

# SCHOLARS WEEK

MIDDLE  
TENNESSEE  
STATE UNIVERSITY

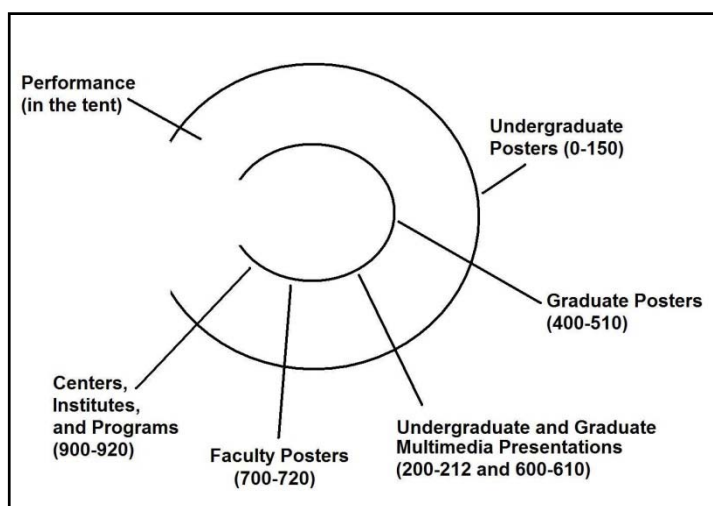
## 2013 UNIVERSITY EXPOSITION

FRIDAY, APRIL 5

Complete schedule of events, abstracts, and other information is available at <http://www.mtsu.edu/research/scholarsWeek/>

### Undergraduate Posters

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|----|----------------------|--|
| 1  | Dahmen, Aaron        | Sterols of the Green-Pigmented, Freshwater Raphidophyte, <i>Gonyostomum semen</i> , 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   |
| 7  | Gregg, Bobbie Marie  | Celeriac is an Acceptable Replacement for Potatoes at 50% in a Standard Mashed Potato Recipe   |
| 8  | Grant, Stephanie     | Acidic Deep Eutectic Solvents in Organic Synthesis   |
| 9  | White, Adam          | Improving Surface Characteristics of Roller Compacted Concrete by Scanned Imagery Analysis   |
| 10 | Swiggart, Ethan      | Differences in Phenotype, Growth, and Maturation Among Five Accessions of <i>Mucuna pruriens</i> (Velvetbean) Grown in Middle Tennessee              |
| 11 | Payne, Amber         | The Importance of Registered Dietitians in Lifestyle Interventions for Polycystic Ovary Syndrome   |
| 12 | Hayes, Caleb         | The Prevalence of Latin American Folk Health Practices in Murfreesboro, Tennessee  |
| 13 | Jones, Rita          | Communication Experiences of International Students in the U.S.A.: Comparison Study of Cross-Cultural Adaptation Between European and Asian Students |
| 14 | Banach, Adam         | Improving the Flavor and Health Benefits of Alcoholic Beverages  |
| 15 | Gonzalez, Honorio    | To Dye For: Synthesis and Characterization of 5-(4-Julolidinyl)-2,4-Pentadienal and Derivatives  |
| 16 | Simon, JoBeth        | Analysis of Mississippian Shell Deposits at Site 40Dv7 on the Cumberland River in Middle Tennessee   |
| 17 | Hazelwood, Cody      | Designing, Building, and Testing a Low-Cost Autonomous Search and Rescue Robot Featuring Smartphone Surveillance and Control                         |
| 18 | Daniel, Carlee       | Effects of the Pre Workout Supplement Assault on Muscular Fitness, Speed, and Aerobic Endurance  |
| 19 | Boone, Keith         | Price Premiums for Certified Angus Beef  |
| 20 | Smith, Jamie         | Muscular Endurance Outcomes of Solo Versus Partner Exercise; Does Having Another Present Make a Difference?  |
| 21 | Moore-Lovitt, Ashlee | Is There a Sensation Seeking Gene? Examining the Relationships Among Family History, the COMT Val158Met SNP, and Sensation Seeking                   |
| 22 | Moore-Lovitt, Ashlee | Perceived Reasons for Self-Injury: Comparing Those Who Self-Injure to Peers  |
| 23 | Smith, Elizabeth     | Effect of Ankle and Knee Flexibility and Foot Size on Flutter Kick Times of Competitive Youth Swimmers   |
| 24 | Carrillo, Ellen      | Effectiveness of Blood Flow Restriction Training on Muscular Size and Strength of the Latissimus dorsi and Biceps brachii                            |
| 25 | Patel, Shikha        | A Facile Route to Highly Triazolated Heteroaromatics   |
| 26 | Keasler, Joey        | Crossing Boundaries along the Cumberland   |



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|----|---------------------|---|
| 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 Pentadienyl Dyes with Aromatic Amine Donors 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 TK20 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  |

## Undergraduate Posters (continued)

41	Davis, Aubrey Davis	The Buzz About Honey's Use in Wound Treatment	86	Sallman, Bryan	Demonstrating Chemical Adsorption and Movement in Soils
42	Murphy, Alexander	A Preservice Secondary Mathematics Teacher's Model for Scaffolding the Development of Pedagogical Mathematical Metacognition through Reflective Analysis	87	Nguyen, Tuyen	Nucleoside Metabolizing Enzymes from Alaska Pea
43	Griggs, Meghan	Why Did I Stay?: Relational Transgressions and Childhood Fate of Pentobarbital	88	Griffin, Stephen	Ecomorphological Analysis of Prehensile Tail Use in <i>Alouatta palliata</i>
44	Keith, Ki-In	The Effect of Calf Boost® Milk Replacer Supplement on Dairy Calf Health and Performance	89	Patel, Parinda	Purification of Cytidine Metabolizing Enzymes in Corn
45	Harrison, Victoria	The Impact of Tort Reform on Queries to the National Practitioner Data Bank	90	Villareal, Jon	Identification of Disaccharides by HPLC Analysis
46	Horvath, Joshua	Polarization Characteristics of Io-Related Jupiter 18 MHz Radio Emissions	91	Williams, Alex	False Discovery Rates for Iterative Database Searching
47	Reves, Luke	Relative Deformability of Red Blood Cells in Sickle Cell Trait and Sickle Cell Anemia by Trapping and Dragging	92	Rainer, Tiara	Effects of Acetylsalicylic Acid Treatment on Leukocytes, Corticosterone Levels, and Thermoregulation in Male Fence Lizards, <i>Sceloporus undulatus</i>
48	Solomon, Rance	The Effect of Live Competition on Performance and Physiological Characteristics	93	Vanderpool, Will	Morpheme Counting: A Task Development Study
49	Gassaway, Gabriell	Why Does America Hate Socialism? A Rhetorical Analysis of American Values and Their Contrast with the Economic System that Is Socialism	94	Kremer, Victoria	The Effects of Maternally Transferred Methylmercury on Leukocyte Differentials in Northern Water Snake ( <i>Nerodia sipedon</i> ) Neonates
50	Osborne, Lucas	Laboratory-Directed Evolution of a Salt-Tolerant Luciferase for <i>Halobacterium salinarum</i>	95	Cooper, James	A Laser Trap as a Viscometer
51	Patel, Mayank	A Computational Investigation of the Anomeric Effect	96	Lampley, Michael	Synthesis and Testing of Cyclopropyl Peptidomimetics as Potential BACE Inhibitors
52	Dodson, Jordan	Effects of Moderate Exercise on Math Testing	97	Schwartz, Peter	Measuring Photon Bunching of Laser Light
53	Henry, Matt	Performance Evaluation of Ultra-High Performance Concrete	98	Basham, Jacob	Synthesis of Nitrocyclopropyl Peptidomimetics
54	Holly, Robert	A Study of the Gas Phase Reaction Between Chlorine Dioxide and Three Byproducts of Mammalian Putrefaction	99	Saha, Anita	Using the Point-of-Zero Charge (PZC) to Optimize the Electrocatalytic Activity of CeO <sub>2</sub> /ZnO-CNT Composites
55	Love, Anna	The Use of Rumen Temperature Boluses to Monitor Dairy Cow Health and Production in a Compost-Bedded Pack Barn	100	Morgan, Sarah	Effects of Caffeine on Muscular Endurance and Mental Fatigue in a Maximum Repetition Body Squat Test
56	Harris, Boomer	Detection of Group A Streptococcus by Fluorescently-Labeled Monoclonal Antibody	101	Brifkani, Mahmud	Islamic Law in International Relations: A Case Study of Iran and the Conflict over Its Nuclear Program
57	Smith, Logan	A Comparative Analysis of Waste Disposal Patterns at the Health, Wellness, and Recreation Center on the Middle Tennessee State University Campus, Murfreesboro, Tennessee	102	Davies, Rachel	Dependence of the Enhancement Factors of Raman Spectroscopic Signals on the Substituents of Aniline and the Analytical Methods
58	Tyree, Rachel	Assessing the Baseline Awareness Level of Women in Science Role Models in Tennessee	103	Guerrier, Dianne	Capitalizing on Mother Earth: A Marxist Critique of Colonial and Neo-Colonial Haiti
59	Davies, Rachel	The Effect of Phage Therapy on <i>Escherichia coli</i> : Potential Use as an Antibiotic Alternative	104	Lipscomb, Ashley	Molecular Components of Certain Plant Extracts May Prove Significant in the Treatment or Prevention of Many Diseases
60	Tithof, Kristen	The Effects of Five Hour Energy on Muscular Strength in the Lower Body	105	Bass, Cynthia	HIV/AIDS Intervention Program for Veterans in the Murfreesboro and Nashville Area
61	Meeks, Kasie	Menswear Merchandising	106	Gross, Alexis	Survey of Botanical Extracts to Identify Potential Sources for New Drugs to Treat <i>Acanthamoeba polyphaga</i>
62	Vinson, Tabitha	The Effects of Complementary and Alternative Medicine on Pain Management	107	Wallace, Kaitlyn	Prefixes, Suffixes, and Comprehension: A Study of Morphology
63	Leach, Jamie	Rationalized Script Theory: Intersecting the Theories of Weber, Mead, and Goffman to Define a New Theoretical Framework of Rationalized Scripts	108	Moton, Brooke	An Examination of the Relationship Between School-Based Violence and Mental Health Outcomes Among Tennessee High School Students
64	Edgemon, Timothy	Effects of Gossypol on Yeast Cell Meiosis	109	Breazeale, Linde	Dynamic Vibration Absorber
65	Sbenaty, Lema	Examining the Relationship Between Signs and Symptoms of Depression and Suicidal Tendencies Among High School Students in Tennessee	110	Washer, Alicia	Nature Spirit- Rendered Self-Portrait
66	Arner, Laura	Grating Enhanced Electromagnetic Fields in Photonic Band-Gap Multilayers	111	Payne, Amber	School Nutrition Recipe Development and Evaluation: A Small, Informal Study of Middle School Students and Teachers
67	Murphy, Robert Daniel	Acute Bout of Exercise and Testing Performance	112	Abshure Hardy, Brittany	Influences of Students' Behaviors that Influence Their Academics
68	Jackson, Anna	Effects of Gossypol on Topoisomerase II Binding to DNA	113	Creavalle, Precious	Social Media Effects on Wedding Dress Purchase Planning
69	Courtney, Justice	Visual Rhetoric: Road to Redemption	114	Adams, Renee	A Marxist Critical Approach to Colonization of South America
70	Campbell, Kendra	A Comparison of Single Pilot Efficiency in a Diversion Situation using Electronic and Traditional Aeronautical Publications			
71	Malone, Cody	ICD-10: The Next Y2K for Healthcare?			
72	Gintzig, Anne Elizabeth	Advertising Campaign Created by Natural Solutions			
73	Killburn, Kachina	An Analysis of Regulated Expression in Genes LDL-R and ApoA1 through Alternative Gene Splicing			
74	Hart, Rachel	Managerial Aversion to Vroom's Expectancy Theory			
75	Zelaya, Juan	Jupiter's Radio Sources Changing over Time			
76	Griffith, John	Impacts of the Kingston Fly Ash Spill on Tetragnathidae Spiders: A Bioaccumulation Study with Food Web Implications			
77	Hayden, Mary	Assessing the Benefits of Lead Gold Certification for an Assisted Living Facility			
78	Shrive, Alan	Making an Impact for Tennessee Girls in STEM through the Expanding Your Horizons Experience			
79	LaBeff, Lauren	Elementary School Nutrition: Development of an Untested Recipe Utilizing Commodity Foods Ingredients			
80	Reinhardt, Davina	Eye Tracking the Cosmos: Attentional Differences in the Citizen Science Volunteers of the Galaxy Zoo Project			
81	Hiller, David	General Relativistic Effects on Orbiting Qubits			
82	Bonior, Daniel	Kinetic Analysis of Nucleoside Hydrolase (RIHC) from <i>Escherichia coli</i>			
83	Hoover, Austin	Characterization of a Novel Bacterial Organism that Is both Free-Living and an Intracellular Parasite			
84	Ellis, Jake	Purification of Uridine Phosphorylase from Beef Liver			
85	Gurung, Kamali				

## Undergraduate Multimedia

200	Herbert, Nailah	Feminine Empowerment within a Masculine Framework: Strategies Employed by Aztec Women
201	Bottum, Stephanie	Medea: Passion, Rage, and Revenge
202	Bornhoft, Brett	A Computational Investigation of the Twelve-Foot Telemaster Utilizing 3-D Modeling and Computational Fluid Dynamics Software Verified by Wind Tunnel Testing
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 Mame: Live, Live, Live! The Design Process
206	Vassar, 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	In-House 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)

300	Bentley, Thomas	Choose Your Own Relationship
301	Shanks, Trey	Libido
302	Tallent, Lukas	August

# Graduate Posters

400 Aldridge, Sarah	Teachers' Perceptions of Their Preparation Based on Their Participation in an Alternative Initial Licensure Program	442 Koju, Vijay	Finite Element Simulation of Surface Plasmon Resonance
401 Guiffre, Meredith	An Integrated Approach to an Intensive Individualized Summer Reading Program	443 Shields, Emily	Evaluating an Embodiment Task
402 Hood, Dana	Development of Scenarios to Be Used in a Future Study of Hostile Attribution Bias Toward Teachers by Aggressive vs. Non-Aggressive Children	444 Khadka, Manoj	Mono- and Digalactosyldiacylglycerol Composition of <i>Vitrella brassicaformis</i> , a Recently Identified, Second Member of the <i>Chromerida</i> : Comparison to <i>Chromera velia</i>
403 Krupla, Kaitlin	Falling through the Cracks: Bias Towards Admission of Children with Problem Behavior into Special Education	445 Gargel, Mauricio	Spatial Hearing and Spatial Listening Theory and Practice of Spatial Audio
404 Brown, Christian	Returns to Post-Incarceration Education for Former Prisoners	446 House, Megan	Evaluation of Extracts Used in Traditional Chinese Medicine for Antiviral Potential Against Herpes Simplex Virus Type 1
405 Michael, Robert	Direct Space Reconstruction of Electron Density	447 Taylor, Rachel	Maladaptive Cognitive and Affective Behaviors Are Related to Self-Talk
406 Wrenn, Whitney	Response To Intervention (RTI) and Its Relationship to School Psychologists' Job Satisfaction	448 Hanson, Brandon	Creating the Multivariable Correlation Coefficient Matrix using Linear Algebra
407 Dodson, Josh	Mono- and Digalactosyldiacylglycerol Composition of the Marenzeller-Producing Diatom, <i>Haslea ostrearia</i> : Comparison to a Selection of Pennate and Centric Diatoms	449 Pasco, Jacob	Occupational Health and Safety: Small Business Safety vs. Corporation Safety
408 Davis, Brett	Effects of 75 Versus 150% Fluid Replacement on Subsequent Morning Hydration Status and 10-Km Running Performance	450 Maiti, Abhradeep	Punishment and Performance: Evidence from India
409 Haley, Joshua	Psychometric Evaluation of the Standardized Assessment of Concussion Items in High School Student-Athletes	451 Colgin, Zane	Stochastic Simulation for Brusselator System
410 Balachandran, Thiruparan	Remote Humidity and Temperature Real-Time Monitoring System for the Study of the After-Ripening Process in Seeds	452 Reale, Nathan	A Modern Course Scheduling System
411 Cooper, Joseph	Faith-Based Aviation: An Ethnographic Study of Missionary Flights International	453 Bhatt, Harish	Comparative Study of Numerical Methods for Solving Multidimensional Non-Linear Reaction-Diffusion Brusselator System
412 Liang, Xiao	Efficient Numerical Methods for Solving Wave Equations	454 Jones, Andrew	College Students' Perceived Stigma and Perception of Counseling
413 Morris, Tracy	Perceptions of Genetically Modified Foods	455 Rionero, Giuseppe	Does Denying Driver's Licenses to Unauthorized Immigrants Affect Traffic Safety?
414 Abed, Dana	Bilingual Education: An Examination of the Effectiveness/Benefits of Bilingual Education	456 Amin, Amin	Energy Dissipation in Rotary Granular Segregation Systems: Experimental Results
415 Traian, Anca	Interpreters/Teachers on Student Performance in ESL Classrooms	457 Ishikawa, Saori	Validation of the Omron HJ-151 Pedometer During Free-Living Physical Activity in Youth
416 Routon, P. Wesley	The Effect of Paid Maternity Leave on Participation in Government Assistance Programs	458 Suttle, Chasity	Analysis of the Rate of Decay and Dispersion of Pentobarbital in Soil
417 Cooper, Jennifer L.	How Did the 'Great Recession' Affect Our Consumption Behavior?	459 Bennett, Aileen	One-Word Attributes: An Examination of GOP Presidential Candidate Attributes and Second-Level Agenda Setting
418 Schrodt, Katie	Defining Moments: An Examination of Using Definition Supported Authentic Texts to Improve Reading Comprehension and Increase Vocabulary Acquisition	460 West, Kristin	How Can Literature Circles Empower Intermediate Elementary Students?
419 Liang, Jingsai	Kindergarten Family Responses to Culturally Relevant Texts	461 Sanders, Emily	Communication Changes in a Simulated Flight Operations Center
420 Gaines, Kaleena	IMSmining: A Software Package for Imaging Mass Spectrometry Processing	462 Fuller, Jamie	How Technology Can Benefit Students and Empower Them in Literacy
421 Xiong, Lu	A New Awakening: Youth Involvement in Bible Study	463 Reece, Joel	Reduce Your Sit and Be More Fit
422 Pridmore, Michael	Incorporating Spatial Information in IMS Data Analysis Using Markov Random Field	464 Whitlatch, Hays	On the Existence of Pure Strategy Nash Equilibria in Two Person Games
423 Robinson, Matthew	Neural Markers of Emotional Processing in Language and Music	465 Nordberg, Eric	Large Ranging Snakes in a Small Nature Preserve: The Seasonal Movement Patterns of Timber Rattlesnakes ( <i>Crotalus horridus</i> ) in Middle Tennessee
424 Robinson, Steven	The Effect of Vinyl Triethoxysilane on Mesoporous Silicate Scaffolds Designed for Bone Growth: An SEM Study	466 Schmuhl, Amber	Sexual Dimorphism in Complete and Fragmentary Navicular Bones
425 Haddix, Peter	Top-Down Linguistic Approach: Does It Help Adult ESL Students Improve English Language Skills?	467 Millikan, Melissa	Working Memory Capacity and Inattentive Blindness in Individuals with and without ADD/ADHD
426 Peralta, Sarah	Dye-Tagged Mesoporous Silicate Thin Films to Test Nonlinear Fluorescence Enhancement	468 Mattison, Emily	Terrestrial Movement and Habitat Use of the Streamside Salamander ( <i>Ambystoma barbouri</i> ) in Middle Tennessee
427 Ford, Mikki	The Correlation Between Eating School Lunch and Adolescent Health Issues	469 Sanders, Jacob	Identifying the Localization of Ubiquitin within Muscle Cells Under Stressful Conditions
428 Ewool, Richard	Do Long-Term Substitute Teachers Have Any Effect on Students' Grades?	470 Kim, Kyungtae	Development and Validation of the Korean Motor Performance Scale (KMPS) for Children with Intellectual Disabilities and Autism Spectrum Disabilities
429 Kurani, Reema	The Application of Explicit Stabilized Numerical Methods on a Mathematical Model for Tumor Angiogenesis in the Cornea	471 Maynard, Karen	RNPEPL1 Expression Decreases in LPS Induced Inflammation
430 Rollyson, Susan	Website Designing Using C# and ASP.net	472 Almogbil, Mogbil	The Study of Vocabulary: Teaching and Learning at English Language Center
431 McNabb, Kayla	Empowering Literacy through Physical Activity	473 Farnsworth, James	Objective Assessment of Function Following Head Injury Using Movement and Activity in Physical Space (MAPS) Scores: A Case Report
432 Yin, Le	Discovering Poe as a Composer: Edgar Allan Poe's "The Philosophy of Composition" and Process Theory	474 Kim, Youngdeok	Latent Class Analysis of Health Risk Behaviors Among U.S. Adolescents
433 Adongo, Jonathan	Excel Visual Basic Applications Project for Medical Cost Trend Analysis	475 Spears, Zack	Computational Modeling and Optimization of Blast Mitigation
434 Laws, Stephanie	Domestic Legal Environment Effects on Venture Capital Investments: Evidence from Africa	476 Endo, Saori	An Examination of Instructional Methods for Teaching Dialogue Parts in Japanese
435 Pudota, Reshma	Empowering Bilingual Students in Reading and Writing	477 Altaleb, Ahmad	Pronunciation Problems Among MTSU Students Who Are Learning Arabic
436 Aderoba, Hilda	Occupancy Wall Street- Rebels or Patriots: Framing Theory in Key Events	478 Delk, Janie	Improvisation in Performance: A Survey of Secondary Choral Music Educators in Tennessee
437 Majumder, Md. Alauddin	Evaluation of Adolescent Sex Education Program Provided by an Agency to the Maury County Middle Schools	479 Stidham, Jessica	Benefits, Drawbacks, and Faculty Perceptions of Custom Textbooks in General Psychology Classes
438 Finnerty, Jessica	The Effects of Housing Tenure on Labor Market Outcomes: Evidence from the U.S.A.	480 Kiri, Jabe	Surface-Bound Dendrimers as Explosives Sensors
439 Finnerty, Jessica	Off the Deep End: Fishing in a Swimming Pool	481 Lowrey, Dannie	Demographics and Perceptions of Tennessee Walking Horse National Celebration Attendees
440 Floyd, Michael	Exercise Dependence: A Sociological Perspective	482 Jones, Zack	Predicting G1 Phase Time Distribution by Computational Modeling of the Bistable Rb-E2F Switch
441 Paneru, Bam	High Throughput Screening of Extracts from Plants Used in Traditional Chinese Medicine Against <i>Trypanosoma brucei</i> Brucei 427	483 Li, Mo	Resource, Power, and Threat: Representation of the English Language in Contemporary Chinese Newspapers
	Transcriptome Reference and Digital Gene Expression Atlas of the Rainbow Trout	484 Potana, Sneha	Synthesis, Purification and FTIR Analysis of C13 Labeled $\alpha$ -Helical Model Peptide (AAAAK)4AAAAK

485 Isom, Ebony	Learning Structures for English Language Learners and Literacy	704 Green, Lisa	Modules for Teaching Statistics with Pedagogies Using Active Learning
486 Truax, Jacob	Impact of Vocabulary Instruction Methods on Retention and Acquisition in a Foreign Language Classroom	705 Fayissa, Bichaka	The Spatial Effects of Rate of Economic Growth: Evidence from Sub-Saharan Africa
487 Renfro, Trevor	I Like Myself: Assessing the Use of Personal or Impersonal Questions in Written Responses of English as a Foreign Language Students	706 Yang, Hui	Predicting Van Der Waals Interactions Via Topological Analysis of the Laplacian of the Total Electron Density
488 Fulford, Marques	Developing Autonomous Robots in an Open Environment	707 Cheatham, Thomas	Mathematics as a Firststep to Success in Stem
489 Willmore, Corey	Planning and Design Storm Water Prevention Plans	708 Beckman, Wendy	The Effectiveness of Microsoft Flight Simulator as a Training Aid for Private Pilot Training and Proficiency
490 Ouellette, Corbett	Isolation and Effects of Vaginolysin on Monocytes	709 Blake, Ken	The Roles of Partisanship, Conservative Media Diet and Education in Belief Gaps About President Obama's Birthplace: A Conditional Process Model
491 Collins, Michael	Recommended Guidelines for the Interpretation of Mold Spore Air Sample Analytical Results	710 Munshi, Parthapratim	Imagine, A New Beam Line at HFIR, ORNL for Neutron Diffraction Studies on Single-Crystals
492 Chemaoui, Festus	Running Shoe Technology Revolution	711 Fayissa, Bichaka	R &D Expenditures and Import Competition: Recent Evidence for the U.S.
493 Thompson, Penny	Becoming Reading Detectives: A Pilot Study Considering the Impact of Inferential Comprehension Instruction on Textual Understanding and Knowledge Acquisition	712 Poirier, Sandra	Cross-Cultural Perceptions of Materialism and Well-Being
494 Wagner, Joshua	A Survey of Job Hazards within the Aviation Maintenance Profession	713 Loubere, Philip	Q Method Analysis of Web Design
495 Sowah, Samuel	Examining the Psychometric Properties of the Ghana Global School-Based Student Health Survey (GSHS)	714 Gore, David	The Application of Social Presence to Improve Retention in Online Problem-Based Course
495 Hasty, Michelle	Voice and Choice: Critical Response to Relevant Texts	715 Gormley, Thomas	Building Materials Research for Associated General Contractors
497 Aras, Selin	Identifying Hazards and Barriers in a Petroleum Company for Implementing the ISO 18001 Occupational Health and Safety Management System	716 Foss, Katherine	"We Just Have This One Breastfeeding Brochure" (Sponsored by Enfamil): Exploring Breastfeeding Resources and Agenda-Setting in Pediatricians' Offices, WIC, LLL and the Community Hospital
498 Alsubhi, Ameen	Synthesis, Characterization and Solar Cell Fabrication of Donor-Acceptor Bulk Heterojunction Polymer Solar Cells	717 Patterson, Dwight	Synthesis of Non-Halogenated Phosphorus Flame Retardants for Engineering Resins
499 Pitigala, Sachintha	Analyze and Visualize Naive Bayes Classifier on PubMed Citations	718 Chelson, Douglas	Self Sustaining Environmentally Responsible Disaster Relief Shelters for Rapid Deployment to Underdeveloped or Damaged Infrastructure Environments
500 Ivakh, Artyom	Team Performance in Aerospace Simulations	719 Chelson, Douglas	Waste Water Reclamation from Emergency Response Shelters
501 Li, Pan	Superconducting Magnetic Energy Storage Systems		
502 FitzPatrick, Erin	Caldecott Winners: Leading or Late in Empowerment Themes?		
503 Ammerman, Andrew	Does Safety Come at a Price?		
504 Haywood, Erin	How Can Teachers Help to Empower Middle School Girls with Literacy?		
505 Devkota, Tuphan	How Low Can You Go? Maximizing H <sub>2</sub> O <sub>2</sub> Detection Using Zinc Oxide-Carbon Nanotube Composites		
506 Tenenbaum, Zena	A Qualitative Study of the Summer Youth Science Leadership Internship at the Great Smoky Mountains Institute at Tremont		
507 Cole, Amanda	Reducing Medicare Expenditures: Emergency Medical Services Utilization in Rutherford County, Tennessee		
508 Dissanayaka, Kapila	Surface Acoustic Wave Sensors: Technical Aspects		
509 Beukema, Krista	Writing: Empowering Secondary Deaf Students		

## Graduate Multimedia

600 Durriseau, Jaymes	Motor Theory of Learning
601 Leigh, Matt	Hip-Hop: A Survey of Traditional Production Practices and the Application of Contemporary Techniques through Long-Distance Collaboration
602 Bryan, Clint	Checking Out Language: Using Corpora to Look Up Phrasal Verbs in Freshman Composition
603 Murray, Jonathan	Wisdom in Words: One School's Journey with Vocabulary and Adult ELLs
604 Cathey, Erin	Adding Instructional Accommodations to Increase Comprehensible Input
605 Ontiveros, Christina	Growing with Words: Explicit Vocabulary Instruction with Pre-Kindergarten English Language Learners
606 Ross, Rick	Research, Analysis, Production: Electronic Dance Music (EDM)
607 Pennington, Keely	An Examination of Effective Processes for Guest Outreach in College Ministry
608 Megill, Miranda	Independent Film Sound on a Microbudget
609 Harmon, Alex	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
610 O'Brien, David	Innovative Undergraduate Research and Development in the Experimental Vehicles Program

## Faculty Posters

700 Meeks, Richard	Promoting a Safe Clinical Environment through the Use of an Evidence- Based Protocol to Reduce Alarm Fatigue
701 Farwell, Tricia	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
702 Graeff, Tim	Perceptions of Online Courses at MTSU: A Faculty to Student Comparison
703 Robertson, Brian	Learning to Click: Student Perceptions of Learning with Response Device Technology in College Biology Courses

900 Thompson, Brigitte	MTSU MSPS Program's Engineering Management Concentration Preparing Students for the Future
901 Thompson, Courtney	MTSU MSPS Graduate Program's Geosciences Concentration: Raising the Standards for Future Geologists
902 Loso, Brandon	Student Government Association: Building Civic Engagement across MTSU's University Structure
903 Donaphon, Bryan	MTSU SMACS Activities 2012-2013: An Unexpected Journey
904 Adamson, Carla	MTSU Merit Badge University
905 Edwards, M. Jo	Adams Chair of Excellence in Health Care Services/Center for Health and Human Services: Focus on Improving Population Health
906 Vile, John	MTSU University Honors College
907 Berryman, Hugh	The Forensic Institute for Research and Education (FIRE)
908 Smith, Sharon	MTSU Interdisciplinary Major in Organizational Communication

## Centers, Institutes, and Programs

### Scholars Week Organizing Committee

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