



PITTSBURGH STATE UNIVERSITY  
**RESEARCH AND GRANT  
OPPORTUNITIES**

FUNDING | SUPPORT  
**RESEARCH COLLOQUIUM**  
AWARDS | CONTACTS

Published fall 2014





# Contents

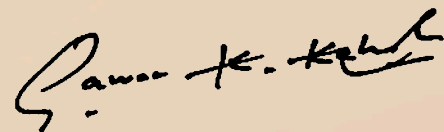
Dear Faculty,

Enclosed is information about research and sponsored projects at Pittsburg State University. The funding and awards described occur on an annual basis. I hope you will consider applying for funds to include students in research activities. Students in all disciplines can benefit from the active learning experience provided when conducting research.

Thank you to those faculty who include students in research projects and to faculty who apply for external funding to conduct research. It is through the efforts of faculty that research opportunities are possible.

Congratulations to those faculty who received funding and awards.

Sincerely,



Pawan Kahol  
Dean of Research

## Office of Graduate and Continuing Studies

112 Russ Hall • 1701 South Broadway • Pittsburg, KS 66762

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## PROPOSAL PREPARATION INCENTIVE

Submit a proposal for funding of at least \$15,000 and you can receive \$1,000 in professional development funds for one proposal every two years. Up to 10 proposal preparation incentives may be provided annually.

### 2013 - 2014 RECIPIENTS

**Dr. Jody Neef**, Chemistry

Ford Motor Co. Novel Materials Containing Thiophene Benzobisthiazole for \$61,928

**Dr. Alice Sagehorn**, Teaching & Leadership

US Department of ED Language and Culture in Paraguay Project for \$115,453

**Dr. Santimukul Santra**, Chemistry

NIH X-Ray and MR Image-Guided 3-Way Diagnosis and Targeted Endocrine Therapy of Breast Cancer Using an Innovative Multimodal Nanoplatform for \$336,744

**Dr. Cheryl Giefer**, Nursing

HRSA Advanced Education Nursing Trainingship for \$650,000

## SUMMER FACULTY RESEARCH FELLOWSHIPS

Pittsburg State University is committed to research and creative activities. These activities enhance the learning environment for students and help to distinguish the University as a center for excellence in its disciplines. The Summer Faculty Fellowship provides a \$5,000 stipend to the recipient. (Please be aware that the stipend provided by this fellowship, should one be awarded, is taxable income.)The function of this Fellowship is to allow faculty members engaged in research or in creative activities to devote intense thought and activity to a single project. Projects which involve consulting activity, the production of teaching aids, enhancement of teaching skills, practice of professional skills outside the academic environment, “retooling” for new teaching assignments, development of Internet courses or other curriculum development activities will not be considered. Up to four Summer Faculty Research Fellowships may be provided. The deadline for applications is the first Monday in December.

### 2013 - 2014 RECIPIENTS

**Dr. David Miller**, Engineering Technology

External Active Assist Knee Range of Motion Device

**Dr. Hermann Nonnenmacher**, Biology

A Study of the Promethea Moth in Southwest Missouri and Southeast Kansas

**Dr. Virginia Rider**, Biology

Estrogen and Gender Biased Autoimmunity

**Dr. Benjamin Tayo**, Physics

Two Dimensional Atomic Crystals and Their Heterostructures

## INDEPENDENT RESEARCH PROJECT FUNDING

Faculty may apply for up to \$2,000 to conduct an independent research project which includes students. The funds must be used for equipment or consumables needed for the project. Upon completion of the project, the faculty member must submit a report describing the project, the students’ activities related to the project and the outcomes of the project. Students involved in the project are required to present the findings at the PSU Research Colloquium. The application deadlines are the third Monday in September and the first Monday in February. Up to 10 projects may be awarded.

### 2013-2014 RECIPIENTS

**Dr. Sang-Heui Lee**, Management & Marketing

Independent Project, Impact of Individual Perceptibility on Behavior Change to Use New Information Systems: A Moderating Effect of Psychological Variables

**Dr. Jay Van Wyk & Dr. Sang-Heui Lee**, Management & Marketing

Independent Project, Impacts of Institutional Indices on Logistic Performance

## RESEARCH PROJECT FUNDING WITHIN A COURSE

Faculty may apply for up to \$1,000 to include a faculty mentored student research project in a course. The funds must be used for equipment or consumables needed for the project. Upon completion of the project the instructor must submit a report describing the project, the students’ activities related to the project and the outcomes of the project. Students involved in the project are required to present the findings at the PSU Research Colloquium. The application deadlines are the third Monday in September and the first Monday in February. Up to 10 projects may be awarded.

### 2013 - 2014 RECIPIENTS

**Rion Huffman**, Graphics & Imaging Technology

Do UV Brighteners in Paper Affect Design Choices in the Print Advertising Industry?

**Dr. David Miller**, Engineering Technology

Knee Rehabilitation Device and Moon Buggy Prototypes





# RESEARCH STIPENDS FOR STUDENTS

## 2013-2014 RECIPIENTS

**Austin Bailey**, mentored by Dr. Jody Neef  
Decaborane Salts for the Reduction of Corrosion in Nuclear  
Plants

Faculty may apply for up to \$1,000 to provide a stipend for a student to work on a faculty research project during the academic year. Students involved in the project are required to present the findings at the PSU Research Colloquium. The application deadlines are the third Monday in September and the first Monday in February. Up to 10 stipends may be awarded.

# STUDENT TRAVEL FUNDS TO PRESENT RESEARCH

## 2013-2014 RECIPIENTS

**Tara Burch**, Social Work  
Experiences of South Asian Immigrant Families Caring for a Child with a Developmental Disability in the USA at the 2013 Southwest Conference on Disability on October 11-13, 2013 in Albuquerque, New Mexico.

**Krystal Davis & Zachary Lynn**, Geography & Sustainability, Society & Resource Management  
Assessing and Evaluating environmental Literacy of University Freshmen at the National Applied Geography Conference on October 30 - November 1, 2013 in Annapolis, Maryland.

**Rachel Rider, Melisa Doura, Mary English, Miranda McCuistion**, Communication  
Using the Research Journal to Grant Agency and Encourage Reflexive Praxis at the Organization for the Study of Communication, Language and Gender on October 10-13, 2013 in Houghton, Michigan.

Faculty may apply for up to \$300 per student with a maximum of \$1,000 (per project) for students to present their undergraduate research project at professional meetings. Students must be listed as co-author and must be presenting project findings. Students involved in the project are required to present the findings at the PSU Research Colloquium.

**Natalia Schneider & Fabio Giacomelli**, Biology  
Plum Leaf Scald Disease at the Kansas Entomological Society on April 5, 2014 in Emporia, Kansas.

**Samantha Young**, Biology  
Sand Fly Trapping in Southeast Kansas at the 61st Annual Meeting of the Entomological Society of America on November 11-13, 2013 in Austin Texas.

**Samantha Young**, Biology  
Tall Thistle Pollination at the Kansas Entomological Society on April 5, 2014 in Emporia, Kansas.

# FACULTY MENTOR SUPPORT CONTRACT

## 2013-2014 RECIPIENTS

**Dr. Jody Neef**, Chemistry

The Faculty Mentor Support Contract is an agreement to provide support for faculty conducting independent undergraduate research projects. Faculty who enter into a contract receive \$2,500 of professional development funds or a one course reduction in their teaching load after providing research mentoring for eight undergraduate students. Students involved in the project are required to present the findings at the PSU Research Colloquium. Up to four contracts may be supported annually.





# MATCHING FUNDS

Research and Grant Administration will consider providing required matching funds for proposals and will assist faculty in collaborating with other departments to meet match requirements.

## 2013-2014 PROPOSALS

**Dr. Mike Carper**, Health, Human Performance & Recreation  
Kansas Health Foundation  
*The Effects of an 8-week Exercise Program on Measures of Health-Related Fitness in Overweight and Obese Children*  
\$4,840

**Dr. Ram Gupta**, Chemistry  
National Science Foundation  
*MRI: Acquisition of a Field Emission Scanning Electron Microscope*  
\$30,000

**Dr. Erik Mayer**, Engineering Technology  
Kansas NSF EPSCoR First Award Program - Kansas University  
*Development of an FPGA-Based Adaptable Peak Current-Mode Control*  
\$6,142

# GRANT WRITING WORKSHOPS

The cost to send faculty to grant writing workshops, including registration and travel costs, will be provided to improve the grant writing skills of faculty and encourage the submission of proposals for funding. Faculty who attend are expected to submit a proposal to an external funder within one year and make a short presentation about their workshop experience at a Faculty Research Brown bag Meeting.

## 2013-2014 RECIPIENTS

**Dr. Sunghee Choi**, Art  
Grant Writing USA Workshop July 18-19, 2013 in Tulsa, OK

**Dr. Sang Lee**, Management & Marketing  
Council for Undergraduate Research Dialogues February 20-22, 2014 in Washington D.C.

**Dr. Janet Zepernick**, English  
Grant Writing USA Workshop July 10-11, 2013 in Wichita, KS

# HANOVER GRANT CONSULTING

PSU has contracted with Hanover Grant Consulting Services to provide funder prospecting, proposal writing and proposal review services. These services are provided to assist faculty in developing big ideas into successfully funded projects.

## 2013-2014 COLLABORATORS

**Dr. Michael Davidsson**, Management & Marketing  
Prospecting Memo Business Innovation Research Center

**Dr. Ram Gupta**, Chemistry  
Proposal Review Kansas NSF EPSCoR Vertically Structured Nanorods of TiO2 and Graphene for High Performance Photovoltaic Devices

**Dr. Ram Gupta**, Chemistry  
Proposal Review NSF MRI-RUI Acquisition of A Field Emission Scanning Electron Microscope to Advance Education and Research at PSU

**Dr. Jame McAfee**, Chemistry  
Proposal Review NSF RUI: Polymer Sensor Array for the Detection of Explosives

**Dr. Jody Neef**, Chemistry  
Prospecting Memo Polymer Industry and Business Partnership Profiles

**Dr. Jody Neef**, Chemistry  
Prospecting Memo Plastics That Conduct Electricity

**Dr. Virginia Rider**, Biology  
Proposal Review NIH R15 Estrogen and Gender Biased Autoimmunity

**Dr. Santimukul Santra**, Chemistry  
Proposal Review NIH R21 X-Ray and MR Image-Guided 3-Way Diagnosis and Targeted Endocrine Therapy of Breast Cancer Using an Innovative Multimodal Nanoplatfrom

**Dr. Santimukul Santra**, Chemistry  
Prospecting Memo Multimodal Nanotheranostics

**Mr. Randy Winzer**, Engineering Technology  
Proposal Review NSF S-STEM Engineering Technology Scholarship Program

**Kansas Polymer Research Center**; Prospecting Memo

# OTHER RESEARCH ASSISTANCE

In addition to the incentives outlined above, Research Administration will consider providing funding for travel to meet with agency program officers and provides on campus proposal writing workshops.



# POSTER PRINTING FOR PRESENTATION

The cost of printing posters for presentation at professional meetings by PSU Printing and Design Services is provided. Send an e-mail stating the name, date and location of the conference along with the title of the poster to bpeery@pittstate.edu and receive prior approval for printing. PSU encourages the participation of faculty and students in the presentation of scholarly works. University Marketing can provide a template.

## 2013-2014 POSTERS

### **Esam Allehyani**, Chemistry

Electrochemical and Thermal Properties of Copolymers from 3-Phenyl[5] Ferrocenophane-1,5 3-Phenyl[5]Ferrocenophane-1,5-Dimethylene and Various Para Substituted Phenylmaleimides

### **Ahmed Alzharani**, Chemistry

Electrochemical and Thermal Properties of Copolymers from Vinylferrocene and Various Para Substituted Phenylmaleimides

### **Tara Burch**, Social Work

Experiences of South Asian Immigrant Families Caring for a Child with a Developmental Disability in the USA at the 2013 Southwest Conference on Disability on October 11-13, 2013 in Albuquerque, New Mexico.

### **John Candler**, Chemistry

Green Synthesis of Limonene Polyol and Its Application for Preparation of Rigid Polyurethane Foams

### **Tanner Cheney**, Chemistry

FT-IR Study of the Reactivity of Acetaldehyde with MgO Nanomaterial

### **Jonathon Cullison**, Chemistry

NMR and Computational Studies of Isosorbide and Isomannide

### **Krystal Davis & Zachary Lynn**, Geography & Sustainability, Society & Resource Management

Assessing and Evaluating Environmental Literacy of University Freshmen at the National Applied Geography Conference on October 30 - November 1, 2013 in Annapolis, Maryland.

### **Hannah DeVries & Trista Dugan**, Biology

Assessing the Role of a LIM5 Homologue on Actin Filament Structure in Physcomitrella Patens

### **Juan Gaucin**, Chemistry

Low Temperature FT-IR Studies of Adsorption of Acetaldehyde of Doped TiO<sub>2</sub> Nanomaterials: Role of Acid-Base Sites

### **Michael Giffin**, Chemistry

Effect of Thiophene Position on the Electronic Properties of Dithienyldibenzo[a,c]phenazine

### **Chris Hance**, Chemistry

Effects of Supporting Electrolyte on the Performance of Glucose Sensors from Vinylferrocene Copolymers

### **Dr. Amy Hite**, Nursing

Challenges of Course Redesign for Entry Level BSN Safety and Quality Curriculum

### **Dr. Amy Hite**, Nursing

The Gift of Life: An Empirical Examination of Altruism, Social Distance and Material Incentives Among International Nurse's Motivation for Non-Directed Kidney Donation

### **Dr. Amy Hite**, Nursing

Utilizing Simulation Scenarios in a Family Nurse Practitioner Curriculum to Improve Advanced Health Assessment Skills

### **Elias Mitchell**, Chemistry

Synthesis and Magnetic Nanoparticles for Biomedical Applications

### **Eli Mitchell**, Chemistry

Novel Technique to Synthesis Nanostructured Chromium Oxide

### **Dr. Santimukul Santra**, Chemistry

Multimodal Nanotheranostics for Targeted Drug Delivery, MR Imaging, Cancer Therapy and Early Detection of Infectious Diseases

### **Dr. Surif Uran**, Physics

SiO<sub>2</sub>/Graphene Surface

### **Joshua Yeomans**, Biology

Disruption of an SOS3 Homologue in Physcomitrella Patens

### **Samantha Young/Dr. David Gordon**, Biology

The Sand Fly Project

### **Siping Zhuang**, Chemistry

Computational Studies of Chromium Tricarbonyl and Other Species Adsorbed in Faujasite Zeolites





# KANSAS RESEARCH DAY AT THE CAPITOL

PSU students join students from other Kansas state universities in presenting their research posters to Kansas state legislators at the Capitol in Topeka, Kansas.

## 2013-2014 PRESENTERS

**Grace Anderson**, Biology (Graduate)

*Charcoal Rot Resistance in Transgenic Soybeans with Glucanase Gen Expression*

**Advisor:** Dr. Dan Zurek

**Kathleen Bishop**, Sociology (Undergraduate)

*The Gift of Life: An Empirical Examination of Altruism, Social Distance and Material Incentives Among International Nurse's Motivation for Non-Direct Kidney Donation*

**Advisor:** Dr. Harry Humphries

**Page Boydston**, Psychology & Counseling (Graduate)

*Effect of Perceptions of Autism on Participation in Parent Training*

**Advisor:** Dr. Sean Lauderdale

**Krystal Davis**, Geography (Undergraduate)

*Assessing and Evaluating Environmental Literacy of University Freshmen*

**Advisor:** Dr. Catherine Hooey

**Hilary D. Dicky, Lindsey Gordon**, Health, Human Performance & Recreation (Graduate)

*Comprehensive Fitness Assessments in College Aged Males and Females*

**Advisor:** Dr. Mike Leiker, Dr. Mike Carper

**Austin Feuerborn, Nick Praderio, Jacob Sanders**, Automotive Technology (Undergraduate)

*PSU Mini Baja*

**Advisor:** Trent Lindbloom

**Juan Diego Gaucin**, Chemistry (Undergraduate)

*FTIR Investigation of the Role of Acid-Based Sites Over Doped TiO<sub>2</sub>-Nanomaterials*

**Advisor:** Dr. Dilip Paul

**Shannon Jesberg, Whitney McCready**, Social Work (Undergraduate)

*Evaluation of Head Start Center's Family Support Services*

**Advisor:** Dr. Brad Cameron

**Samantha Meneely**, Biology (Graduate)

*Changes in Phosphorylation for Estrogen Receptor Alpha (ser 104/106, ser 118, ser 167) in Lupus Patients*

**Advisor:** Dr. Virginia Rider

**Elias Mitchell**, Chemistry (Undergraduate)

*Nanofibers of Hydroxyapatite Embedded Polyactic Acid for Biomedical Applications*

**Advisor:** Dr. Ram Gupta

**Mathew Reddick**, Chemistry (Undergraduate)

*Design and Synthesis of Novel Polymeric Nanotheranostics for the Targeted Imaging and Treatment of Cervical Cancer*

**Advisor:** Dr. Santimukul Santra

**Amrutha Varsha Tamanam**, Engineering Technology (Graduate)

*Development of an FPGA-Based Adaptable Peak Current-Mode Control*

**Advisor:** Dr. Erik Mayor

**Christopher Ward**, Biology (Undergraduate)

*Biochemical Kinetics in Characterization of Recombination Activation Gene 1*

**Advisor:** Dr. Mandy Peak

**Ashley Warner**, Teaching & Leadership (Undergraduate)

*Five Pre-Service Teachers' Observation, Analysis and Reflection*

**Advisor:** Dr. Sunghee Choi

**Samantha Young**, Biology (Undergraduate)

*Ecological Notes and Seasonal Activity of Sand Flies in Kansas*

**Advisor:** Dr. Dan Zurek



# PITTSBURGH STATE RESEARCH COLLOQUIUM

## 2013-2014 AWARD WINNERS

### CATEGORY A

**Sean McCartney**, Engineering Technology  
Graduate Research Presentation 1st Place  
*Adaption and Implementation of Building Information Modeling to Create a 3D Virtual PSU Model Construct of the PSU Campus for Improving Facilities Maintenance and for Use by Various Other Multiple Discipline Users*  
**Advisor:** Dennis Audo

**Samantha Meneely**, Biology  
Graduate Research Poster 1st Place  
*Changes in Phosphorylaction of Estrogen Receptor Alpha (Ser 104/106, ser 118, and ser 167) in Systemic Lupus Erythematosus Patients*  
**Advisor:** Dr. Virginia Rider

**Kalee Woody**, Chemistry  
Undergraduate Research Presentation 1st Place  
*Targeting PSMA-Receptors with Glutamate-Conjugated Magnetic Nanoparticles: Novel Nanotheranostics for the Treatment of Prostate Carcinomas*  
**Advisor:** Dr. Santimukul Santra

**Samantha Young**, Biology  
Undergraduate Poster 1st Place  
*Ecological Notes and Seasonal Activity of the First Population of Sand Flies (Diptera Psychodidae) Discovered in Kansas*  
**Advisor:** Dr. David Gordon

Every spring PSU celebrates the research, creative works, and other scholarly projects conducted by our students. Students may enter their projects in oral presentations and/or poster presentations. Awards are given to graduate and undergraduate students in each of the following categories: Category A: Science and Technology, Category B: Business, Education and Humanities, Category C: Creative Works and Category D: Literature Review Poster Presentations.

**Kalee Woody**, Biology  
Undergraduate Research Poster 2nd Place  
*Targeting PSMA-Receptors with Glutamate-Conjugated Magnetic Nanoparticles: Novel Nanotheranostics for the Treatment of Prostate Carcinomas*  
**Advisor:** Biology/Dr. Santimukul Santra

**Rachel Miller**, Chemistry  
Undergraduate Research Poster 3rd Place (tie)  
*Continuous Research About the Highly Pathogenic Avian Influenza, H5N1 Virus*  
**Advisor:** Dr. Xiaolu Wu

**Emily Wilson**, Chemistry  
Undergraduate Research Poster 3rd Place (tie)  
*Euryarchaeal Histones From Two Organisms Form a Physiologically Functional Hetero-Tetramer*  
**Advisors:** Dr. James McAfee, Dr. Irene Zegar

**Blaze Heckert**, Biology  
Undergraduate Research Poster 3rd Place (tie)  
*Designer Polymeric Nanotheranostics for the Detection and Treatment of Cancer*  
**Advisor:** Dr. Santimukul Santra

### CATEGORY B

**Jordan Adams**, History  
Graduate Research Presentation 1st Place  
*Once More Unto the Breach: The Local History of Three American Wars*  
**Advisor:** Dr. Kristin Lawson

**Ben Loats**, Economics  
Undergraduate Research Presentation 1st Place  
*Foreign Direct Investment into a Least Developed Country*  
**Advisor:** Dr. Anil Lal

**Matthew Gallagher & Andrea Ashbacher**, Communication  
Undergraduate Research Presentation 2nd Place  
*Exploring the Format of Inoculation Treatments: How Tactical Form Moderates Inoculation Message Treatment Effectiveness*  
**Advisor:** Dr. Alicia Mason

**Katie Rennie, Kurston Zeiler & Carl Smith**, Psychology  
Undergraduate Research Poster 1st Place  
*Intolerance of Uncertainty and Looming Cognitive Style Mediates Attention Control and Avoidance*  
**Advisor:** Dr. Sean Lauderdale

### CATEGORY C

**Jenna Spencer**, Art  
Undergraduate Research Poster 1st Place  
*The Art of Dance*  
**Advisor:** Rhona Shand

### CATEGORY D

**Erin Martin**, Nursing  
Undergraduate Research Poster 1st Place  
*Pregnant Travelers and Malarial Infections*  
**Advisor:** Dr. Barbara McClaskey

## FACULTY RECOGNITION AWARDS

Each spring, at the Graduate School and Research Awards Banquet, faculty members are recognized for their contribution to research. Awards are presented for Outstanding Faculty Scholarship and Outstanding Undergraduate Research Mentor.

## 2013-2014 RECIPIENTS

**Dr. Zoran Petrovic**, Chemistry  
Outstanding Faculty Scholarship Award

**Dr. Kris Lawson**, History  
Outstanding Undergraduate Research Mentor Award



# PROPOSAL SUBMISSIONS

## 2013-2014 SUBMISSIONS

Finding additional funding to assist PSU in fulfilling the university’s mission is vital to the continued improvement of PSU. Thank you to all the faculty and staff who submitted proposals for external funding.

**Tom Amershek & Paul Stewart,** Administration  
Westar Energy  
*PSU-Westar Solar Array Project*  
\$79,668

**Dr. Daniel Betti,** HPSS  
NEH  
*What is the Number of God?*  
\$22,000

**Dr. Michael Carper,** HHPR  
KS Health Foundation  
*The Effects of an 8-Week Exercise Program on Measures of Health-Related Fitness in Overweight Obese Children*  
\$20,000

**Dr. Ann George,** Teaching & Leadership  
US Dept. of ED  
*i3 Together Everyone Achieves More*  
\$3,437,837

**Dr. Cheryl Giefer,** Nursing  
NIH-HRSA  
*Advanced Education Nursing Traineeship*  
\$650,000

**Dr. Ram Gupta,** Chemistry  
K-INBRE  
*Bioactive Polymeric Coatings on Magnesium for Biodegradable Metallic Implants*  
\$28,747

**Dr. Ram Gupta,** Chemistry  
NSF  
*MRI: Acquisition of a Field Emission Scanning Electron Microscope*  
\$427,568

**Dr. Ram Gupta,** Chemistry  
KS NSF EPSCoR  
*Vertically Structured Nanorods of TiO2 and Graphene for High Performance*  
\$100,000

**Joe Levens,** Construction  
AGC of America Education and Research Foundation  
*Implementation of Lean Construction Practices in Managing Construction Projects*  
\$9,000

**Dr. Ivan Javni,** KPRC  
Smithbucklin Corp.  
*High Performance Glycerin-based Polyols*  
\$75,000

**Dr. Ivan Javni,** KPRC  
Smithbucklin Corp.  
*Soybean Oil Based Plyurethanes by Non-*  
\$70,000

**JT Knoll,** Student Prevention  
KU/HHS  
*Grant to Expand Care Coordination*  
\$8,200

**Dr. Jim Lookadoo,** Engineering  
Technology  
WSU/KS NASA  
*2014 PSU Participation in NASA KS*  
\$19,910

**Dr. Alicia Mason,** Communication  
OU/NSF  
*WSC-Category 1: Collaborative Research*  
\$200,000

**Dr. Erik Mayer,** Engineering Technology  
NSF  
*Development of an FPGA-Based Adaptable Peak Current-Mode Control*  
\$240,818

**Dr. Andrew Myers,** KPRC  
Greenbush/US ED  
*Polymer Sustainability Project*  
\$500,000

**Dr. Jody Neef,** Chemistry  
American Chemical Society  
*Synthesis and Characterization of Novel Polythiophenes for Gas Sensing Application*  
\$55,000

**Dr. Jody Neef,** Chemistry  
NSF  
*RUI: Synthesis and Characterization of Benzobisazole Containing Polythiophenes*  
\$118,424

**Dr. Jody Neef,** Chemistry  
KS NSF EPSCoR  
*Composites Derived From CNTs and Copolymers Containing Vinylferrocenes with Pyrene Substituted Maleimides as Electron Acceptors for Photovoltaic Applications*  
\$37,359

**Dr. Jody Neef,** Chemistry  
Dreyfus Foundation  
*2014 Jean Dreyfus Boissevain Lectureship for Undergraduate Institutes*  
\$18,500

**Dr. Jody Neef,** Chemistry  
Ford Motor Co.  
*Novel Materials Containing Thiophene Benzobisthiazole*  
\$61,928

**Dr. Virginia Rider,** Biology  
NSF  
*Prelim RUI Endocrine Control of Maternal Tolerance*  
\$200,000

**Dr. Virginia Rider,** Biology  
K-INBRE  
*K-INBRE Undergraduate Coordinator Office*  
\$53,833

**Dr. Virginia Rider,** Biology  
K-INBRE  
*Star Trainee: Blaze Heckert*  
\$8,671

**Dr. Virginia Rider,** Biology  
K-INBRE  
*Undergraduate Coordinator Office Campus Coordinator Award*  
\$10,000

**Dr. Virginia Rider,** Biology  
K-INBRE  
*Summer Scholars: DeVries, Miller, Thompson, Westby, Woody*  
\$24,575

**Dr. Virginia Rider,** Biology  
K-INBRE  
*Carryover Funds*  
\$23,524

**Dr. Virginia Rider,** Biology  
NIH: R15  
*Estrogen and Gender Biased Autoimmunity*  
\$350,000

**Dr. Alice Sagehorn,** Teaching & Leadership  
OSU/US Dept. of ED  
*Transitions to Teaching*  
\$5,832

**Dr. Alice Sagehorn,** Teaching & Leadership  
KSDE/US Dept. of ED  
*Scaling Up Technical Assistance System Coordination and Evaluation*  
\$339,369

**Dr. Alice Sagehorn,** Teaching & Leadership  
KBOR/US Dept. of ED  
*Ensuring Academic Achievement by Increasing Reacher Quality in STEM*  
\$167,440

**Dr. Santimukul Santra,** Chemistry  
MO Soybean Merchandising  
*Introducing Soybean Based Anti-oxidant and Theranostic Nanogels for Human Health*  
\$100,000

**Dr. Santimukul Santra,** Chemistry  
KS Soybean Commission  
*Introducing Soybean Based Theranostic Nanomedicines for the Targeted X-Ray/CT and Treatment of Cancers*  
\$100,000

**Dr. Santimukul Santra,** Chemistry  
K-INBRE  
*Development of Novel Sulfur-Containing Theranostic Nanomedicines for the Targeted X-Ray/CT Imaging and Treatment of Cancer*  
\$29,046

**Dr. Santimukul Santra,** Chemistry  
NIH: NIBIB  
*X-Ray and MR Image-Guided Targeted Endocrine Therapy of Cancer Using an Innovative Multimodal Nanoplatform*  
\$244,744

**Dr. Santimukul Santra,** Chemistry  
NIH: R21  
*X-Ray and MR Image-Guided 3-Way Diagnosis and Targeted Endocrine Therapy of Breast Cancer Using an Innovative Multimodal Nanoplatform*  
\$310,000

**Dr. Smith Dixie,** Biology  
Grand River Dam Authority  
*Lake Hudson Kreeel Survey*  
\$37,897

**Dr. Uran Serif,** Physics  
KU/US Dept. of Energy  
*Two-Dimensional Crystals and Their Heterostructures*  
\$228,215

**Akram Taghavi Burris,** Graphics & Imaging Technology  
OCLC/ALISE Library  
*Information Seeking and Building Through ...*  
\$12,000

**Dr. Benjamin Tayo,** Physics  
KU/US Dept. of Energy  
*Two-Dimensional Crystals and Their Heterostructures*  
\$209,677

**Randy Winzer & Seth O'Brien,** Engineering Technology  
NSF S-STEM  
*Engineering Technology Scholarship Program*  
\$599,998

**Alisa Zlatanic,** KPRC  
Kansas Soybean Commission  
*Preparation of High Oleic Soybean Oil by Selective Hydrogenation*  
\$50,000



# COUNCIL FOR DISCOVERY & RESEARCH

The Council for Discovery and Research is the liaison between academic department and research administration. The goals of the Council are: 1) Foster an environment that encourages the production of high quality research across all disciplines represented across the University; 2) Promote and support the publication and presentation of scholarly work; 3) Enhance the receipt of external funding to support research and scholarly activities; 4) Promote the integration of research in teaching and learning; and 5) Increase the visibility and recognition of our scholarly activities.

## 2013-2014 MEMBERS

Chair <b>Dr. Pawan Kahol</b>	English <b>Dr. Casie Hermansson</b> <b>Dr. Paul McCallum</b>	Management & Marketing <b>Dr. Choong Lee</b>
Grants Coordinator <b>Brian Peery</b>	Family & Consumer Sciences <b>Dr. Amber Tankersley</b>	Mathematics <b>Dr. Ananda Jayawardhana</b>
Accounting & Comp Info Systems <b>Dr. Steve Del Vecchio</b>	Government Relations <b>Sean Naccarato</b>	Modern Languages & Literatures <b>Dr. Eric Rojas</b>
Art <b>Emi Gennis</b>	Graphics & Imaging Technologies <b>Rion Huffman</b>	Music <b>David Hurley</b>
Automotive Technology <b>Dr. Tim Dell</b>	Health, Human Performance & Recreation <b>Dr. Michael Carper</b>	Nursing <b>Dr. Cheryl Giefer</b>
Biology <b>Dr. Virginia Rider</b>	History, Philosophy & Social Science <b>Dr. Harry Humphries</b>	Physics <b>Dr. Ben Tayo</b>
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Engineering Technology <b>Dr. Russ Rosmait</b>		

# RESEARCH ADMINISTRATION CONTACT INFORMATION

<b>Brian Peery</b> Grants Coordinator <i>bpeery@pittstate.edu</i> 620 • 235 • 4175	<b>Dr. Pawan Kahol</b> Chair, Council for Discovery & Research Dean, Graduate & Continuing Studies Dean of Research <i>pkahol@pittstate.edu</i> 620 • 235 • 4222
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**Office of Graduate and Continuing Studies**  
112 Russ Hall • 1701 South Broadway • Pittsburg, KS 66762



