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URSS 2009 Program Booklet

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Special Thanks!

Thank you to the many offices and individuals whose hard work and dedication made this event possible!

Provost Ralph L. Pearson

Dr. Alan Seadler, Julie Christy, and the Office of Research
Dr. Alexandra Gregory, Melanie Simile, and the Office of Academic Affairs

And finally – the Student Planning Committee:

Kristen Friedrich - Chair

Kaitlyn Burrier

Susan Dattalo

Margaret Inden

Kylie LaSota

Lauren Marbella

Bryan Seybert

Thanks for all of your hard work, great ideas, and dedication to the event!



First Annual Undergraduate Research and Scholarship Symposium

Power Center Ball Room April 15th, 2009

Sponsored by: Office of the Provost Office of Research Center for Biotechnology

Schedule of Events

11:00 ^{am}	Doors open to the public
11:00 ^{am} - 1:00 ^{pm}	Informal poster session*
1:00 ^{pm} Official welcome	Provost Ralph L. Pearson
$1:00^{pm} - 4:00^{pm}$	Formal presentations
4:30 ^{pm} Awards and Keynote Speaker	Speaker: Dr Michael Irwin
5:15 ^{pm}	Remarks: President Charles J. Dougherty
5:30 ^{pm}	Reception
5:00 ^{pm} - 6:00 ^{pm}	Informal poster session*
6:00 ^{pm}	Closing remarks

^{*}Guests are encouraged to walk around, peruse students' projects, and engage with the students

Formal Presentations

Time	Presenter(s) and Title
1:00	Peter Horne A.J. Palumbo School of Business Administration Trust and Market Efficiencies
1:20	Kaitlyn Yoha Bayer School & McAnulty College Determining the Position of Adiabatic Demagnetization Refrigerator in the Micro-X Sounding Rocket
1:40	Steven Barrows Bayer School of Natural and Environmental Sciences Kinetics of Growth and Chromium Reduction in Geobacter metallireducens and Sulfurosprillum barnesii Grown on Nitrate and Chromium
2:00	Casey Myburgh, Nikki Cargiene, Shane Smith, & Zach Braun McAnulty College and Graduate School of Liberal Arts Internalizing our Universities: Case Studies in Authentically Connection Mission-driven Universities to International Students
2:20	James Vogelgesang A.J. Palumbo School of Business Administration Does the Effect of Government Size on Social Welfare Vary with Level of Economic Development?
2:40	Matthew J. Taylor Bayer School of Natural and Environmental Sciences Efficacy of Environmentally Friendly Reducing Agents in Copper(II) Catalyzed Atom Transfer Radical Addition
3:00	Sara Heinlein McAnulty College and Graduate School of Liberal Arts Social and Emotional Development in Infancy: The Impact of Toys
3:20	Beverly Flaherty School of Education Using Interest of a Few to Spark the Interest of the Whole: Students as Experts in Museum Exploration
3:40	Amanda Sgroi & Josh Koslosky McAnulty College and Graduate School of Liberal Arts Perceptually Adaptive Bilateral Filtering – A Denoising Technique for Image FidelityNumerical Methods for Total Variation Based Denoising

Participants by Location Posters and Papers

1 - Jordan C. Humphrey

Bayer School of Natural and Environmental Sciences

Characterization of Steroid Sulfatase in the Human MG-63 Pre-Osteoblastic Cell Line

2 - Maria K. Barron

McAnulty College and Graduate School of Liberal Arts

Citizen 'Jane': Orson Welles, Jane Eyre, and Wartime Women

3 - Cara Fisher

Bayer School of Natural and Environmental Sciences

Degenerate Cloning of DEADSouth in Eleutherodactylus coqui

4 - Kylie LaSota

School of Education

Darwin 2009: Footprints of Our Past Bridging Our Future

5 - Miles Kaltenbach

Bayer School of Natural and Environmental Sciences

Dibenzoylmethane Complexes of Cobalt: Nature of the Cobalt Complexes and Diazoaromatic Bases vs. the Structures

6 - Jacqueline Bliley & Caitlin Feth

John G. Rangos Sr. School of Health Sciences & Bayer School of Natural and Environmental Sciences

Reproductive Condition Affects Locomotory Activity in Salamander

7 - Roberta Diller

Baver School of Natural and Environmental Sciences

Examination of the Bacterial Composition of Murphy's Bottom Wetland Before, During, and After Restoration

8 - Taylor Gentile

Mylan School of Pharmacy

Diamond-like Semiconductors

9 - Nicole Aucoin

Bayer School of Natural and Environmental Sciences

Developing Tools for *in vivo* Transposon Mutagenesis of *Streptomyces* coelicolor

10 - Chistina Helen Calise

A.J. Palumbo School of Business Administration

Forecast and Failure Models: Light of Life's Bridge Housing Program

11 - Lauren Marbella

Bayer School of Natural and Environmental Sciences

The Design and Development of a New Fluorescent Pb2+ Sensor

12 - Hayley Stack

McAnulty College and Graduate School of Liberal Arts

Israel's Human Rights Violation: The Use of Cluster Bombs in Lebanon

13 - Emily Adams

Bayer School of Natural and Environmental Sciences

Estimating Female Effective Population Size of Bluebreast Darter Populations Using Heteroplasmic Mitochondrial Repeat Element

14 - James Vogelgesang

A.J. Palumbo School of Business Administration

Does the Effect of Government Size on Social Welfare Vary with Level of Economic Development?

15 - Ashley Biernesser

Bayer School of Natural and Environmental Sciences

A Study of the Fluxional Behavior of Nitrogen-based Heterocyclic Copper(II) Complexes in Atom Transfer Radical Addition

16 - Casey Myburgh, Nikki Cargiene, Shane Smith, & Zach Braun

McAnulty College and Graduate School of Liberal Arts

Internalizing our Universities: Case Studies in Authentically Connection Mission-driven Universities to International Students

17 - Christine Swanson

Bayer School of Natural and Environmental Sciences

Analysis of Lead and Barium Concentrations in Bullets, Shell Casings, and GSR

18 - Peter Horne

A.J. Palumbo School of Business Administration

Trust and Market Efficiencies

19 - Jena Patterson

Bayer School of Natural and Environmental Sciences

Organization of Microbiota in the Lumen of Arsenic Treated Mice

20 - Erika Tenner

John G. Rangos Sr. School of Health Sciences

Current Driver's Reaction Times: Comparing Populations

21 - Bryan Seybert

Bayer School of Natural and Environmental Sciences

22 - Johanna Bezjak

Mylan School of Pharmacy

Preparation of Amorphous Dispersion Using Plasdone K-29/32 (PVP) and Carbamazepine

23 - Jordan VerPlank

Bayer School of Natural and Environmental Sciences

Differential Expression and Alternative Splicing of TRPV1 in Rats

24 - Susan Datallo

McAnulty College and Graduate School of Liberal Arts

Women in Plato's Republic

25 - Steven Barrows

Bayer School of Natural and Environmental Sciences

Kinetics of Growth and Chromium Reduction in Geobacter metallireducens and Sulfurosprillum barnesii Grown on Nitrate and Chromium

26 - Josh Koslosky

McAnulty College and Graduate School of Liberal Arts

Numerical Methods for Total Variation Based Denoising

27 - Kenneth Drombosky

Bayer School of Natural and Environmental Sciences

Carbometallation Using Metallated Nitriles

28 - Beverly Flaherty

School of Education

Using Interest of a Few to Spark the Interest of the Whole: Students as Experts in Museum Exploration

29 - Candice Kruth

Bayer School of Natural and Environmental Sciences

Discovery of a Novel TRPM8 Splice Variant in Rats and its Implication in Neuropathic Pain

30 - Sara Heinlein

McAnulty College and Graduate School of Liberal Arts

Social and Emotional Development in Infancy: The Impact of Toys

31 - Sean Noonan

Bayer School of Natural and Environmental Sciences

Atom Transfer Radical Addition (ATRA) using Triethylboraneair as a Reducing Agent at Low Temperatures

32 - Carli Henson

McAnulty College and Graduate School of Liberal Arts

Female Circumcision in Africa: The Challenge of Eradication

33 - Andrea Jacobs

Baver School of Natural and Environmental Sciences

Using the Patella for Sex Identification of Human Skeletal Remains in a Pilot Study

34 - Kaitlyn Burrier

McAnulty College and Graduate School of Liberal Arts

35 - Brinley Kantorski

Bayer School of Natural and Environmental Sciences

Improving Science Literacy at Pittsburgh Cultural and Educational Institutions

36 - Katie Park

Mylan School of Pharmacy

The Nitroreductase from Clostridium oremlandii sp. strain OhlLAs

37 - Kailey Ruszkowski & Gabriela Cabanilla

Bayer School of Natural and Environmental Sciences

Hepatitis C Viral RNA Interactions Occur via Kissing Loop Interactions

38 - Caitlin Conko

McAnulty College and Graduate School of Liberal Arts

Women in the Workplace: Getting Through the Day

39 - Dominik Beer

Bayer School of Natural and Environmental Sciences

The Role of Ectoderm/Mesenchyme Interactions on Limb Bud Development

40 - Edward Strauser

McAnulty College and Graduate School of Liberal Arts

Gender Differences in Neuropsychological Performance Among Concussed Athletes, a Secondary Data Analysis

41 - Katelyn Boone

Bayer School of Natural and Environmental Sciences

Characterization of Novel Pigments in the Darters *Etheostoma caeruleum* and *E. blennioides*

42 - Jason Vigneault

A.J. Palumbo School of Business Administration

Forecasting GDP Quarterly Utilizing Monthly Data

43 - Jordan Espenshade

Bayer School of Natural and Environmental Sciences

A Pilot Study of Sexual Dimorphism in Human 5th Metatarsal Bones

44 - Amanda Sgroi

McAnulty College and Graduate School of Liberal Arts

Perceptually Adaptive Bilateral Filtering – A Denoising Technique for Image Fidelity

45 - Kelly DiMattio

Bayer School of Natural and Environmental Sciences

Identification and Analysis of Novel Gorilla Numts

46 - Kaitlyn Yoha

Bayer School of Natural and Environmental Sciences & McAnulty College

Determining the Position of Adiabatic Demagnetization Refrigerator in the Micro-X Sounding Rocket

47 - Kourtney Krohn

Bayer School of Natural and Environmental Sciences

Expression of Tbx4 in Limb Development of the Xenopus laevis tadpole

48 - David Richie

McAnulty College and Graduate School of Liberal Arts

Stopping the Violence: Small Arms and International Efforts to Regulate the Trade

49 - Benjamin Latoche

Bayer School of Natural and Environmental Sciences

The Murphy's Bottom Ecological Project Website

50 - Christopher M. Sidun Mylan School of Pharmacy

Docking Simulation Workbook

51 - Allison Pogue

Bayer School of Natural and Environmental Sciences

Darwin 2009: A Year of Education and Celebration

52 - Ronald T. Baumiller Jr.

McAnulty College and Graduate School of Liberal Arts

Imitation, the Nobel Lie, and a Broader Argument in Plato's Republic

53 - Matthew J. Taylor

Bayer School of Natural and Environmental Sciences

Efficacy of Environmentally Friendly Reducing Agents in Copper(II) Catalyzed Atom Transfer Radical Addition

54 - Bridget M. Fitzpatrick

A.J. Palumbo School of Business Administration

Gendering in Virginia Woolf's *Orlando*, *Mrs. Dalloway*, and "A Room of One's Own", and Film Adaptation