

PURDUE

UNIVERSITY

CALUMET

Student Research And Scholarly Activities

July 2005
through
August 2006



Compiled By

- Student Research Office
- Office of Research & Professional Development

Purdue University Calumet Student Research and Scholarly Activities July 2005 through August 2006

This report provides information about research projects and other scholarly activities presented by Purdue University Calumet students for the time period of July 2005 through August 2006.

The information contained in this list includes the titles of the project, the names of the students involved, the academic mentors, and when applicable, the forums of presentation and funding agencies. Student research resulted in the publication of six articles in academic journals. The 125 listed presentations by students include presentations both within PUC, such as at the Student Research Day and the LASS Spotlight on Scholarship and also presentations outside PUC at academic and professional conferences throughout the country. There is also information about 60 more student research projects that were performed as either part of a research program, independent study or research course.

In total the work of approximately 320 students is presented in this report representing work by students in all the academic areas of PUC.

This report lists the scholarly activities by PUC schools and departments. They are listed according to the department of the mentor, because often students who were majoring in different disciplines were working on the same project. Within each department the projects are arranged with publication listed first, then presentations and finally other research projects.

This was a large project to collect and organize all of this data. We believe all of the information in this report is accurate, but we do not fool ourselves to believe it is totally comprehensive. Annual reports will be provided. Information is now being collected for the report that will cover the time period of September 2006 to August 2007.

I pg. 3 School of Education

II pg 4 School of Engineering, Mathematics & Science

- A) Department of Biological Sciences*
- B) Department of Chemistry & Physics*
- C) Department of Mathematics, Computer Science & Statistics*
- D) Department of Electrical & Computer Engineering*
- E) Department of Mechanical Engineering*

III pg 17 School of Liberal Arts & Social Sciences

- A) Department of Behavioral Sciences*
- B) Department of Communications & Creative Arts*
- C) Department of English & Philosophy*
- D) Department of Foreign Language and Literature*
- E) Department of History & Political Science*

IV pg 30 School of Management

V pg 31 School of Nursing

VI pg 32 School of Technology

- A) Department of Computer Information Technology*
- B) Department of Construction Management & Engineering Technology*
- C) Department of Electrical & Computer Engineering Technology*
- D) Department of Manufacturing Engineering Technologies & Supervision*

School of Education

Presentations:

Play Therapy: A Primer for Beginners

Students: Kimberly Harrison
Mentor: Suzanne Degges-White
Presentation: Indiana Counseling Association Annual Conference

Coming Out or Hiding Out: Interventions for LGBTQ Clients

Students: Kimberly Harrison
Mentor: Suzanne Degges-White
Presentation: Indiana Counseling Association Annual Conference

They Don't Look Like My Family

Students: Sharon Vail
Mentor: Suzanne Degges-White
Presentation: Association for Counselor Education And Supervision National Conference

A Place at the Table: Working with Diverse Families

Students: Sharon Vail
Mentor: Suzanne Degges-White
Presentation: International Association for Marriage and Family Counselors Conference

How Does Implemented Governmental Tactics (in voting) Impact the Disenfranchisement of Minority Voters

Students: Margaret Tate
Mentor: LaVada Brandon
Presentation: Summer Research Internship Program
Funding: McNair Scholarship

Research Projects:

Internship in Education

Students: Tammy Milby-Hall
Mentor: Pam Frampton

School of Engineering, Mathematics & Science

Department of Biological Sciences

Publications:

Effects of Artificial Canopy, Mulch Application and Mycorrhizae Inoculation on Restoration of Black Oak (*Quercus velutina*) Savanna in Indiana Dunes National Lakeshore

Students: Young-Moon Chun
Mentor: Young Choi
Published: *Chicago Wilderness Journal*

Invasions of *Phragmites australis* on *Typha angustifolia* Stands in the Wetlands of Northwestern Indiana

Students: Young-Moon Chun
Mentor: Young Choi
Published: *Wetlands*

Redevelopment of Black Oak (*Quercus Velutina* Lam.) Savanna in an Abandoned Sand Mine in Indiana Dunes National Lakeshore, USA

Students: Christina Wilcox
Mentor: Young Choi
Published: *American Midland Naturalist*

Presentations:

Vegetation Dynamics in the Panes of Lake Michigan Sand Dunes

Students: Young-Moon Chun
Mentor: Young Choi
Presentation: 90th Annual Meeting of Ecological Society of America and the 9th International Congress of Ecology

Demonstration of Oak-Savanna Restoration in Indiana Dunes National Park

Students: Young-Moon Chun
Mentor: Young Choi
Presentation: 90th Annual Meeting of Ecological Society of America and the 9th International Congress of Ecology

DNA Analysis of *Phragmites Austalis* in Southern Lake Michigan Wetlands

Students: Paul Frohnapple
Mentor: Young Choi
Presentation: 90th Annual Meeting of Ecological Society of America and the 9th International Congress of Ecology

Public Perception to Oak-Savanna Restoration in Indiana Dunes National Lakeshore

Students: April Komendat, Sherru Ojikutu
Mentor: Young Choi
Presentation: 90th Annual Meeting of Ecological Society of America and the 9th International Congress of Ecology

Possible Causes of Low Succession Rate of Black-Crowned Night Heron Offspring during the Summer of 2005, in the Lake Calumet Area

Students: Anthea Saez
Mentor: Young Choi
Presentation: Student Research Day, CIC Conference in Urbana

Investigating the Hydrophobic Intercellular Domain Interactions of G-protein Inwardly Rectifying Potassium Ion Channels (GIRK) Using Mutagenesis

Students: Nichole Kambesis
Mentor: Radmilla Sarac
Presentation: Biophysical Society Meeting, Student Research Day
Funding: UGRP

DNA Analysis of Phragmites Austalis in Southern Lake Michigan Wetlands

Students: Claudia Wing
Mentor: Young Choi
Presentation: 90th Annual Meeting of Ecological Society of America and the 9th International Congress of Ecology

DNA Research

Students: Nichole Kambesis
Mentor: Charles Tseng
Presentation: Student Research Day

Biological Control of Ecoli 0157:H7 Through Application of LyticPhage MR1

Students: Robyn Hall, Alycia Stor
Mentor: Evert Ting
Presentation: Student Research Day – USRA

Research Projects:

Intercell Interactions of CLC3 Termini

Students: Jennifer Hipp, Nichole Kambesis, Janet Tarkinton
Mentor: Radmilla Sarac
Funding: URGP

Human cell culture

Students: Nichole Kambesis
Mentor: Charles Tseng

Cell culture and DNA technique

Students: Sarah Parrish
Mentor: Charles Tseng

Effects of Non-Point Source Pollution in Northwestern Indiana Wetlands

Students: Michael Courtney
Mentor: Young Choi

School of Engineering, Mathematics & Science

Department of Chemistry & Physics

Publications:

Tunicamycin-Induced Apoptosis is Characterized by Protein Denaturation: An Infrared Spectroscopy Study

Students: William Xie
Mentor: Maria Longas
Published: *Glycobiology*

Analysis of Peppermint Leaf & Spearmint Leaf Extracts By Thin Layer Chromatography

Students: Chylah Martin, A. Amico, N. Gordon, and D. Sandifer
Mentor: Liberty Pelter and Michael Pelter
Presentation: Student Research Internship Program
Funding: McNair Scholarship
Publication: *J. of Chem Ed.*

Presentations:

Synthesis and Coupling of Halogenated Benzene Compounds Useful in the Construction of Nanoelectronic Components

Students: Brian Heiberger and Solomen Brown
Mentor: Liberty Pelter and Michael Pelter
Presentation: Indiana LSAMP/AGEP Conference
230th ACS National Meeting
Funding: LSAMP

Investigation of the Effects of Annealing Conditions on the Material Characteristics of Copper-Infiltrated Iron Particles

Students: Corey Hopper
Mentor: Joseph Bularzik
Presentation: Argonne National Laboratory Undergraduate Research Conference
Student Research Day
Funding: LSAMP, URGP

Thermogravimetric Analysis of the Dehydration of $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$

Students: Micah Leestma
Mentor: Joseph Bularzik
Presentation: Indiana State LSAMP Conference
Rose Hulman Interdisciplinary Collaborative Research in Biology and Chemistry Symposium
Funding: LSAMP

Organic Synthesis for the Construction of Nanoscale Structures for Molecular Scale Electronics

Students: Ramon Verduzco
Mentor: Liberty Pelter
Presentation: Student Research Day - USRA

A Detailed Investigation of the Degree of Dehydration of CuSO_4 vs. $\text{FePO}_4 \cdot 2\text{H}_2\text{O}$ and $\text{FePO}_4 \cdot 4\text{H}_2\text{O}$

Students: Koray Akarsu
Mentor: Joseph Bularzik
Presentation: Student Research Day - USRA
Funding: URGP

Preparation of Substituted Dienes

Student: Kristen Scott
Mentor: Harold Pinnick
Presentation: Student Research Day

Dehydration of Sulfates

Students: Jacob Perrine, Steven Schroers and Brandon Basila
Mentor: Joseph Bularzik
Presentation: Student Research Day
Funding: URGP and LSAMP

Cu & Fe diffusion - SEM

Students: Trish Barnaby
Mentor: Joseph Bularzik
Presentation: Student Research Day
Funding: URGP

Polycrylamide Gel Electrophoresis of Standard Proteins and Its Application in Identification of an Unknown Skin Protein

Students: Anna Dunning and Olutobi Tele-ekundayo
Mentor: Maria Longas
Presentation: Student Research Day
Funding: URGP

Sodium Dodecyl Sulfate Polyacrylamide Gel Electrophoresis of N-Deacetylase from Human Skin

Students: Olutobi Tele-ekundayo
Mentor: Maria Longas
Presentation: Student Research Day
Funding: LSAMP

A Study into Female Athletes and Sports Injuries: A Look into Why Knee Injuries Occur and What can be Done to Prevent Future Injuries

Students: Rohan Johnson
Mentor: Harold Pinnick
Presentation: Student Research Internship Program
Funding: McNair Scholarship

Research Projects:

Detection of N-Deacetylase Activity in Human Skin by Polyacrylamide Gel, Electrophoresis, Enzyme Assay and Calcofluor Staining

Students: Steve Dubec
Mentor: Maria Longas

Raman Spectroscopy Methods to Characterize Glycosaminoglycans

Students: Bertha Salazar, Tracy Stahl
Mentor: Maria Longas

Polymer Research

Students: Ashley Barnett
Mentor: Michael Pelter

Synthesis of Supported Oxime Pallacacycles

Students: Tiffany Gallegos
Mentor: Michael Pelter

Synthesis of Indole Derivatives

Students: Nicole Jacobi and Konstantina Sotirolou
Mentor: Liberty Pelter

Catalysis for the Sequestration of CO₂

Students: Jennifer McDonald
Mentor: Liberty Pelter
Funding: DOE, Production of Hydrogen Using an Anaerobic Biological Process for Local Energy Production

Synthesis of Highly conjugated Organic Compounds for Use in Nanoelectronics

Students: Jessica Thomas
Mentor: Liberty Pelter

Evaluation of Catalyst Activity and Specificity in Sonogashira Reaction

Students: Ramon Verduzco
Mentor: Liberty Pelter and Michael Pelter

Investigated Components of Chocolate, Especially Theobromine, as a Start to Investigation of How One Might Design Analogs

Students: Elizabeth Day
Mentor: Harold Pinnick

Support Project for THC Metabolite Preparation - Involved Preparation of Unsaturated Ketones and Derivatives

Students: Aaron Decker
Mentor: Harold Pinnick
Funding: URGP

Anatoxin - a Preparation

Students: Taundra Edmond
Mentor: Harold Pinnick
Funding: URGP

Cannabinoid Metabolites

Students: Romy Mendoza, Tatiana Montanez, Mohammed Shatat, Marc Stojkovich, Mandie Williams
Mentor: Harold Pinnick
Funding: URGP and LSAMP

Literature searches for testing methods of cannabinoids

Student: Michelle Mittler
Mentor: Harold Pinnick

Investigated Components of Chocolate, Especially Theobromine, as a Start to Investigation of How One Might Design Analogs

Student: Elizabeth Day
Mentor: Harold Pinnick

Organic Chemistry Research

Student: Taundra Edmond, Rohan Johnson, Mohammed Shatat, Mandie Williams
Mentor: Harold Pinnick
Funding: URGP

Ring Closure Approach to Cannabinoids Using Citral or Citronellal as a Starting Material

Student: Rohan Johnson, Ben Kooy, Alison Pienta, Mohammed Shatat, Nick Stevenson
Mentor: Harold Pinnick
Funding: URGP

Support Project for THC Metabolite Preparation - Involved Preparation of Unsaturated Ketones and Derivatives

Student: Aaron Decker, Kristen Scott
Mentor: Harold Pinnick
Funding: URGP

Environment Chemistry Research

Student: Darrin Dickerson
Mentor: Kathryn Rowberg

HPLC

Students: Sarah Parrish
Mentor: Anita Katti
Funding: LSAMP

School of Engineering, Mathematics & Science

Department of Mathematics, Computer Science & Statistics

Presentations:

Truck Security Tool for US Customs and Border Protection

Students: Catalin Constantin, Jerry Dekker
Mentor: Ruijan Zhang
Presentation: Student Research Day – USRA
2006 ACM SIGPLAN MASPLAS

Qualitative and Numerical Analysis of a Mathematical Model for a Micro-pump

Students: Jessica Barker, Carlos Mendoza, Mark Miller, Siddharth Pachauri
Mentor: Nicolae Tarfuela
Presentation: Student Research Day
Funding: URGP

Branch prediction research

Students: Michael Carter
Mentor: Ruijan Zhang
Presentation: Student Research Day
Funding: URGP

School of Engineering, Mathematics & Science

Department of Electrical & Computer Engineering

Presentations:

Hand Writing Recognition and Rehabilitation in the Haptic Virtual Environment

Students: YounKyoung Kim
Mentor: Xiaoli Yang
Presentation: Graduate Research Award

Optimization of System's Energy Use

Students: Kevin Bish, Jennifer Laffoon, Bryan Surdy
Mentor: Edward Pierson
Presentation: Student Research Day
Funding: URGP

Microcontroller Based Stepper Motor Controller

Students: Daniela Dukleska, Lila Haro
Mentor: David Kozel
Presentation: Student Research Day
Funding: LSAMP

Emergency Vehicle Siren Noise Cancellation Using Adaptive Filtering Techniques

Students: Juan Ramirez
Mentor: David Kozel
Presentation: Student Research Day
Funding: LSAMP

Effect of Nitrogen and Oxygen Concentration on Nox Emissions in an Aluminum Furnace

Students: William Walker
Mentor: Donald Gray
Presentation: PUC Continental Breakfast and Welcome

Heat Loss Analysis of Dross Removal in an Aluminum Furnace

Students: Naresh Selvarasu
Mentor: Donald Gray
Presentation: PUC Continental Breakfast and Welcome

Numerical Analysis for Blast Furnace Hearth Inner Profile

Students: Rohit Deshpande
Mentor: Donald Gray
Presentation: PUC Continental Breakfast and Welcome

Model of Cell Membrane Voltage Due to Proximity with Other Cells

Students: Prateek Panwar
Mentor: Howard Gerber
Presentation: PUC Continental Breakfast and Welcome

Research Projects:

Senior Engineering Design I

Students: Jawad Bajjou, Jonathon Bilow, Kevin Bish, Raymond Bleth, Andrew Campbell, Jason Dlouhy, Vojislav Dobrijevic, Andrew Eenigenburg, Carlos Escabalzeta, Gregory Forney, Jeremy Holland, Sino Koncalovic, Anthony Kuforiji, Jennifer Laffoon, Zhong Li, Nouredine Loumari, Ryan Mccelmurry, Bojan Mitric, Matthew Mrzlock, Christian Navarro, Joshua Pappalardo, Slobodan Popovich, Juan Ramirez, Ajay Shah, Inese Steinbahs, Nicholas Stevenson, Bryan Surdy, William Walker
Mentor: Howard Gerber

Senior Engineering Design II

Students: Marta Angelkovska, Boverne Bailey, Steven Broda, Uyi Eguasa, Jeff Knaack, Joseph Lopez, Edward Luczak, Michael Miloshoff, Robert Reyes, Danielle Satkoski, Deepika Sharma, Emilie Taylor, Amy Valente
Mentor: Edward Pierson

Solar Power

Students: Uyi Eguassa and Marta Angelkovska
Mentor: David Kozel
Funding: URGP

Research MS Thesis

Students: Abhinav Mithal
Mentor: Toma Hentea

School of Engineering, Mathematics & Science

Department of Mechanical Engineering

Presentations

Non-Destructive Blast Furnace Wall Testing

Students: Michael Vermeer, Eric Roades and Krasimir Zahariev
Mentor: Yulian Kin
Presentation: Student Research Day & PUC continental Breakfast and Welcome

CFD Analysis of Heat Exchanger and Charged Air Cooler for a 6.8 L Diesel Marine Engine

Students: Raymond Bleth, Andrew Campbell, Nicholas Stevenson
Mentor: Chenn Zhou
Presentation: Student Research Day

Simulation of Pulverized Coal (PCI) and Natural Gas Co-Injection

Students: William Walker
Mentor: Chenn Zhou
Presentation: Student Research Day

Thermo-Hydrodynamic Characterization of Nanofluids in Microchannels

Students: Christian Navarro
Mentor: George Nnanna
Presentation: Student Research Internship Program
Funding: McNair Scholarship

Computational Fluid Dynamics of Flow and Pressure Distribution in Column Flow Type Fuel Cells

Students: Paul Ridenour
Mentor: George Nnanna
Presentation: PUC Continental Breakfast and Welcome

Cooling of Electronic Using Nanofluid Flow in Microchannel

Students: Manish Senta, Christian Navarro, Anthony Kuforiji and Jeremy Holland
Mentor: George Nnanna
Presentation: PUC Continental Breakfast and Welcome
Funding: URGP

Fatigue Life Analysis and Acoustic Damage Evaluation of Rotary Shouldered Connection

Students: Krasimir Zahariev
Mentor: Yulian Kin
Presentation: PUC Continental Breakfast and Welcome
Funding: Boart Longyear Company

Research Projects:

Blast Furnace

Students: Danielle Satkoski, Robert Reyes and Ryan McElmury
Mentor: Chenn Zhou
Funding: URGP

Moon Buggy

Students: Tristan Schaefer, Ryan Buckley, Roque Diaz, Adam Julovich,
Justin Halloran, William Obermeyer and Melissa Crawford
Mentor: Harvey Abramowicz
Funding: URGP and SFRCA

Quarter Scale Tractor Pull

Students: Simo Koncalavic, Jonathan Bilow, Matthew Mrzlock and Drew
Eenigenburg
Mentor: Bipin Pai
Funding: URGP and SFRCA

School of Liberal Arts & Social Sciences

Department of Behavioral Sciences

Publications:

Identity Development, Differentiation, Personal Authority, and Degree of Religiosity as Predictors of Interfaith Marital Satisfaction

Students: Ryan Parsons
Mentor: David Nalbone
Funding: LSAMP
Published: *American Journal of Family Therapy*

Presentations:

Mortality Salience as a Predictor of Parental Interference in Dating

Students: Rachel Miller
Mentor: David Nalbone
Presentation: Society for Personality and Social Psychology
Funding: LSAMP

Development and Testing of an Alcohol Self-Efficacy Scale

Students: Rachel Miller
Mentor: David Nalbone
Presentation: Society for Personality and Social Psychology

Mortality Salience as a Predictor of Parental Interference in Dating

Students: Rick Szewka
Mentor: David Nalbone
Presentation: LASS Spotlight, Student Research Day
Mid-America Undergrad Psychological Conf
Research Office
Funding: LSAMP and SFRCA

Gender and Media: A comparison of ESPN Coverage of March Madness on SportsCenter

Students: Sarah Scherer
Mentor: Ralph Cherry
Presentation: LASS Spotlight , Midwest Sociological Society

Social Transformation & Social Policy: The Case of Romanian Orphans

Students: Cezara Crisan
Mentor: Alan Spector
Presentation: Student Research Internship Program
Funding: McNair Scholarship

Postpartum Depression and the Effects it has on Our Society

Students: Bianca Sherrell Dorsey
Mentor: Peggy Payonk
Presentation: Student Research Internship Program
Funding: McNair Scholarship

The Invisible Victims of Domestic Violence

Students: Shanise Manyfield-Russel
Mentor: Gisele Casanova
Presentation: Student Research Internship Program
Funding: McNair Scholarship

Black Beauty: How African American Women Portrayals in the Media Affect African American Girls' Perception of Themselves

Students: Cynthia Perry
Mentor: Gisele Casanova
Presentation: Student Research Internship Program
Funding: McNair Scholarship

Special Education Classes vs. Inclusive Classes: A survey of Parents and Teachers

Students: Kim McCrary
Mentor: Sandra Singer
Presentation: Student Research Internship Program
Funding: McNair Scholarship

Medicare Part D: Analyzing the Plan and Proposing an Agenda for Research

Students: Lori Bradford
Mentor: Ralph Cherry
Presentation: LASS Spotlight

Inciting the Savage Beast through Music

Students: Erick Bokman, Michael Finney
Mentor: Vytenis Damusis
Presentation: LASS Spotlight
Mid-America Undergrad Psychological Conf
Research Office
Funding: SFRCA

Self and Other Impressions of Personal Attributed

Students: Tamara Grzesik, Martina Knight
Mentor: Vytenis Damusis
Presentation: LASS Spotlight
Mid-America Undergrad Psychological Conf
Research Office
Funding: SFRCA

Effect of Differences in Numerical Anchor Values on Related and Unrelated Judgments

Students: Stephen Lynch, Michael Stasik
Mentor: Vytenis Damusis
Presentation: LASS Spotlight
Mid-America Undergrad Psychological Conf
Research Office
Funding: SFRCA

Gender Differences in Enjoyment and use of Pornography

Students: Michael Morris, Joshua Pilman, Tracy Tabaczynski
Mentor: Vytenis Damusis
Presentation: LASS Spot

Female Body Image, Media Models and Desired Personal Change

Students: Gianina Pelagilli, Kate Stephens
Mentor: Vytenis Damusis
Presentation: LASS Spotlight
Mid-America Undergrad Psychological Conf
Research Office
Funding: SFRCA

Effect of Differences in Numerical Anchor Values on Related and Unrelated Judgements

Students: Michael Finney
Mentor: Vytenis Damusis
Presentation: LASS Spotlight
Mid-America Undergrad Psychological Conf
Research Office
Funding: SFRCA

Birth Order, Family Structure and Sociability

Students: Melissa Sabo
Mentor: Vytenis Damusis
Presentation: LASS Spotlight
Mid-America Undergrad Psychological Conf
Research Office
Funding: SFRCA

SpiritCares: The mediating effects of spirituality, religiosity, and meaning of the caregiving role on the stress process of caregivers of people with Alzheimer's Disease

Students: Jennifer Crosby, Richard Mann and Jessica Yates
Mentor: Anne Edwards
Presentation: LASS Spotlight

The Impact of Couple Therapy on Stress and Cortisol Functioning

Students: Rebecca Hummel Nestor
Mentor: Lorna Hecker
Presentation: LASS Spotlight
Funded: LASS

Improving the Quality of Developmental Services to Children Through the Use of Structured Interviews of their Parents

Students: Mandie Pittman
Mentor: Sandra Singer
Presentation: LASS Spotlight

Solution-Focused Brief Therapy Projects

Students: Jeffery Ford, Sara Smock, Ursula Steiner, Jennifer Yalowitz
Mentor: Terry Trepper
Presentation: LASS Spotlight

Handbook of Clinical Issues in Couple Therapy

Students: Ruth Halsted
Mentor: Joseph Wetchler
Presentation: LASS Spotlight

Burnout in the World of Marriage and Family Therapy

Students: Sesen Negash, Seda Sahin
Mentor: Joseph Wetchler
Presentation: PUC Continental Breakfast and Welcome

The Four Trimesters of Pregnancy: Narratives on Becoming a Mother

Students: Katherine Pantinas
Mentor: Joseph Wetchler
Presentation: PUC Continental Breakfast and Welcome

Silent Tragedy: Why Married Women Won't Share Their Story

Students: Christine Camadeca
Mentor: Joseph Wetchler
Presentation: PUC Continental Breakfast and Welcome

Research Projects:

The Role of Family Promoting A Positive Female Queer Identity and Self Esteem

Students: Sophia Treygar
Mentor: Ann Edwards
Presentation: Graduate Research Award

Tourism in the Bahamas

Students: Jason Douts
Mentor: Geralyn Farley

School of Liberal Arts & Social Sciences

Department of Communications & Creative Arts

Presentations:

Potentialities and Hindrances of Virtual Problem-Solving Teams

Students: James Noland
Mentor: Lisa Goodnight
Presentation: National Communication Association Convention

Interviews with Performance Studies Scholars

Students: Christine Camadeca
Mentor: Theresa Carilli
Presentation: LASS Spotlight

The Basic Communication Course: Distance Learning, Curriculum, and Graduate Teaching Assistant Training

Students: Debra Hingst
Mentor: Lisa Goodnight
Presentation: LASS Spotlight
Funding: LSAMP

Feminist Lens—A Communications Magazine

Students: Barbara Markle, April Nellesmann
Presentation: PUC Continental Breakfast and Welcome

School of Liberal Arts & Social Sciences

Department of English & Philosophy

Presentations:

Undead Social Commentary (The Multi-Genre Pop Culture Canon of Zombies)

Students: Jade Lee Culberson
Mentor: James Andrew, Carolyn Boiarsky
Presentation: PUC Continental Breakfast and Welcome
Graduate Research Award

A Feminine Perspective of Life as a Slave

Students: Lisa Chism
Mentor: Mita Choudhury
Presentation: URC: English & Philosophy

Frankenstein: Morality and Humanism without God

Students: Christian Rubalcaba
Mentor: Mita Choudhury
Presentation: URC: English & Philosophy

Evaluating Elementary Level After-School Creative Writing Programs

Students: Janelle Irving
Mentor: Carolyn Boiarsky
Presentation: LASS Spotlight, Indiana Teachers of Writing Conference
Funding: Departmental Gift Fund: VCAA Office

Background Factors as Predictors of Student Success in Hybrid Composition Courses

Students: Julia Ponce
Mentor: Dan Punday
Presentation: LASS Spotlight and MA Thesis Defense

Advances in the Writing Program at PUC Part One: Research, Assessment, and English 100

Students: Kevin Cline
Mentor: Lizbeth Bryant
Presentation: LASS Spotlight

On Acquiring a New Identity - The Shifting Identity in Learners and Teachers in ESOL Programs

Students: Nancy Riecken
Mentor: Marilyn Cleland
Presentation: LASS Spotlight

Website for the Writing Center at PUC

Students: Artay Dates, Adam Mlynarcik and Michelle Orr
Mentor: Nita Danko
Mentor: La Von Green
Presentation: LASS Spotlight

Can We Still Get “Free” Satellite?

Students: Lora Mendenhall
Mentor: Nita Danko
Presentation: LASS Spot

Editorship of Skylark Magazine

Students: Crystal Cox
Mentor: Michael Dobberstein
Presentation: LASS Spotlight

Anti-Oppression Pedagogy in the Shakespeare Classroom: Student/Faculty Teaching Project

Students: Amy Johnson, Carrie Kendall
Mentor: Colette Morrow
Presentation: LASS Spotlight

Misrepresentations: Diabetics in Juvenile Fiction

Students: Amy Johnson, Carrie Kendall
Mentor: Colette Morrow
Presentation: Student Research Day

Rebecca Harding Davis

Students: Amy Johnson
Mentor: Clement Stacy
Presentation: PUC Continental Breakfast and Welcome

Michael, Brother of Jerry: A Social Action Piece

Students: Carrie Kendall
Mentor: Clement Stacy
Presentation: PUC Continental Breakfast and Welcome Thesis Defense
Funding: John S. Tuckey Scholarship

Writing Workshops within the College Composition Classroom

Students: Suzanne Weber
Mentor: Lizbeth Bryant
Presentation: PUC Continental Breakfast and Welcome

Lesbians Laughing with Lesbians: An Analysis of Humor Used in Showtime's The L Word

Students: Dawn Simonson
Presentation: PUC Continental Breakfast and Welcome

Sweetening the Pot: the Curse of Sentimentalism in Helen Hunt Jackson's Ramona

Students: Gena Howard
Presentation: PUC Continental Breakfast and Welcome

MA Research Projects:

Determining Appropriate Instruments for Evaluating Texts of Students Attending Elementary Level After-School Creative Writing Programs

Students: Janelle Irving
Mentor: Carolyn Boiarsky
Presentation: Thesis Defense

The Role of Ymagintif in Piers Plowman

Students: Nancy Riecken
Mentor: Colin Fewer
Presentation: Thesis Defense
Funding: John S. Tuckey Scholarship

Archetypal Visions of Impossible Love, and Aborted Apocalypse in Fight Club

Students: Ryan Schoon
Mentor: Dennis Barbour
Presentation: Thesis Defense

School of Liberal Arts & Social Sciences

Department of Foreign Language and Literature

Presentations:

The Origins of Racial Tension Between Trinidadians of Africa & East Indian Descent from Colonialism until the Present: A Detailed History of Social & Political Racism in Trinidad & Tobago

Students: Rafael Swift
Mentor: Kathleen Tobin
Presentation: Student Research Internship Program
Funding: McNair Scholarship

Escaping Presentism in the Examination of Conquest: The Case of Cortes and the Mexica

Students: Tiffany Jenkins
Mentor: Kathleen Tobin
Presentation: Student Research Day - USRA

Latinos in Chicago

Students: Daniel Bohorquez, Concepcion Lagunas
Mentor: Jose Castro-Urioste
Presentation: LASS Spotlight

Lingua Franca, Volume II

Students: Rebecca Medley
Mentor: Arlene Russell
Presentation: LASS Spotlight

Building Bridges Across Borders - From Sonora, Mexico to Purdue University Calumet

Students: Evelyn Bottando
Mentor: Kathleen Tobin
Presentation: LASS Spotlight
Funding: Indiana Campus Contact

Latino-Serving Organizations, Northwest Indiana

Students: Huma Farook, Maria Hernandez, Jennifer Olivarez
Mentor: Kathleen Tobin
Presentation: LASS Spotlight
Funding: Indiana Campus Contact

Facilitating Assessment - Readings in the Liberal Arts and Social Sciences

Students: Sean Shideler
Mentor: Kathleen Tobin
Presentation: LASS Spotlight

Hispanic Politics and Leadership – Experiential Learning

Students: Ryan Sporer, Leticia Estrada, Cassandra Nordyke, Luz Perez, Alex Espinoza, Aracely Galicia and Jeanette Galicia
Mentor: Kathleen Tobin
Presentation: LASS Spotlight

Native American Culture: Expression from the Four Corners

Students: Andrea Pepler-Murray
Mentor: Kathleen Tobin
Presentation: PUC Campus Presentation

School of Liberal Arts & Social Sciences

Department of History & Political Science

Presentations:

Racial Profiling: The Perception of Northwest Indiana

Students: Tanya Oliver-Johnson
Mentor: Frank Colucci
Presentation: Student Research Internship Program
Funding: McNair Scholarship

Knowing The Score: Basketball, History, and the Teaching Gender

Students: William Stafford
Mentor: Joseph Bigott
Presentation: LASS Spotlight

Washington and Doha, 1971-1974

Students: Adam Raven
Mentor: Miriam Joyce
Presentation: LASS Spotlight

What My Father Taught Me: A Performance in Dialog

Students: William Boggs
Mentor: Saul Lerner
Presentation: PUC Continental Breakfast and Welcome

Robert K. Graham and the ‘Genius Factory’

Students: John Mikuska
Mentor: Saul Lerner
Presentation: PUC Continental Breakfast and Welcome

Paul Popenoe and the American Eugenics Movement

Students: William Boggs
Mentor: Saul Lerner
Presentation: PUC Continental Breakfast and Welcome

Testing Herman and Chomsky’s Propaganda Theory: Legitimized versus

Students: Eve Bottando
Mentor: Richard Rupp
Presentation: PUC Continental Breakfast and Welcome

An Overview of Current Media Practices and Trends in West Africa

Students: Linda Kintz
Mentor: Richard Rupp
Presentation: PUC Continental Breakfast and Welcome

Potentialities and Hindrances of Virtual Problem-Solving Teams

Students: Jim Noland
Mentor: Richard Rupp
Presentation: PUC Continental Breakfast and Welcome

How to Attract Businesses to Northwest Indiana

Students: Deepicka Sharma
Mentor: Richard Rupp
Presentation: PUC Continental Breakfast and Welcome

School of Management

Presentations:

Traveling the Cloudy Path to Accounting Transparency: The Expensing of Employee Stock Options

Students: Marisol Edmond
Mentor: Paul McGrath
Presentation: Student Research Internship Program
Funding: McNair Scholarship

Urban Development and Revitalization: Its Effects on the Government, Communities, Investors, and Individual

Students: Chastidy Loggins
Mentor: Kasia Firlej
Presentation: Student Research Internship Program
Funding: McNair Scholarship

School of Nursing

Presentations:

MRSA within the Community and the Hospital

Students: Shara Fledderjohan
Mentor: Ellen Moore
Presentation: Student Research Day - USRA

Research Projects:

Health Promotion Intervention for the Medically Uninsured

Students: Heather Clark , Sue Jania
Mentor: Susan Buchholz

Screening and Management of Prostate Cancer in African American Men

Students: Taryn Eastland
Mentor: Susan Buchholz

School of Technology

Department of Computer Information Technology

Presentations:

Intergration of Pathway Datasets Utilizing BioPAX Ontology

Students: Chris Nash
Mentor: Keyuan Jiang
Presentation: IRCBC Undergraduate Student Research Symposium
Indiana State LSAMP Conference
Funding: LSAMP

A Biological Pathway Web Service Using BioPAX Standard

Students: Chris Nash
Mentor: Keyuan Jiang
Presentation: Argonne Symposium for Undergraduates in Science, Engineering
& Math

A Gateway to Biological Pathways

Students: Chris Nash
Mentor: Keyuan Jiang
Presentation: Microsoft Research Faculty Summit

Application of XML Database Technology to Biological Pathway Datasets

Students: Chris Nash
Mentor: Keyuan Jiang
Presentation: 28th Annual International Conference of IEEE/Engineers in
Medicine and Biology Society

Development of Ditag Genome Scan Technology or E. Coli Source Tracking

Students: Xiaojing Hong, Qingyu Wang, Xu Zhang
Mentor: Reza Kamali
Presentation: PUC Continental Breakfast and Welcome

Video Monitoring of a Process

Students: Kautilya Kolanpyaka
Mentor: Reza Kamali
Presentation: PUC Continental Breakfast and Welcome

Building Thermal Performance Using Nanofluids

Students: Punnaro Peddi
Mentor: Reza Kamali
Presentation: PUC Continental Breakfast and Welcome

Modeling of System Transfer Function for Human Cells

Students: Shiguang Li

Mentor: Reza Kamali

Presentation: PUC Continental Breakfast and Welcome

School of Technology

Department of Construction Management & Engineering Technology

Presentations:

Use of Recycled Tires as Aggregate in Concrete

Students: Patrick Byrne, Edgar Cano
Mentor: Jose Pena
Presentation: Student Research Day

Influence of Recycled Aggregates on Mechanical Properties of High Performance Concrete

Students: Ivan Ortiz
Mentor: Jose Pena
Presentation: Student Research Day
Funding: URGP

Development of Criteria for Use of Fire Retardant in Wood Trusses

Students: Timothy Fercik and Braden Wayne
Mentor: Jose Pena
Presentation: Student Research Day

Resident

Students: Stephan Wrona
Mentor: Jose Pena
Presentation: Student Research Day
Funding: URGP

Metal Plate Connected Wood Trusses

Students: Brian Sluiter
Mentor: Jose Pena
Presentation: Student Research Day
Funding: URGP

Research Projects:

Corrosion Behavior of Weathering Steel

Students: Francisco Leal
Mentor: Jose Pena
Funding: URGP

Electrical Resistivity of Slag

Students: Christina Aguilar
Mentor: Jose Pena
Funding: URGP

Development of Ternary Cementitious Systems Containing Silica Fume and Fly Ash

Students: Brian Gallego and Magzoub Saad

Mentor: Jose Pena

Funding: URGP

Fly Ash

Students: Michelle Cochran and Sara West

Mentor: Jose Pena

Funding: URGP

School of Technology

Department of Electrical & Computer Engineering Technology

Presentations:

Camless Engine

Students: Robert Csernak, Jason Pajak
Mentor: Omer Farook
Presentation: Student Research Day
Fundinig: URGP

Research Projects:

Senior Design Phase II

Students: Dennis Dahn, Juan Hernandez, Steven Kendall, Ramon Marquez
Mentor: Jai Agrawal

Senior Project

Students: Richard Eenigenburg, Selena Gray, Gabriel Hernandez, Bradley Luken, Robert Niziolek, Ivan Ortiz, Jason Perkunas, Brian Sluiter, Jason Vargo, Angie Vermejan, Stephan Wrona
Mentor: Ralph Bennett

Senior Design Project Phase I

Students: Maitham Alkherdawi, William Dawson, Dimas Gutierrez, Stephen Kalmas, Irmelda Martinez, Danijel Minic, Glen Morse
Mentor: Akram Hossain

SAE Mini Baja Racer

Students: Tyler Friemoth, Melissa Triemstra, Jason Dlouhy and Brandon Dean
Mentor: James Higley
Funding: URGP

School of Technology

Department of Manufacturing Engineering Technologies & Supervision

Presentations:

Application of Nanofluids in HVAC Systems

Students: Rene Guzman, Ken Heinz, Pranav Singh
Mentor: Lash Mapa
Presentation: Student Research Day
American Society of Heating and Air Conditioning Engineers

Experimental Space Heating/Cooling Unit to Demonstrate the Effectiveness of Nanofluids as a Transfer Medium in HVAC Applications

Students: Pranav Pranav, Michael Wall
Mentor: Lash Mapa
Presentation: Student Research Day

Use of Nanofluids in Solar Heating Applications

Students: Pranav Pranav, Michael Wall
Mentor: Lash Mapa
Presentation: Student Research Day

Investigation of Corrosion Behavior of Nano

Students: K. J. Coleman
Mentor: Lash Mapa
Presentation: Student Research Day
Funding: URGP

Created interactive training application to train new employees at steel mills on threading a sheath

Students: Bob Stickle
Mentor: Jana Whittington
Presentation: Inland Steel

Research Projects:

Nanofluids

Students: Astha Gupta
Mentor: Lash Mapa
Funding: URGP

Solar Energy

Students: Christopher Colella
Mentor: Lash Mapa

Funding: URGP

Exp Aids

Students: Ahuja Sakun
Mentor: Lash Mapa
Funding: URGP

Created an interactive DVD for elementary school age children in Christian schools

Students: Brandi Collier
Mentor: Jana Whittington

Experimented with video production and file formats to sell and make money for their organizations

Students: James Dragoo, David Rosado
Mentor: Jana Whittington

Created promotional materials for the Baja cars in MET/ASEE and promoted the event

Students: Scott Dyer
Mentor: Jana Whittington

Worked to set up an "e-bay type" website business for nonprofits to sell and make money for their organizations

Students: Seth Kramer
Mentor: Jana Whittington

Created an interactive CD for elementary school age children in public schools

Students: Brennan Pierce
Mentor: Jana Whittington

Senior Design Project

Students: Brett Baranowski, James Dragoo, Erin Holiday, Seth Kramer,
David Rosado, Curtis Sanchez
Mentor: Jana Whittington

Senior Project

Students: Mark Anthony, Jennifer Christoff, Timothy Comegys, Rene
Guzman, Kenneth Heinz, Scott Larson, George Natt, Kevin
O'Connor, Opal Sabrina Penso, Shawn Thomas
Mentor: Mohammed Zaharee