**KENT STATE UNIVERSITY**  
**Research and Sponsored Programs**  
Paul DiCorleto, Vice President for Research

**EXTRAMURAL FUNDING REPORT**

<table>
<thead>
<tr>
<th>Funds awarded for</th>
<th>Total funding to date</th>
</tr>
</thead>
<tbody>
<tr>
<td>October - December, 2018</td>
<td>FY2018 - 2019</td>
</tr>
<tr>
<td>$5,053,103</td>
<td>$18,117,608</td>
</tr>
</tbody>
</table>

**Research**

Richard Adams, Sociology  
Subaward Geisinger Clinic /U.S. Department of Defense  
**Mental Health Disorders, Suicide Risk, and Treatment-Seeking Among Formerly Deployed National Guard and Reserve Service Members Seen in Non-VA Facilities**  
Continuation 09/01/18 - 08/31/19  
$12,000

Philip Bos, Liquid Crystal Institute/Physics  
Oculus VR, LLC  
**3D Holographic Alignment of LC and Potential Optical Elements**  
10/01/18 - 05/30/20  
$252,500

Philip Bos, Liquid Crystal Institute/Physics  
Oculus VR, LLC  
**Tunable Hybrid LC Lenses**  
10/01/18 - 06/30/20  
$232,500

Morgan Chaney, Anthropology  
American Society of Primatologists  
**Interrogating expression levels of cyanide-detectifying enzymes in the liver of Hapalemur griseus**  
07/01/18 - 11/06/19  
$1,500

L.C. Chien, Liquid Crystal Institute/Chemical Physics  
General Motors Holdings LLC  
**Liquid Crystal Device for Speckle Reduction (Speckle Reduction Component)**  
10/08/18 - 10/07/19  
$149,598

Karin Coifman, Psychology  
Douglas Delahanty, Psychology  
John Gunstad, Psychology  
National Institute of Mental Health  
**Unpacking Emotion Inflexibility and Prospective Prediction of Affective Disease**  
Continuation 01/01/19 - 12/31/19  
$569,073

Windy Cole, College of Podiatric Medicine  
Medline Industries Inc.  
**A case series evaluating a fibrillar collagen powder dressing to treat chronic, stalled lower-extremity wounds**  
10/02/18 - 03/01/20  
$45,000

Windy Cole, College of Podiatric Medicine  
SerenaGroup Inc.  
**Serena Group Moleculight Study**  
07/01/17 - 07/30/20  
$20,000

Jenny Cureton, Lifespan Development and Educational Sciences  
Association for Counselor Education and Supervision  
**Rust Beltians’ Experiences of Counselor Training, Development, and Practice**  
10/01/18 - 09/30/19  
$750
Derek Damron, Biological Sciences  
Subaward Case Western Reserve University /National Institutes of Health  
*Infrared Neuromodulation Reveals a New Understanding of Ganglion Organization*  
Continuation 09/01/18 - 08/31/19 $231,552

Qunxing Ding, East Liverpool  
Subaward University of Cincinnati /National Institute of Environmental Health Sciences  
*Developmental Effects of Manganese Exposure in Rural Adolescents: The CARES Cohort Comes of Age*  
Continuation 09/01/18 - 11/30/18 $1,444

Pamela Ferguson, Research and Evaluation Bureau  
Subaward University of Delaware /National Science Foundation  
*PIRE: Bio-Inspired Materials and Systems*  
Continuation 09/01/18 - 08/31/19 $58,659

Pamela Ferguson, Research and Evaluation Bureau  
Subaward University of Akron /U.S. Department of Education  
*NE Ohio ACHIEVE: Access to Curriculum & High Quality Instruction for Educators Valuing English Language Learners*  
Continuation 09/01/18 - 08/31/19 $17,604

John Fredieu, College of Podiatric Medicine  
Stephanie Belovich, College of Podiatric Medicine  
Mark Dalman, College of Podiatric Medicine  
OCPM Foundation  
*Additive manufacturing (3D Printing) and medical education*  
10/21/18 - 12/01/21 $48,300

David Fresco, Psychology  
Subaward Case Western Reserve University /National Institute of Nursing Research  
*SMART Center II Brain-Behavior Connections in Self-Management Science*  
Continuation 08/01/18 - 07/31/19 $26,168

Gregory Gibson, Sociology  
Richard Serpe, Sociology  
Anthony Vander Horst, Sociology  
Health Assessment Resource Center  
*Health Research and Assessment for Communities*  
10/22/18 - 12/31/19 $248,000

John Gunstad, Psychology  
Subaward Sanford Research /National Institute of Diabetes and Digestive and Kidney Diseases  
*Post-Surgical Predictors of Depression and Weight Regain After Bariatric Surgery*  
Continuation 07/01/18 - 08/31/19 $12,849

John Gunstad, Psychology  
Subaward North Dakota State University /National Institute of Diabetes and Digestive and Kidney Diseases  
*Mechanisms that Predict Weight Trajectory after Bariatric Surgery: The Interactive Roles of Behavior and Biology*  
Continuation 09/01/18 - 08/31/19 $12,666

Philip Hamrick, English  
Subaward Georgetown University /Tourette Association  
*Is procedural memory enhanced in Tourette Syndrome?*  
Continuation 10/01/18 - 09/30/19 $19,714

Torsten Hegmann, Liquid Crystal Institute/Chemical Physics  
Respivant Sciences, Inc.  
*Microscopy Investigations of Cromolyn Sodium Formulations*  
12/01/18 - 05/31/19 $20,694

John Hoornbeek, Health Policy Management  
Akron Children's Hospital  
*Risk Reduction Research Initiative - Agreement 2*  
Continuation 07/01/18 - 12/31/18 $44,954
<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Title</th>
<th>Start/End</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>John Hoornbeek</td>
<td>Health Policy Management</td>
<td>Risk Reduction Research Initiative - Agreement 2</td>
<td></td>
<td>$94,178</td>
</tr>
<tr>
<td>Akron Children's Hospital</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adam Jajtner</td>
<td>Health Sciences</td>
<td>The Effects of Three Different Types of Exercise on Immune Function</td>
<td>07/01/18 - 06/30/19</td>
<td>$15,000</td>
</tr>
<tr>
<td>Eliott Arroyo Delgado</td>
<td>Health Sciences</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Strength and Conditioning Association</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Institute of Mental Health</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aaron Jasnow</td>
<td>Psychology</td>
<td>Pathways regulating fear in the nucleus accumbens</td>
<td>12/10/18 - 12/09/21</td>
<td>$419,176</td>
</tr>
<tr>
<td>William Kalkhoff</td>
<td>Sociology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Joshua Pollock</td>
<td>Sociology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. Department of Army</td>
<td></td>
<td>Team Perception and Performance Under Threat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Deric Kenne</td>
<td>Health Policy Management</td>
<td>Medina County Aware (MCA)</td>
<td>11/30/18 - 11/29/19</td>
<td>$124,916</td>
</tr>
<tr>
<td>Substance Abuse and Mental Health Services Administration</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Woo-Yang Kim</td>
<td>Biological Sciences</td>
<td>Functional characterization of a causative gene for intellectual disability</td>
<td>09/15/18 - 02/28/18</td>
<td>$20,078</td>
</tr>
<tr>
<td>National Institute of Neurological Disorders and Stroke</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gary Koski</td>
<td>Biological Sciences</td>
<td>Correcting the Anti-HER-2 CD4 Th1 Response in Breast Cancer Therapy to Prevent Recurrence</td>
<td></td>
<td>$355,135</td>
</tr>
<tr>
<td>Subaward Lee Moffitt Cancer Center</td>
<td>U.S. Department of Army</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peter Leahy</td>
<td>Health Policy Management</td>
<td>Evaluation of STARS: Supporting Teachers &amp; Ready Students</td>
<td>11/15/18 - 11/30/19</td>
<td>$73,000</td>
</tr>
<tr>
<td>GAR Foundation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bjorn Lussem</td>
<td>Physics</td>
<td>Vertical Organic Light Emitting Transistors</td>
<td>10/01/18 - 09/30/19</td>
<td>$22,500</td>
</tr>
<tr>
<td>United States-Israel Binational Science Foundation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Julie Messing</td>
<td>LaunchNET/Libraries and Media Services</td>
<td></td>
<td>10/05/18 - 09/30/19</td>
<td>$15,000</td>
</tr>
<tr>
<td>Burton D. Morgan Foundation</td>
<td></td>
<td>Trustees Initiative</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ryan Miller</td>
<td>English</td>
<td>Enhancing technical and professional writing instruction and student performance through action research</td>
<td></td>
<td>$8,166</td>
</tr>
<tr>
<td>Subaward Carnegie Mellon University /Qatar National Research Foundation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Devin Mueller</td>
<td>Biological Sciences</td>
<td>Neural mechanisms underlying estradiol-enhanced extinction of cocaine seeking</td>
<td>11/16/18 - 05/31/19</td>
<td>$313,742</td>
</tr>
<tr>
<td>National Institute on Drug Abuse</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shawn Rohlin</td>
<td>Economics</td>
<td>Local Economic Multipliers: What we know, what we do not know, and new estimates from modern empirical techniques</td>
<td>09/04/18 - 07/31/19</td>
<td>$42,495</td>
</tr>
<tr>
<td>Subaward Marquette University /Charles Koch Foundation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Lydia Rose, East Liverpool
Subaward Ohio Organizing Collaborative / The Robert Wood Johnson Foundation
*Interdisciplinary Research Leader Participation to Produce Community-Relevant, Action-Oriented Research to Improve Health and Well-Being*

Scott Sheridan, Geography
Davey Tree Expert Company
*Davey Resource Group Internship for Kent State University Geography Student Andrews Boateng*

Scott Sheridan, Geography
Cameron Lee, Geography
National Aeronautics and Space Administration
*The Development of a Water Clarity Index for the Great Lakes as a Climate Indicator*

Ken Slenkovich, College of Public Health
Vinay Cheruvu, Biostatistics/Epidemiology/Environmental Health
Oriana House, Inc.
*Co-op with Oriana House, Inc. FY19*

Ken Slenkovich, College of Public Health
Madhav Bhatta, Biostatistics/Epidemiology/Environmental Health
Jeffrey Hallam, Social and Behavioral Sciences
Akron General Medical Center
*Co-ops with Akron General Medical Center FY19*

Mary Step, Social and Behavioral Sciences
Subaward The MetroHealth System / Health Resources and Services Administration
*Design and test of the positive peers mobile application for HIV care retention*

D Blake Stringer, College of Aeronautics and Engineering
Subaward Ohio Space Grant Consortium / National Aeronautics and Space Administration
*Kent State University Drone Design Competition Entry*

D Blake Stringer, College of Aeronautics and Engineering
Subaward Ohio Space Grant Consortium / National Aeronautics and Space Administration
*Kent State University High-Power Rocketry Design Competition Entry*

Hiroshi Yokoyama, Liquid Crystal Institute/Physics
National Aeronautics and Space Administration
*Structure and Dynamics of Monodisperse Liquid Crystal Domains created on Suspended, Molecularly-Thin Smectic Films using Sub-Femtoliter Inkjet Technology*

Hiroshi Yokoyama, Liquid Crystal Institute/Physics
TOYOTEch, LLC
*Development of novel reliability evaluation technology for smart windows*

Artem Zvavitch, Mathematics
Dmitry Ryabogin, Mathematics
National Science Foundation
*Conference "Recent Advances in Functional Analysis"*

**Instruction**
Other Sponsored Activity

Loretta Aller, Stark Campus
Austin-Bailey Health and Wellness Foundation
Enhancing Stark County Nursing Education for Patient Safety Using a Mobile Medication-Administration Simulation Cart

Nathan Hoxworth, Police Department
Attorney General of Ohio
KSU Police Body Armor Purchase

Annette Kratcoski, Education, Health, & Human Services
AT&T Inc. Fund
Girls 4STEAM

Roy Messing, Political Science
U.S. Department of Agriculture
The Cooperative Development Center at Kent State University

Jennifer O'Connell, Sexual & Relationship Violence Support Services
Subaward Ohio Attorney General /U.S. Department of Justice
Campus-Based Advocacy Support FY19

Linda Ohrn-McDaniel, Fashion Design and Merchandising
Burton D. Morgan Foundation
Fashion/Tech Hackathon - 2019 and 2020

Victor Pavona, Stark Campus
Ohio Development Services Agency
Stark County SBDC FY 2019 - State Funding

Stephen Schillig, Tuscarawas Campus
Ohio Development Services Agency
Tuscarawas SBDC FY19 - State Funding

Theresa Schwarz, Urban Design Center/Architecture and Environmental Design
St. Luke's Foundation
Making Our Own Space: Thriving Commercial Corridors

Theresa Schwarz, Urban Design Center/Architecture and Environmental Design
Katherine Slusher, Architecture and Environmental Design
The Cleveland Foundation
Creative Fusion: Detroit Superior Bridge and International Design Exchange

William Southards, College of Aeronautics and Engineering
Ohio Development Services Agency
Operation of a Small Business Development Center at KSU-CAEST FY2019 - State Funding
Amy Thomas, Ashtabula Campus
William Schultz, Ashtabula Campus
Subaward Eastgate Regional Council of Governments/Appalachian Regional Commission
Learning Commons Center Renovation

Wendy Turner, WKSU
Broadcast Educational Media Commission
Broadcast Educational Media Commission - continuation funding

Frans Eric Van Baars, Theatre and Dance
Cyrus Eaton Foundation
Porthouse College Academy 2019

COMPARATIVE DATA
Fiscal Year to Date

<table>
<thead>
<tr>
<th></th>
<th>FY 2017 - 2018</th>
<th>FY 2018 - 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Funding</td>
<td>$15,451,103</td>
<td>$18,117,608</td>
</tr>
<tr>
<td>Research</td>
<td>$9,231,241</td>
<td>$12,603,456</td>
</tr>
<tr>
<td>Instruction</td>
<td>$2,337,125</td>
<td>$1,477,747</td>
</tr>
<tr>
<td>Other Activity</td>
<td>$3,882,737</td>
<td>$4,036,405</td>
</tr>
</tbody>
</table>