

SCHOLARS WEEK

MIDDLE
TENNESSEE
STATE UNIVERSITY

2017 UNIVERSITY EXPOSITION

FRIDAY, MARCH 31

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

FACULTY POSTERS

- 100 NICKEL CATALYZED DECARBONYLATION OF AROMATIC ALDEHYDES. Keying Ding, Chemistry
- 101 THE STONES RIVER FAULT ZONE, CENTRAL TENNESSEE: REACTIVATION OF A GRABEN-BOUNDING FAULT. Mark Abolins, Geosciences
- 102 MODULES FOR TEACHING STATISTICS WITH PEDAGOGIES USING ACTIVE LEARNING (MTStatPAL). Lisa Green, Mathematics; Nancy McCormick, Mathematics; Scott McDaniel, University Studies; Ginger Rowell, Mathematics; Jeremy Strayer, Mathematics
- 103 ROLES OF PROOF: ACTIVITIES THAT ARE LASTING. Sarah Bleiler-Baxter, Mathematics and Science Education; Jeffrey Pair, Mathematics and Science Education
- 104 VFR COURSE PLANNING WITH PAPER CHARTS VERSUS ELECTRONIC CHARTS. Tyler Babb, Aerospace
- 105 PROFESSIONAL PILOT COMMERCIAL OFF-THE-SHELF (COTS) EFB USAGE, POLICIES, AND RELIABILITY. Tyler Babb, Aerospace
- 106 USING OPTIMAL CONTROL THEORY TO IDENTIFY NETWORK DYNAMICS THAT FOSTER SYNCHRONY. Rachel Leander, Mathematics; Suzanne Lenhart, Non-MTSU university faculty collaborator, Mathematics; Vladimir Protopopescu, Government agency collaborator, Computational Science
- 107 CHARACTERIZATION OF TILAPIA SKELETAL AND CARDIAC MUSCLE TRANSCRIPTOME AND IDENTIFICATION OF MUSCLE DEGENERATION GENES. Walaal Shaalan, Visiting scholar, Biology; Ali Ali, Biology; Nassr-Allah Abdel-Hameid, Non-MTSU university faculty collaborator, Biology; Sabry El-Serafy, Non-MTSU university faculty collaborator, Biology; Mohamed Salem, Staff, Biology
- 108 MIDDLE TENNESSEE STATE UNIVERSITY ADVANCE: SPOTLIGHT ON CHANGING THE INSTITUTIONAL CULTURE TO IMPROVE THE RECRUITMENT, RETENTION, AND ADVANCEMENT OF WOMEN STEM FACULTY. Judith Iriarte-Gross, Chemistry; Brad Bartel, Sociology and Anthropology; Wandu Ding, Mathematics; Jackie Eller, Sociology and Anthropology; Karen Petersen, Political Science; Michael Hein, Psychology; Gretchen Webber, Sociology and Anthropology

HIGH SCHOOL POSTERS

- 200 THE EFFECTS OF COLORING ON STRESS REDUCTION. Montana Word, Psychology
- 201 ARE SIGHT-READERS MORE IN-TUNE WITH VISUOSPATIAL ABILITY? Sarah Jones, Psychology
- 202 THE TREATMENT OF EMOTIONAL ABUSE USING BIBLIOTHERAPY. Emily Mullins, Psychology; Sophie Falcofsky, Psychology
- 203 THE EFFECTS OF MULTITASKING ON FILTERING OUT INFORMATION IN THE BRAIN. Zoe Trageser, Psychology
- 204 ELEMENTARY SPECIAL EDUCATION: CURRICULUM AND INTEGRATION IDEALS. Samantha White, Psychology
- 205 THE EFFECTS OF HIGH SCHOOL CULTURE ON THE MENTAL HEALTH OF GIFTED STUDENTS. Chase Burton, Psychology

UNDERGRADUATE POSTERS

- 300 DEVELOPMENT OF LIVE CELL REPORTERS OF MACROPHAGE POLARIZATION. Devyn Hayes, Biology
- 301 SCHOOL TO PRISON PIPELINE: APPLYING THE CRITICAL RACE THEORY AND RESTORATIVE JUSTICE MODEL. Kendra Cheek, Social Work
- 302 FADER: AN AUTONOMOUS AND MOBILE FALL DETECTION ROBOT. Christopher Secrest, Engineering Technology
- 303 PRESTIGE AS DEFINED BY PLANTS: EXAMINING THE ROLE OF ARCHAEOBOTANICAL REMAINS IN THE CREATION OF SOCIAL LANDSCAPES AT THE MAYA SITE OF EL PILAR. Jessica O'Neill, Sociology and Anthropology
- 304 DEVELOPMENT OF AUTOMATED IMAGE ANALYSIS TECHNIQUES TO QUANTIFY CHANGES IN CAPSULE SIZE, A MAJOR VIRULENCE FACTOR OF THE PATHOGENIC YEAST, CRYPTOCOCCUS NEOFORMANS. Serenah Smith, Biology; Tiffany Guess, Biology
- 305 A CHILD'S WORLD: A QUALITATIVE STUDY OF THE SOCIAL AND CULTURAL CONSTRUCT OF KINDERGARTEN CHILDREN. Calla Sharp, Elementary and Special Education; Jane Seok Jeng Lim, Elementary and Special Education; DeArris Boyd, Elementary and Special Education
- 306 DETERMINING THE PLAUSIBILITY OF CREATING A CHEAT SHEET FOR BLOOD STAIN ANALYSIS USING BLOOD STAIN

- CIRCUMFERENCE TO THEORETICALLY DETERMINE A PERSONS HEIGHT. Shonda Clanton, Forensic Science
- 307 ANALYZING THE CORRELATION BETWEEN ALLELIC IMBALANCES AND MUSCLE MASS IN RAINBOW TROUT. Jasmine McCroskey, Biology; Ali Ali, Biology
- 308 FIELD PERFORMANCE OF VARIABLE PERVIOUS CONCRETE MIXTURES UNDER FREEZE/THAW CONDITIONS. Darius Johnson, Concrete Industry Management; Cody Martin, Concrete Industry Management; Noah Hawkins, Concrete Industry Management
- 309 CONTEXT-SPECIFIC ACTION LEARNING IN THE WORKING MEMORY TOOLKIT. Joshua Arnold, Computer Science; Joshua Phillips, Computer Science
- 310 THE HELPFUL ROBOTIC ARM: WANT ONE OR NEED ONE? Kevin Neal, Engineering Technology
- 311 COMMON IDEOGRAPHS BETWEEN PRESIDENT REAGAN AND PRESIDENT TRUMP. Connor McDonald, Communication Studies and Organizational Communication
- 312 ANALYSIS OF THECAMOEBIAN ASSEMBLAGES IN FALL CREEK FALLS STATE PARK. Samantha Addis, Geosciences
- 313 PROBLEM SOLVING AS A POTENTIAL MARKERS OF COGNITIVE ABILITY IN ANTEATERS (MYRMECOPHAGIDAE) LIVING AT NASHVILLE ZOO. David Pitchford, Biology; Danielle Brown, Biology
- 314 SYNTHESIS AND LIQUID CRYSTALLINE PROPERTIES OF SELECTED 12-PYRIDINIUM DERIVATIVES OF [*closo*-1-CB₁₁H₁₂]⁻¹ ANION. Kenya King, Chemistry; Beata Lukasik, Visiting scholar, Chemistry; Piotr Kaszynski, Chemistry
- 315 MIDDLE TENNESSEE STATE UNIVERSITY'S LEGACY IN FORENSICS. Katelyn Brooks, Communication Studies and Organizational Communication
- 316 INNOVATION FOR CRITICAL LANGUAGES: CURRICULUM AND MATERIALS DEVELOPMENT FOR JAPANESE LANGUAGE AND CULTURE INSTRUCTION. Rebecca Clippard, Foreign Languages and Literatures
- 317 USING LEE-CARTER MODEL AND MAX FACTOR MODEL TO FORECAST MORTALITY RATE. Zhao Wang, Mathematics; Chuqiao Song, Mathematics
- 318 WHY ARE SOME COUNTRIES HAPPIER THAN OTHERS? Jeffery Slatton, Political Science
- 319 FLOW CONTROL. Salman Rahmani, Aerospace; Marco Hanna, Aerospace; Dalal Jondoul, Aerospace
- 320 DELETION IN WFS1 GENE IS ASSOCIATED WITH MUSCLE TENDERNESS IN RAINBOW TROUT. Robert Lechleiter, Biology
- 321 THE APPLICATION OF CHLORINE DIOXIDE GAS AS A BACTERICIDE AGENT. Roderick Moore, Chemistry; Beng Ooi, Chemistry
- 322 INVESTIGATING THE EFFECT OF PESTICIDES ON SOIL MICROBE CULTURES. Araceli Lopez Alvarez, Chemistry; Alissa Green, Chemistry; Ashleigh Roeser, Chemistry; Emily Best, Chemistry; Taylor Orr, Chemistry; Sequence McCollough, Chemistry
- 323 "BREAKING BAD" FORENSIC ANALYSES: VARIOUS DRAIN CLEANER EFFECTS ON THE ANALYSIS OF MOLECULAR INTEGRITY OF *SUS SCROFA* DNA. Kimberly Warren, Forensic Science
- 324 BEHAVIORAL AND PHYSIOLOGICAL RESPONSES TO SIMULATED PREDATOR INDUCED STRESS IN THE EASTERN BOX TURTLE, *TERRAPENE CAROLINA*. Victoria Lay, Biology
- 325 TEXTILES PRINTING. Andres Martinez Garcia, Human Sciences
- 326 WHY WRITE FANFICTION: A BRIEF ETHNOGRAPHIC SURVEY. Kellye Guinan, Sociology and Anthropology
- 327 BITTERSWEET LEMONADE: HURTSON, BEYONCE, AND THE HATERS. Katherine Clemens, History
- 328 HUMAN HAND GESTURE RECOGNITION, USING THE MICROSOFT KINECT SENSOR. Aldair Nieto, Engineering Technology
- 329 PARALLEL MANIPULATOR ROBOT FOR USE AS AN MTSU INSTRUCTIONAL AID. Aldair Nieto, Engineering Technology; Justin Woods, Physics and Astronomy
- 330 CHILD – RESISTANT PACKAGING REDESIGN. Justin Woods, Physics and Astronomy
- 331 ASSESSMENT OF ANTI HERPES SIMPLEX VIRUS TYPE 1 ACTIVITY IN *BIDENS BITERNATA* AND *MANGIFERA PERCIFORMIS*. Darcy Tabotabo, Biology
- 332 WHY DO SOME LATIN AMERICAN COUNTRIES EXPERIENCE MORE NET MIGRATION THAN OTHERS? Hayim Juarez Del Moral, Political Science
- 333 DIFFERENTIAL GENE EXPRESSION IN *CRYPTOCOCCUS NEOFORMANS*. Muhammad Ali, Biology
- 334 SYNTHESIS OF HIGHLY POLAR PYRIDINIUM LIQUID CRYSTALS DERIVED FROM THE [*closo*-1-CB₁₁H₁₂]⁻¹ ANION. Muhammad Osama Ali, Chemistry; Anas Hajhusein, Chemistry; Beata Lukasik, Visiting scholar, Chemistry; Piotr Kaszynski, Chemistry
- 335 SMART TRAFFIC LIGHT CONTROLLERS. Maryam Sedhom, Engineering Technology
- 336 AUTONOMOUS OBJECT RETRIEVAL ROBOT. Jonathan Bogasky, Engineering Technology; Derek Tilford, Engineering Technology; Bader Alfouzan, Engineering Technology; Essa Ibrahim, Engineering Technology
- 337 GENDER IDENTITY IN ISLAM. Holly Akin, Social Work; Adrianna Brown, Global Studies and Cultural Geography; Chloe Wallace, Psychology
- 338 CHARACTERIZATION AND STRUCTURE-ACTIVITY RELATIONSHIP OF AN ANTIMICROBIAL PEPTOID AGAINST THE FUNGI *CRYPTOCOCCUS NEOFORMANS*. Scott Armstrong, Chemistry; Ashley Corson, Chemistry; Piotr Kaszynski, Chemistry
- 339 MAILBOT: THE AUTONOMOUS MAILBOX TEAM 2. Joe Beck, Engineering Technology; Ayman Yaseen, Engineering Technology; Davis Phoxay, Engineering Technology; Mohannad Aldujaili, Engineering Technology
- 340 MAILBOT: THE AUTONOMOUS MAILBOX. Sarah Gunger, Engineering Technology; Maryam Sedhom, Engineering Technology; Bryan York, Engineering Technology; Daniel Morgan, Engineering Technology
- 341 SELECT ETHNIC ENCLAVES AND THEIR CULTURAL INDICATORS IN NASHVILLE, TENNESSEE: NOLENSVILLE ROAD. Kelsey Massey, Global Studies and Geography
- 342 SCHOOL NUTRITION RECIPE DEVELOPMENT AND EVALUATION: MEATBALL CIABATTA SANDWICHES. Kristen Peterson, Nutrition and Food Science; Kati Pittman, Nutrition and Food Science
- 343 TEXTILES: WEAVING. Melody Barker, Human Sciences
- 344 ROBOTIC ARM MANIPULATOR FOR CLASSROOM AID. Christopher Secret, Engineering Technology; Bradley Hobbs, Engineering Technology
- 345 HOW HOST GENDER EFFECTS THE POLYSACCHARIDE CAPSULE OF *CRYPTOCOCCUS NEOFORMANS*. Pel Doski, Biology
- 346 YEP!!! ALCOHOL MIGHT BE COSTING YOU SLEEP: ALCOHOL ABUSE AND SLEEP DEPRIVATION AMONG HIGH SCHOOL STUDENT IN THE UNITED STATES. Simale Abadula, Health and Human Performance; Andrew Owusu, Health and Human Performance
- 347 EFFECTS OF OXIDATIVE STRESS IN INTESTINES OF *CAENORHABDITIS ELEGANS*. Saraf Chowdhury, Biology
- 348 LOVE, DEATH, AND THE SINGLE STORY. Emily Cothren, English; Jessica Green, Liberal Studies; Lesley Sweeton, English
- 349 EFFECTS OF GALLIUM PROTOPORPHYRIN IX ON ACINETOBACTER BUMANII CATALASE. Kyra Boots, Biology; Brock Arivett, Biology
- 350 WHY DO SOME COUNTRIES IN AFRICA HAVE STRONGER EDUCATION SYSTEMS THAN OTHERS? Brittney Johnson, Political Science
- 351 POLYSACCHARIDE PROFILES IN CALLUS TISSUE OF AMERICAN GINSENG (*PANAX QUINQUEFOLIUS*). Evidence Nwangwa, Chemistry; Rajarshi Ghosh, Chemistry

- 352 ECOCRITICISM: AN ALLEGORICAL INTERPRETATION OF THE ENVIRONMENTALISM MOVEMENT IN *GODZILLA*. Cassidy Johnson, Recording Industry
- 353 RNA-SEQ ANALYSIS OF CLINICAL *CRYPTOCOCCUS NEOFORMANS*: HOST-PATHOGEN INTERACTION IN MALE AND FEMALE HUMAN PATIENTS. Basant Salem, Biology; Erin McClelland, Biology; Rebecca Seipelt-Thiemann, Biology
- 354 NOISE REDUCTION OF UNMANNED AIRCRAFT PROPELLERS BY UTILIZING BARN OWL BIOMIMICRY. Emma Gist, Aerospace
- 355 ACCEPTANCE OF HOMOSEXUALITY ACROSS COUNTRIES AND DEMOGRAPHICS. Madeline Vowell, Political Science
- 356 THE RELATIONSHIP BETWEEN BULLYING, DEPRESSION AND SUICIDAL TENDENCIES AMONG HIGH SCHOOL STUDENTS IN TENNESSEE. Teara Pryor, Health and Human Performance; Haley Greene, Health and Human Performance; Andrew Owusu, Health and Human Performance
- 357 EXAMINING SNF3'S ROLE IN THE VIRULENCE OF *CRYPTOCOCCUS NEOFORMANS*. Prianca Griggs, Biology
- 358 A NONAGGRESSIVE ETHICAL ANALYSIS OF REPARATIONS FOR SLAVERY IN AMERICA. Christopher Cowherd, Political Science
- 359 COMPUTATION AND MODELING OF REGIME-SWITCHING EQUITY-LINKED INSURANCE CONTRACTS. Haocheng Wu, Mathematics; Zhangyao Chen, Mathematics
- 360 VOICE-ACTIVATED ROBOTIC ARM. Meranda Jacobs, Engineering Technology
- 361 A MENTAL HEALTH ISSUE: THE RELATIONSHIP BETWEEN SEXUAL ASSAULT AND MENTAL HEALTH AMONG TENNESSEE HIGH SCHOOL STUDENTS. Haley Greene, Health and Human Performance; Teara Pryor, Health and Human Performance; Andrew Owusu, Health and Human Performance
- 362 FOR COLORED GIRLS WHO HAVE CONSIDERED REVOLUTION: NTOZAKE SHANGE & HAITI. Kieth Cripps, Recording Industry
- 363 3D PRINTING IN FASHION. Levy Eskind, Human Sciences
- 364 EFFECT OF RAPAMYCIN TREATMENT ON CHRONOLOGICAL LIFESPAN OF WILDTYPE AND PUT1 MUTANT BUDDING YEAST. Anas Hajhusein, Chemistry; Madeline McDonald, Biology; Rebecca Seipelt-Thiemann, Biology
- 365 CHARACTERIZING THE INTERACTIONS OF MtbClpC1 AND ATP THROUGH SINGLE TURNOVER KINETIC EXPERIMENTS IN STOPPED FLOW SPECTROPHOTOMETER. Justin Marsee, Chemistry
- 366 WALKING INTO PURPLE: EXAMINING SEXUALITY IN AFRICAN AMERICAN LITERATURE. Alison Trammell, English; Kayla Bartlett, English
- 367 WHY DO MORE PEOPLE USE PUBLIC TRANSPORTATION IN WESTERN EUROPEAN CITIES THAN IN NORTH AMERICAN CITIES? Tess Shelton, Political Science
- 368 LEARNING TO WEAVE. Meghan Routh, Human Sciences
- 369 LATE STRIPPED HO* TRAJECTORIES IN THE SPALLATION NEUTRON SOURCE INJECTION REGION. Josie Lyon, Physics and Astronomy
- 370 MEASURING ENDOGENOUS DNA DAMAGE IN *DAPHNIA* USING THE COMET ASSAY. Laura Warren, Biology; Melissa Pompilius, Biology; Robert Fischer, College of Basic and Applied Sciences
- 371 TOLERANCE OF GAY-STRAIGHT ALLIANCES IN PUBLIC SCHOOLS: LGBT ADOLESCENTS' STRUGGLE FOR SUPPORT AND COEXISTENCE. Robin Stone, Social Work
- 372 WHY DO SOME EUROPEAN COUNTRIES EXPERIENCE MORE TERRORISM THAN OTHERS? Beatriz Marie Dedicataria, Political Science
- 373 PROMOTING GLOBAL UNDERSTANDING: AN IN-DEPTH STUDY OF THE NEO-CLASSICAL FRESCOES LOCATED AT VILLA DI GEGGIANO, SIENA ITALY. Joy Shind, Art
- 374 EFFECTS OF PREDATOR KAIROMONES AND STARVATION ON *TEGULA TRIDENTATA* BEHAVIOR IN A CHILEAN SUBTIDAL ECOSYSTEM. Brooke Fitzwater, Biology
- 375 ANALYSIS OF THE n-³He EXPERIMENT. Patrick Wong, Physics and Astronomy; Robert Mahurin, Physics and Astronomy
- 376 DETERMINING THE PRESENCE OF TRADITIONAL AND ALTERNATIVE FECAL INDICATORS IN MURFREESBORO, TN STORM DRAIN BIOFILMS. Jordan Jatko, Biology; Megan Stallard, Biology; Frank Bailey, Biology
- 377 SCHOOL NUTRITION RECIPE DEVELOPMENT AND EVALUATION. Vida Harp, Nutrition and Food Science; Grace Farone, Nutrition and Food Science
- 378 YOU CAN TAKE IT WITH YOU: HOW TRAVEL TO ISRAEL CONSTRUCTS JEWISH IDENTITY FOR BOTH JEWISH AND NON-JEWISH AMERICANS. Jeffrey LaPorte, Religious Studies
- 379 WHAT DOES BCAT DO IN *CRYPTOCOCCUS NEOFORMANS*? Kathryn Brittain, Biology; Erin McClelland, Biology
- 380 TRANSCRIPTOME ANALYSIS OF CLINICAL *C. NEOFORMANS* STRAINS. Kathryn Brittain, Biology; Erin McClelland, Biology; Rebecca Seipelt-Thiemann, Biology
- 381 LEMONADE: BEYONCÉ'S RECIPE FOR EMPOWERMENT. Caleb Morton, English; Ariel Thompson, English; Alan Dempsey, English
- 382 ASSESSMENT OF GRAZING SNAIL (*TEGULA TRIDENTATA*) BEHAVIOR ON DIFFERENT QUALITIES OF KELP (*LESSONIA TRABECULATA*). Gabrielle Armour, Biology
- 383 PRELIMINARY INVESTIGATION OF JOINTS ALONG THE SOUTH-SOUTHEAST PROJECTION OF THE HARPETH RIVER FAULT ZONE, CENTRAL TENNESSEE. Brielle Paladino, Geosciences
- 384 THE GROWTH OF THE U.S. FEDERAL GOVERNMENT: 1915-2015. Bronwyn Graves, Economics and Finance
- 385 THE FISCHER INDOLE SYNTHESIS. Alex Knight, Chemistry
- 386 TITLE: THE SKIN I'M IN: WHO SAYS BLACK ISN'T BEAUTIFUL? Christina Hankins, English; Desiraye Williams, English; Brianna Hall, English
- 387 A NEW POTENTIAL TREATMENT FOR INFECTION DUE TO *CRYPTOCOCCUS NEOFORMANS*. Trisha Clark, Biology
- 388 ENHANCING CONCRETE PROPERTIES THROUGH THE USE OF MICRO-FIBRILLATED POLYETHYLENE FIBERS. Paul Stringer, Concrete Industry Management
- 389 DON'T SAY A WORD: BLACK WOMEN WRITERS & RAPE. Ameera Noaman, English; Mary Claire Bennett, English
- 390 EXPANDING YOUR HORIZONS FOR MTSU STUDENTS. Temiloluwa Thomas, Chemistry; Rachel Marlin, Chemistry; Abigail Williams, English
- 391 TREAT OR TRICK: DETECTION OF BACTERIA ASSOCIATED WITH FOODBORNE ILLNESS ON PUMPKIN SURFACES. Grace Farone, Nutrition and Food Science; Jorge Hurtado, Nursing; Lindsey Rose, Biology
- 392 URIC ACID SENSING WITH MULTI-WALLED CARBON NANOTUBES MODIFIED WITH ZINC OXIDE NANOPARTICLES AND CYTOCHROME C. Robert Baltz, Chemistry
- 393 TERRORISM IN WESTERN EUROPE. Kerry Keitzman, Political Science
- 394 THE TROUBLE WITH FRIENDSHIP: AN EXAMINATION OF QUEER PORTRAYAL IN CHILDREN'S MEDIA. Alexander Lempin, Communication Studies and Organizational Communication
- 395 THE DOUBLE-EDGED SWORD: A CRITICAL ANALYSIS OF FEMINIST POWER FIGURES. Alexander Lempin, Women's and Gender Studies
- 396 BIOLISTIC TRANSFORMATION OF *ARMILLARIA MELLEA*. Rachel Gingerich, Biology
- 397 SKELETAL ANALYSIS OF SAMBURG SITE (400B6) FOR EVIDENCE OF VIOLENCE AND TROPHY TAKING. Macie Orrand, Sociology and Anthropology; Stephen Jackson, Biology
- 398 EXAMINING THE VALIDITY AND UTILITY OF PILOT SELECTION MECHANISMS AT US REGIONAL AIRLINES. Christopher Bearden, Psychology; Paul Craig, Aerospace; Guy Smith, Non-MTSU

- university faculty collaborator, Aerospace; Elizabeth Bjerke, Non-MTSU university faculty collaborator, Aerospace
- 399 GENE FAMILY VISUALIZATION SERVER. Ethan Willis, Computer Science
- 400 THE BLACKER THE BERRY: BLACK WOMEN, SEX & THE MEDIA. Marteja Bailey, English
- 401 DROUGHTS IN A CHANGING CLIMATE: A REVIEW. Jordyn Hyden, Geosciences; Racha El Kadiri, Geosciences
- 402 WHY DO SOME WESTERN EUROPEAN COUNTRIES HAVE MORE WOMEN IN GOVERNMENT THAN OTHERS? Ashley Hobbs, Political Science
- 403 BIOAVAILABILITY OF ATMOSPHERIC MERCURY IN APPALACHIAN MOUNTAIN STREAMS. Jaylen Sims, Biology; Gale Beaubian, Biology; Connor Olson, Biology; Ryan Otter, Biology
- 404 A PRELIMINARY SENSITIVITY ASSESSMENT COMPARING TWO NEXT GENERATION SEQUENCING LABORATORY WORKFLOWS FOR FORENSIC ANALYSIS. Adriana Swatzell, Forensic Science; Jocelyn Bush, Non-MTSU university faculty collaborator, Forensic Science; Elizabeth Montano, Non-MTSU university faculty collaborator, Biology
- 405 THE EFFECTIVENESS OF CHLORINE DIOXIDE IN INACTIVATING INFLUENZA VIRUS. Mary Gormsen, Biology
- 406 PROCESSING OF MITOCHONDRIAL STRESS SIGNALS BY THE PINK1: PARKIN MITOPHAGY PATHWAY. Wesley Riley, Biology
- 407 INVESTIGATING THE GENDER BIAS OF CRYPTOCOCCOSIS USING DIFFERENTIAL GENE EXPRESSION ANALYSES. Mahmuda Akter, Chemistry; Erin McClelland, Biology; Rebecca Seipelt-Thiemann, Biology
- 408 PALEOHISTOPATHOLOGY AS A USEFUL TOOL IN OSTEOLOGICAL REMAINS. Regan Darnell, Sociology and Anthropology
- 409 ADDRESSING CIVIC ISSUES OF UNPREPAREDNESS FOR NATURAL HAZARDS IN TENNESSEE. Marilyn Kelley, Chemistry; Sam Musili, Political Science
- 410 EVALUATING THE SUSCEPTIBILITY OF THE AROMATIC AMINO ACIDS TO CHLORINE DIOXIDE DEGRADATION. Heather Deal, Chemistry; Beng Ooi, Chemistry
- 411 ALTERNATIVE SPLICING OF FLP-1 MRNA IN RESPONSE TO ENVIRONMENTAL STRESS IN NEMATODES. Jesse Noe, Chemistry; Jackson Gargaro, Biology
- 412 AZAURONES: AN UNEXPLORED SCAFFOLD FOR BIOLOGICAL ACTIVITY. Jesse Noe, Chemistry
- 413 BIOASSAY-GUIDED FRACTIONATION OF ANTIFUNGAL COMPOUNDS FROM PLANT EXTRACT 23B FOR INHIBITION OF CRYPTOCOCCUS NEOFORMANS. Kayla Conner, Biology; Erin McClelland, Biology; Scott Handy, Chemistry
- 414 INVESTIGATION INTO ANTI-HERPES SIMPLEX VIRUS ACTIVITY IN COMPONENTS OF COMMON CHICORY. Csilla Klara Szepe, Biology
- 415 PETROGRAPHIC AND GEOCHEMICAL INVESTIGATION OF MAGMA MIXING AT OLALLIE, PINHEAD AND CLEAR LAKE BUTTES, NORTHERN OREGON CASCADE RANGE.. Emily Cunningham, Geosciences; Tyler Smith, Geosciences; Amanda Corey, Geosciences; Warner Cribb, Geosciences
- 416 HIDDEN DANGERS IN COLOR POWDERS. Robinson Summer, Chemistry
- 417 ROLE OF ARCHIBALD BELCHER IN ESTABLISHING THE TENNESSEE ACADEMY OF SCIENCE (1912–1924). Hunter Hudson, Chemistry
- 418 THE EFFECTS OF ENVIRONMENTAL CUES ON DORMANT EGG PRODUCTION IN AN EXOTIC ZOOPLANKTON. Camille Gilley, Biology; Melissa Pompilius, Biology; Robert Fischer, Biology
- 419 WHAT IS THE BEST FABRIC TO MAINTAIN PROPER ODOR CONTROL FOR ALZHEIMER PATIENTS? Kyndal Cheatham, Human Sciences
- 420 WHY DID SOME COUNTRIES IN ARAB SPRING EXPERIENCE A REGIME CHANGE WHILE OTHERS DID NOT? Victor Sanchez, Political Science
- 421 SYNTHESIS OF A SERIES OF HIGHLY QUADRUPOLEAR LIQUID CRYSTALS. John Lassetter, Chemistry; Beata Lukasik, Visiting scholar, Chemistry; Piotr Kaszynski, Chemistry
- 422 THE MODE EFFECTS IN SMARTPHONE SURVEYS; ANALYSIS USING THE ITEM RESPONSE THEORY (IRT). Jeeun Yi, Psychology
- 423 NOISE REDUCTION OF UNMANNED AIRCRAFT PROPELLERS BY UTILIZING BARN OWL BIOMIMICRY. Braxton Harter, Aerospace
- 424 UPPER EXTREMITY ECCENTRIC RESISTANCE TRAINING POSTPARTUM AND INCOMPLETE SPINAL CORD INJURY. Corey Gray, Health and Human Performance; Whitley Stone, Health and Human Performance
- 425 GERBER TECHNOLOGY RESEARCH. Chelby Price, Human Sciences
- 426 EFFECT OF OVERDOSE DRUGS ON THE HUMAN POSTMORTEM MICROBIOME. Emily Brackett, Forensic Science; Gulnaz Javan, Non-MTSU university faculty collaborator, Forensic Science; Frank Bailey, Biology
- 427 THE ENEMY OF MY ENEMY IS MY LOVER. John Dangerfield, English
- 428 INTERPRETING SEMANTICS FROM NATURAL LANGUAGE VIA SYNONYMIC KEYWORDS. Sam Remedios, Computer Science; Alec Frey, Computer Science; Taylor Harvin, Computer Science; Ryan Florida, Computer Science

GRADUATE POSTERS

- 500 RUNTIME VERIFICATION OF A STATE DIAGRAM FOR ROBOTICS. Taylor Harvin, Computer Science
- 501 PLASMA AND MUSCLE AMINO ACID CONCENTRATIONS IN INSULIN RESISTANT COMPARED TO NORMAL HORSES IN THE FED AND FASTED STATE. Erica Macon, Agribusiness and Agriscience; Rhonda Hoffman, Agribusiness and Agriscience; Patty Graham-Thiers, Agribusiness and Agriscience
- 502 A GREENER APPROACH TO ONE-POT COPPER-CATALYZED AZIDE-ALKYNE CYCLOADDITION (CuAAC) REACTION OF ARYL BROMIDES IN A DEEP EUTECTIC SOLVENT. Arjun Kafle, Molecular Biosciences; Scott Handy, Chemistry
- 503 MUSIC PRODUCTION IN THE STYLE OF DR. DRE: A STUDY IN AUTEUR PRODUCTION TECHNIQUES (1998-2001). Sam Mentzer, Recording Industry
- 504 THE SECURITY AND EFFECTIVENESS OF MOBILE PAYMENT APPLICATIONS. Dee Xiong, Engineering Technology
- 505 THE FORCING RESONANT POLYNOMIALS OF CATA-CONDENSED BENZENOID SYSTEMS. Xi Chen, Computational Science; Dong Ye, Mathematics; XiaoYa Zha, Mathematics
- 506 USING AN EXPLICIT-REFLECTIVE EXEMPLAR STRATEGY IN A BIOLOGY COURSE TO DEVELOP PRE-SERVICE ELEMENTARY TEACHERS' UNDERSTANDINGS OF NATURE OF SCIENCE AND SCIENTIFIC INQUIRY. Jennifer Parrish, Mathematics and Science Education
- 507 ADOPTION AND IMPLEMENTATION OF WATER, HYGIENE, AND SANITATION POLICY GUIDELINES AMONG PRIMARY AND SECONDARY SCHOOLS IN GHANA. Angela Bowman, Health and Human Performance
- 508 EXPLORING HORSE REACTIVITY AND HABITUATION ACROSS WORK TYPES. Chloe Wires, Agribusiness and Agriscience; Rhonda Hoffman, Agribusiness and Agriscience; Anne Brzezicki, Agribusiness and Agriscience
- 509 COMPUTATIONAL ADVANCES IN HIGH-THROUGHPUT MODELING OF PH-SENSITIVE HIV ENVELOPES. Scott Morton, Computational Science; Joshua Phillips, Computer Science
- 510 I WAS IN GREAT PERPLEXITY: AN ELECTROENCEPHALOGRAPHIC INVESTIGATION OF MEANING THREAT. Christof Fehrman, Psychology; Micah D'Archangel, Psychology; Cyrille Magne, Psychology; William Langston, Psychology
- 511 A GENETIC SCREEN FOR BIOLUMINESCENCE GENES IN THE FUNGUS *ARMILLARIA MELLE*A, THROUGH THE USE OF

- AGROBACTERIUM TUMEFACIENS-MEDIATED RANDOM INSERTIONAL MUTAGENESIS.** Virginia Poole, Biology; J. Brian Robertson, Biology; Kendra Baumgartner, Community member, USDA-ARS
- 512 **RAGE AND RESENTMENT IN MIDDLE-EARTH: THE POLITICAL CONFLICT OF ANCIENT AND MODERN IN J.R.R. TOLKIEN.** Dennis Wise, English
- 513 **TERAHERTZ MEASUREMENT OF 3-D PRINTED META-MATERIAL STRUCTURE.** Khem Poudel, Computational Science; Barron Black, Physics and Astronomy
- 514 **MIXING LIKE A PRODUCER: CREATIVE APPROACHES FOR MIXING CONTEMPORARY POPULAR MUSIC.** Natasha Branch, Recording Industry
- 515 **USING DATA PREPROCESSING IN MACHINE LEARNING TO ENABLE PERFORMANCE GAINS IN CLASSIFICATION ALGORITHMS.** Arthur Williams, Computer Science
- 516 **LANGUAGE POLICIES AND THE IMPACT ON ENGLISH LANGUAGE LEARNERS' ACADEMIC LITERACY IN THE U.S. SOUTH.** Katie Myers, Literacy Studies; Mohammed Albakry, English
- 517 **A COMPARATIVE ASSESSMENT OF STANDLEE PREMIUM WESTERN FORAGE TIMOTHY™ HAY VERSUS LOCALLY SOURCED GRASS HAY USING NUTRIENT COMPOSITION, GLUCOSE AND INSULIN RESPONSE, AND PALATABILITY..** Robyn Stewart, Horse Science; Robert Jacobs, Industry collaborator, Horse Science; Michael Jerina, Industry collaborator, Horse Science; Steven Duren, Industry collaborator, Horse Science; Mary Gordon, Industry collaborator, Horse Science
- 518 **DISJUNCTIVE DIMENSIONAL ENCODINGS FOR MACHINE LEARNING TASKS.** Michael Jovanovich, Computer Science; Joshua Phillips, Computer Science
- 519 **VALIDITY OF A SEDENTARY BEHAVIOR GUIDELINE FOR YOUTH.** Seungho Ryu, Health and Human Performance; Hoentae Kim, Health and Human Performance; Junbae Mun, Health and Human Performance; Minsoo Kang, Health and Human Performance
- 520 **A VALIDITY AND RELIABILITY STUDY OF AN ADOLESCENT FRUIT AND VEGETABLE CONSUMPTION BARRIER SCALE.** Sarah Murfree, Health and Human Performance; Tracy Noerper, Health and Human Performance/Lecturer, Human Sciences
- 521 **HUMPS IN HIGHER EDUCATION EXPENDITURE OVER THE LIFE-CYCLE: FACTS FROM THE CONSUMER EXPENDITURE SURVEY DATA.** Abul Hasnat Salimullah, Economics and Finance
- 522 **AIRPORT ANALYSIS FROM A SAFETY PERSPECTIVE: NORTH AMERICAN AIRPORTS VS EUROPEAN AIRPORTS.** Olga Garcia Alvarez, Engineering Technology
- 523 **VIRTUAL REALITY AUDIO: EXPERIENCING THE RECORDING STUDIO.** Mark Kendree, Recording Industry
- 524 **ANALYZING GROWTH AND CHANGE BETWEEN ELL AND NON-ELL EXAMINEES: LATENT GROWTH CURVE MODELING APPLIED TO READING COMPREHENSION TEST.** Daren Li, Literacy Studies; Jwa Kim, Literacy Studies; Zaya Ahmed, Literacy Studies
- 525 **ONLINE MEAT DELIVERY SERVICE.** Fahd Aljohani, Engineering Technology
- 526 **INCORPORATION OF Ag⁺ INTO PBS QUANTUM DOTS BY CATION EXCHANGE.** Alexander Morris, Chemistry; Ronald Higdon, Chemistry; Ryan Tilluck, Chemistry; Gregory Van Patten, Chemistry
- 527 **PRODUCTION OF SECONDARY METABOLITES FROM INDUSTRIAL HEMP (*CANNABIS SATIVA L.*) VIA PLANT TISSUE CULTURE SYSTEMS.** Matthew Fuller, Professional Science; Shannon Smith, Molecular Biosciences; Clint Palmer, Molecular Biosciences; Kayla Thomas, Biology; Xoe Thacker, Biology; Elliot Altman, Biology
- 528 **2017 MTSU SOLAR BOAT.** Syed Bukhari, Professional Science; Joel Clements, Professional Science; Dayana Priyanka Bernadsha Thana Edison, Professional Science
- 529 **THE DISTRIBUTION AND PREVALENCE AND DEVELOPMENT OF AN ECOLOGICAL NICHE MODEL OF *ARMILLARIA MELLEA* IN EASTERN NORTH AMERICA.** Bryce Kerr, Biology; Sarah Bergemann, Biology
- 530 **MICRORNAS MAY DRIVE VARIATIONS IN MUSCLE GROWTH AND QUALITY TRAITS IN RAINBOW TROUT.** Bam Paneru, Molecular Biosciences; Rafet Al-Tobasei, Computational Science; Brett Kenney, Non-MTSU university faculty collaborator; Timothy Leeds, Government agency collaborator,
- 531 **IS SHARED OR FORMAL LEADERSHIP EFFECTIVE IN GUIDING AEROSPACE TEAMS TO FINANCIAL SUCCESS?** Megan Snodgrass, Psychology; Jessi Pope, Psychology; Megan Wertheimer, Psychology; Ryan Bearden, Psychology
- 532 **BUILDING MATHEMATICAL KNOWLEDGE FOR TEACHING IN A GEOMETRY CONTENT COURSE FOR PRESERVICE SECONDARY TEACHERS.** Lucy Watson, Mathematics and Science Education; Candice Quinn, Mathematics and Science Education; Alyson Lischka, Mathematics; Jeremy Strayer, Mathematics
- 533 **THE PATHOGENIC YEAST, *CRYPTOCOCCUS NEOFORMANS*, ALTERS THE TRANSCRIPTOME OF INFECTED MACROPHAGES.** Linda Sircy, Biology; Kirsten Cunningham, Chemistry; Erin McClelland, Biology; David Nelson, Biology
- 534 **PHENOTYPIC TESTING OF THE RTA1 GENE IN CRYPTOCOCCUS NEOFORMANS THROUGH CREATION OF KNOCKOUT AND RECONSTITUTED STRAINS.** Emily Smith, Biology; Ronakkumar Patel, Biology
- 535 **CELL FORMATION PROBLEM USING ARTIFICIAL NEURAL NETWORKS AND SIMULATED ANNEALING.** Aishah Alamri, Computer Science
- 536 **RUNWAY CAMERA AS AN OPERATIONS COUNTER AND RECORDER.** Vinay Kumar Vushagoni, Aerospace
- 537 **EXPLORING MUSIC PRODUCTION WITH THREE TYPES OF SYNTHESIS; ADDITIVE, SUBTRACTIVE, AND FM.** Jeffery Banks, Recording Industry
- 538 **OVERLAPPING-ENABLED SLICED INVERSE REGRESSION FOR DIMENSION REDUCTION.** Ning Zhang, Computational Science; Qiang Wu, Mathematics
- 539 **ADDRESSING ILLITERACY, RACISM AND RACIAL HOMOGENEITY IN GRUNDY COUNTY, TN THROUGH LIBRARY OUTREACH INITIATIVES: A PROPOSAL.** Mary C. Zeitler, Educational Leadership
- 540 **BINAURAL RECORDING "THE ART OF HUMAN HEARING".** Eben Powell, Recording Industry
- 541 **NEW TRENDS IN THE SURVEILLANCE INDUSTRY: DECRYPTING HUMAN EMOTIONS.** Valentin Vinca, Engineering Technology
- 542 **CENTURY FARMS: LOSS AND PRESERVATION.** Michael Bleddynn, Geosciences; Bethany Hall, Geosciences
- 543 **HEALTH RELATED PRODUCTIVITY LOSS: ASSESSMENT OF "PRESENTEEISM" IN HIGHER EDUCATION, FINANCE AND MANUFACTURING INDUSTRIES.** Amber J. Dorsey, Health and Human Performance; Heontae Kim, Health and Human Performance; Marquinta L. Harvey, Health and Human Performance; Cynthia Bass-Thomas, Health and Human Performance; Andrew Owusu, Health and Human Performance; Norman Weatherby, Health and Human Performance
- 544 **2017 MTSU NASA HUMAN EXPLORATION ROVER CHALLENGE.** Dayana Priyanka Bernadsha Thana Edison, Professional Science; Joel Clements, Professional Science; Syed Bukhari, Professional Science
- 545 **ABSURD REALITY: A BEHAVIORAL ANALYSIS OF THE EFFECT OF MEANING THREAT ON THE INTERPRETATION OF UNRELATED WORD PAIRS.** Micah D'Archangel, Psychology; Christof Fehrman, Psychology; William Langston, Psychology; Cyrille Magne, Psychology
- 546 **PREDICTING TICKETS SALES FOR AIR SHOWS.** Stephen Henderson, Mathematics; Yiting Dong, Mathematics

- 547 ADAPTABLE AVIATION: INDIVIDUAL AND TEAM ADAPTIVE CAPACITY IN FLIGHT OPERATIONS TEAMS. Jessi Pope, Psychology; Glenn Littlepage, Psychology
- 548 PRODUCTION AND POST-PRODUCTION AUDIO PRACTICES FOR CONCERT SPECIALS (DVDS, TV, STREAMING). Ekaterina Kuznetsova, Recording Industry
- 549 AUTOMATED METHOD FOR WATERSHED-SCALE DESCRIPTION OF RIPARIAN VEGETATION USING LIDAR. Clark Milam, Geosciences; Henrique Momm, Geosciences
- 550 ELECTRIC VEHICLE CHARGING STATIONS (EVCS) USAGE ANALYSIS IN MURFREESBORO, TENNESSEE. Lorena Jaeger, Engineering Technology
- 551 MIDDLE TENNESSEE STATE UNIVERSITY'S VIETNAM VETERANS MEMORIAL PROJECT. Bethany Hall, Geosciences; Derek Frisby, History
- 552 WEB-READY MOBILE BROADCAST AUDIO ENGINEERING TUTORIALS. Ryan Adams, Recording Industry
- 553 SOUND FOR A MUSICAL WEB SERIES: INCOGNITA'S INFAMOUS ADVENTURES. Sarah Bailey, Recording Arts and Technologies
- 554 FEASIBILITY STUDY OF THE INCORPORATION OF WIND TURBINES AT BLAST FENCES. Srinivasa Srikar Singaraju, Aerospace
- 555 ANTISENSE LONG NON-CODING RNAs IN RAINBOW TROUT: DISCOVERY AND POTENTIAL ROLE IN MUSCLE GROWTH AND QUALITY TRAITS. Ali Ali, Biology; Rafet Al-Tobasei, Computer Science; Timothy Leeds, Non-MTSU university faculty collaborator; Brett Kenney, Non-MTSU university faculty collaborator; Mohamed Salem, Staff, Biology
- 556 LEVERAGING CLOUD-BASED RESOURCES FOR REMOTE SENSING DATA ANALYSIS: A PILOT STUDY OF CLOUD MASKING AND VEGETATION INDICES USING GOOGLE EARTH ENGINE. Laura Trujillo, Professional Science
- 557 THE MYSTERY OF THE VANISHING SLEUTH: THE REPRESENTATION OF NANCY DREW IN COVER DESIGN FROM 1930 TO 2016. Leah Bailey, Media and Communication
- 558 USING UNDER-WATER CLOSE-RANGE PHOTOGRAMMETRY AND GIS ANALYSIS IN JERVIS BAY, AUSTRALIA, TO MONITOR THE SEASCAPE AND MARINE ECO-SYSTEM FOR CONSIDERATION AS A MARINE PROTECTED AREA. Sean Hadley, Geosciences
- 559 IMPACT OF TECHNOLOGY ON WEB ACCESSIBILITY. Viswanath Pamarthi, Computer Science
- 560 RESEARCH PROJECT ON EXTENDED WARRANTY REMARKING ANALYSIS. Mengyu Chen, Mathematics; Jessica Small, Professional Science
- 561 GENOMIC ANALYSIS AND COMPARISON OF NOVEL BACTERIA *CANDIDATUS BERKIELLA AQUAE* AND *CANDIDATUS BERKIELLA COOKEVILLENSIS*. Destaalem Kidane, Molecular Biosciences
- 562 AN ANALYSIS OF RESEARCH METHODOLOGIES IN BIOLOGY EDUCATION RESEARCH. Joshua Reid, Mathematics and Science Education; Grant Gardner, Biology; Penny Carroll, Mathematics and Science Education; Velta Napoleon-Fanis, Mathematics and Science Education; Emily Smith, Biology
- 563 TO WHAT EXTENT DO INDIVIDUALS LIVING IN A COUNTY WITH HIGH ILLICIT DRUG USE RECOGNIZE ADDICTION AS AN ILLNESS? Tara Prairie, Health and Human Performance; Miranda Givens, Health and Human Performance; Angela Bowman, Health and Human Performance; Norman Weatherby, Health and Human Performance
- 564 EXPLORING PROSPECTIVE MATHEMATICS TEACHERS' DEVELOPING FEEDBACK PRACTICES THROUGH LETTER WRITING. Kristin Hartland, Mathematics and Science Education; Matthew Duncan, Mathematics and Science Education
- 565 IMPACT OF ARTIFICIAL INTELLIGENCE IN TODAY'S WORLD. Adekunle Afolabi, Engineering Technology
- 566 INSTRUCTION AND INTERVENTION PRACTICES AT NATIONAL BLUE RIBBON TITLE I SCHOOLS. Kari Miller, Educational Leadership
- 567 VALIDITY OF MAPS SCORE AS A FUNCTIONAL MEASURE IN ADULTS WITH INCOMPLETE SPINAL CORD INJURY. Heontae Kim, Health and Human Performance; Don Morgan, Health and Human Performance; Sandra Stevens, Health and Human Performance; John Coons, Health and Human Performance; Minsoo Kang, Health and Human Performance
- 568 TOWARDS THE MOLECULAR IDENTIFICATION OF AFR2, A GENE IMPLICATED IN LIVER CANCER. Zach Grimes, Biology
- 569 SUBSPACE CLUSTERING OF MOLECULAR SIMULATION DATA. Ivan Syzonenko, Computational Science; Joshua Phillips, Computer Science
- 570 IDENTIFICATION OF CSNPS ASSOCIATED WITH RESISTANCE TO *FLAVOBACTERIUM PSYCHROPHILUM* IN RAINBOW TROUT. Pratima Chapagain, Biology; Rafet Tobasei, Computational Science
- 571 DEVELOPMENT OF A GC-MS METHOD FOR QUANTIFYING NON-POLAR AND POLAR BIOGENIC TERPENES FROM PLANTS. Masoumeh Dalilian, Chemistry
- 572 CROSS-VALIDATION OF THE DEVELOPED OBESITY CUT-OFF POINTS FOR KOREAN ADULTS. Junbae Mun, Health and Human Performance; James L. Farnsworth, Health and Human Performance; Heontae Kim, Health and Human Performance; Seungho Ryu, Health and Human Performance; Minsoo Kang, Health and Human Performance
- 573 GENERATING HISTORICAL CROP DATA LAYERS USING SPECTRAL FEATURE FITTING ALGORITHM. Wesley Porter, Geosciences; Henrique Momm, Geosciences; Jeremy Aber, Geosciences; Racha El Kadiri, Geosciences
- 574 BENCHMARKING INSTRUMENT PANEL LINE AT CALSONIC KANSEI COMPANY. Fatemeh Dalilian, Engineering Technology
- 575 COMPUTATIONAL MODELING OF PH SENSITIVITY IN THE CRITICAL HIV GP120-CD4 INTERACTION. Jonathan Howton, Computer Science; Joshua Phillips, Computer Science
- 576 A LOGISTIC REGRESSION ANALYSIS OF OPIATE PRESCRIPTION PAIN RELIEVER ABUSE BY ACCESS TO MEDICAID/CHIP INSURANCE. Cynthia Bass-Thomas, Health and Human Performance; Heontae Kim, Health and Human Performance; Amber Dorsey, Health and Human Performance; Andrew Owusu, Health and Human Performance
- 577 LATEST WIRELESS TECHNOLOGIES FOR HOME SECURITY AND HOME MONITORING. Ayehualem Anteneh, Engineering Technology
- 578 HUMAN BREATH SOUND DETECTION USING A MICROPHONE AND AUDIO SIGNAL PROCESSING. Ayehualem Anteneh, Engineering Technology; Miao Lei, Staff, Engineering Technology

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