



## 2011 UURAF Award Winners – Attendance at Awards Ceremony

*Congratulations to the 2011 UURAF Award Winners. Approximately 527 undergraduate students participated in this year's forum. First Place Award recipients will receive \$100. Grand Prize recipients receive \$500 each.*

### Grand Prize Winners:

- **Humanities, Social Sciences, & Communication Arts & Sciences:** Sydney Hawthorne for FINDING NEEDLES IN A HAYSTACK: AN EMPIRICAL ANALYSIS OF A CASE SELECTION ON THE US SUPREME COURT. Faculty Mentor: Dr. Ryan Black
- **Science, Mathematics, & Engineering:** Sara Sobon, Derek Johnson, Aaron Miller, Rita Morse for NEW MARKETING APPROACH FOR MINIMALLY PROCESSED ONIONS. Faculty Mentor: Dr. Eva Almenar.

### AGRICULTURE, FOOD, & ENVIRONMENTAL SCIENCES

Category	Type	Student(s)	Project
Agriculture & Animal Science	Oral	Cory Outwater	IDENTIFICATION OF THE PHYSIOLOGICAL SOURCE OF RESISTANCE OF PRUNUS SPP TO ARMILLARIA OSTOYAE
Agriculture & Animal Science	Poster	Brendan Lammers	PUBLICLY DEVELOPED GM CROPS IN THE DEVELOPING WORLD: A SOUTH AFRICAN CASE STUDY
Environmental Science & Natural Resources	Oral	Stacey Piotrowski	GENETIC INVESTIGATION OF MULTIPLE PATERNITY AND ITS IMPLICATIONS IN SNAPPING TURTLES (CHELYDRA SERPENTINA)
Environmental Science & Natural Resources-Group 1	Poster	Xuemei Ye	DO COLLEGE INTRODUCTORY BIOLOGY COURSES INCREASE STUDENT ECOLOGICAL LITERACY?
Environmental Science & Natural Resources-Group 2	Poster	Tessa Minicucci, Heidi Jerrils	DETERMINING PREDICTORS OF ALGAL-BACTERIAL INTERACTIONS IN FRESHWATER STREAMS
Health, Food, & Wellness	Oral	Sara Sobon, Derek Johnson, Aaron Miller, Rita Morse	NEW MARKETING APPROACH FOR MINIMALLY PROCESSED ONIONS
Health, Food, & Wellness	Poster	Thomas Wenzlick	CHILD AND ADOLESCENT DIFFERENCES IN ECONOMY AT VARIOUS SPEEDS ACROSS A TWO-YEAR TIME PERIOD

**COMMUNICATION ARTS & SCIENCES**

Category	Type	Student(s)	Project
Communication Arts & Sciences	Oral	Kelly Caldwell, Alexandra Ghaly, Josh Rickert	Molten Light: The Intertwined History of Steel and Photography
Communication Arts & Sciences	Poster	Sarah Sheff, Laura Fournier	YOU ARE NOT ALONE: UNDERSTANDING STIGMA IN ORDER TO INCREASE THE USE OF MSU COUNSELING CENTER SERVICES
Digital Media-Group 1	Oral	Matthew Johns, Samantha Harris	EXTREME GREEN
Digital Media-Group 2	Oral	Sarah DeBoer	HOW-TO: THE EFFECTIVENESS OF VIDEO TUTORIALS IN COSTUMING

**EDUCATION**

Category	Type	Student(s)	Project
Education	Oral	Rebecca Sawyer	THE INTERSECTION OF MUSIC AND LANGUAGE IN FL CLASSROOMS
Education	Poster	Shauna Jones	MAKING CONNECTIONS: DO STUDENTS' CONNECTIONS BETWEEN KEY GENETICS CONCEPTS ELUCIDATE STUDENT UNDERSTANDING?

**ENGINEERING, COMPUTER SCIENCE, & MATHEMATICS**

Category	Type	Student(s)	Project
Engineering	Oral	Craig Pearson	EFFECTS OF MICROCRACKS ON HYDROXYAPATITE SURFACE COMPOSITION AND OSTEOBLAST CELL RESPONSE
Engineering-Group 1	Poster	Thomas Fielitz	MEASUREMENT OF REACTIVITY OF PD, PT, AND RU NANOCATALYSTS IN HYDROGENATION REACTIONS
Engineering-Group 2	Poster	Joshua Fenton	USING 3D SCANNING TECHNOLOGY TO EVALUATE ANCHOR POINT DETECTION ALGORITHMS

**HUMANITIES AND PERFORMING ARTS**

<b>Category</b>	<b>Type</b>	<b>Student(s)</b>	<b>Project</b>
Humanities and Performing Arts-Group 1	Oral	Rebecca Farnum	THE EMERGENCE OF MONOTHEISM
Humanities and Performing Arts-Group 2	Oral	Beth Kolongowski	PRISON THEATRE: A COMPARISON OF TWO ARTS OUTREACH STYLES ON AN UNLIKELY STAGE
Humanities and Performing Arts-Group 1	Poster	Stephanie Senneker	RESOURCESPACE: BRINGING ARCHAEOLOGICAL DATA INTO THE 21ST CENTURY
Humanities and Performing Arts-Group 2	Poster	Nina Elias	DESIGNERS' PERSPECTIVES ON STORYBOARDS & REUSE

**NATURAL & PHYSICAL SCIENCES**

<b>Category</b>	<b>Type</b>	<b>Student(s)</b>	<b>Project</b>
Biochemistry and Molecular Biology	Posters	Matthew Faber	ASMASE ACTIVITY AS A POSSIBLE INDICATOR OF CELLULAR MEMORY IN HRVE CELLS
Cell Biology, Genetics, and Genomics	Oral	Priyanka Pandey	DIABETIC BONE MARROW NEUROPATHY OR SURGICAL BONE MARROW DENERVATION LEAD TO THE DIMINISHED RETINAL VASCULAR REPAIR AND DIABETIC RETINOPATHY
Cell Biology, Genetics, and Genomics-Group 1	Poster	Thereseann Huprikar, Natasha Ahmed, Kenneth Less, Jessica Wummel	DETECTION OF MUSCLE SATELLITE CELL ACTIVATION IN VIVO USING MR MICROIMAGING
Cell Biology, Genetics, and Genomics-Group 2	Poster	Kristina Knirk, Nicole Arcy, Tyler Ash, Jonathon Walters	DETECTION OF 1510 BP BAND USING PCR AND GEL ELECTROPHORESIS TO DIAGNOSE E6V SICKLE CELL ANEMIA IN HUMAN GENOMIC DNA
Cell Biology, Genetics, and Genomics-Group 3	Poster	Eric Vanderpool	STOP AND GO TRAFFIC: THE TARGETING OF CHLOROPLASTIC MEMBRANE PROTEINS TO EITHER INNER ENVELOPE OR THYLAKOID MEMBRANE
Cell Biology, Genetics, and Genomics-Group 4	Poster	Tiara Ahmad	IDENTIFICATION OF MUTATIONS CAUSING CHLOROPLAST ALTERED NUMBER (CAN) PHENOTYPES IN ARABIDOPSIS

Microbiology, Immunology, & Infectious Disease	Oral	Garrett Berry	AVIAN FILARIOID NEMATODE BARCODING FROM A FOCUS OF WEST NILE VIRUS TRANSMISSION
Microbiology, Immunology, & Infectious Disease-Group 1	Poster	Carlos Salgado	INVESTIGATION OF ELECTRON TRANSFER ALONG PILUS NANOWIRES
Microbiology, Immunology, & Infectious Disease-Group 2	Poster	Kathryn Nawrocki	THE EFFECT OF ANTIBIOTICS ON TRANSFORMATION IN NEISSERIA GONORRHOEAE
Microbiology, Immunology, & Infectious Disease-Group 3	Poster	Jonathan Massie	SIGNALING SPECIFICITY MODELS OF THE SECOND MESSENGER CYCLIC-DI-GMP IN THE HUMAN PATHOGEN VIBRIO CHOLERAEE
Microbiology, Immunology, & Infectious Disease-Group 4	Poster	Amanda Ngouajio	THE ROLE OF CHIS IN VIBRIO CHOLERAEE MOTILITY AND BIOFILM FORMATION
Physical Sciences-Group 1	Poster	Johanna Smeekens	OPTIMIZATION OF THE EXTRACTION OF DIESEL FUEL FROM WATER FOR FUEL SPILL CLEAN-UP APPLICATIONS
Physical Sciences-Group 2	Poster	Danielle Westphall	SOURCE OF LITHIC BLOCKS WITHIN A LARGE, NON-HISTORIC ASH FLOW DEPOSIT, BARU VOLCANO, PANAMA

#### **SOCIAL SCIENCES**

History, Political Science, and Economics-Group 1	Oral	Laura Kovacek	PROBLEMS, PARADOXES AND POTENTIAL IN THE LOCAL FOOD MOVEMENT
History, Political Science, and Economics-Group 2	Oral	Jay Thaker	COST DRIVERS OF RAPID DIAGNOSTIC TESTING FOR MALARIA IN MALAWI
History, Political Science, and Economics	Poster	Sydney Hawthorne	FINDING NEEDLES IN A HAYSTACK: AN EMPIRICAL ANALYSIS OF A CASE SELECTION ON THE US SUPREME COURT
Psychology	Oral	Elizabeth Cook	NARRATIVE COMPREHENSION USING RICH AND SPARSE MANIPULATIVES IN SECOND GRADERS
Psychology- Group 1	Poster	Holly Lewis, Gaebrial Ferguson	THE EFFECT OF SLEEP DEPRIVATION ON MEMORY SUSCEPTIBILITY TO MISLEADING INFORMATION
Psychology- Group 2	Poster	Krista Bur	SPLASHES OF COLOR: A COMPARISON OF TWO CASE STUDIES OF GRAPHEME-COLOR SYNESTHESIA
Social Science General -Group 1	Oral	Stephanie Eisenberg	REDIRECTING JUSTICE: COULD EXPANDING MENTAL HEALTH COURTS SOLVE MICHIGANS CORRECTIONS DILEMMA?

Social Science General -Group 2	Oral	Kristin Babbie	IMPROVING THE LIVES OF MICHIGAN DISABLED FARMERS
Social Science General -Group 1	Poster	Siobhan O'Laoire, Crystal Na	HEAD START HEALTH OUTCOMES
Social Science General -Group 2	Poster	Claire Thams, Jennifer Ogle	PROFESSIONALS RECOMMENDATIONS FOR IMPLEMENTING SERVICES AND POLICIES TO SUPPORT PARENTS WITH A MENTAL ILLNESS AND THEIR CHILDREN (PRISPS-PMIC)
Social Science General -Group 3	Poster	Matthew Bambach	BIKE MSU! THE INTERACTIVE EXPERIENCE: USING INFORMATION VISUALIZATION TO EDUCATE AND ENTERTAIN

*For more information, please contact the Undergraduate Research Office at 517-355-7635 or [uuraf@msu.edu](mailto:uuraf@msu.edu). Visit the UURAF website at <http://urca.msu.edu/uuraf/>. Updated 7/27/11.*