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!
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

4:30 pm 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

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

1 - Jordan C. Humphrey
Bayer School of Natural and Environmental Sciences
Characterization of Steroid Sulatase 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 Billey & 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
Bayer 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 - Christina 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 Biermesser
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 Sulfurospirillum 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
Bayer 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 OhILAs

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