



2012 UURAF Award Winners

Congratulations to the 2012 UURAF Award Winners. Approximately 560 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:** Evan Gross for MICHIGAN POLICY NETWORK: URBAN AFFAIRS. Faculty Mentor: Dr. Matt Grossmann
- **Science, Mathematics, & Engineering:** Craig Pearson for PLA/PGA AS A DRUG DELIVERY DEVICE FOR TREATMENT OF LEBER CONGENITAL AMAUROSIS. Faculty Mentors: Dr. Melissa Baumann & Dr. Simon Petersen-Jones

ARTS & LETTERS

Category	Type	Student(s)	Project
Humanities and Performing Arts-Group 1	Oral	Cara Gonzalez	TRANSITIONING TO LIFE AND LEARNING AT MSU: OUR CHINESE STUDENTS' PERSPECTIVE
Humanities and Performing Arts-Group 2	Oral	Clara Balliet	BREAST CANCER AND CULTURAL PERCEPTIONS OF THE BREAST
Humanities and Performing Arts-Group 3	Oral	Chelsea Gallagher	GRAFFITI QUEENS: AN EXAMINATION OF FEMALE PARTICIPATION AND RESISTANCE IN THE MASCULINE SUBCULTURE OF GRAFFITI
Humanities and Performing Arts-Group 1	Poster	Amber Bembnister	ESTABLISHING THE HISTORY OF ROLLER DERBY UNIFORMS/COSTUMES
Humanities and Performing Arts-Group 2	Poster	Katherine Pastor	THE INSTRUMENTALITY OF CREATIVITY
Linguistics, Languages and Speech-Group 1	Oral	Chris Heffner	PRACTICE MAKES OPAQUE: LEARNING OPAQUE PHONOLOGICAL PROCESSES
Linguistics, Languages and Speech-Group 1	Poster	Bailey Doolittle	PREDICATE NOMINALS IN CHAUCER: A STUDY IN DIACHRONIC SYNTAX
Linguistics, Languages and Speech-Group 2	Poster	Adam Liter, Chris Heffner	LIONS, ZEBRAS, AND PLURALS, OH MY!

AGRICULTURE, FOOD & ENVIRONMENTAL SCIENCES

Category	Type	Student(s)	Project
Agriculture and Animal Science-Group 1	Poster	Davis Reif	CONTROL OF THE PARASITIC WEED FIELD DODDER IN GLYPHOSATE-RESISTANT SUGAR BEETS

Agriculture and Animal Science-Group 2	Poster	Ben Staton, Kacie Jonasen	BEHAVIORAL SYNDROMS AND DIET COMPOSITION: AN EMPIRICAL APPROACH TO THE BOLD-SHY FORAGING HYPOTHESIS
Agriculture and Animal Science-Group 3	Poster	Allison Bunting	SPECIES SPECIFIC BEHAVIOR AND GROWTH PERFORMANCE AS MEASUREMENTS OF ANIMAL WELFARE IN PASTURE-RAISED PIGS: A CASE STUDY
Environmental Science and Natural Resources-Group 1	Oral	Matthew Bach	EFFECTS OF BYTHOTREPHES PRESENCE ON LAKE MICHIGAN ZOOPLANKTON SPECIES INTERACTIONS
Environmental Science and Natural Resources-Group 2	Oral	Alexandra David	HIGH TIMES AND DRY TIMES: CHANGES IN FLOW OF HAWAIIAN STREAMS WITH IMPLICATIONS TO HAWAII'S STREAM ORGANISMS
Environmental Science and Natural Resources-Group 1	Poster	Kevin Adams	COMMUNICATION APPROACHES TO PROMOTE ENERGY CONSERVATION
Environmental Science and Natural Resources-Group 2	Poster	Ryan Nagelkirk	PREDICTING THE IMPACTS OF CLIMATE CHANGE ON AGRICULTURAL YIELDS IN THE MAUMEE RIVER WATERSHED
Environmental Science and Natural Resources-Group 3	Poster	Alex Fox	HABITAT'S EFFECTS ON FEMALE MATE CHOICE
Health, Food & Wellness-Group 1	Poster	Jessica Wright	INTERPRETATIONS OF PATIENT NARRATIVES OF CO-MORBID CHRONIC ILLNESS DIAGNOSES
Health, Food & Wellness-Group 2	Poster	Ananya Juneja	EXPLORING EFFECTS OF CHOLESTEROL LOWERING MEDICATIONS ON MUSCLE FUNCTION

COMMUNICATION ARTS & SCIENCES

Category	Type	Student(s)	Project
Communication Arts & Sciences-Group 1	Oral	William Jeffery, Eric Musser, Daniel Sosnowski	GRUMPY SNOWMEN: DELUXE EDITION
Communication Arts & Sciences-Group 2	Oral	Josh Michels, Muareen Hnatiuk, Colin Marshall, Jaclyn McNeal, Ryan McPhail, Matt Radick	THRIVE WITH LESS

Communication Arts & Sciences-Group 1	Poster	Ashley Clark, Mallory Dewind, Claire Meconi, Samantha Kliman	VIDEO GAMING FOR PERSONS WITH PROFOUND MOTOR LIMITATIONS
Communication Arts & Sciences-Group 2	Poster	Kevin Brown	NEURAL BASES OF CHILDHOOD DEVELOPMENTAL STUTTERING
Digital Media-Group 1	Oral	Andrew Zeko, Zachary Hall	ACHERON
Digital Media-Group 2	Oral	Anthony Maccio, Diana Busby, Justin Grosjean, Kelsey Hansen	STAYCATION FILM TRAILER
Digital Media-Group 1	Performance	Chad Fleming, David Cornelius	INCREASING FINANCIAL LITERACY THROUGH MEANINGFUL PLAY

EDUCATION

Category	Type	Student(s)	Project
Education-Group 1	Oral	Jasmine Fountain	SUSTAINABLE ACTIVISM: LIBERATION THROUGH PEDAGOGY
Education-Group 1	Poster	Jessica Spence	PRE-KINDERGARTEN CHILDREN'S ALPHABET KNOWLEDGE AFTER 80 DAYS OF CURRICULUM
Education-Group 2	Poster	Leah Creech	GENDER PERFORMANCE DIFFERENCES IN THE LIFE SCIENCES

ENGINEERING, COMPUTER SCIENCE, & MATHEMATICS

Category	Type	Student(s)	Project
Engineering-Group 1	Poster	Quincy Suehr	MONTE CARLO FOOD IRRADIATION SIMULATION ANALYSIS AND COMPARISONS
Engineering-Group 2	Poster	Kwasi Adu-Berchie	STRUCTURAL DIFFERENCES BETWEEN SUB-SAHARA AFRICAN-TYPE HAIR AND CAUCASIAN HAIR; THEIR ROLE IN THE ADAPTATION OF SUCH INDIVIDUALS TO THEIR NATIVE ENVIRONMENTS
Engineering-Group 3	Poster	Albert Edwards Jr	COMPOSITE MATERIALS

NATURAL & PHYSICAL SCIENCES

Category	Type	Student(s)	Project
Biochemistry and Molecular Biology-Group 1	Oral	Craig Pearson (TIE) Sneha Grandhi	PLA/PGA AS A DRUG DELIVERY DEVICE FOR TREATMENT OF LEBER CONGENITAL AMAUROSIS PROTEIN INTERACTION AND METAL-BINDING STUDIES OF UREASE ACCESSORY PROTEINS
Biochemistry and Molecular Biology-Group 1	Poster	Eric Young, Karin Hanisch	EXPRESSION OF HYDROGENASE INSIDE YEAST MITOCHONDRIA FOR BIOLOGICAL HYDROGEN PRODUCTION
Biochemistry and Molecular Biology-Group 2	Poster	Robin Green	EXPLORATION OF ALTERNATIVE [FEFE]-HYDROGENASE LOCALIZATION IN THE GREEN ALGA VOLVOX CARTERI
Biochemistry and Molecular Biology-Group 2	Poster	Alexander Hoekstra	INHIBITING THE PRESSURE-INDUCED ADHESION OF METASTATIC CANCER CELLS
Cell Biology, Genetics, and Genomics-Group 1	Oral	Stephen Manning	DETECTION OF THE SINGLE BASE MUTATION, C1824T, IN THE LMNA GENE OF HUMAN EPITHELIAL CELLS USING YAKU PCR DESIGN METHOD
Cell Biology, Genetics, and Genomics-Group 1	Poster	Michael Paxhia	USING LIPOPOLYSACCHARIDE TRUNCATION MUTANTS TO INVESTIGATE SURFACE CHARACTERISTICS AND METAL REDUCTION IN GEOBACTER SULFURREDCENS
Cell Biology, Genetics, and Genomics-Group 2	Poster	David Hurley	CENTRAL DRIVE TO LOCOMOTOR MUSCLE
Cell Biology, Genetics, and Genomics-Group 3	Poster	Rachel Brock	CABP28k EXPRESSION IN MALE/FEMALE DIABETIC MICE JEJUNUM

Cell Biology, Genetics, and Genomics-Group 4	Poster	Rashelle Thompson	CHARACTERIZATION OF A NOVEL GENE AFFECTING RNA POLYMERASE FUNCTION IN PLANTS
Microbiology, Immunology and Infectious Disease-Group 1	Poster	Samantha Wengert	PILUS ISLAND DISTRIBUTION AMONG HUMAN AND BOVINE GROUP B STREPTOCOCCUS (GBS)
Microbiology, Immunology and Infectious Disease, Group 2	Poster	Evan Reynolds	QUANTIFICATION OF CYCLIC DI-GMP SIGNALING SPECIFICITY THE PATHOGEN VIBRIO CHOLERAЕ
Microbiology, Immunology and Infectious Disease, Group 3	Poster	Ashley Konal	CHARACTERIZATION OF PROMOTERS WITHIN THE EXTRACELLULAR PROTEIN SECRETION OPERON OF VIBRIO CHOLERAЕ
Physical Sciences, Group 1	Poster	Amy Pochodylo	EFFECT OF ALIPHATIC DICARBOXYLATE TETHER ON TOPOLOGY IN LUMINESCENT CADMIUM COORDINATION POLYMERS CONTAINING BIS (4-PYRIDYLFORMYL) PIPERAZINE
Physical Sciences, Group 2	Poster	Nicole Hart	INSIGHTS ON PROVENANCE AND SEDIMENT DISPERSAL DURING THE MIDDLE- AND LATE-STAGE DEVELOPMENT OF MIDCONTINENT RIFT SYSTEM: U-PB DETRITAL ZIRCON GEOCHRONOLOGY OF THE KEEWEENAWAN SUPERGROUP

SOCIAL SCIENCES

History, Political Science and Economics-Group 1	Oral	Evan Gross	MICHIGAN POLICY NETWORK: URBAN AFFAIRS
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History, Political Science and Economics-Group 2	Oral	Kari Boyd (tie) Rebecca Farnum	LOST CAUSE NATION: THE BIRTH OF A NATION AND CONFEDERATE IDEOLOGY FOOD AND WATER COOPERATION IN THE MIDDLE EAST AND NORTH AFRICA
History, Political Science and Economics-Group 1	Poster	Jessica Liu	THE STATE(S) OF INEQUALITY: CHANGES IN INCOME DISTRIBUTION IN THE UNITED STATES, 1976-2008
Psychology-Group 1	Poster	James Miller	CONSOLIDATION OF ORIENTATION INFORMATION INTO HUMAN VISUAL SHORT-TERM MEMORY
Psychology-Group 2	Poster	Prashanth Rajarajan	THE ROLE OF THE SUPPLEMENTARY MOTOR AREA IN BEAT PERCEPTION: A TRANSCRANIAL MAGNETIC STIMULATION (TMS) STUDY
Psychology-Group 3	Poster	Greg Leach	A DIURNAL RODENT MODEL FOR SAD
Psychology-Group 4	Poster	Allison Nisbett	EXAMINING EMPATHY AND CLOSENESS IN CROSSOVER OF BURNOUT AND ENGAGEMENT BETWEEN ROOMMATE DYADS
Social Science: General-Group 1	Oral	Meghan Kanya	SAD, ANGRY, AFRAID, OH MY! CHILDREN'S UNDERSTANDING OF HOW EMOTIONS INFLUENCE COGNITION
Social Science: General-Group 2	Oral	Evan Stewart	ASKING FOR THE STORIES WE CANNOT TELL: BIAS AGAINST THE NON-RELIGIOUS IN NATIONAL SURVEYS AND AMERICAN POLITICAL RHETORIC

Social Science: General-Group 1	Poster	Kelly Lennon	PRAGMATIC LANGUAGE USE OF CHILDREN WITH A SPECIFIC LANGUAGE IMPAIRMENT: DIFFERENCES ACROSS SCENARIOS
Social Science: General-Group 2	Poster	Justin Cochran, Torin Kulhanek	THE DEVELOPMENT OF CHILDREN'S VERBAL EXPLANATIONS OF INEQUALITY AVERSION
Social Science: General-Group 3	Poster	James Schwaderer	CULTURAL DIFFERENTIATION: CHERT COLOR AT MORTON VILLAGE
Social Work	Poster	Siobhan O'Laoire	HEAD AND OBESITY