

2017 UURAF Award Winners

Congratulations to the 2017 UURAF Award Winners. Approximately 950 undergraduate students participated in this year's Forum.

First Place Award recipients will receive \$100 each. Grand Prize recipients receive \$500 each.

Grand Prize Winners:

- **Humanities, Social Sciences, & Communication Arts & Sciences:** TBD in June 2017.
- **Science, Mathematics, & Engineering:** TBD in June 2017.

ARTS & LETTERS

Category	Type	Student(s)	Project
Humanities & Performing Arts – Section 1	Oral	Michael Merluzzi	Michigan Professional Theatre- Design Internship
Humanities & Performing Arts – Section 2	Oral	Alexis Stark	Once Upon Another Time: Examining and Challenging Gender Norms Through Re-Visioning Fairytales
Humanities & Performing Arts- Section 3	Oral	Ryan Duda, Evan Phillips	Farm the Musical: Theatre and Autism
Humanities & Performing Arts – Section 1	Poster	Sal Antonucci, Kristen Bilyea	Aesthetic Pleasure in Poetry: A Revised Approach to an Old Inquiry
Humanities & Performing Arts – Section 2	Poster	Margaret Chesbrough	Art of Infertility
Linguistics, Languages & Speech-Section 1	Poster	Katherine Rock	Why Have You Got a “Got” in “Have you Got a Got”
Linguistics, Languages & Speech-Section 2	Poster	Bobby Felster	Ambisyllabic Consonants in Michigan English
Linguistics, Languages & Speech-Section 3	Poster	Rachel Stacey, Natalie Chemey, Robert Felster, Adam Smolinski	Can They ‘Or’ Can’t They? Do Children Calculate Implicatures Related to ‘Or’

AGRICULTURE, FOOD & ENVIRONMENTAL SCIENCES

Category	Type	Student(s)	Project
Agriculture & Animal Science-Section 1	Oral	Emma Blough	The Effect of Genetic Variants of the β -Casein Proteins in Milk on Cheese Production
Agriculture & Animal Science-Section 1	Poster	Parker Anderson	The Effects of Altered Rainfall Patterns on Nitrous Oxide Reductase
Agriculture & Animal Science-Section 2	Poster	Megan Heil	Comparison of Winter Morph to Summer Morph Spotted Wing Drosophila Alightment on Odorless Colored Disks
Agriculture & Animal Science-Section 3	Poster	Olivia Child	The Effects of Porcine Zona Pellucida Contraceptive Vaccine on Equid Ovarian Activity
Agriculture & Animal Science-Section 4	Poster	Jacob Roush	April Soil Moisture Brings May Flowers? An Analysis of Seasonal Soil Moisture Variation in Northern Michigan
Agriculture & Animal Science-Section 5	Poster	Nick Zonca, Krista Dunger, Kelly Geith, Wanda Sankey	Using Next Generation Sequencing of Mitochondrial Genomes to Develop Species Diagnostics of Rhagoletis Pomonella and Rhagoletis Zephyria
Environmental Sci & Natural Resources-Section 1	Oral	Caitie Reza	Collective Intelligence in Northeastern Fisheries
Environmental Sci & Natural Resources-Section 1	Poster	Emilie Cole	Influence of fruit position, harvest frequency and can density on drosophila infestation in fall red raspberry

Environmental Sci & Natural Resources-Section 2	Poster	Jaclyn Stone	The Effects of Morphology on the Survivorship of a Key Pest in Berry Crops
Environmental Sci & Natural Resources-Section 3	Poster	Waldemar Ortiz	Quantifying the Severity of an Emerging Skin Disease Affecting Giraffe Population Using Photogrammetry Analysis of Camera Trap Data
Environmental Sci & Natural Resources-Section 4	Poster	Justin Gambrell	Exploring How Students' Reasoning About a Sneezing Phenomenon Relates to Concepts in Introductory Science Textbooks
Food Science & Human Nutrition-Section 1	Poster	Raghav Jain	Quantification of Fatty Acid and Mineral Levels of Selected Seeds, Nuts, and Oil in Northern Ghana
Food Science & Human Nutrition-Section 2	Poster	Gurveer Deol	Microbial Signature Identification Using a Handheld Potentiostat
Plant Sciences- Section 1	Poster	Katie Boyd-Lee	The effect of floral pollen availability on bee visitation
Plant Sciences- Section 2	Poster	Mary Linabury	Bad Bugs: Seed Predation in First Year Prairie Restorations

BUSINESS

Category	Type	Student(s)	Project
Business- Section 1	Oral	Alexander Trompke	Leed Certification
Business-Section 2	Oral	Aileen Acuna	How Can Employees Maintain Their Creativity When Leaders Undermine Their Suggestions? Communication is Key
Business-Section 1	Poster	Hepsiba Chepngeno	Role of Non-Governmental Organization in Enhancing the Integration of Small-Holder Farmer in the Supply Chain

COMMUNICATION ARTS & SCIENCES

Category	Type	Student(s)	Project
Communication Arts & Sciences	Oral	Jay Hull	In Defense of "Slacktivism": Online Activism & Empathy
Communication Arts & Sciences-Section 1	Poster	Peit Braun, Rachel Posler, Chanon Sethaburta, Kaleigh Wisely	Avatarification and Gender Stereotypes About Games and Stem Fields
Communication Arts & Sciences-Section 2	Poster	Piet Braun, Robert Aultz, Rachel Posler	Communicating for Performance: Diversity or Similarity?
Communication Arts & Sciences-Section 3	Poster	Jack Nissen	Crisis Reporting and Community Engagement: The Role of Local Reporters During the Flint Water Crisis
Communication Arts & Sciences-Section 4	Poster	Micah Turner	Analyzing Safe Bicycling Practices on University Campuses
Digital Media-Section 1	Oral	Chloe Kiple & Lizzy Lafave	Flint Med

EDUCATION

Category	Type	Student(s)	Project
Education-Section 1	Oral	Melissa Gutwein	"Maybe that concept is still with us": Adolescents' racialized and classed perceptions of teachers' expectations.
Education-Section 1	Poster	Maggie Keech	Demographic and Cultural Relevance to Teacher Pinterest Activity
Education-Section 2	Poster	Katherine Woods	What is the Nature of Changes Students Make When Revising a Previously Submitted Model?
Education-Section 3	Poster	Robert McKay	Adapting a Transformed Undergraduate Chemistry Curriculum for High School
Kinesiology- Section 1	Oral	Lauren Kosowski	Retention and Achievement of Sophomore Status Following 1 Year of Intramural Sports

			Participation in University Freshman
Kinesiology- Section 1	Poster	Mirna Kaafarani	Updated Reference Values for Hemodynamic Response to Bicycle Ergometry in the First Two Decades of Life
Kinesiology- Section 2	Poster	Sam Carey, Marco Lin	Does the Left Hand Know What the Right Hand is Doing?
Kinesiology- Section 3	Poster	Ten-Niah Kinney, Jonathan Kushion, Breanna Williams	Measuring Postural Control in Experts and Novices Using the Microsoft Kinect

ENGINEERING, COMPUTER SCIENCE, & MATHEMATICS

Category	Type	Student(s)	Project
Engineering, Computer Science, & Math -Section 1	Oral	Charles McIntire	Field Use and Deployment of an Optical Oxygen Sensor
Engineering, Computer Science & Math- Section 1	Poster	Nathaniel Arnold	Design of Bio Based Flexible and Rigid Polyurethane Foam Formulations Using Bio, Petroleum, and Silicone Polyols
Engineering, Computer Science, & Math –Section 2	Poster	Michael Bigelow & Duncan Kroll	Deposition and characterization of nanocrystal semiconductors on pre-strained elastomeric substrates.
Engineering, Computer Science, & Math –Section 3	Poster	Marissa Grobbel	Contribution of Collagen Fibers and Myocytes to Residual Stress in the Left Ventricular Wall
Engineering, Computer Science, & Math –Section 4	Poster	Emily Banach	Analysis of Hydraulic Retention Time for Modeling Removal of Pollutants in a Bioretention Basin
Engineering, Computer Science, & Math –Section 5	Poster	Joanna Carroll	Dry Cross-Contamination Modes and Factors Associated with Salmonella During Almond Processing
Engineering, Computer Science, & Math –Section 6	Poster	Sara Kolar	Characterization of Bio-Based Polyol and its Applications in Flexible Polyurethane Foam
Engineering Computer Science, & Math- Section 7	Poster	Christopher Wells	Evaluating the Efficacy of Industrial Vacuum Cleaning to Remove Food Allergens from Food Contact Surfaces

HEALTH SCIENCES (Nursing)

Category	Type	Student(s)	Project
Epidemiology & Public Health	Oral	Abby Klemetson	A Description of Food Accessibility Among Urban Head Start Families
Epidemiology & Public Health- Section 1	Poster	MacKenzie Clark	Multiple Health Behaviors Among Dual-Smoker Couples
Epidemiology & Public Health- Section 2	Poster	Danielle Nicklas	Antibiotic Resistance Among Poultry Farming Communities in Rural Ecuador
Epidemiology & Public Health- Section 3	Poster	Jacob Leinweber	Newly Incident Cannabis Use in the United States, 2002-2011: A Regional and State Level Benchmark

NATURAL & PHYSICAL SCIENCES

Category	Type	Student(s)	Project
Biochemistry & Molecular Biology-Section 1	Oral	Akua Acheampong	Investigating Analogous Functions of Cyanobacterial Minc and Arabidopsis ARC3 in Cell and Chloroplast Division
Biochemistry & Molecular Biology-Section 2	Oral	Hope Hersh	Dissection of the Role of Plips in Seed Oil Biosynthesis and Plant Development with CRISPR-CAS9 Technology
Biochemistry & Molecular Biology-Section 1	Poster	Cassie Dutcher	Plug and Play: Introducing a Foreign Enzyme into Bacterial Microcompartments

			Using Protein Domain Fusions
Biochemistry & Molecular Biology-Section 2	Poster	Grant LeVasseur	Electrochemistry of Highly Oxidized Species in Methalloenzymes
Biochemistry & Molecular Biology-Section 3	Poster	Tyler Miksanek	From Stem Cell to Microphage: Global Nucleosome Changes During Hematopoietic Differentiation
Biochemistry & Molecular Biology-Section 4	Poster	Michael Das	Elevated Temperatures Induce Jasmonate-Regulated Insect-Defense Proteins in Tomato Plants
Biochemistry & Molecular Biology- Section 5	Poster	Brendyn SMith	Large Scale Biocatalysis of Phenylserine Analogues and Further Chemicals Derivatization Towards Potential LAT-1 Inhibitors
Biochemistry & Molecular Biology- Section 6	Poster	Brandon Oswald	Structural and Functional Assessment of PLIN3 Single Nucleotide Polymorphisms in the Lipid Binding Domain
Cell Biology, Genetics, & Genomics-Section 1	Poster	Miranda Ratusznik	Histological Analysis of a Dog Model for Isolated Cleft Palate
Cell Biology, Genetics, & Genomics-Section 2	Poster	Lauren Ulrich	The Effect of High Fat Diet on Mammary Cancer Development and Progression in Mice
Cell Biology, Genetics, & Genomics-Section 3	Poster	Cameron Cummings	Circadian Rhythms in the Heterokont Algae Nannochloropsis
Cell Biology, Genetics, & Genomics-Section 4	Poster	Julie Joseph	The Sunscreen Component Oxybenzone has an Estrogen-Like Effect in the Uterus of Mice
Integrative and Organismal Biology-Section 1	Oral	Cassie Dutcher	Decreased Mean Flight Initiation Distance When Feeding Recorded in Fox Squirrels and Humans
Integrative and Organismal Biology- Section 1	Poster	Amber Suto, Olivia Guswiler	Pain Mediates Prey Choice and Predatory Behavior in the Southern Grasshopper Mouse
Integrative and Organismal Biology-Section 2	Poster	Paul Sullivan	Vocal Analysis of Hooded Pitta Taxa
Integrative and Organismal Biology-Section 3	Poster	Brendan Vande Kieft	Modeling the Evolution of Migratory Behavior Using Virtual Agents
Microbiology, Immunology & Infectious Disease- Section 1	Oral	Jacob Greenberg	Quantification of Placental Exosomes During Pregnancy
Microbiology, Immunology & Infectious Disease-Section 1	Poster	Mitchell Zachos	Identifying Lichen Compounds that Enhance Tobramycin Killing of Pseudomonas Aeruginosa Biofilms
Microbiology, Immunology & Infectious Disease, Section 2	Poster	Christopher Rhoades	A Genetic Approach to Characterize the Novel Second Messenger Cyclic-GMP-AMP Dependent Regulation of Chemotaxis in Vibrio Cholerae
Microbiology, Immunology & Infectious Disease, Section 3	Poster	Patricia Glover	The Effect of a Major Sunscreen Component Oxybenzone, on Immune Cell Recruitment to the Mammary Gland
Microbiology, Immunology & Infectious Disease, Section 4	Poster	Keenan O'Dea	Isolation of Candidate Probiotic Bacteria from the Gastrointestinal Tract of C57BL/6 IL-10-/- Mice Protected from Campylobacter Jejuni-Induced Colitis
Microbiology, Immunology & Infectious Disease, Section 5	Poster	Harrison Quaal	Generation of Wolbachia Infected REL2 Transgenic Mosquito Lines
Microbiology, Immunology & Infectious Disease, Section 6	Poster	Jacob Amalio, Omar Abbas, Jai-Yi Chan, Nicole Hermes	Investigating the Microbiota of the MSU Eye-Washers in Different Departments
Microbiology, Immunology & Infectious Disease, Section 7	Poster	Brian Snyder	Role of the Group B Streptococcal NADH Peroxidase in Reactive Oxygen Stress Tolerance Within the Macrophages
Neuroscience-Section 1	Poster	Addy Wood, Derrick	The Science of Sonnets: An FRMI Investigation into the Neuroscience of

		Dwamena, Ben Horne	Reading
Neuroscience-Section 2	Poster	Audrey St Germain	Cocaine Dependent Alternations in Synaptic Morphology of Hippocampal Pyramidal Neurons
Neuroscience-Section 3	Poster	Kristian Wilks	The Effects of Social Shuffling During Puberty on Pubertal Cytogenesis and Behaviors in Adulthood
Physical Sciences- Section 1	Oral	Jack Walton	Electrochemical Analysis of Anticorrosive Coatings on Aluminum
Physical Sciences-Section 1	Poster	Jacob Crosby	HIRA 10 and Cosmic Rays
Physical Sciences-Section 2	Poster	Lilian Slajus	Understanding Martian Regolith Through Grain Surface Textures on Terrestrial Analogs
Physical Sciences-Section 3	Poster	Evan Ryan	Characterization of Potential Sources of Optical Backgrounds for the Development of a Single Atom Microscope
Physical Science- Section 4	Poster	Colton Kalman	Piezo-Actuator Installation on Becola Laser Line
Physical Science- Section 5	Poster	Jacob Bonessi	Felsic Volcanism: The Termination of Continental Flood Basalt Eruptions in the Midcontinent Rift
Toxicology-Section 1	Poster	Brooke Brauer	Methylmercury Exposure Alters AMPA Receptor Expression in Spinal Cord Slices of Mice Expressing the Human CU2+/ZN2+ Superoxide Dismutase Gene Mutation

SOCIAL SCIENCES

Category	Type	Student(s)	Project
Anthropology-Section 1	Oral	Alec Manaia	Qualitative Research Methods in Trinidad and Tobago
Anthropology-Section 1	Poster	Funmi Odumosu	Race, Risk, and Responsibility in a Diabetic Clinic
History, Political Science & Economics- Section 1	Oral	Jaazaniah Catterall	Alternative Historical Facts: The Importance of Accurate History, as Demonstrated by a Missing Meeting
History, Political Science & Economics- Section 2	Oral	Keiran Todd	Redeveloping Detroit: Examining Community-Inclusive Economic Development
History, Political Science & Economics- Section 3	Oral	Peyton DeRuiter	Counterculture, Bread, and the Rise of 'Do it Yourself': 1960-1970s
History, Political Science & Economics-Section 1	Poster	Elena Lentz	The Evolution of Executive Vetoes: 1792-2016
History, Political Science & Economics-Section 2	Poster	Kim Gannon	Evolutionary Justification for Overconfidence
History, Political Science & Economics- Section 3	Poster	Emily Muhich	Poisons in France and Anglo-Saxon England in the Decades Around the Norman Conquest
Psychology-Section 1	Poster	Azza Kineish, Claudia Fuderer, Parul Gupta	The Effect of Memory Strength and Decision Making Strategies on Eyewitness Identification
Psychology-Section 2	Poster	Kate Den Houter, Abigail Hishon, Amal Mohamed	Changes in Media Coverage on Policing: Investigating Tonality and Taints
Psychology-Section 3	Poster	Autumn Massey, Niccollete Russell	Artificial Sweeteners
Psychology-Section 4	Poster	Stacey Rowland, Alyssa Cleland, Klea Doko, Vixey Silva	Speech Understanding in Noise

Psychology-Section 5	Poster	Kelsey Pagorek, Trusha Patel	The Effects of B-Vitamins and Caffeine on Cognition
Social Science: General- Section 1	Oral	Sarah Wrase	Underground and Overlooked: America's Wastewater Infrastructure Crisis
Social Science: General-Section 1	Poster	Emily Jenkins	Regulations, Policies, and Voluntary Programs Addressing Non-Point Source Pollution in Lake Erie and Lake Champlain
Social Science: General-Section 2	Poster	Kaitlin Morain, Sahithi Chinnam	Is Emotional Expression Really Universal? Cultural and Gender Differences in Early Emotion Socialization
Social Science: General-Section 3	Poster	Bethany Dickerson	Gender Bias in Linguistics
Social Science: General-Section 4	Poster	Caroline Kane	It's All Just Childs Play, Yet It Changes as I Grow: How Parents' Role in Childs' Play Changes Over Time
Social Science: General- Section 5	Poster	Lauren Mileto, Brittany Brown, Emma Osterholzer	Physician Personal Beliefs Affecting Administration of In-Vitro Fertilization
Social Science: General- Section 6	Poster	Casie Wakeley	Shame, Guilt, and Antisocial Attitudes
Social Science: General- Section 7	Poster	Keeley Robinson	Gender Differences in Caregiving Roles of Siblings with ASD
Social Work-Section 1	Poster	Christina Callton, Emily Rau	Using the Geographic Information Systems Maps to Illustrate the Implications of CIT Training
Social Work-Section 2	Poster	Aleya Williams, Ryan Kunz	Intimate Partner Violence and Help Seeking Strategies in College Student Relationships
Toxicology- Section 1	Poster	Brooke Brauer	Methylmercury Exposure Alerts AMPA Receptor Expression in Spinal Chord Slices of Mice Expressing the Human CU2+/ZN2+ Superoxide Dismutase Gene Mutation