

15<sup>th</sup>  
ANNUAL

STUDENT  
RESEARCH  
SYMPOSIUM



2013

Sponsored by  
Glenn R. Sharfman  
Vice President and Dean  
for Academic Affairs



**Manchester**  
University

# Manchester University Student Research Symposium

April 30, 2013

3:30 - 5 p.m.

## SESSION I - Academic Center, Room 146

Faculty Evaluator - Anthony Cashio

*Annexation of Hawai'i: Who Really Wanted It?*

3:35 - 3:55 p.m.

**BRENNA AUKER**..... Class of '13

Major - History & Computer Science

Mentor - Katherine Tinsley

*Fit in History: Changes in the Perceptions of Physical Fitness*

4 - 4:20 p.m.

**JAMES BARTH**..... Class of '13

Major - History

Mentor - Katherine Tinsley

*Congregational Political Sermons and the American Revolution: A*

*Natural Justification*

4:25- 4:45 p.m.

**ELIZABETH STULL**..... Class of '14

Major - History

Mentors - Marjan Boogert & Katherine Tinsley

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## SESSION II - Academic Center, Room 149

Faculty Evaluator - Frank Olive

*Listening to Quiet: Giving Introverts a Chance to Speak*

3:35 - 3:55 p.m.

**JESS RINEHART**..... Class of '13

Major - Communication Studies

Mentor - Dave Switzer

*Cross-Cultural Communication in Business: A Comparative Study of  
Managerial Communication*

4 - 4:20 p.m.

**KATRIN MUSER**..... Class of '15

Major - Sport Management

Mentors - Dave Switzer & Timothy Ogden

*The Permissive Society and Labour Government in 1960s Britain*

4:25 - 4:45 p.m.

**ASHLIE BIDDLE**..... Class of '13

Major - History

Mentor - Mark Angelos

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## SESSION III - Academic Center, Room 232

Faculty Evaluator - Michelle Calka

*Venus, Cupid, Folly, and Time: Evidence of Mannerism's Genius*

3:35 - 3:55 p.m.

**AMANDA KEATING**..... Class of '14

Major - Art

Mentor - Thelma Rohrer

*Religion, Landscape, and Disease in German Renaissance Art*

4 - 4:20 p.m.

**FELICIA NICHOLS**..... Class of '14

Major - Art

Mentor - Thelma Rohrer

*Rhythmic Ambiguity in Fauré's Nocturne Opus 114, No. 1*

4:25 - 4:45 p.m.

**OSCAR ERWIN**..... Class of '14

Major - Music Composition & Theory

Mentor - John Planer

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**SESSION IV - Academic Center, Room 234**

**Faculty Evaluator - John Deal**

*Hamlet's Morality in Text and Production*

3:35 - 3:55 p.m.

**EMILY KRABACH**..... Class of '15

Major - English

Mentor - Stacy Erickson

*Authors are Useless - A commentary on the motivation of readers and their ability to create a text's true meaning*

4 - 4:20 p.m.

**NICHOLAS SALUPO**..... Class of '13

Major - Athletic Training & Biology-Chemistry

Mentor - Stacy Erickson

*The Horned God: Resurrecting a New Masculinity*

4:25 - 4:45 p.m.

**SAMUEL OTT**..... Class of '13

Major - Religion

Mentor - Kate Eisenbise

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**SESSION V - Academic Center, Room 236**

**Faculty Evaluator - Kim Duchane**

*Open Yet Closed: The Story of Ministerial Leadership in the Church of the Brethren*

3:35 - 3:55 p.m.

**TODD EASTIS**..... Class of '14

Major - Sociology & Religion

Mentor - Walt Wiltschek

*Medievalism, War, and Cheese: How Joan of Arc Inspires Nations*

4 - 4:20 p.m.

**SHANELL BRAZO**..... Class of '14

Major - History

Mentor - Janina Traxler

*Problems with the 1948 United Nations Convention on the Prevention and Punishment of Genocide*

4:25 - 4:45 p.m.

**KATY HERDER**..... Class of '14

Major - Peace Studies

Mentor - Katy Gray Brown

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**SESSION VI - Academic Center 238**

**Faculty Evaluator - Mike Martynowicz**

*Students' Perceptions of Sexual Assault at a Small Liberal Arts College*

3:35 - 3:55 p.m.

**BRANDY LEEPER**..... Class of '14

Major - Criminal Justice & Psychology

**TRINITY SCHELICH**..... Class of '15

Major - Psychology

Mentors - Rusty Coulter-Kern & Hannah Stork

*Reasons Why Students Return to College: A Qualitative Analysis*

4 - 4:20 p.m.

**DEREK JONES**..... Class of '13

Major - Psychology

Mentor - Rusty Coulter-Kern

**ANDREW KURTZ**..... Class of '13

Major - Psychology

Mentor - Rusty Coulter-Kern

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**SESSION VII - Academic Center, Room 101**

**Faculty Evaluator - Michael Slavkin**

*I-STEP or Misstep: Examining the Correlation between Students' Performance on Acuity Tests and the I-STEP*

3:35 - 3:55 p.m.

**JORDAN KINN**..... Class of '13

Major - Early & Middle Childhood Generalist & Mild Interventions

Mentor - Heather Schilling

*The Paradigm Shift: The Relativistic Approach of K-12 Social Studies Education*

4 - 4:20 p.m.

**DREW GRABER** ..... Class of '13

Major -Elementary & Secondary Education

**CHANDLER POGUE** ..... Class of '14

Major - History

Mentor - Heather Schilling

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**SESSION VIII - Academic Center, Room 354**

**Faculty Evaluator - Zach Dougal**

*The Effect of Smoking and Age on Oxygen Ventilatory Equivalents in Sedentary Individuals*

3:35 - 3:55 p.m.

**MAKENNA HAMILTON** ..... Class of '14

Major - Athletic Training

**LEE MELLING** ..... Class of '13

Major - Exercise Science & Fitness

Mentor - Mark Huntington

*Effects of Environmental Temperature on Blood Pressure and Oxygen Consumption During Exercise*

4 - 4:20 p.m.

**CHRISTINA GONZALEZ** ..... Class of '14

Major - Athletic Training

**JACOB MEYER** ..... Class of '14

Major - Athletic Training

Mentor - Mark Huntington

*The Effects of Energy Drink Consumption on Lactic Acid Formation During Exercise*

4:25 - 4:45 p.m.

**ROBERT HERITZ** ..... Class of '14

Major - Exercise Science & Fitness

**KYLE YODER** ..... Class of '14

Major - Exercise Science & Fitness

Mentor - Mark Huntington

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**SESSION IX - Academic Center, Room 356**

**Faculty Evaluators - Andy Rich**

*Research in Osteopathic Medicine: An Assessment on Examiner Reliability of the SA-201 Instrument*

3:35 - 3:55 p.m.

**BRANDON BACCARI** ..... Class of '13

Major - Biology-Chemistry

Mentor - Rachel Polando

*Square Achievement Game*

4 - 4:20 p.m.

**SARAH CARMAN** ..... Class of '14

Major - English

**MARCUS WYATT** ..... Class of '14

Major - Mathematics & Computer Science

Mentor - Timothy Brauch

*2012 Eel River Recreational Use Survey*

4:25 - 4:45 p.m.

**MATTHEW MILLER** ..... Class of '14

Major - Environmental Studies

Mentor - Matt Burlingame

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**SESSION X - Academic Center, Room 358**

**Faculty Evaluator - Sreenath Majumder**

*Genetic Characterization of the Chickadee Hybrid Zone in Northeast Indiana*

3:35 - 3:55 p.m.

**BENJAMIN CLOUD** ..... Class of '13

Major - Biology & Environmental Studies

Mentors - Kristen Short & Jerry Sweeten

*Redside Dace (Clinostomus elongatus) in Mill Creek, Wabash County, Indiana: A Strategy for Research and Augmentation*

4 - 4:20 p.m.

**AMBER MELICK** ..... Class of '13  
Major - Biology & Environmental Studies  
Mentor - Jerry Sweeten

*Agonistic Behaviors of Male Deer Mice (Peromyscus maniculatus) and Their Investigation of Females Based on the Number of Females Present*

4:25 - 4:45 p.m.

**KELSIE BIGLIN** ..... Class of '13  
Major - Biology  
Mentor - Aron Costello

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#### **SESSION XI - Academic Center, Room 362**

**Faculty Evaluator - Kristen Short**

*Water Splitting in Photosystem II*

3:35 - 3:55 p.m.

**EMILY EHLERDING** ..... Class of '14  
Major - Chemistry & Physics  
Mentor - Christer Watson

*Emissivity of  $\beta$ -Cloth after 8.6 Years Exposure to Low Earth Orbit*

4 - 4:20 p.m.

**ALYSSA LOOS** ..... Class of '13  
Major - Physics  
Mentor - Greg Clark

*Fluorescent Carbon Nanodots: A Procedural Replication of a Green Synthesis from Soy Milk*

4:25 - 4:45 p.m.

**RODNEY TIGAA** ..... Class of '13  
Major - Chemistry  
Mentor - Kathryn Davis

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#### **SESSION XII - FIRST YEAR SEMINAR SESSION - Academic Center, Room 364**

**Faculty Evaluator - Leonard Williams**

*No Bones About it: The History of Joint Replacement*

3:35 - 3:55 p.m.

**BRIAN ANDERSON** ..... Class of '16  
Major - Biology-Chemistry  
Mentor - Beate Gilliar

*From Bra Burning to Brief Cases and Stilettos: Have Women Really Advanced?*

4 - 4:20 p.m.

**KATHERINE SKEEN** ..... Class of '16  
Major - Political Science & Economics  
Mentor - Beate Gilliar

*Jesus: Here and Now*

4:25 - 4:45 p.m.

**JACOB RAY** ..... Class of '16  
Major - English  
Mentor - Justin Lasser

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#### **SESSION XIII - FIRST YEAR SEMINAR SESSION - Academic Center, Room 369**

**Faculty Evaluator - Jeff Diesburg**

*Sexuality in Fairy Tales: Determining the Roles in "Little Red Riding Hood"*

3:35 - 3:55 p.m.

**RACHEL LAING** ..... Class of '16  
Major - English & Language Arts Education  
Mentor - Katharine Ings

*Give Peace a Chance: Domestic Resistance to United States Militarism in Southeast Asia*

4 - 4:20 p.m.

**SAMUEL TORGERSON** ..... Class of '16

Major - Peace Studies

Mentor - Katy Gray Brown

*Academic vs. Non-Academic Sources on Being Personally Creative*

4:25 - 4:45 p.m.

**EMILY PLEADWELL** ..... Class of '15

Major - Mathematics

Mentor - Jim Falkiner

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**SESSION XIV - POSTER SESSION - Speicher Room, upper Union**  
**Faculty Evaluators -Arturo Yañez, Jeffrey Osborne**

**Group A - 3:30 - 3:50 p.m.**

*Identification of Pathogenic and Non-Pathogenic Skin Flora on Equipment Used by the Manchester University Football Team in the Fall of 2012*

**AUDREY DEITRICH** ..... Class of '13

Major - Biology

Mentor - Rachel Polando

*Catalyst Processing and Analysis for Green Fuel Production*

**MACIE PRICE** ..... Class of '14

Major - Chemistry

Mentor - Susan Klein

*Hedgehog Signaling Mediates Interferon-Gamma Induced Mesenchymal Stem Cell Proliferation and Recruitment to the Stomach*

**MATTHEW HELM** ..... Class of '13

Major - Biology

Mentor - Rachel Polando

*Examination of Flute, Saxophone, and Trumpet for S. aureus, B. cerues, and N. mucosa*

**TIFFANY YORK** ..... Class of '14

Major - Biology

Mentor - Rachel Polando

**Group B - 3:50 - 4:10 p.m.**

*The Last Time I Went to a Cocktail Party, I Lost My Poodle Skirt*

**JOEY HOLT** ..... Class of '13

Major - Psychology

**ZABRIAN MILLS** ..... Class of '14

Major - Psychology

**STEPHANIE WILSON** ..... Class of '13

Major - Psychology

Mentor - Ashleigh Maxcey-Richard

*Parental Involvement and College Student Academic Success*

**ASHLEY LANDRUM** ..... Class of '14

Major - Psychology

**LOUISE MAGIERA** ..... Class of '14

Major - Psychology

**JOHN MCCALL** ..... Class of '14

Major - Psychology

Mentor - Marcie Coulter-Kern

*Remembering the Get-Away Car Hurts Your Memory for the Robber: Retrieval-Induced Forgetting for Visual Images*

**DYLAN HINER** ..... Class of '13

Major - Psychology

**TED MALDONADO** ..... Class of '14

Major - Psychology

**JESSICA STAFFORD** ..... Class of '13

Major - Psychology

Mentor - Ashleigh Maxcey-Richard

*The Relationship between Job Performance and Job Satisfaction in College Students*

**KAITLYN DEWITT** ..... Class of '13  
Major - Psychology

**MARGARET HESS** ..... Class of '13  
Major - Political Science & Psychology

**TAYLOR JANTZI** ..... Class of '15  
Major - Psychology

**MEGAN SPICE** ..... Class of '15  
Major - Psychology  
Mentor - Rusty Coulter-Kern

**Group C - 4:10 - 4:30 p.m.**

*Analysis of Student Workbook Use in IPPE Community Pharmacy*

**EZZA IFTIKHAR** ..... Class of '16  
Major - Doctorate of Pharmacy  
Mentors - Ahmed Abdelmageed & Mary Kiersma

*Assessment of Factors Affecting the Use of Instructional Instruments During Pharmacy Practice Experience*

**JUSTIN CORNEWELL** ..... Class of '16  
Major - Doctorate of Pharmacy  
Mentors - Ahmed Abdelmageed & Mary Kiersma

*Evaluation of Workbook and Instrument Uses for IPPE and APPE Rotations in Pharmacy Schools*

**KIMBERLY PERKINS** ..... Class of '16  
Major - Doctorate of Pharmacy  
Mentors - Ahmed Abdelmageed & Mary Kiersma

**Group D - 4:30 - 4:50 p.m.**

*A Case Study Presentation on Synovial Sarcoma in a Track Athlete*

**MAKENNA HAMILTON** ..... Class of '14  
Major - Athletic Training  
Mentor - Erin Foreman

*The Effects of Vocal Cue-Training on Lie Detection*

**JESSICA BOSTIC** ..... Class of '15  
Major - Psychology  
**ASHLEA KOEHL** ..... Class of '14  
Major - Psychology  
Mentor - Marcie Coulter-Kern

*Applied Program Evaluation & Management: Manchester University Intramural Program*

**TYLER KREMPASKY** ..... Class of '13  
Major - Sport Management  
Mentor - Ryan Hedstrom

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# *Reception and Awards*

5:15 - 6 p.m.  
upper Union rooms  
All are welcome.



Student Research Symposium Committee  
Lynne F. Margolies, chair  
Timothy M. Brauch  
Ejenobo Oke



Our sincere thanks to all of the people who worked hard to make this year's Manchester University Student Research Symposium a success, including the student conveners, the faculty evaluators, the faculty mentors, Chartwells, and anyone else we may have missed!

A special thanks to Katie Winkler, administrative assistant, and Arturo Yañez, photographer.

We invite you to view the Manchester University 2013 Annual Juried Student Art Show on display in Link Gallery, Otho Winger Hall.

We recognize and appreciate your dedication to the students of Manchester University.

