texts

Identifying Hazards and Barriers in a Petroleum Company for Implementing the ISO 18001 Occupational Health and Safety Management System

Synthesis, Characterization and Solar Cell Fabrication of Donor-Acceptor Bulk Heterojunction Polymer Solar Cells

Analyze and Visualize Naive Bayes Classifier on PubMed Citations

Team Performance in Aerospace Simulations

Superconducting Magnetic Energy Storage Systems

Caldecott Winners: Leading or Late in Empowerment Themes?

Does Safety Come at a Price?

How Can Teachers Help to Empower Middle School Girls with Literacy?

How Low Can You Go? Maximizing H2O2 Detection Using Zinc Oxide-Carbon Nanotube Composites

A Qualitative Study of the Summer Youth Science Leadership Internship at the Great Smoky Mountains Institute at Tremont

Reducing Medicare Expenditures: Emergency Medical Services Utilization in Rutherford County, Tennessee

Surface Acoustic Wave Sensors: Technical Aspects

Writing: Empowering Secondary Deaf Students

Motor Theory of Learning

Hip-Hop: A Survey of Traditional Production Practices and the Application of Contemporary Techniques through Long-Distance Collaboration

Checking Out Language: Using Corpus to Look Up Phrasal Verbs in Freshman Composition

Wisdom in Words: One School’s Journey with Vocabulary and Adult ELLs

Adding Instructional Accommodations to Increase Comprehensible Input

Growing with Words: Explicit Vocabulary Instruction with Pre-Kindergarten English Language Learners

Research, Analysis, Production: Electronic Dance Music (EDM)

An Examination of Effective Processes for Guest Outreach in College Ministry

Independent Film Sound on a Microbudget

Creating a Percussive Benchmark: A Study into Classical Percussion’s Most Influential Pieces, Related Reference Recordings, and the Process of Creating Technically Superior Modern Day References

Innovative Undergraduate Research and Development in the Experimental Vehicles Program

Promoting a Safe Clinical Environment through the Use of an Evidence-Based Protocol to Reduce Alarm Fatigue

Making the Rope Process Real: Using Time Cards to Analyze Student Knowledge and Implementation of the Rope Process in the Public Relations and Advertising Campaign Class

Perceptions of Online Courses at MTSU: A Faculty to Student Comparison

Learning to Click: Student Perceptions of Learning with Response Device Technology in College Biology Courses

Modules for Teaching Statistics with Pedagogies Using Active Learning

The Spatial Effects of Rate of Economic Growth: Evidence from Sub-Saharan Africa

Predicting Van Der Waals Interactions Via Topological Analysis of the Laplacian of the Total Electron Density

Mathematics as a Firststep to Success in Stem

The Effectiveness of Microsoft Flight Simulator as a Training Aid for Private Pilot Training and Proficiency

The Roles of Partisanship, Conservative Media Diet and Education in Belief Gaps About President Obama’s Birthplace: A Conditional Process Model

Imagine, A New Beam Line at HFIR, ORNL for Neutron Diffraction Studies on Single-Crystals

R&D Expenditures and Import Competition: Recent Evidence for the U.S.

Cross-Cultural Perceptions of Materialism and Well-Being

Q Method Analysis of Web Design

The Application of Social Presence to Improve Retention in Online Problem-Based Course

Building Materials Research for Associated General Contractors

“We Just Have This One Breastfeeding Brochure” (Sponsored by Enfamil): Exploring Breastfeeding Resources and Agenda-Setting in Pediatricians’ Offices, WIC, LIL and the Community Hospital

Synthesis of Non-Halogenated Phosphorus Flame Retardants for Engineering Resins

Self Sustaining Environmentally Responsible Disaster Relief Shelters for Rapid Deployment to Underdeveloped or Damaged Infrastructure Environments

Waste Water Reclamation from Emergency Response Shelters

MTSU·MSPS Program’s Engineering Management Concentration Preparing Students for the Future

MTSU MSPS Graduate Program’s Geosciences Concentration: Raising the Standards for Future Geologists

Student Government Association: Building Civic Engagement across MTSU’s University Structure

MTSU SMACS Activities 2012-2013: An Unexpected Journey

MTSU Merit Badge University

Adjams Chair of Excellence in Health Care Services/Center for Health and Human Services: Focus on Improving Population Health

MTSU University Honors College

The Forensic Institute for Research and Education (FIRE) Interdisciplinary Major in Organizational Communication

Michael Allen, Dean of Graduate Studies and Vice Provost for Research

Brad Bartel, University Provost

Beverly Boulware, College of Education

Dorothy Craig, College of Education

Peter Cunningham, Associate Dean, Graduate Studies

Richard Farley, College of Behavioral and Health Sciences

Troy Festervand, College of Business

Michael Fleming, College of Mass Communication

Saeed Foroudastan, Dean, College of Basic and Applied Sciences

Andrienne Friedli, College of Basic and Applied Sciences

Will Langston, College of Behavioral and Health Sciences

Wasimuddin Qureshi, Office of Research

Kevin E. Smith, College of Liberal Arts

Nathanael Smith, College of Basic and Applied Sciences

Hilary Stallings, College of Liberal Arts

Jason Vance, Walker Library

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