Manchester University
Student Research Symposium
Sponsored by the Office of Academic Resources
April 29, 2016
3:30 - 6:15 p.m.

Oral Presentations – Academic Center, Various Rooms

Audience Arrival in Presentation Rooms, Academic Center
3:30 - 4 p.m.
Student Volunteer: Karen Kanyike

Session I – Academic Center, Room 133
Faculty Evaluator: Dr. Sun Kang
Student Convener: Jacob Ray

Under the Hood: Historical and Cultural Tensions of the Hoodie
4 - 4:20 p.m.
Michael Dixon .................................................. Class of ‘16
Major: English
Mentor: Dr. Katharine Ings

Apraxia of Speech: The Fight for Words
4:25 - 4:45 p.m.
Jessica Klemm .................................................... Class of ‘17
Major: English
Mentor: Dr. Jonathan Watson
Session II – Academic Center, Room 146
Faculty Evaluator: Dr. Jeff Osborne
Student Convener: Emily Wells

Hybridization Analysis of Two Interbreeding Species of Chickadees, Black-Capped (Poecile atricapillus) and Carolina Chickadees (Poecile carolinensis), in Northern Indiana
4 - 4:20 p.m.
Amanda Basham ................................................................. Class of ‘16
Major: Biology
Mentor: Dr. Kristen Short

Comparison of Leaf Litter Decomposition Rates in Relation to the Impact of an Invasive Plant Species on a Native Ecosystem
4:25 - 4:45 p.m.
Kaylene Davila .................................................................... Class of ‘16
Major: Biology
Mentor: Dr. Kristen Short

Session III – Academic Center, Room 149
Faculty Evaluator: Jena Oke
Student Convener: Emily Barrand

Assessment Survey of the Eel River 2015
4 - 4:20 p.m.
Alan Mock ........................................................................... Class of ‘17
Major: Environmental Science
Mentor: Dr. Jerry Sweeten

Spatial Variability of Fish Community Structure in Two Agricultural Warm-water Streams: Beargrass Creek and Pawpaw Creek Watersheds in Wabash County and Miami County, Indiana
4:25 - 4:45 p.m.
William Pigg .......................................................................... Class of ‘17
Major: Environmental Science
Mentor: Dr. Jerry Sweeten
Session IV – Academic Center, Room 232
Faculty Evaluator: Dr. Judd Case
Student Convener: Caleb Noffsinger

Wythoff’s Game
4 - 4:20 p.m.
Benjamin Bolen ................................................................................................................ Class of ‘16
Major: Mathematics
Mentor: Dr. Andrew Rich

Success in the Eye of the Beholder: Differing Perceptions of College Student Success
4:25 - 4:45 p.m.
Kailah Glock ................................................................................................................ Class of ‘16
Major: Psychology
Mentor: Dr. Marcie Coulter-Kern

Session V – Academic Center, Room 234
Faculty Evaluator: Dr. Kate Eisenbise Crell
Student Convener: Hannah Wales

Modeling Stellar Bodies through Numerical Simulation
4 - 4:20 p.m.
Luke Thomas ............................................................................................................. Class of ‘16
Major: Physics
Mentor: Dr. Christer Watson

Colonization and Modern Economic Levels
4:25 - 4:45 p.m.
Caleb Leininger ........................................................................................................ Class of ‘16
Major: Economics, Political Science, Spanish
Mentor: Dr. Sreenath Majumder
Influence of Eastern European Music on Janacek’s First String Quartet  
4 - 4:20 p.m.  
Christopher Hartman.................................Class of ‘16  
Major: Music  
Mentor: Dr. John Planer  

Baptism by Fire: American Airborne Divisions and the Invasion of Normandy  
4:25 - 4:45 p.m.  
Craig Thacker.................................Class of ‘16  
Major: History  
Mentor: Dr. Katherine Tinsley  

Protect your Acorns: The Importance of Early Childhood Education  
4 - 4:20 p.m.  
Sara Anderson.................................Class of ‘16  
Major: Educational Studies, Management  
Katelyn Heath.................................Class of ‘16  
Major: Accounting  
Renee Neher.................................Class of ‘16  
Major: Accounting  
Mentor: Joe Messer  

Fish Populations Upstream Compared to the Fish Populations Downstream of a Low Head Dam on the Eel River in Mexico, Indiana  
4:25 - 4:45 p.m.  
Cassandra Root.................................Class of ‘17  
Major: Environmental Science  
Mentor: Dr. Jerry Sweeten
The Application of the Disney Integration Matrix on a College Campus
Katy Ashpole .............................................................................. Class of ‘17
Major: Psychology

Jarod Shrock ................................................................................ Class of ‘16
Major: Educational Studies
Mentor: Dr. Rusty Coulter-Kern

Novel Synthesis and Analysis of Complex Azo Dyes Using Electrophilic Aromatic Substitution
Kyle Carothers ............................................................................. Class of ‘16
Major: Chemistry
Mentor: Dr. Susan Klein

Value of Welcome Week throughout the Student Experience
Taylor Crisman ................................................................................ Class of ‘18
Major: Psychology

Ashleigh Ridenour ........................................................................ Class of ‘18
Major: Psychology
Mentor: Dr. Marcie Coulter-Kern

Electrocatalytic Analysis of Thin Film Carbon Nanodots for Oxygen Reduction
Clayton Curtis ............................................................................... Class of ‘16
Major: Chemistry
Mentor: Dr. Kathy Davis

Rebranding the University of Alabama at Birmingham Football Program
Ethan Foster .................................................................................. Class of ‘18
Major: Sport Management

Blake Moore .................................................................................. Class of ‘18
Major: Communication Studies

Daniel Massucci ............................................................................. Class of ‘18
Major: Sport Management
Mentor: Dr. Ryan Hedstrom
Exploring Determinants of Student-Athlete Attrition at Manchester University
Jafet Garcia ................................................................. Class of ‘17
Major: Marketing
Mentor: Dr. Sun Kang

The Development of Succinimide-Oxamazin Derivatives as Potential Antibiotics
Martin Garcia ............................................................. Class of ‘16
Major: Chemistry
Mentor: Dr. Jeff Osborne

Student Perceptions of Socioeconomic Status
Kailah Glock ............................................................... Class of ‘16
Major: Psychology
Mentor: Dr. Mary Lahman

Three Mealworm Species Detection of Polystyrene Biodegradation by Mass
Jessica Noll ................................................................. Class of ‘16
Major: Biology-Chemistry
Mentor: Dr. Jeff Osborne

Exploring College Students’ Perceptions about Walmart
Allison Rowe ............................................................ Class of ‘16
Major: Management, Marketing
Mentor: Dr. Sun Kang

Resilience in Adolescent Girls Across Environmental Contexts
Leah Smith ................................................................. Class of ‘18
Major: Psychology
Lucas Al-Zoughbi ....................................................... Class of ‘17
Major: Peace Studies, Psychology
Mentor: Dr. Marcie Coulter-Kern
The Impact of Person-Organization Fit on Employee Engagement, Turnover Intention, and Tenure

Jeremy Williams ......................................................... Class of ‘17
Major: Psychology, Communication Studies

AJ Kupstis ................................................................. Class of ‘18
Major: Psychology

Tyler A. Smith ............................................................ Class of ‘16
Major: Psychology

Emily Witvoet ............................................................. Class of ‘16
Major: Psychology
Mentor: Dr. Jack Wiley

Student Satisfaction with On-Campus Residency

Amber Willwerth ......................................................... Class of ‘18
Major: Psychology

Andrea Holbrook ........................................................ Class of ‘16
Major: Psychology
Mentor: Dr. Marcie Coulter-Kern

How Commuting Impacts Campus Engagement

Shyan Fortuna ............................................................... Class of ‘18
Major: Psychology

Tiffany Nicole Harber ................................................... Class of ‘17
Major: Psychology
Mentor: Dr. Marcie Coulter-Kern

The Effect of Inhibitory Brain Stimulation on Recognition-induced Forgetting

Hannah Glenn .............................................................. Class of ‘16
Major: Psychology

Caniece Leggett ............................................................. Class of ‘16
Major: Psychology
Mentor: Dr. Marcie Coulter-Kern
An Interdisciplinary Laboratory Experience in Pharmacogenetics: Population Genetics of the CYP2C19.2 Allele in the P2 Pharmacy Class

Barbara Suh ................................................................. Class of ‘17
Major: Pharmacy
Ana Vargas ................................................................. Class of ‘17
Major: Pharmacy
Mentor: Dr. Diane Calinski

Investigation of Dithiolethione 59 as Potential Neuroprotective Antiparkinsonian Agent

Iman Aoude ................................................................. Class of ‘17
Major: Pharmacy
Steven Fuentes ........................................................... Class of ‘17
Major: Pharmacy
Yamini Patel ............................................................. Class of ‘18
Major: Pharmacy
Mentors: Dr. Swati Betharia and Dr. Dennis Brown

Keynote Presentation – Hoff/Lahman Rooms, Jo Young Switzer Center, upper level
5:45 - 6:15 p.m.

My Search for the Pale Red Dot: Detection and Modeling of Saturation Behavior of Eu Ion Emission in Eu-doped GaN under UV Excitation

Ciara Kerckhove ......................................................... Class of ‘17
Major: Physics
Mentor: Dr. Christer Watson

Presentation of Awards – Hoff/Lahman Rooms, Jo Young Switzer Center, upper level
6:15 - 6:25 p.m.

Symposium Participant Group Photo – Stairwell, Jo Young Switzer Center
6:30 p.m.
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Hoff, Lahman and Speicher Rooms are located in the Jo Young Switzer Center, upstairs.
Student Research Symposium
Master Itinerary

Academic Center
3:30 p.m. Programs Available, Lobby
4 - 4:20 p.m. Oral Presentation 1, Various Rooms
4:25 - 4:45 p.m. Oral Presentation 2, Various Rooms

Jo Young Switzer Center
4:45 - 5:45 p.m. Poster Presentations, Speicher Room
5:45 - 6:15 p.m. Keynote Presentation, Hoff/Lahman Rooms
6:15 - 6:25 p.m. Presentation of Awards, Hoff/Lahman Rooms
6:30 p.m. Symposium Participant Group Photo, Stairwell

Student Research Symposium Committee
Christer Watson, Chair
Kathrine Dwyer
Katharine Ings
Mike Martynowicz
Tim McKenna-Buchanan

Our sincere thanks to all of the people who worked to make this year’s Manchester University Student Research Symposium a success, including the student conveners, faculty evaluators, faculty mentors, Chartwells and many more. We recognize and appreciate your dedication to the students of Manchester University