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Schedule and Abstracts

2015 Research Colloquium

Spring 2015

2015 Research Colloquium Schedule

Pittsburg State University

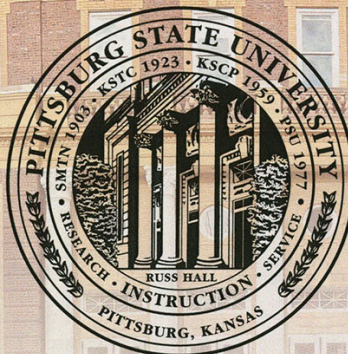
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2015 Research Colloquium



Please join the Dean of Graduate Studies, Dr. Kahol for the opening ceremony at 8:00 a.m. at Bicknell Family Center for the Arts for coffee and refreshments.

Colloquium winners will be announced and awards given at the Graduate School and Research Awards Banquet on April 15, 2015 at 6:00 p.m. in the Weede Physical Education Building.

Tickets can be purchased in the Graduate and Continuing Studies office, 112 Russ Hall. Purchase tickets by April 9th

Colloquium Judges:

- | | | |
|-------------------|--------------------|-----------------|
| • Santi Santra | • Jody Neef | • Melisa Rogers |
| • Joe Arruda | • Serif Uran | • John Daley |
| • Virginia Rider | • Amy Hite | • Alicia Mason |
| • Benjamin Tayo | • Jeanea Lambeth | • Barbara Pope |
| • Chuck Blatchley | • Portico Bowman | • KPRC |
| • Rebecca Butler | • Marjorie Donovan | |
-

sponsored by:

Pittsburg State University
Graduate School

PRESENTATION SCHEDULE

Wednesday, April 8, 2015

Category A
Science & Technology
Room: Dean VIP Room, 2nd Floor

9:00 - 10:00 a.m.

- Presenter:** Zachary Hunt, Tyler Ford, Kirk Smith, Fred Gladbach and David Reddick (Undergraduate)
Research Title: *BodyWeight Support*
Major: Engineering Technology
Advisor: David Miller
- Presenter:** Siddhart Rebbapragada (Undergraduate)
Research Title: *Two Dimensional Novel Materials*
Major: Physics
Advisor: Dr. Serif Uran
- Presenter:** Brendan Herrera, Kyle Ragan, Jeremy McLennan, Aaron Noack, Nick Crain and Tyler Casteel (Undergraduate)
Research Title: *Metal Mold Development for Aluminum Casting*
Major: Engineering Technology
Advisor: Dr. Russell Rosmait
- Presenter:** Felipe D. Souza (Undergraduate)
Research Title: *Nanostructured and Ferromagnetic Iron Oxides for Energy Storage Applications*
Major: Chemistry
Advisor: Ram K. Gupta
- Presenter:** Minh Bui* (Undergraduate)
Research Title: *Time Series Analysis in American Air Passengers*
Major: Mathematics
Advisor: Dr. Jay Wandhana

10:00 - 11:00 a.m.

- Presenter:** Deaven Thompson* (Undergraduate)
Research Title: *Functional Magnetic Nanoprobes: Novel Nanotheranostics for the Treatment of Prostate Carcinomas*
Major: Biology
Advisor: Dr. Santimukul Santra
- Presenter:** Blaze Heckert* (Undergraduate)
Research Title: *Inhibitor-Induced Combination Therapy of K-Ras Driven NSCLC*
Major: Biology
Advisor: Dr. Santimukul Santra
- Presenter:** Ali Alahmari, Jennifer Bradley, Aries Herrion, Nick Miller, Thomas Vanbecdacre and Rafael Vasquez* (Undergraduate)
Research Title: *PSU Society of Automotive Engineers Formula Competition*
Major: Engineering Technology
Advisor: Tim Thomas
- Presenter:** Anuradha Bhusri* (Graduate)
Research Title: *Dead End Homologue (DND1) Protein and its Target mRNA is Influenced by Age and Estradiol in Normal and Systemic Lupus Erythematosus (SLE) T Cells*
Major: Biology
Advisor: Dr. Virginia Rider
- Presenter:** Fabio Giacomelli* (Graduate)
Research Title: *Small Mammals From Three Different Habitats In Mined Land Wildlife Area In Crawford and Cherokee Counties, Kansas*
Major: Biology
Advisor: Dr. Steven Ford

10:00 - 11:00 a.m.

- Presenter:** Benthara Hewage Dinushi Jayatunga (Graduate)
Research Title: *Spin Coating as a Technique for Optimizing the Power Conversion Efficiency of Dye Sensitized Solar Cells*
Major: Physics
Advisor: Dr. Benjamin Tayo

11:00 a.m - 12:00 p.m.

- Presenter:** Lakshman Kishore Muppuri* (Graduate)
Research Title: *Gaming and Learning*
Major: Industrial Technology
Advisor: Dr. MeLisa Rogers
- Presenter:** Jyothi Kallu* (Graduate)
Research Title: *Non-Small-Cell-Lung-Cancer Treatment Using Hsp90 Inhibitor Caring Magnetic Nanotheranostics*
Major: Polymer Chemistry
Advisor: Dr. Santimukul Santra
- Presenter:** N. Elbers (Graduate)
Research Title: *Novel Polyurethane Foams Derived From Bio-Based Materials*
Major: Chemistry
Advisor: Ram K. Gupta
- Presenter:** Srividhya Balaji (Graduate)
Research Title: *Exploration of Quotient Spaces and Group Actions, with Applications to Visualizing Music*
Major: Mathematics
Advisor: Dr. Scott Van Thuong
- Presenter:** Chathuri Silva (Graduate)
Research Title: *Liquid Exfoliation Study on Graphene*
Major: Physics
Advisor: Dr. Serif Uran

1:00 - 2:00 p.m.

- Presenter:** Shoukath Sulthana* (Graduate)
Research Title: *Innovative Anti-Oxidant Nanoceria for the Early Diagnosis & Treatment of Lung Cancer*
Major: Polymer Chemistry
Advisor: Dr. Santimukul Santra
- Presenter:** Sean McCartney* (Graduate)
Research Title: *An Update to the Adaptation 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*
Major: Engineering Technology
Advisor: Dennis Audio
- Presenter:** Jacob Heil (Graduate)
Research Title: *Comparing Changes in Plant Functional Diversity Over 31 Years of Community Development*
Major: Biology
Advisor: Dixie Smith

*Also presenting at Poster Session

Categories

B: Business, Education, and Humanities

C: Arts

Category B and C Room: Miller Theater

9:00 - 10:00 a.m.

- Presenter: **Valquiria Vita** (Graduate)
Research Title: *Behind the Wheel: A Qualitative Study of Saudi Women's Right to Drive*
Major: Communication
Advisor: Dr. Shirley Drew
- Presenter: **Wei-Chen Lin** (Graduate)
Research Title: *Investigating Taiwan's PTT Gossiping Board and Its Influence on Citizenship*
Major: Communication
Advisor: Joey Pogue
- Presenter: **Alexis Williams** (Undergraduate)
Research Title: *Correlations Between Crime Rates in US Cities, and the Popularity of Rap and Hip-Hop Music*
Major: Economics
Advisor: Dr. Cal
- Presenter: **Danielle Ackermann** (Undergraduate)
Research Title: *Factors Impacting the US Housing Market*
Major: Marketing and Economic
Advisor: Dr. Lai

10:00 - 11:00 a.m.

- Presenter: **Crystal Taylor** (Undergraduate)
Research Title: *Framing Fracking*
Major: Communication + Music Emphasis
Advisor: Dr. A.M. Mason
- Presenter: **Jose Contreras and Mollie Wesley** (Undergraduate)
Research Title: *Supporters, Activists, and Partners: Strategies to Forge Stakeholders Partnerships and Optimize Environmental Community Outreach Programs*
Major: Communication
Advisor: Dr. Alicia Mason
- Presenter: **Laura Lambert** (Undergraduate)
Research Title: *Media Effect on the 2014 Ebola Outbreak*
Major: Communication
Advisor: Dr. Alicia Mason
- Presenter: **Elizabeth Spencer** (Undergraduate)
Research Title: *A Cross Cultural Comparison of Visual Images Within Alzheimer's Care Facility Websites*
Major: Communication
Advisor: Dr. Alicia Mason

11:00 a.m - 12:30 p.m.

- Presenter: **Hannah Walker** (Graduate)
Research Title: *Analyzing Stevie Smith & Religion With Digital Humanities*
Major: English
Advisor: Dr. Jamie McDaniel
- Presenter: **Kacie Cooper** (Graduate)
Research Title: *Repentant, Redeemed & Reformed: Moll Flanders as a Clockwork Orange*
Major: English
Advisor: Dr. Jamie McDaniel
- Presenter: **Richard Glenn Storey** (Graduate)
Research Title: *Language Usage and Thematic Roles of Shakespearean Plays & Poems*
Major: English
Advisor: Dr. Jamie McDaniel
- Presenter: **Anna Hinton** (Graduate)
Research Title: *Moll Flanders: A Narrative Sociopath*
Major: English
Advisor: Dr. Jamie McDaniel
- Presenter: **Michelle Gorges** (Graduate)
Research Title: *A Technical Perspective on Creative Arts*
Major: English
Advisor: Dr. Jamie McDaniel
- Presenter: **Melissa Barnett** (Graduate)
Research Title: *Daughter of Newgate: Defoe's Views of Charity, Marriage and Punishment of Criminals*
Major: English
Advisor: Dr. Jamie McDaniel
- Presenter: **Laura Allgood** (Graduate)
Research Title: *Marriage in The Coguette*
Major: English
Advisor: Dr. James Greene

POSTER SESSION

Wednesday, April 8, 2015

Category A: Science and Technology

- Presenter:** Ashley Jimanez (Undergraduate)
Research Title: Ultra-Thin Porous Nanosheets of NiCo_2O_4 /Graphene for Flexible Electronics
Major/Advisor: Chemistry/Ram K. Gupta
- Presenter:** Tyler Elmore (Undergraduate)
Research Title: Carrier Transport Mechanism of Copper Phthalocyanine Based Photodiode for Solar Cell Applications
Major/Advisor: Chemistry/J. Candler, Ram K. Gupta
- Presenter:** Deaven Thompson* (Undergraduate)
Research Title: Functional Magnetic Nanoprobes: Novel Nanotheranostics for the Treatment of Prostate Carcinomas
Major/Advisor: Biology/Dr. Santimukul Santra
- Presenter:** Blaze Heckert* (Undergraduate)
Research Title: Inhibitor-Induced combination Therapy of K-RAS Driven NSCLC
Major/Advisor: Biology/Dr. Santimukul Santra
- Presenter:** Hannah Thomas (Undergraduate)
Research Title: Preliminary Key to Identification of Aquatic Snails in Kansas
Major/Advisor: Biology/Dr. Joe Arruda
- Presenter:** Thomas Westerhaus + Jesse Morland (Undergraduate)
Research Title: A Comparison of Water Quality in the Spring River and its Tributaries
Major/Advisor: Biology (Both)/Dr. Joe Arruda
- Presenter:** Tess Weast (Undergraduate)
Research Title: Efficacy of Opioid Use in Pediatric Burn Patients
Major/Advisor: Nursing/Dr. Barbara McClaskey
- Presenter:** Ali Alahmari, Jennifer Bradley, Aries Herrion, Nick Miller, Thomas Vanbecelaere, Rafael Vasquez* (Undergraduate)
Research Title: PSU Society of Automotive Engineers Formula Competition
Major/Advisor: Engineering Technology/Tim Thomas
- Presenter:** Minh Bui (Undergraduate)
Research Title: A Problem in College Mathematics Journal
Major/Advisor: Mathematics/Dr. Wade
- Presenter:** Henry Thomas (Undergraduate)
Research Title: Electrical Properties and DFT Studies of Copolymers From 3-Phenyl[5]Ferrocenophane-1, 5-Dimethylene and Various Para Substituted Phenylmaleimides
Major/Advisor: Chemistry/Biology/Dr. Neef
- Presenter:** Raymond B. Westby (Undergraduate)
Research Title: Biosensor Studies with Copolymers from Vinylferrocene and 4-Vinylpyridinium
Major/Advisor: Biology/Dr. Neef
- Presenter:** Kyle Schwenker and Austin Russell (Undergraduate)
Research Title: Novel Filler Systems to Enhance Barrier Properties for Rotational Molded Parts
Major/Advisor: Plastics Engineering Technology/Jeanne H. Norton
- Presenter:** Mayuri Murali, Peyton Drouhard, Kyle Lichtenauer, Mitchell Floyd and Mar-kele West (Undergraduate)
Research Title: The Roles of Perceptual Load and Dilution in Visual Selective Attention
Major/Advisor: Psychology/Dr. Bruce Warner
- Presenter:** William E. Sisson (Undergraduate)
Research Title: Heavy Metal Electrochemical Sensors
Major/Advisor: Biochemistry/Dr. Neef
- Presenter:** Samantha Meneely (Graduate)
Research Title: Changes in Estrogen Receptor Alpha (ERα) Phosphorylation in

- Human T Cells**
Major/Advisor: Biology/Dr. Virginia Rider
- Presenter:** Natalia Agostini Schneider and Fabio Giacomelli (Graduate)
Research Title: Diversity and Nesting Success of Cavity-Nesting Birds
Major/Advisor: Biology/Dr. Steven Ford
- Presenter:** Brady Steinbock (Graduate)
Research Title: Endocrine Control of Homeobox 10 (Hoxa10) Gene Restricts Pattern Formation of Uterine Decidual Cells
Major/Advisor: Biology-MS/Dr. Virginia Rider
- Presenter:** E. Alqurashi (Graduate)
Research Title: Facile Synthesis and Electrochemical Analysis of CoS_2 Nanostructures for Supercapacitor Applications
Major/Advisor: Chemistry/J. Candler, Ram K. Gupta
- Presenter:** Vida Karimnia (Graduate)
Research Title: Role of Electrostatics in the Diagnosis and Treatment of Diseases
Major/Advisor: Physics/Dr. Benjamin Tayo
- Presenter:** Shoukath Sulthana* (Graduate)
Research Title: Innovative Anti-Oxidant Nanoceria for the Early Diagnoses & Treatment of Lung Cancer
Major/Advisor: Polymer Chemistry/Dr. Santimukul Santra
- Presenter:** Anuradha Bhusri* (Graduate)
Research Title: Dead End Homologue (DND1) Protein and Its Target mRNA is Influenced by Age and Estradiol in Normal and Systemic Lupus Erythematosus (SLE) T Cells
Major/Advisor: Biology/Dr. Virginia Rider
- Presenter:** Jyothi Kallu* (Graduate)
Research Title: Non-Small-Cell-Lung Cancer Treatment Using Hsp90 Inhibitor Carrying Magnetic Nanotheranostics
Major/Advisor: Polymer Chemistry/Dr. Santimukul Santra
- Presenter:** MD. Saimul Islam Chowdhury (Graduate)
Research Title: Seeking Halal Meat in Pittsburg, Kansas
Major/Advisor: Technology/Dr. John Iley
- Presenter:** Fabio Giacomelli* (Graduate)
Research Title: Small Mammals From Three Different Habitats in Mined-Land Wildlife Area in Crawford and Cherokee Counties, Kansas
Major/Advisor: Biology/Dr. Steven Ford
- Presenter:** Lakshman Kishore Muppuri* (Graduate)
Research Title: Gaming and Learning
Major/Advisor: Industrial Technology/Dr. McLisa Rogers
- Presenter:** Sean McCartney* (Graduate)
Research Title: Create Intelligent Infrastructure Capitol Assets for Municipalities
Major/Advisor: Engineering Technology/Dennis Audo
- Presenter:** Sean McCartney (Graduate)
Research Title: The Creation of Intelligent Transportation Systems By Utilizing Existing Building Information Modeling and Intelligent Municipalities Mapping
Major/Advisor: Engineering Technology/Dennis Audo

*Also presented an oral presentation

Category B: Business, Education, and Humanities

- Presenter:** **Jasmyn Turner** (Graduate)
Research Title: *Institutions and Logistic Performance in Emerging Markets*
Major/Advisor: Business Administration/Sang-Heui Lee
- Presenter:** **Justin Newman** (Graduate)
Research Title: *Supporters, Activists and Partners: Strategies to Forge Stakeholders Partnerships and Optimize Environmental Community Outreach Programs*
Major/Advisor: Communication/Dr. Mason
- Presenter:** **Sean McCartney** (Graduate)
Research Title: *Improvement to Business Strategy by Utilizing Components of Building Information Modeling*
Major/Advisor: Engineering Technology/Dennis Audo
- Presenter:** **Catherine Jepson** (Graduate)
Research Title: *The Voice of Printmaking*
Major/Advisor: Art/Portico Bowman

Category D: Topical Literature Review Poster

- Presenter:** **Heather Jensen and Rikki Miller** (Undergraduate)
Research Title: *The Not-So-Perfect Woman: Impossible Standards in Modern Society*
Major/Advisor: Psychology/Dr. Julie Allison
- Presenter:** **Peyton Drouhard, Nicole Feipel, Megan Paulu** (Undergraduate)
Research Title: *Tiny House Movement*
Major/Advisor: Psychology/Dr. Julie Allison
- Presenter:** **Alexis Mckinnon** (Undergraduate)
Research Title: *Motor Function Rehabilitation Post-Stroke*
Major/Advisor: Psychology/Dr. Murdock
- Presenter:** **Tayita Abudo, Karsten Creech** (Undergraduate)
Research Title: *The Conservation of Nucleotides May Effect the Efficiency of V(D)J Recombination*
Major/Advisor: Biology/Dr. Mandy Peak
- Presenter:** **Sarah Jones and Ashley Moreno** (Undergraduate)
Research Title: *Where Did Six Million People Go?*
Major/Advisor: Psychology/Dr. Julie Allison
- Presenter:** **Andrea Hight** (Undergraduate)
Research Title: *Preventing Respiratory Depression with Patient Controlled Analgesia: Pulse Oximetry vs. Capnography*
Major/Advisor: Nursing/Dr. Barbara McClaskey
- Presenter:** **Peter Polizzi** (Graduate)
Research Title: *Effect of Noise Induced Hearing Loss (NIHL) on Millennials as They Enter the Workforce*
Major/Advisor: MST/Dr. MeLisa Rogers
- Presenter:** **Pamela Hagher** (Graduate)
Research Title: *Lack of Availability at the Pittsburg State University Daycare Center to Accommodate International Student's Kids Under the Age of Six*
Major/Advisor: Human Resource Development/Dr. MeLisa Rogers
- Presenter:** **Grace H. Anderson** (Graduate)
Research Title: *Inducible Expression of Transgenes for Charcoal Rot Resistance in Soybeans*
Major/Advisor: Biology/Dr. Dan Zurek
- Presenter:** **Kuralay Kussainova** (Graduate)
Research Title: *Why Students Choose Teaching as a Future Career*
Major/Advisor: Human Resource Development/Dr. MeLisa Rogers

- Presenter:** **Santhosh Kumar Swayampakula** (Graduate)
Research Title: *Impact of Part Time Jobs On Indian Students' Academic Excellence at PSU*
Major/Advisor: MST/Dr. MeLisa Rogers
- Presenter:** **Chandana Phiya Somineni** (Graduate)
Research Title: *Importance of Safety of International Female Students at PSU*
Major/Advisor: MST/Dr. MeLisa Rogers
- Presenter:** **Teuta Lokaj** (Graduate)
Research Title: *Emotions of Change: International Students Relocation to the United States*
Major/Advisor: Human Resource Development/Dr. MeLisa Rogers
- Presenter:** **Alheli Aranda Britez, John S.C. Thorpe, Kachisicho Ogbodo** (Graduate)
Research Title: *Pedestrian Safety and Traffic Reduction at the Intersection of Joplin and Cleveland Streets*
Major/Advisor: Technology/Dr. Jeanea Lambeth
- Presenter:** **Bindu Ambati and Debanjana Ganguly** (Graduate)
Research Title: *Inconvenience Indian Students Feel Because of the Differences in the Food in Pittsburg Compared to India*
Major/Advisor: Science & Technology, HRD/Dr. Jeanea Lambeth
- Presenter:** **Subhash Chandra, Kanth Bolugoddu** (Graduate)
Research Title: *Lack of Regional Entertainment at PSU*
Major/Advisor: Dr. MeLisa Rogers
- Presenter:** **Nikhil Deep Takkallapalli** (Graduate)
Research Title: *Lack of Economic Motor Vehicles for International Students in PSU*
Major/Advisor: Dr. MeLisa Rogers
- Presenter:** **Sara Alkhalaf** (Graduate)
Research Title: *Fabrication of Spinel One-Dimensional Architectures by Single-Spinneret Electrospinning for Energy Storage Applications*
Major/Advisor: Chemistry/R.K. Gupta
- Presenter:** **Olubunmi Olaitan Adetayo** (Graduate)
Research Title: *The Process of Educating Students Through the Print Media as a Form of Instructional Technology*
Major/Advisor: Graphic Management/Dr. MeLisa Rogers
- Presenter:** **Lakshman Kishore Muppuri** (Graduate)
Research Title: *Effect of Video Games in Learning of Industrial Technology Students*
Major/Advisor: Industrial Technology/Dr. MeLisa Rogers
- Presenter:** **Riley Trowbridge** (Graduate)
Research Title: *The Effect on Employee Stress Due to Employers Allowing Dogs in the Workplace*
Major/Advisor: Human Resource Development/Dr. MeLisa Rogers
- Presenter:** **Muidh Albalawi** (Graduate)
Research Title: *Electrochemical Biosensor Based on Graphene Oxide-Au Nanoclusters Composites for L-Cysteine Analysis*
Major/Advisor: Chemistry/Dr. R.K. Gupta
- Presenter:** **Bharani Vadde** (Graduate)
Research Title: *Generation of Electricity From Phosphorescent Insects*
Major/Advisor: Electronic Technology

*Also presented an oral presentation



2015 Research Colloquium

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Graduate School

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