The Office of Research and External Support (ORES) is a unit within the Office of Academic Affairs (OAA) that was created to serve the scholarly and creative activities of faculty, students, and staff. Our mission is to facilitate the procurement of external support through research grants, contracts, and technical assistance agreements; to administer internal support for research; and to document and publicize the scholarly achievements of members of the IPFW community.
The Office of Research and External Support is pleased to present the eighth annual report of research activities at IPFW. Total awards during the 2009–10 fiscal year exceeded $6.4 million, with applications for new funding exceeding $15.2 million.

Federal funding in support of research and student services activities represents an essential component of the university’s support, and for the fourth consecutive year, funding from federal sources represents the largest category of support received.

The continued growth in federal grant and contract activity is the result of a strategic plan to target funding sources that support the facilities and administrative costs of university operation. By contributing directly to the growth of the institution through their receipt of federal funding, our researchers are not only supporting their own work, but they are also making an essential contribution to the economy of northeast Indiana.

As a regional comprehensive university, IPFW is committed to providing both an outstanding educational experience for our students as well as supporting the creation of new knowledge through the scholarly achievements of our faculty. We invite you to take a moment to review the wide range of projects that have received extramural funding.

IPFW is deeply appreciative of the efforts of our faculty and staff who have so greatly contributed to the growth and success of our university and region.
T O T A L  G R A N T S  A N D  C O N T R A C T S
F I V E - Y E A R  H I S T O R Y

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009–10</td>
<td>$6,425,323</td>
</tr>
<tr>
<td>2008–09</td>
<td>$4,627,830</td>
</tr>
<tr>
<td>2007–08</td>
<td>$5,324,094</td>
</tr>
<tr>
<td>2006–07</td>
<td>$5,238,870</td>
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<td>2005–06</td>
<td>$5,576,698</td>
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</table>

G R A N T S  P E R  A C A D E M I C  U N I T
2009–10 PERCENT OF TOTAL

<table>
<thead>
<tr>
<th>College/School/Unit</th>
<th>Amount</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts and Sciences</td>
<td>1,488,739</td>
<td>23%</td>
</tr>
<tr>
<td>Medical Education</td>
<td>1,332,690</td>
<td>21%</td>
</tr>
<tr>
<td>Health and Human Services</td>
<td>1,084,842</td>
<td>17%</td>
</tr>
<tr>
<td>Vice Chancellor for Student Affairs</td>
<td>934,322</td>
<td>15%</td>
</tr>
<tr>
<td>Engineering, Technology, and Computer Science</td>
<td>860,899</td>
<td>13%</td>
</tr>
<tr>
<td>Education</td>
<td>251,869</td>
<td>4%</td>
</tr>
<tr>
<td>Vice Chancellor for Academic Affairs</td>
<td>192,972</td>
<td>3%</td>
</tr>
<tr>
<td>University Relations and Communications</td>
<td>166,319</td>
<td>2%</td>
</tr>
<tr>
<td>Richard T. Doerner School of Business</td>
<td>72,335</td>
<td>1.3%</td>
</tr>
<tr>
<td>and Management Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visual and Performing Arts</td>
<td>40,336</td>
<td>0.7%</td>
</tr>
<tr>
<td>Total</td>
<td>$6,425,323</td>
<td>100%</td>
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</tbody>
</table>
### Grant Sources

2009–10 Percent of Total

<table>
<thead>
<tr>
<th>Source</th>
<th>Amount</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal</td>
<td>2,974,585</td>
<td>46%</td>
</tr>
<tr>
<td>State</td>
<td>758,673</td>
<td>12%</td>
</tr>
<tr>
<td>Private</td>
<td>806,406</td>
<td>13%</td>
</tr>
<tr>
<td>Indiana University</td>
<td>683,516</td>
<td>11%</td>
</tr>
<tr>
<td>Other</td>
<td>970,669</td>
<td>15%</td>
</tr>
<tr>
<td>IPFW</td>
<td>169,474</td>
<td>2%</td>
</tr>
<tr>
<td>Purdue Research Foundation</td>
<td>62,000</td>
<td>1%</td>
</tr>
<tr>
<td>Total</td>
<td>$6,425,323</td>
<td>100%</td>
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</table>

### Grant Type Funded

2009–10 Success Rate

<table>
<thead>
<tr>
<th>Type</th>
<th>Number Submitted</th>
<th>Amount Requested</th>
<th>Number Funded</th>
<th>Amount Funded</th>
<th>Percent of Proposals Funded</th>
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<tbody>
<tr>
<td>Federal</td>
<td>50</td>
<td>10,423,624</td>
<td>22</td>
<td>2,974,585</td>
<td>44</td>
</tr>
<tr>
<td>State</td>
<td>11</td>
<td>805,219</td>
<td>11</td>
<td>758,673</td>
<td>100</td>
</tr>
<tr>
<td>Private</td>
<td>66</td>
<td>1,660,352</td>
<td>54</td>
<td>806,406</td>
<td>82</td>
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<tr>
<td>IPFW</td>
<td>100</td>
<td>413,974</td>
<td>70</td>
<td>169,474</td>
<td>70</td>
</tr>
<tr>
<td>IU/PRF</td>
<td>72</td>
<td>950,117</td>
<td>46</td>
<td>745,516</td>
<td>64</td>
</tr>
<tr>
<td>Other</td>
<td>13</td>
<td>970,669</td>
<td>13</td>
<td>970,669</td>
<td>100</td>
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<tr>
<td>Totals</td>
<td>312</td>
<td>$15,223,955</td>
<td>216</td>
<td>$6,425,323</td>
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Proposal Success Rate = 69.2%
### Funded Projects

<table>
<thead>
<tr>
<th>Recipient</th>
<th>Department</th>
<th>School/College</th>
<th>Project Title</th>
<th>Sponsor</th>
<th>Amount Funded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ahrens, Susan L.</td>
<td>Nursing</td>
<td>HHS</td>
<td>Advanced Practice Nurses Reaching Underserved Health Needs in Northeastern Indiana</td>
<td>Health Resources and Services Administration</td>
<td>$4,653</td>
</tr>
<tr>
<td>Alhassan, Mohammad and Ashur, Suleiman</td>
<td>Engineering</td>
<td>ETCS</td>
<td>Superiority and Constructability of Fibrous Additives for Bridge Deck Overlays</td>
<td>U.S. Department of Transportation/ Illinois Center for Transportation</td>
<td>$52,045</td>
</tr>
<tr>
<td>Drummond, Carl N.</td>
<td>Dean</td>
<td>A&amp;S</td>
<td>IPFW Strategic Languages Institute</td>
<td>U.S. Department of Education, Fund for the Improvement of Education</td>
<td>$260,000</td>
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<tr>
<td>Dehr, Karol and Moss, Glenda</td>
<td>English and Education</td>
<td>A&amp;S and EDUC</td>
<td>Appleseed Writing Project</td>
<td>National Writing Project</td>
<td>$46,000</td>
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<tr>
<td>Ericson, Karen L.</td>
<td>Chemistry</td>
<td>A&amp;S</td>
<td>Pyridoxic Acid Analysis</td>
<td>Wyle Laboratories/NASA</td>
<td>$24,431</td>
</tr>
<tr>
<td>Eroglu, Abdullah</td>
<td>Engineering</td>
<td>ETCS</td>
<td>Complete Simulation Model of Arc Localization for Plasma Systems</td>
<td>Oak Ridge National Laboratory</td>
<td>$13,800</td>
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<tr>
<td>Gillespie, Robert B.</td>
<td>Biology</td>
<td>A&amp;S</td>
<td>Ecological Assessment of Habitat and Aquatic Life in Cedar Creek in Support of the Conservation Effects Assessment Program</td>
<td>U.S. Department of Agriculture</td>
<td>$30,000</td>
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<tr>
<td>Gregg, Angela R.</td>
<td>Diversity and Multicultural Affairs</td>
<td>VCSA</td>
<td>IPFW Upward Bound</td>
<td>U.S. Department of Education</td>
<td>$250,000</td>
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<tr>
<td>Hilpert, Jonathon C.</td>
<td>Elementary Education</td>
<td>EDUC</td>
<td>Collaborative Research: Examining the Impact of the Freshman Teaching Academy on Engineering Student Future Time Perspective and Strategic Learning</td>
<td>National Science Foundation</td>
<td>$50,462</td>
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Masters, Mark F.
Physics
A&S
A Year-long Laser Festival for Outreach
National Science Foundation/American Physical Society
$7,000

McCrory, Kenric
Continuing Studies
VCAA
Northeast Indiana Small Business Development Center
Indiana Economic Development Corporation
$31,378

McCrory, Kenric
Continuing Studies
VCAA
2010 Renewal Northeast Indiana Small Business Development Center
U.S. Small Business Administration
$139,607

McCullough, Robert G.
Archaeological Survey/Anthropology
A&S
Intensive Survey of the Smith-Sutton Farm
U.S. Department of the Interior/Indiana Department of Natural Resources
$36,442

McCullough, Robert G.
Archaeological Survey/Anthropology
A&S
A Tenth Anniversary at Strawtown: Developing a Catalog of Late Prehistoric Structure Types
U.S. Department of the Interior/Indiana Department of Natural Resources
$40,623

Mueller, Donald W., with Cooklev, Todor; Oloomi, Hossein; Pomalaza-Raez, Carlos; Walter, Steven J.
Engineering
ETCS
Science Master’s Program: Concentration in Wireless Technology and Systems Engineering
National Science Foundation
$691,495

Visalli, Robert
Biology
A&S
Varicella-Zoster Virus Encapsidation Proteins
National Institutes of Health
$220,500

O’Connell, Kathleen
Behavioral Health and Family Studies Institute
HHS
Indiana Cares Youth Suicide Prevention Project
U.S. Department of Health and Human Services
$499,997

O’Connell, Kathleen
Behavioral Health and Family Studies Institute
HHS
Indiana Area Health Education Center Program
Health Resources and Services Administration
$90,000

O’Connell, Kathleen
Behavioral Health and Family Studies Institute
HHS
Promise Project—NW-AHECNE-AHEC
Indiana State Department of Health
$5,079
## Funded Projects

**State of Indiana**

### Recipient

- **Christmon, Kenneth**  
  Diversity and Multicultural Affairs  
  VCSA  
  Career and Technical Education Development Services  
  Indiana Department of Workforce Development  
  $147,403

### SCHOOLS/COLLEGES

### Project Title

### Sponsor

<table>
<thead>
<tr>
<th>Recipient</th>
<th>School/College</th>
<th>Project Title</th>
<th>Sponsor</th>
<th>Amount Funded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Christmon, Kenneth</td>
<td>VCSA</td>
<td>Diversity and Multicultural Affairs</td>
<td></td>
<td>$147,403</td>
</tr>
<tr>
<td>O’Connell, Kathleen</td>
<td>HHS</td>
<td>College Preparation Program through the IPFW NEI-AHEC</td>
<td>Behavioral Health and Family Studies Institute</td>
<td>$23,000</td>
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<tr>
<td>McCullough, Robert G.</td>
<td>A&amp;S</td>
<td>Phase II and III Investigations at Prophetstown State Park Pertaining to Wetland and Forest Mitigation for SR 25 Hoosier Heartland</td>
<td>Indiana Department of Transportation</td>
<td>$177,500</td>
</tr>
<tr>
<td>McCullough, Robert G.</td>
<td>A&amp;S</td>
<td>Archaeological Reconnaissance of Culbertson Mansion State Historic Site</td>
<td>Indiana Department of Natural Resources</td>
<td>$6,400</td>
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<tr>
<td>McCullough, Robert G.</td>
<td>A&amp;S</td>
<td>Archaeological Survey/Anthropology</td>
<td>Indiana Department of Natural Resources</td>
<td>$2,490</td>
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<td>McCullough, Robert G.</td>
<td>A&amp;S</td>
<td>Archaeological Survey/Anthropology</td>
<td>Indiana Department of Natural Resources</td>
<td>$17,490</td>
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<td>McCullough, Robert G.</td>
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<td>Indiana Department of Natural Resources</td>
<td>$61,054</td>
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<td>Gregg, Angela R.</td>
<td>VCSA</td>
<td>Summer Food Service Program</td>
<td>Indiana Department of Education</td>
<td>$21,905</td>
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<td>McCullough, Robert G.</td>
<td>A&amp;S</td>
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<td>Indiana Department of Natural Resources</td>
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<td>McCullough, Robert G.</td>
<td>A&amp;S</td>
<td>Archaeological Survey/Anthropology</td>
<td>Indiana Department of Natural Resources</td>
<td>$265,014</td>
</tr>
</tbody>
</table>

### KEY

- **A&S**: College of Arts and Sciences  
- **CHAN**: Chancellor  
- **DSBMS**: Richard T. Doomer School of Business and Management Sciences  
- **EDUC**: School of Education  
- **ETCS**: College of Engineering, Technology, and Computer Science  
- **HHS**: College of Health and Human Services  
- **PEA**: Division of Public and Environmental Affairs  
- **VCASA**: Vice Chancellor for Student Affairs  
- **VCSA**: Vice Chancellor for Academic Affairs  
- **VCSAA**: Vice Chancellor for Financial Affairs  
- **VPA**: College of Visual and Performing Arts

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**Notes:**
- The table provides a list of funded projects in Indiana, categorized by department and amount.
- The projects are funded by various departments and sponsors, including the Indiana Department of Workforce Development, the Indiana Department of Transportation, the Indiana Department of Natural Resources, the Indiana State Department of Health, and others.
- The projects cover a range of activities, including archaeology, education, and public health initiatives.
- The amounts funded vary significantly, with some projects receiving substantial funding, such as $177,500 for a project at the Indiana Department of Transportation.

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**Additional Information:**
- The projects are associated with various schools and colleges, including the College of Arts and Sciences, the School of Education, and the College of Health and Human Services.
- The table also includes key terms and abbreviations for the departments and organizations involved in the projects.

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**Sources:**
- Indiana University–Purdue University Fort Wayne
- State of Indiana

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**References:**
- Indiana University–Purdue University Fort Wayne
- State of Indiana


**Funded Projects**

**PRIVATE**

**Blumenthal, Elliott**  
Biology  
A&S  
Dental Study GSK T3450668, Second Phase  
University Park Research Center  
**$33,320**

**Blumenthal, Elliott**  
Biology  
A&S  
Dental Study GSK T3100646  
University Park Research Center  
**$49,500**

**Blumenthal, Elliott and Visalli, Robert**  
Biology  
A&S  
Clinical Efficacy of an Experimental Toothpaste  
University Park Research Center  
**$9,650**

**Bradley, Christopher**  
Sociology/Center for Social Research  
A&S  
Web Survey and Job Analysis #1 National Association of Forensic Counselors  
**$3,000**

**Cooklev, Todor**  
Wireless Technology Center  
ETCS  
New Digital Signal Processing Techniques in Multicarrier Modulation  
Software Engineering Research Center  
**$29,999**

**Dattilo, Benjamin F.**  
Geosciences  
A&S  
Testing Depositional Models Across an Upper Ordovician Facies Transition in Kentucky, Ohio, and Indiana  
American Chemical Society  
**$50,000**

**Gillespie, Robert B.**  
Biology  
A&S  
Characterization of Nearshore Fish Communities and Habitat in the Littoral Zone of Indiana Glacial Lakes with Respect to Shoreline Development  
Indiana Academy of Science  
**$2,500**

**Kingsbury, Bruce**  
Biology/Center for Reptile and Amphibian Conservation and Management  
A&S  
Technical Services for Herptofaunal Monitoring: Eastern Box Turtle and Eastern Massasauga Rattlesnake  
DLZ Michigan Inc.  
**$38,389**

**Lewis, Lyman**  
Management and Marketing  
DSBMS  
Palm Island Resort Business Strategy and Marketing Project Phase 1A  
Charlotte Harbor Land Company-Palm Island Resorts  
**$24,982**

**Lin, Paul**  
Computer & Electrical Engineering  
Technology and Information Systems & Technology  
ETCS  
ECET 490/ECET 491 Student Project  
America 2000 Safest Homes  
**$3,000**

**Liu, David Q.**  
Computer Science  
ETCS  
Consultation with PearlDiver Technologies Inc.  
PearlDiver Technologies Inc.  
**$910**

**Luo, Wei**  
Communication  
A&S  
Incorporating Service Learning into Intercultural Communication Curriculum  
Indiana Campus Compact  
**$2,250**
McCullough, Robert G.
Anthropology/Archaeological Survey
A&S
Geophysical Survey in the Tyner Cemetery in Marshall County, Indiana
Tyner Cemetery Association
$600

McCullough, Robert G.
Anthropology/Archaeological Survey
A&S
Archaeological Records Check and Reconnaissance in Westville, LaPorte County, Indiana
Housing Opportunities Inc.
$900

Moore, James S.
Dean
DSBMS
Student Project: Models to Forecast Scrap Metal Prices
Steel Dynamics Inc.
$5,653

Motz, John and David-West, Haig
Visual Communication and Design/Center for Industrial Innovation and Design
VPA
VCD-P454 Graphic Design VI
Student Project
DeKalb Molded Plastics
$3,000

Motz, John and David-West, Haig
Visual Communication and Design/Center for Industrial Innovation and Design
VPA
VCD-P454 Graphic Design VI
Student Project
Turnstone Center for Disabled Children and Adults
$2,000

Mustafa, Ahmed
Biology
A&S
Effects of Dietary Copper and Zinc on the Stress and Immune Response in Pacific White Shrimp
Novus International Inc.
$8,500

Niser, John
Consumer and Family Sciences
HHS
Palm Island Resort Business Strategy and Marketing Project Phase 2
Charlotte Harbor Land Company-Palm Island Resorts
$1,830

Recipient
Department
SCHOOL/COLLEGE
Project Title
Sponsor
Amount Funded

McCullough, Robert G.
Anthropology/Archaeological Survey
A&S
Inspection of Designated Parcels to Assess the Potential for Presence of Intact Archaeological Materials within Two Active Gravel Pits
Irving Gravel Company
$415

McCullough, Robert G.
Anthropology/Archaeological Survey
A&S
Archaeological Records Check and Archaeological Reconnaissance for Development of Six Mile Creek Trail in Fort Wayne, Indiana
Studio A of Indianapolis Inc.
$900

McCullough, Robert G.
Anthropology/Archaeological Survey
A&S
Records Check and Survey of Proposed Stockpile Location, Porter County, Indiana
Rieth-Riley Construction Co. Inc.
$1,000

McCullough, Robert G.
Anthropology/Archaeological Survey
A&S
Records Check for Phase 1a Water System Improvement
Eastern Bartholomew Water Corporation
$1,260

McCullough, Robert G.
Anthropology/Archaeological Survey
A&S
Records Check and Field Survey for Proposed Wastewater Treatment Plant
Lakeland Regional Sewer District
$1,555
<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
<th>Project Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paladin, Frank</td>
<td>Biology A&amp;S</td>
<td>Costa Rican Sea Turtles Earthwatch</td>
<td>$97,580</td>
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<tr>
<td>Putt, Mark</td>
<td>Health Science Research Center HHS</td>
<td>Laboratory Evaluations of Oral Care Products Phillips Oral Healthcare</td>
<td>$5,000</td>
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<tr>
<td>Putt, Mark</td>
<td>Health Science Research Center HHS</td>
<td>Laboratory Evaluations of Oral Care Products L. Perrigo Co.</td>
<td>$16,360</td>
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<tr>
<td>Putt, Mark</td>
<td>Health Science Research Center HHS</td>
<td>Laboratory Evaluations of Oral Care Products Johnson &amp; Johnson Consumer and Personal Products Worldwide</td>
<td>$106,570</td>
</tr>
<tr>
<td>Putt, Mark</td>
<td>Health Science Research Center HHS</td>
<td>Rat Dental Caries Evaluation of Experimental Fluoride Dentifrices Johnson &amp; Johnson Consumer and Personal Products Worldwide</td>
<td>$34,000</td>
</tr>
<tr>
<td>Sedlmeyer, Robert and Motz, John</td>
<td>Computer Science and Visual Communication and Design/Center for Industrial Innovation and Design ETCS/VPA CS Web Engineering and VCD Senior Project Antibus Scales and Systems</td>
<td>$4,000</td>
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</tr>
<tr>
<td>Sedlmeyer, Robert and Motz, John</td>
<td>Computer Science and Visual Communication and Design/Center for Industrial Innovation and Design ETCS/VPA CS Web Engineering and VCD Student Project Northeast Indiana Defense Industry Association</td>
<td>$4,000</td>
<td></td>
</tr>
<tr>
<td>Sharma, Maneesh and Miller, Geralyn</td>
<td>Accounting and Finance/Institute for Pension Plan Management DSBMS American Society of Pension Professionals Development Training Courses American Society of Pension Actuaries</td>
<td>$30,000</td>
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</tr>
<tr>
<td>Stafford, John</td>
<td>Community Research Institute EDUC</td>
<td>Assist Whitley County Economic Development Corporation with Website Updates Whitley County Economic Development Corporation</td>
<td>$6,500</td>
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<tr>
<td>Stafford, John</td>
<td>Community Research Institute EDUC</td>
<td>Technical Assistance for Measuring the Progress of the TOpS 2015 Initiative Northeast Indiana Foundation</td>
<td>$50,000</td>
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<tr>
<td>Stafford, John</td>
<td>Community Research Institute EDUC</td>
<td>Background Information on the Legal/Organization Structure of Economic Development Organizations in Northeast Indiana Northeast Indiana Corporate Council</td>
<td>$500</td>
</tr>
<tr>
<td>Stafford, John</td>
<td>Community Research Institute EDUC</td>
<td>Technical Assistance Regarding Legislative, Financial, and Operational Changes Resulting from Passage of HEA 1604–2008 Fort Wayne Capital Improvement Board of Managers</td>
<td>$10,000</td>
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<tr>
<td>Stafford, John</td>
<td>Community Research Institute EDUC</td>
<td>Phase II of Economic Development Website Target Industries Project Fort Wayne-Allen County Economic Development Alliance</td>
<td>$1,500</td>
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<tr>
<td>Stafford, John</td>
<td>Community Research Institute EDUC</td>
<td>Facilitate Board Retreat and Provide Historical Information Fort Wayne Downtown Improvement District</td>
<td>$500</td>
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</table>
Stafford, John  
Community Research Institute  
EDUC  
Preparation of Maps for the  
LaGrange County EDC Website  
LaGrange County Economic Development Corporation  
$2,000

Stafford, John  
Community Research Institute  
EDUC  
Preparation of Community Profile for  
LaGrange Co. Economic Development Corporation Website  
LaGrange County Economic Development Corporation  
$250

Stafford, John  
Community Research Institute  
EDUC  
Professional Planning Assistance in Conjunction with the Randallia Area Community Redevelopment Strategy  
Parkview Health Inc.  
$595

Stafford, John  
Community Research Institute  
EDUC  
Using an Enzymatic Technique to Reduce Membrane Fouling for Municipal Wastewater Reuse  
Northeast Indiana Foundation  
$4,000

Stafford, John  
Community Research Institute  
EDUC  
Preparation of Maps for the  
LaGrange County EDC Website  
LaGrange County Economic Development Corporation  
$2,000

Stafford, John  
Community Research Institute  
EDUC  
Web Site Updates for 2009 and 2010  
Fort Wayne Allen County Economic Development Alliance  
$6,000

Stafford, John  
Community Research Institute  
EDUC  
Preparation of Community Profile for LaGrange Co. Economic Development Corporation Website  
LaGrange County Economic Development Corporation  
$250

Stafford, John  
Community Research Institute  
EDUC  
Economic Analysis of the Honeywell Center on the Economy of Wabash County, Indiana  
Honeywell Foundation Inc.  
$7,000

Stafford, John  
Community Research Institute  
EDUC  
Economic Development Alliance Website Updates for 2009 and 2010  
Fort Wayne Allen County Economic Development Alliance  
$6,000

Summer grants for research enable faculty members to dedicate two full months to a research project during the summer. Both IPFW and the Purdue Research Foundation offer summer grants via competitive peer-reviewed processes. The grants are for $8,000 each.

**2010 IPFW Summer Faculty Grant Recipients**

**Borbieva, Noir**  
Anthropology  
A&S  
Development as Cultural Change: Ideologies of Freedom in the Kyrgyz Republic

**Chen, Dong**  
Engineering  
ETCS  
Using an Enzymatic Technique to Reduce Membrane Fouling for Municipal Wastewater Reuse
2010 Purdue Research Foundation Summer Faculty Grant Recipients

Chen, Chao
Engineering
ETCS
Improving the Performance of IEEE 802.15.4 Networks Under Interface

Eroglu, Abdullah
Engineering
ETCS
Novel Methods for High Frequency Materials

Fleming, Damian
English and Linguistics
A&S
Hebrew Matters: Jesus’ Name and the Power of the Vernacular in Anglo-Saxon England

Hanke, Steven A.
Accounting & Finance
DSBMS
Perceived Employer Shifting Mechanisms and Their Impact on the Equitability of the Employer Payroll Tax Burden

LaVere, Suzanne
History
A&S
Out of the Cloister: Scholastic Exegesis of the Song of Songs, 1100–1340

Quasim, Mohammad
Chemistry
A&S
Specificity of Fungus (Tritirachium album) Serine Proteinase

Roberts, Suin
International Languages and Culture Studies
A&S
Koreans or Germans? Hybrid Identity Construction of the Second Generation of Koreans in Germany

Odden, Harold L.
Anthropology
A&S
Social, Cultural, and Psychiatric Responses to Trauma: Samoa in the Aftermath of the September 29th (2009) Tsunami

Pinan-Llamas, Aranzazu
Geosciences
A&S
Lower Paleozoic Tectonic Evolution in Sierra de Quilmes, North Central Argentina

Ross, Jody
Psychology
A&S
A Comparison of Men’s and Women’s Use of Control in Violent Relationships

Webb-Sunderhaus, Sara
English and Linguistics
A&S
The First Year: Basic Writers and Retention

Wolfe, Briton
Computer Science
ETCS
Capturing Simple and Complex Knowledge in Predictive-State Models

Overseas Conference Fund grants are offered by IPFW, Indiana University’s Office of the Vice President for International Affairs, and the Purdue Research Foundation. These grants partially offset the costs for faculty members to present the results of their research in venues that gain international recognition for them and the university. This year 23 faculty members received awards totaling $29,590.

IPFW and other Indiana University or Purdue University internal grant programs: In addition to the overseas conference funds, IPFW and various IU or Purdue offices provided research support to 51 faculty members totaling $174,720.
**External Awards Sources**

Each of the following organizations provided grant or contract support to IPFW this year. Though some made multiple awards, each organization is listed only one time.

### Federal Agencies
- American Physical Society (National Science Foundation)
- Health Resources and Services Administration
- Indiana Economic Development Corporation
- Indiana Family Health Council Inc. (DHHS)
- National Institutes of Health
- National Writing Project
- Oak Ridge National Laboratory
- U.S. Department of Agriculture
- U.S. Department of Education
- U.S. Department of Health and Human Services
- U.S. Department of Interior (Indiana Department of Natural Resources)
- U.S. Department of Transportation (Illinois Center for Transportation)
- U.S. Small Business Administration
- Wyle Institute for Advanced Concepts (NASA)

### Indiana State Agencies
- Indiana Department of Education
- Indiana Department of Natural Resources
- Indiana Department of Transportation
- Indiana Division of Mental Health/Affiliated Service Providers of Indiana Inc.
- Indiana Small Business Development Center
- Indiana State Department of Health
- Indiana Workforce Development
- State Student Assistance Commission of Indiana

### University Offices/Programs
- IPFW Office of Academic Affairs
- IPFW Office of Research and External Support
- Indiana University Office of the Vice President for International Programs
- Indiana University Office of the Vice Provost for Research
- Indiana University School of Medicine
- Purdue Research Foundation

### Private Sources
- America 2000 Safest Homes
- American Chemical Society
- American Society of Pension Actuaries
- Antibus Scales and Systems
- AWS
- Charlotte Harbor Land Company-Palm Island Resorts
- Church & Dwight Co. Inc.
- Connor Prairie History Park
- DeKalb Molded Plastics
- Earthwatch Institute
- Eastern Bartholomew Water Corp.
- Fort Wayne-Allen County Economic Development Alliance
- Fort Wayne Capital Improvement Board of Managers
- Fort Wayne Downtown Development District
- Honeywell Foundation Inc.
- Housing Opportunities Inc.
- Indiana Academy of Science
- Indiana Campus Compact
- Irving Gravel Co.
- Johnson & Johnson Consumer and Personal Products Worldwide
- L. Perrigo Co.
- LaGrange County Economic Development Corp.
- Lakeland Regional Sewer District
- National Association of Forensic Counselors
- Northeast Indiana Corporate Council
- Northeast Indiana Defense Industry Association
- Northeast Indiana Foundation
- Northeast Indiana Regional Partnership
- Novus International Inc.
- Parkview Health Inc.
- Partners for Workforce Solutions
- PearlDiver Technologies Inc.
- Phillips Oral Healthcare
- Reith-Riley Construction Co. Inc.
- RF Alliance
- Robell Research Inc.
- Software Engineering Research Center
- St. Joseph River Watershed Initiative
- Steel Dynamics Inc.
- Studio A of Indianapolis Inc.
- Turnstone Center for Disabled Children and Adults
- Tyner Cemetery Association
- University Park Research Center
- Whitley County Economic Development Corp.
Indiana University–Purdue University Fort Wayne is the largest public university in northeast Indiana, offering more than 200 prestigious IU and Purdue degrees and certificates. More than 13,000 students of diverse ages, races, and nationalities pursue their education on our 682-acre campus. IPFW combines challenging academic programs with student-centered flexibility at an affordable price. The university’s exemplary standards in teaching and research provide unparalleled value for career preparation and professional development in an ever-changing global market. The university’s commitment to service makes it an economic, cultural, and societal leader in the region. IPFW is an Equal Opportunity/Equal Access University accredited by The Higher Learning Commission of the North Central Association of Colleges and Schools.
Faculty Accomplishments 2009

Office of Research and External Support

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