



A CELEBRATION OF SCHOLARSHIP

J O H N C A R R O L L U N I V E R S I T Y

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2016 Schedule

John Carroll University recognizes the importance of strong academic achievement in its vision (graduating individuals of intellect), mission (excellence in learning), core values (a rigorous approach to scholarship), and strategic initiatives (a learning community of outstanding teacher-scholars).

The *Celebration of Scholarship* is held each spring at John Carroll University. This campus-wide event showcases the scholarship, creative activity, and intellectual achievement of the John Carroll community with a particular emphasis on undergraduate research. All sessions are free and open to the public unless otherwise noted.

This schedule is subject to change. Please see the web version for the latest updates: sites.jcu.edu/celebration.

Monday, April 11, 2016

All Week: **Celebrate the Art Exhibit**
Grasselli Library, Tully Atrium & Gallery

MON 3-5 p.m. Research Reception
Grasselli Library and Breen Learning Center, Muir Room
Sponsored by the Provost and Academic Vice President
and the Academic Deans
By invitation only

MON 5-6 p.m. Participant Reception
Dolan Science Center, Muldoon Atrium
Open to all Celebration Participants

**MON 5:30-7 p.m. Poster Session and Poster Competition
Including the Early College Presenters**
Dolan Science Center, Muldoon Atrium
Refreshments [See list of presenters on page 4.]

MON 9-11 p.m. The Arts at Night
Lombardo Student Center, The Underground
Refreshments

Tuesday, April 12, 2016

TUE Noon. Scholarly Lunch
Dolan Science Center, O'Connell Reading Room
(1) Dr. Marc Kirschenbaum, Mathematics and
Computer Science: "Successful Blending of Human and
Swarm Intelligences"
(2) Dr. Zeki Saritoprak, Theology & Religious Studies:
"Islamic Spirituality 101: Basics for the Modern World"
Reservations requested; open to members of the John
Carroll Community

**TUE 2-3:15 p.m. Paper/Panel Session A
Individual Paper Session**
Moderator: Dr. Elizabeth Antus, TRS
Dolan Science Center, A202
(1) Alora Cinicola: "Opinions of Catholic University
Students on Continuum of Life Issues"
(2) Mary Coffey: "Praying with Images: Encountering
God through Creative Expression"
(3) Pam Chaney: "Go and See: Creating Community,
Not Clients in Mark 6:34-44"

TUE 2-3:15 p.m. Paper/Panel Session C**Individual Paper Session**

Moderator: Dr. Wendy Wiedenhoft Murphy, Sociology & Criminology

Dolan Science Center, O'Connell Reading Room

- (1) Dr. Greg DiLisi: "Remembering the S. S. Edmund Fitzgerald"
- (2) Grace Donnelly: "Understanding Public Perceptions of U.S. Immigration Policy and Recommendations for Improving Immigration Policy"

TUE 3:30-4:45 p.m. Paper/Panel Session D**PANEL: Peacebuilding in Northern Ireland**

Moderator: Dr. Philip Metres, English

Dolan Science Center, A202

- (1) Kateri Dillon: "Bobby Sands and Baroness May Blood: The Role of Storytelling in Northern Ireland"
- (2) Emily Tusick: "Stories of Northern Ireland: The Website"
- (3) Kevin Kussmaul: "The Role of Religion in Peacebuilding in Northern Ireland"
- (4) Tyler Moran: "The Economics of Conflict in Northern Ireland"
- (5) Jill Sullivan: "Seamus Heaney and the Role of the Arts in Peacebuilding"

TUE 3:30-4:45 p.m. Paper/Panel Session E**PANEL: Women's Stories – Feminist Critiques of Personal Accounts, a Fairy Tale and a Classic Novel**

Moderator: Dr. Brent Brossmann, Tim Russert
Department of Communication & Theatre Arts

Dolan Science Center, A203

- (1) Elizabeth Golias: "Ethics in Dove's 'Choose Beautiful' Campaign"
- (2) Shannon Kinnear: "If the Shoe Fits: A Feminist Cinderella Story"
- (3) Ellen Liebenguth: "The Persuasion of Jane Austen's *Persuasion*"

TUE 3:30-4:45 p.m. Paper/Panel Session F**Individual Paper Session**

Moderator: Dr. Margaret Farrar, Dean, College of Arts & Sciences

Dolan Science Center, O'Connell Reading Room

- (1) Derek Jenkins: "The Fair Trade Movement and the Domestic Coffee Industry"
- (2) Dr. Brian Saxton: "Toward a Theory of Supply-side Mobility Constraint: Assessing Value Creation and Value Capture"
- (3) Dr. Simran Kahai: "Model for Determinants of Corruption"

TUE 5-6:15 p.m. Paper/Panel Session G**PANEL: Violence in Schools: What Can Professional School Counselors Do?**

Moderator: Dr. Nancy Taylor, Counseling

Dolan Science Center, A202

TUE 5-6:15 p.m. Paper/Panel Session H**PANEL: A Program Evaluation of Youth Services for Lutheran Metropolitan Ministry**

Moderator: Dr. Penny Harris, Sociology & Criminology

Dolan Science Center, A203

Presenters: Oriana Brenzo, Hope Camerino, Adam Chaney, Maria Mangione, Tyra Sandler, Vinh Trinh, Emily Tusick, Natalie Wetzel, and Mohamed Yugo

TUE 5-6:15 p.m. Paper/Panel Session I**SPEAKER PRESENTATION: Journey to Ararat**

Moderator: Dr. Jim Krukones, History

Pietro Shakarian, Alumnus

Dolan Science Center, O'Connell Reading Room

TUE 6:30 p.m. Mitsui Lecture

Dolan Science Center, Donahue Auditorium

Sponsored by the East Asian Studies Program

Wednesday, April 13, 2016**WED 2-3:15 p.m. Paper/Panel Session J****PANEL: Honors Panel**

Moderator: Dr. Angie Jones, Honors Program

Dolan Science Center, A202

- (1) Halle Herringshaw: "Human Embryonic Stem Cell Research vs. Alternative Stem Cell Research: Is There a Compromise?"
- (2) Tyler Nellis: "Economic Representation in Democracy"
- (3) Edward Zgrabik: "Evaluating the Inevitable: Chinese Cars in the United States"
- (4) Katelyn DeBaun: "Content, Interaction and Media Portrayal of Violence against African Americans in Mainstream and Citizen Journalism"

WED 2-3:15 p.m. Paper/Panel Session K**PANEL: Scenes from the Next Big TV Shows**

Moderators: Dr. Sharon Kaye, Philosophy, and Dr. Tom Pace, English

Dolan Science Center, A203

WED 2-3:15 p.m. Paper/Panel Session L CANCELLED

Dolan Science Center, O'Connell Reading Room

WED 3:30-4:45 p.m. Paper/Panel Session M**PANEL: New Beginnings – Rhetorical Analyses of Change**

Moderator: Dr. Brent Brossmann, Tim Russert
Department of Communication & Theatre Arts
Dolan Science Center, A202

- (1) Thomas Roth: "Apologia in LeBron James's Homecoming Letter to Cleveland"
- (2) Madeline Smanik: "A Rhetorical Criticism of Barack Obama's 2009 Inaugural Address"
- (3) Madison Suvak: "The Rebranding of Feminism for Today's Generation"

WED 5-6:15 p.m. Paper/Panel Session P**PANEL: Shining a Spotlight on Contemporary Social Issues: Sociology Faculty Discuss their Research**

Moderator: Dr. Susan Long, Sociology & Criminology
Dolan Science Center, A202

- (1) Dr. Medora Barnes: "'Sister Moms' and the World of Donor Kinship Networks"
- (2) Dr. Gassan Abess: "Analyzing Citizens' Reported Levels of Confidence in the Police: A Cross-National Study of Public Attitudes toward the Police in the United States and South Korea"
- (3) Dr. Richard Clark and Dr. Gloria Vaquera: "Gendered Changes in White University Students' Attitudes on Drug Policy in the United States: The Impact of Reading Alexander's 'The New Jim Crow'"
- (4) Dr. Penny Harris: "An Intergenerational Choir: Combating the Stigma of Alzheimer's Disease and Building Connections with College Students and People Living with Dementia and Their Family Members"

WED 5-6:15 p.m. Paper/Panel Session Q**PANEL: White Culture**

Moderator: Dr. Thea Ford, Education
Dolan Science Center, A203

WED 5-6:15 p.m. Paper/Panel Session R**Individual Paper Session**

Moderator: Dr. Deniz Durmus, Philosophy
Dolan Science Center, O'Connell Reading Room

- (1) Dr. Nathan Gehlert: "Impacts of Service Learning on Civic Attitudes and Skills" (with student participants)
- (2) Dr. Martha Pereszlenyi-Pinter: "On Your Toes in Tutus and Tights! 'Dancing with the [French] Stars,' from Louis XIV to Today"

WED 7:30 p.m. Special Event

Dolan Science Center, O'Connell Reading Room

Early College Panel Session

Moderator: Dr. Mark Storz, Education & School Psychology

- (1) Tamia Jackson: "The Correlation between Baby Blues and the Severity of Postpartum Depression"
- (2) Algeliq Hale: "The Impact that Sleep Deprivation Has on Implicit and Explicit Memory"
- (3) Yidiayah S. Box: "The Correlation between Emotional Disorders and Teen Obesity"

WED 6:30 p.m. Public Lecture**"Art, Ritual, and Sacred Space on the Silk Road"**

Presented by Professor Qiang Ning

Sponsored by the Walter and Mary Tuohy Chair of Interreligious Studies

Dolan Science Center, Donahue Auditorium

Thursday, April 14, 2016**THU 2-3:15 p.m. Paper/Panel Session S****Individual Paper Session**

Moderator: Dr. Medora Barnes, Sociology & Criminology
Dolan Science Center, A202

- (1) Matthew Hribar: "The Expression of Love within Undergraduates"
- (2) Emily Uterhark: "Intertwined: Vera Brittain's Approach to Feminism and Pacifism"

THU 2-3:15 p.m. Paper/Panel Session T**PANEL: Case Studies: Religion, Terrorism, and Culture Wars, Panel 1 of 2**

Moderator: Michele Stopera Freyhauf, Theology & Religious Studies

Dolan Science Center, A203

THU 3:30-4:45 p.m. Paper/Panel Session V**Individual Paper Session**

Moderator: Dr. Karen Gygli, Tim Russert Department of Communication & Theatre Arts
Dolan Science Center, A202

- (1) Alexya Perez: "Potential Effects for Establishing a Common Monetary Union between CARICOM"
- (2) Dr. Tamba Nlandu: "On the Concept of Fair Competition in Today's European Soccer Leagues"
- (3) Robert Haas: "Shirley Jackson's 'The Tooth': Dentistry as Horror, the Imagination as a Shield"

THU 3:30-4:45 p.m. Paper/Panel Session W**PANEL: Case Studies: Religion, Terrorism, and Culture Wars, Panel 2 of 2**

Moderator: Michele Stopera Freyhauf, Theology & Religious Studies

Dolan Science Center, A203

THU 3:30-4:45 p.m. Paper/Panel Session X**PANEL: Putting Creativity into Your Course**

Moderator: Dr. Jackie Schmidt, Tim Russert Department of Communication & Theatre Arts, Director of the Entrepreneurship Minor, Project Manager of the Burton D. Morgan Grant

Dolan Science Center, O'Connell Reading Room

Panelists: Keith Nagy, Drs. Alison Dachner, Pamela Mason, Tom Bonda, Nancy Taylor, Jerry Weinstein

THU 5-6:15 p.m. Paper/Panel Session Y**PANEL: Senior Spotlight: Arrupe Scholars Program**

Moderator: Dr. Malia McAndrew, History, & Arrupe Director

Dolan Science Center, A202

Panelists: Sarah Spangenburg, Daniel Mascio, Emily Mordini, Patrick Vecellio

THU 5-6:15 p.m. Paper/Panel Session Z**PANEL: No Place like Home for the Anglo-Saxons**

Moderator: Dr. Emily Butler, English

Dolan Science Center, A203

- (1) Kathrine Statham: "Meadhall of the Mind: Importance of the Hall and Community in Anglo-Saxon England"
- (2) Christopher Kane: "Redeeming the Old English Daniel"
- (3) Maria Clare McKeating: "A Reading of Alcuin's 'O Mea Cella'"
- (4) Darcy Egan: "'Floating spirits' – The Physical/Spiritual Crux of The Wanderer (ll. 45-72)"

THU 5-6:15 p.m. Paper/Panel Session AA**PANEL: EC 499 Presentations**

Moderator: Dr. Lindsay Calkins, Economics & Finance
Dolan Science Center, O'Connell Reading Room

- (1) Alec Kopsick: "The Decline of Money Velocity in the U.S. Economy"
- (2) Judy Mualem: "The Economics Perspective of Gene Patents: Myriad Genetics Case Study"
- (3) Jordan de Bord: TBD
- (4) Victoria Hume: "The Determinants of Corruption"

**MON 5:30-7 p.m.****Poster Session: Presenters**

Dolan Science Center, Muldoon Atrium

Odd numbered posters will present from 5:30--6:15 PM.

Even numbered posters will present from 6:15--7:30 PM.

Exception: Early College students will present from 6:15 to 7:30 PM.

LEGEND:

‡ JCU-CCF Summer Research Program

‡‡ JCU SURF Summer Research Program/Weaver Fund

‡‡‡ Barrett Undergraduate Endowment Research Award

*Main Presenter

UG = Undergraduate Student

G = Graduate Student

(PC) = Poster Competition

101. JCU Paperless: Reducing Paper Consumption and the Environment

Anthony Deleonibus & *Patrick Hackett, UG

102. Catholic Social Teaching as an Explanation of Firm's Environmental Impact (PC)

Anne Hetson, UG, Honors Program

103. The Benefits of Social Media to Entrepreneurs

Ariaona Clarke, Early College Program

104. The Successes and Shortfalls of the Sarbanes-Oxley Act of 2002

Brad Hopkins, UG, Honors Program

105. Gifted and Talented African Americans Undermine Their Abilities

Rashawn Creer, Early College Program

106. Endless News Most Beautiful: Exploring The Visual Landscape of Journalism and Transforming *The Carroll News'* Visual Identity (PC)

Thuy Le, UG, Honors Program

107. The Impact of Internet Usage on High Schoolers' Success

Aynia Johnson, Early College Program

108. Female Leave Policies and Their Implications for Future Generations

Jennifer El-Kadi, UG

109. The Scholarly Divide between Student Athletes and Their Antipodes

Mehki Patterson, Early College Program

110. Influence of Perceived Quality on Consumer Shopping Behavior (PC)

*Sara Martinko, Nicole Diehl, Priscilla Flores, UG

111. The Overrepresentation and Placement of African American Students in Special Education

Lauren Pougé, Early College Program

112. PARIS Rain or Shine: ‘Ombrelles , Parasols et Parapluies’ – Sunbrellas and Umbrellas as seen by French Artists and Artisans

*Brooke N. Mc Quinn, Benjamin G. Gebhardt, Catherine E. Looby, Nickencia M. Weaver, UG & Dr. H  l  ne N. Sanko, Classical & Modern Languages & Cultures

113. Why We Should Learn to Speak Sign Language (PC)

Nickencia Weaver, UG

114. Transforming Ideas into Actions (PC)

*Martha Bill, UG; Dr. Jonathan Smith & Dr. Kyle O’Dell, Leader Scholars Program

115. Transformational Leadership in the Health and Wellness Field (PC)

*Angelica Bucci, UG; Dr. Jonathan Smith & Dr. Kyle O’Dell, Leader Scholars Program

116. Examining Inspirational Leadership (PC)

Joe Ginley, UG; Dr. Jonathan Smith & Dr. Kyle O’Dell, Leader Scholars Program

117. JCU Graduates Setting the World on Fire through Leadership (PC)

Allison Graham, UG; Dr. Jonathan Smith & Dr. Kyle O’Dell, Leader Scholars Program

118. Leadership (PC)

Katherine Hoffman, UG; Dr. Jonathan Smith & Dr. Kyle O’Dell, Leader Scholars Program

119. Leading by Example

*Andrew Lesinski, UG; Dr. Jonathan Smith & Dr. Kyle O’Dell, Leader Scholars Program

120. Transformational Leadership within Diversity and Inclusion (PC)

Mercedes Lewis, UG; Dr. Jonathan Smith & Dr. Kyle O’Dell, Leader Scholars Program

121. Transformational Leadership: From Theory to Board Room

Judy Mualem, UG; Dr. Jonathan Smith & Dr. Kyle O’Dell, Leader Scholars Program

122. Transformational Leadership in the Human Resource Management Field (PC)

*Eleni Nikolakis, UG; Dr. Jonathan Smith & Dr. Kyle O’Dell, Leader Scholars Program

123. Leading through Passion

Patrick O’Brien, UG; Dr. Jonathan Smith & Dr. Kyle O’Dell, Leader Scholars Program

124. Leadership in Clinical Psychology

Sarah Ruckstuhl, UG; Dr. Jonathan Smith & Dr. Kyle O’Dell, Leader Scholars Program

125. Leadership in Public Health

*Danielle Sharbaugh, UG; Dr. Jonathan Smith & Dr. Kyle O’Dell, Leader Scholars Program

126. Generating Plots for Ventilation Data

*Danielle Sharbaugh, UG; & Robert Patrick, MD, MBA, Louis Stokes Cleveland VA Medical Center; Dr. Wilmina M. Marget, Mathematics & Computer Science

127. Transformational Leadership (PC)

Brooke Weber, UG; Dr. Jonathan Smith & Dr. Kyle O’Dell, Leader Scholars Program

128. Leading Quietly

Dante West, UG; Dr. Jonathan Smith & Dr. Kyle O’Dell, Leader Scholars Program

129. Actions Speak Louder than Words: Leading by Example

Meric Whetro, UG; Dr. Jonathan Smith & Dr. Kyle O’Dell, Leader Scholars Program

130. Marriage, Honor and Religion: Three Social Constraints Challenging Women’s Lives in Miguel de Cervantes’ *The Ingenious Gentleman Don Quixote of La Mancha* (PC)

Ovidiu Breahna, UG, Honors Program; Dr. Michael Khoury & Dr. Megan Thornton, Classical & Modern Languages

131. Desarrata

Kateri Dillon, UG, Honors Program

132. Investigating the Relationship between Boldness, Coloration, and Chemical Defense in the Dendrobatid Poison Frog *Oophaga pumilio*

*Sarah K. Bolton, G; Matthew W. Russell, UG; Dr. Ralph A. Saporito, Biology

††133. Nutrient Resorption of Quercus Congeners Grown in a Common Garden

Vivian Fung, UG

134. Do Variable Alkaloid Defenses in the Red-belly Toad *Melanophryniscus simplex* Provide Equal Protection from Microbial Pathogens?

*Kyle J. Hovey, G; Megan A. Boyk, UG; Dr. Erin E. Johnson, Biology; Taran Grant, Departamento de Zoologia, Instituto de Biociências, Universidade de São Paulo; & Dr. Ralph A. Saporito, Biology

135. Macrochaete (Cyanobacteria): A New Genus Representing the First Step in Revision of the Genus Calothrix

Esther Berrendero; *Dr. Jeffrey R. Johansen, Biology; Jan Kastovsky, Marketa Bohunicka & Katerina Capkova

136. TBD

Jonathan Kilgore, G

†††137. Seed Germination Requirements of Four Fire-Recruiter Chaparral Shrubs (PC)

Katherine McClain, UG, Honors Program

138. Use of Small Molecules to Abrogate the Intracellular Effects of Ebolavirus Protein 24 (PC)

Michael Pribula, UG, Honors Program

††139. Investigating the Relationships between Boldness, Coloration, and Toxicity in the Dendrobatid Poison Frog *Oophaga pumilio* (PC)

Matthew Russell, UG

140. A New Method for Extracting Alkaloid Defenses from Poison Frog Skins

*Emily M. Seiter, UG; Sarah K. Bolton, G; Dr. Ralph A. Saporito, Biology

141. A New Species of Stanieria (Cyanobacteria) Isolated from a Small Pool on Mexican Riviera (PC)

*Sergei Shalygin, G & Dr. Jeffrey R. Johansen, Biology

142. Anatomy of the Fully Formed Chondrocranium of *Lepidochelys* (Cryptodira: Cheloniidae) (PC)

Vinh Trinh, UG

††143. Peroxide Induced Specific Protein Modification in HeLa Cells (PC)

Abigail Beer, UG; Dr. Yuh-Cherng Chai, Chemistry

144. Molecular Dynamics of Ligand Binding into FABP5 (PC)

Brendan Brown, UG

††145. Molecular Dynamics Studies of CRABP-II (PC)
Nathanael Hunter, UG

146. Oxidative Stress and Alzheimer's Disease
Alicia Monahan, UG, Honors Program

147. The Impact that Sleep Deprivation Has on Implicit and Explicit Memory

Angelique Hale, Early College Program

148. Proton NMR Studies of the Equilibrium of Ethyl Acetylacetate

*Natalie Osiecki, UG; Dr. Michael Nichols, Advisor, Chemistry

149. Proton NMR Studies of the Equilibrium of Acetylacetone

Natasha Taleff, UG

††150. Bottom-Up Wet Chemical Synthesis of the Infinitely Adaptable Bismuth Telluride Series (PC)

*Dan Volpe, UG; Dr. Jeffrey Dyck, Physics; Dr. Paul Challen, Chemistry

151. Development of an Apparatus for Measuring the Nerst Effect in Semiconductor Pellets (PC)

Christopher Wrenn, UG

† 152. Investigating the Characteristics of Human Long Introns Using TALEN

Noah Daniels, UG

153. The Role That Gender Plays in the Recovery of Injured Student Athletes

Matej Bartulovic, Early College Program

154. Clinical Guidelines in Practice: How Well Are Primary Care Providers Following National Chronic Kidney Disease Recommendations? (PC)

Kaitlyn Edbauer, UG, Honors Program

155. The Correlation between Emotional Disorders and Teen Obesity

Yidiayah S. Box, Early College Program

156. An Analysis of Malaria Antibody Responses (PC)

Saida Gjinatori, UG

157. The Therapeutic Use of Rap Music to Treat Teens with Conduct Disorders

Clarissa Foxhall, Early College Program

‡‡158. Lipid Peroxidation of Linoleic Acid (PC)

*Joy Nyaanga, UG; Dr. Michael Nichols, Chemistry

159. A Study of the Protein Yorkie and Its Role in Hippo Pathway Signaling (PC)

Caroline Hall, UG, Honors Program

‡160. EPRS Plays an Important Role in Resolving the Inflammatory Response by Inhibiting Translation of Pro-Inflammatory Genes

Caroline Hall, UG

161. The Correlation between Baby Blues and the Severity of Postpartum Depression

Tamia Jackson, Early College Program

162. Tumor Necrosis Factor Receptors in Psoriasis (PC)

MacKenzie Lee, UG, Honors Program

163. Role of DDX5 Phosphorylation in Colon Cancer

Hannah Niehaus, UG, Honors Program

164. An Analysis of Transformational Leadership and Its Application amongst Different Leaders

Brandon Parr*, UG; Dr. Jonathan Smith & Dr. Kyle O'Dell, Leader Scholars Program

‡165. NOS Inhibition Promotes Axon Function Recovery by Preserving Axonal Mitochondria after Ischemia (PC)

Brandon Parr, UG; Chinthasagar Bastian, MBBS, Ph.D; Katharine Stahon, B.S; Sylvain Brunet, Ph.D; Selva Baltan M.D., Ph.D., Cleveland Clinic.

166. Binding Properties of Peptide (RRWRRRRRAAATAPDNLGYM) with Poly-IC

*Brandon Parr & Ellen Piccillo, UG; Dr. David Mascotti, Chemistry; Esteban Celis, M.D., Ph.D., Augusta University.

‡167. Ischemia Impairs Mitochondrial Velocity in White Matter of the Brain in an Age-Dependent Manner

*Stephen Politano, UG; Dr. Selva Baltan & Dr. Chinthasagar Bastian, Department of Neuroscience, Cleveland Clinic; Dr. Helen Murphy & Dr. Cyrilla Wideman, Neuroscience Program (Advisors)

‡168. Small Interfering RNAs (siRNAs) Targeting 3'-UTR Region of Protein Arginine Methyl Transferase 5 (PRMT5) Inhibited TNF Induction of Proinflammatory Genes in Endothelial Cells (PC)

*Ryan Salemme & *MacKenzie Lee, UG; Chad Braley, Unni Chandrasekharan & Paul DiCorleto, Cellular & Molecular Medicine, Lerner Research Institute, Cleveland Clinic Foundation

169. The Impact of Orthorexic Behavior on Women's Eating Habits

Armonni Whittiker, Early College Program

‡170. Lactate Dehydrogenase is Crucial for Tumor Associated Macrophage Protection of Multiple Myeloma Cells against Chemotherapy (PC)

Carolyn Stierhoff, UG

171. Marijuana and Opioid Use in Patients with Chronic Non Cancer Pain

*Catherine Calhoun, UG, Honors Program; Dr. Geries Sweis, Psy.D., & Dr. Kelly Huffman, Ph.D., Cleveland Clinic Neurological Center for Pain; Dr. Helen Murphy & Dr. Cyrilla Wideman, Neuroscience Program (Advisors)

172. The Effects of Zolpidem on Body Weight, Food Intake, Activity, and Anxiety in Female Rats

Rachel Mangan, UG, Honors Program

173. Effects of a High-Fat/High-Sucrose Diet on Metabolism, Spatial Working Memory, and Anxiety-Like Behavior in Rats

*Alexander Mihas, UG; Dr. Helen Murphy & Dr. Cyrilla Wideman, Neuroscience Program (Advisors)

174. Lack of Deleterious Side Effect in Naltrexone-Treated Rats

*Jacob Musiol, UG; Dr. Helen Murphy & Dr. Cyrilla Wideman, Neuroscience Program (Advisors)

175. The Study of Intermediates of a Deprotonation Reaction of a Ketone with a Lithium Amide Base using ⁶Li, ¹⁵N NMR Spectroscopy and Molecular Modeling

*Sarah Sternbach, UG; Dr. Michael Nichols, Chemistry

176. Effects of a High Fat Diet on Metabolism and Working Memory in Rats

*Sarah Sternbach, UG; Dr. Helen Murphy & Dr. Cyrilla Wideman, Neuroscience Program (Advisors)

177. The Factors of Physiological and Cognitive Science in the Consumer Decision Making Process

Kent Wise Jr., Early College Program

178. The Role of Drebrin in Heroin Relapse

*Samantha Stein, UG; Dr. David Dietz, Department of Pharmacology/Toxicology, University of Buffalo; Dr. Helen Murphy & Dr. Cyrilla Wideman, Neuroscience Program (Advisors)

179. Harmful Self-Consciousness as a Result of Highly Interactive Online Platforms

Victoria Varner, Early College Program

180. Risk Perceptions of Smoking Cigarettes and Marijuana with and without Risk Literature (PC)

*Jennifer Grant, *Taylor Hanes, *Madelyn Pierce, Loren Rawls, & *Catherine Tripp, UG; Dr. Janet Larsen, Psychology

181. The Psychological Benefits of Dog Ownership

Da'Sheona Anderson, Early College Program

182. Learning about Sex: How Does It Affect Your Sexual Future? (PC)

*Gabrielle-Douglas Hinchey, UG; Dr. Tracy Masterson, Psychological Science

183. Society's View of Masculinity Promotes Aggressive Behaviors

Ashonti Austin, Early College Program

184. The Influence of Facebook-Like Profiles on Employability (PC)

Francesca Mastrangelo, *Marina Stanovska, Victoria Thurman, Michael Rinicella, UG; Dr. Beth Martin, Psychological Science

185. The Interdependence between the Identification of Negative Psychopathology and Adult Criminal Behavior

Jamya Terry, Early College Program

186. Effect of Participant Sex and University Prestige on Starting Salary Estimation (PC)

Giang Tran, UG

187. The Negative Impact of Solitary Confinement on an Inmate's Behavior

India McCullough, Early College Program

188. High Tech Crime

Stephen Attewell, UG, Dr. Duane Dukes, Sociology & Criminology

189. Challenges Juvenile Offenders Face after Being Released from a Correctional Facility

Brandon Simon, Early College Program

190. Criminology in Action: Observation from Chardon Municipal Court

Tristan Bourdesh, UG; Dr. Duane Dukes, Sociology & Criminology

191. Taking the Lead: Applicability of Authentic Leadership across Multiple Professions

Nicolle Simonovic, UG; Dr. Jonathan Smith & Dr. Kyle O'Dell, Leader Scholars Program

192. Looking for the Perfect Roommate: Social Distance as an Indicator of Anti-Semitism

Nicolle Simonovic, UG; Dr. John Yost, Psychological Science

193. Asurint, Verify Every Hire

Matt Francis, UG

194. Simulating Light Propagation in Brain Tissues Using Ray Tracing (PC)

Silas Ifeanyi, UG

195. Creating Community in Health amongst John Carroll Students

Jillian Jensen, UG; Dr. Jonathan Smith & Dr. Kyle O'Dell, Leader Scholars Program

196. Exploring Transformational Leadership in Various Health Professions

Jillian Jensen, UG; Dr. Jonathan Smith & Dr. Kyle O'Dell, Leader Scholars Program

†††197. Diffused Reflectance Spectroscopy for Absorbance of Tattooed Skin

Joe McGreal, Undergraduate; Gage Marek, alumnus; and Dr. Peifang Tian, Physics

198. Characterization of the Bandwidth Gap of Graphene Quantum Dots

Sarah Blask, Undergraduate

**A CELEBRATION
OF SCHOLARSHIP**

The 15th Annual Celebration is hosted by:

Jim Krukones, Ph.D.
Associate Academic Vice President

Deanna DePenti, M.A., CCEP
Celebration Coordinator