

**Office of Research Development and Administration
Award Report, August 2017**

\$327,714

Cathy Fleischer, English

National Council of Teachers of English (NCTE) (\$14,400)

National Council of Teachers of English (NCTE) Principles in Practice book: Annual Contract with NCTE to support Professor Fleischer's role as editor of NCTE journal Principles in Practice.

David Pawlowski, Physics and Astronomy

National Aeronautics and Space Administration, Sub-Award from University of Michigan (\$28,289)

Understanding the effects of solar flares on the upper atmospheres of Mars and Venus - year 2: Dr. Pawlowski's work will primarily focus on the development and use of the Mars Global Ionosphere-Thermosphere Model (M-GITM) as well as the Venus Global Ionosphere-Thermosphere Model (V-GITM). He will assist in the development of V-GITM, simulate the response to both realistic and idealized solar flare cases within M-GITM and V-GITM, work closely with other team members to compare results and observations that illustrate how traveling atmospheric disturbances facilitate the transport of energy and momentum throughout the Mars and Venus upper atmosphere, and model results and observational analysis.

Mary Motherwell, WEMU FM Public Radio

Corporation for Public Broadcasting (\$144,974)

WEMU Community Service Grant 10/01/2015-09/30/2017: Annual award for broadcasting Public Radio programs.

Stephanie Casey, Mathematics

National Science Foundation, Sub-Award from North Carolina State University (\$37,651)

Enhancing Statistics Teacher Education with E-Modules (ESTEEM): This project will push the discipline of mathematics teacher education and statistics education forward by utilizing free online resources (and/or entire modules) within traditional settings in university teacher preparation programs. The goals are: 1. Create online resources for infusing secondary mathematics teacher preparation programs with content focused on teaching; 2. Design modules and approaches to be used within teacher preparation programs; 3. Implement resources and modules in undergraduate courses and investigate students' learning and faculty implementation.

Jessica Alexander, Engage

Ann Arbor Area Community Foundation AAACF (\$2,400)

FLY Creativity Lab and Parkridge Community Center: FLY Creativity Lab is Ypsilanti's center of collaboration between kids and working artists, makers and educators. FLY is dedicated to growing our community's creative capacity by bringing experiences that empower kids to imagine, invent, and innovate. The power of creativity is the power of change. It is the power of knowing how to face challenges and nurture independent vision. It is the art of making things

happen. Programs are available to families throughout Washtenaw County.

Emad Tanbour, School of Engineering Technology

Ford Motor Company (\$50,000)

Virtual Reality Lab: The School of Engineering Technology Virtual Reality (VR) Lab at Eastern Michigan University will use VR technology to improve patient compartment design of ambulances. This project will use virtual prototyping and design revision of patient compartments. Requested funding will be used to add a fourth VR wall that is needed to conduct this work. The fourth VR wall facilitates the visualization of the ambulance compartment and allows the design improvement project to be conducted with high fidelity and realistic proportions.

Steve McGregor, School of Health Promotion and Human Performance

MKinetics (\$25,000)

University of Michigan, Michigan Corporate Relations Network (\$25,000)

Validation of Inertial Motion Unit (IMU) Based Portable Joint Range of Motion Sensor System: EMU will collect joint kinematics, optical motion capture, and IMU data to validate joint range of motion for an inertial motion unit and motion sensor system for MKinetics, a sports technology company with locations in Detroit and Pittsburgh.