Complete schedule of events, abstracts, and other information is available at http://www.mtsu.edu/scholarsweek/
CIRCUMFERENCE TO THEORETICALLY DETERMINE A PERSON'S HEIGHT. Shonda Clanton, Forensic Science

307 ANALYZING THE CORRELATION BETWEEN ALLELIC IMBALANCES AND MUSCLE MASS IN RAINBOW TROUT. Jasmine McCroskey, Biology; Ali All, Biology

308 FIELD PERFORMANCE OF VARIABLE PERVERSIVE 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 THE CAMOEBIAN 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-C8H12] 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 Slaton, 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 MICROBIAL 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: HURSTON, 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-C8H12] ANION. Muhammad Osama Ali, Chemistry; Anas Hajhussein, 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 Alfozuzan, 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 Conor, Chemistry; Piotr Kaszynski, Chemistry

339 MAILBOT: THE AUTONOMOUS MAILBOX TEAM 2. Joe Beck, Engineering Technology; Ayman Yaseen, Engineering Technology; Davis Phoay, Engineering Technology; Mohammad 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 Secrest, 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 Cothen, English; Jessica Green, Liberal Studies; Lesley Sweeten, English

349 EFFECTS OF GALLIUM PROTOPHORPHYRIN IX ON ACINETOBACTER BUMANI 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 Seipel-Thiemann, Biology

354 NOISE REDUCTION OF UNMANNED AIRCRAFT PROPELLERS BY UTILIZING BARN OWL BIONIMICRY. 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. Terea 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; Terea Pryor, Health and Human Performance; Andrew Owusu, Health and Human Performance

362 FOR COLORED GIRLS WHO HAVE CONSIDERED REVOLUTION: NTOZAKE SHANGE & HAITI. Kieith Cripps, Recording Industry

363 3D PRINTING IN FASHION. Levy Eskind, Human Sciences

364 EFFECT OF RAPAMYCIN TREATMENT ON CHRONOLOGICAL LIFESPAN OF WILDFYTYPE AND PUT1 MUTANT BUDDING YEAST. Anas Hajhussein, Chemistry; Madeline McDonald, Biology; Rebecca Seipel-Thiemann, Biology

365 CHARACTERIZING THE INTERACTIONS of MtbcClpC1 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 H0* 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 Pomplius, 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 Dedicatoria, 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 n²He EXPERIMENT. Patrick Wong, Physics and Astronomy; Robert Maharin, 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 BCDAT 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 Seipel-Thiemann, Biology

381 LEMONADE: BEYONCE'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


385 THE FISCHER INDOLE SYNTHESIS. Alex Knight, Chemistry

386 TITLE: THE SKIN I'M IN: WHO SAYS BLACK ISN'T BEAUTIFUL? Christina Hankins, English; Desirey 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 NANOPIERCLES 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 BOLISTIC TRANSFORMATION OF ARMILLARIA MELLEA. Rachel Gingerich, Biology

397 SKELETAL ANALYSIS OF SAMBURU SITE (400BB) 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

400  THE BLACKER THE BERRY: BLACK WOMEN, SEX & THE MEDIA. Marteja Bailey, English

401  DROUGHTS IN A CHANGING CLIMATE: A REVIEW. Jordyn Hyden, Geosciences; Rachael 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 Beaulian, 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. Marlin 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 Gargaros, Biochemistry

412  AZAARUONES: 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 Szepes, 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 QUADRUPOLAR LIQUID CRYSTALS. John Lasseter, 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 PROPPELLERS BY UTILIZING BARN OWL BIOMIMICRY. Braxon 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. Chelsey 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-PIECE COTTON-CATALYZED AZIDE-ALKYNE CYCLOADITION (CuAAC) REACTION OF ARYL BROMIDES IN A DEEP EUTECTIC SOLVENT. Arjun Kafle, Molecular Biosciences; Scott Handy, Chemistry


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 MELLEA, THROUGH THE USE OF