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.

### 2017 Schedule

**Monday, April 3, 2017**

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

**MON Noon. Arts at Lunch**  
*O’Malley Center, Atrium*  
**A Russert Festival Event**

**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 5:30-7:30 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

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**Tuesday, April 4, 2017**

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

**TUE Noon. Scholarly Lunch**  
*Dolan Science Center, O’Connell Reading Room*  
Matt Berg, Department of History  
Brian Macaskill, Department of English  
Open to the JCU Community; Reservations Requested

**TUE 2-3:15 p.m. Paper/Panel Session A**  
**PANEL: Space, Aliens, Monsters and Ashton Kutcher: Rhetorical Reflections on Society**  
Moderator: Dr. Brent Brossmann, Communication & Theatre Arts  
*Dolan Science Center, A202*  
(1) Nick De Core: “Sagan, Space, and Society: A Rhetorical Criticism of the Pale Blue Dot”  
(2) Sean Brossmann: “In Defense of the Eaten: The Role of Empathy, Identification and Dissonance in the Narrative of *Parasyte-*the maxim-* in Reconsidering Meat Consumption”  
(3) Andrea Regrut: “Is Society the Monster?”  
(4) Alexa Kempton: “Everyone Wants to Be Sexy: An Analysis of Ashton Kutcher’s ‘Dream Speech’”
TUE 2-3:15 p.m. Paper/Panel Session B
Dolan Science Center, A203

TUE 2-3:15 p.m. Paper/Panel Session C
INDIVIDUAL PAPER PRESENTATIONS
Moderator: OPEN
Dolan Science Center, O’Connell Reading Room
(1) Brennan Kirkpatrick: “Deterrence, Tough on Crime, and Links to the Prison Population Rate”
(2) Rachel Patena: “Risky Business: Understanding Student Intellectual Risk Taking in Management Education”
(3) Daniel May: “War through Different Lenses: Translating the Original Gears of War Video Game into a Film Script”

TUE 3:30-4:45 p.m. Paper/Panel Session D
PANEL: Northern Ireland: Perspectives on Conflict and Peace-building
Moderator: Dr. Dianna Taylor, Philosophy
Dolan Science Center, A202
Panelists: Natalie Gamble, Mary Frances McGowan, Angeline Zappitelli
Respondent: Dr. Dianna Taylor

TUE 3:30-4:45 p.m. Paper/Panel Session E
Dolan Science Center, A203

TUE 3:30-4:45 p.m. Paper/Panel Session F
PANEL: Religion, Terrorism, and Culture Wars – Why Cultural Heritage Matters, Part 1
Moderator: Michele Stopera Freyhauf, Theology & Religious Studies
Dolan Science Center, O’Connell Reading Room

TUE 5-6:15 p.m. Paper/Panel Session G
INDIVIDUAL PAPER PRESENTATIONS
Moderator: Dr. Tom Kelly and Dr. David Shutkin, Education & School Psychology
Dolan Science Center, A202
(1) Madison Chickos: “Content Analysis of Ohio Four-Year Universities’ Consent Policies and Recommendations based on Interpersonal Understanding of Sexual Consent and Non-Consent”
(2) Elizabeth Malloy: “You Say (Re)search, I Say Research: Locating the Language Divide between Secondary and Postsecondary Classrooms as a Side Effect of Standardization”
(3) Robert Haas: “Karla’s Silence’ and ‘Zora’s Noise’: Two Late Bernard Malamud Stories”

TUE 5-6:15 p.m. Paper/Panel Session H
PANEL: Educational Simulations: Model African Union, European Union, and Arab League
Moderator: Dr. Malia McAndrew, Director, Arrupe Scholars Program
Dolan Science Center, A203
Panelists: Jessica Coverdale, Mareike Amann

TUE 5-6:15 p.m. Paper/Panel Session I
PANEL: Religion, Terrorism, and Culture Wars – Why Cultural Heritage Matters, Part 1
Moderator: Michele Stopera Freyhauf, Theology & Religious Studies
Dolan Science Center, O’Connell Reading Room

TUE 8 p.m. Harry Potter Debate
O’Malley Center, TV Studio
A Russert Festival Event

Wednesday, April 5, 2017

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

WED 2-3:15 p.m. Paper/Panel Session J
Dolan Science Center, A202

WED 2-3:15 p.m. Paper/Panel Session K
Dolan Science Center, A203

WED 2-3:15 p.m. Paper/Panel Session L
Dolan Science Center, O’Connell Reading Room

WED 3:30-4:45 p.m. Paper/Panel Session M
INDIVIDUAL PAPER PRESENTATIONS
Moderator: Dr. Penny Harris, Sociology & Criminology
Dolan Science Center, A202
(1) Ricardo Caraballo: “Attitudes and Perceptions regarding Spatial Mobility amongst New York City Public Housing Residents”
(2) Dr. Brian Saxton: “Firm-specific Human Capital as Competitive Disadvantage: The Role of Complimentary Assets”
(3) Dr. Peter Manos: “Teaching African American History through Theatre”
WED 3:30-4:45 p.m. Paper/Panel Session N
Panel: Theology & Religious Studies: Challenging the Conventional
Moderator: TBA
Dolan Science Center, A203
Presenters: Deborah Zawislan, Jenni Shelton, Christina Perez, Michael Younes

WED 3:30-4:45 p.m. Paper/Panel Session O
Dolan Science Center, O’Connell Reading Room

WED 5-6:15 p.m. Paper/Panel Session P
Panel: Philosophical Perspectives on Violence
Moderator: Dr. Dianna Taylor, Philosophy
Dolan Science Center, A202
Panelists: Jacqueline Habursky, Jacqueline Witwicki, Dr. Dianna Taylor

WED 5-6:15 p.m. Paper/Panel Session Q
Panel: Contemporary Discussions in Feminist Philosophies
Moderator: Dr. Deniz Durnus, Philosophy
Dolan Science Center, A203
(1) Zee Molter: “Mr. Fix-It?: A Dimensional Analysis of Patriarchal Gender Essentialism”
(2) Amy Iiyra Kato: “Point of Privilege: Systematic Oppression and Privilege in Higher Education”
(3) Rose Fazio: “An Existential Analysis of Gender Oppression and Rape Culture”
(4) Dr. Deniz Durnus: “Middle Eastern Feminisms: A Phenomenological Analysis of the Turkish and Iranian Experience”

WED 5-6:15 p.m. Paper/Panel Session R
Panel: The Keys to Me: Building a Developmental Counseling Curriculum to Promote Students’ Positive Identity
Moderator: Dr. Nancy Taylor, Counseling
Dolan Science Center, O’Connell Reading Room
Presenters:
Nancy P. Taylor, Ph.D., LPCC-S, Department of Counseling
Meg Cunningham, M.Ed., Lindsay Elementary and Westwood Elementary; W. Geauga Schools
Dusty Timmons, M.Ed., West Geauga Middle School
Kim Zannetti, M.Ed., West Geauga High School

WED 6:30 p.m. Mitsui Distinguished Lecture
“Classical Chinese Dance”
Lecture by Peter Wong, Ph.D.
Sponsored by the East Asian Studies Program
Dolan Science Center, Donahue Auditorium

WED 7:30 p.m. The Tim Russert Department of Communication & Theatre Arts Public Speaking Contest
O’Malley Center, Atrium
A Russert Festival Event

Thursday, April 6, 2017
All Week: Celebrate the Art Exhibit
Grasselli Library, Tully Atrium & Gallery

THU 2-3:15 p.m. Paper/Panel Session S
Panel: “Philosophy and Pop Culture: The Next Big TV Show”
Moderators: Dr. Sharon Kaye, Philosophy, and Dr. Tom Pace, English
Dolan Science Center, A202

THU 2-3:15 p.m. Paper/Panel Session T
Panel: Honor Student Presentations
Moderator: Dr. Angela Jones, Director, Honors Program
Dolan Science Center, A203
(1) Katherine Ashley: The Presence of Populism: Promises and Problems”
(2) Andrew Caito: “Il Commissario Montalbano: A Universal Italian Character”
(3) Marina Giannirakis: “Examining Attitudes towards Gun Violence among Affected Families”
(4) Yuyang Wang: “East Asian Art Objects in Museum Collections and Their Provenances”

THU 2-3:15 p.m. Paper/Panel Session U
Dolan Science Center, O’Connell Reading Room

THU 3-4:45 p.m. Paper/Panel Session V
Dolan Science Center, A202

THU 3-4:45 p.m. Paper/Panel Session W
Panel: Honor Student Presentations
Moderator: Dr. Angela Jones, Director, Honors Program
Dolan Science Center, A203
(1) Bailey Baringer: “Multinational Corporations’ Pricing Strategy: Adaptation or Standardization?”
(2) Megan Koperna: “Games and Disguise: The Businessman in 19th & 20th Century Literature”
(3) Timothy Schifferle: “Cost Benefit Analysis of ABC”
(4) Brendan Brown: “Bottom-up Wet Chemical Synthesis and Characterization of the Infinitely Adaptable (Bi2)m(Bi2Te3)n”

THU 3:30-4:45 p.m. Paper/Panel Session X
Dolan Science Center, O’Connell Reading Room
THU 5-6:15 p.m. Paper/Panel Session Y
PANEL: A Program Evaluation of the Health Insurance Awareness Program of ASIA, INC
Moderator: Dr. Penny Harris, Sociology & Criminology
Dolan Science Center, A202
Panelists: Madison Chickos, Kathleen B. English, Tara Kelley, Vanessa Kreiss, Brianne O’Rourke, Maria Pangori, Mae Saunders, Tori Williams, Kaleigh Wagner, and Veronica Zielinski

THU 5-6:15 p.m. Paper/Panel Session Z
PANEL: Modern Rome in Literature and Film
Moderator: Dr. Luigi Ferri, Classical & Modern Languages and Literatures
Dolan Science Center, A203
(1) Chris Veras: “Rome in Literature and Film: Its Symbolization and Relevance to Modern Times”
(2) Peter Short: “Rome through the Eye of the Lens”
(3) Bryant Stone: “An Interpretation of Millicent Marcus’ Psychodynamic Explanation of Avoidance”

THU 5:30 p.m. The Tim Russert Department of Communication & Theatre Arts Photography Contest Awards
O’Malley Center, Atrium
A Russert Festival Event

MON 5:30-7:30 p.m.
Poster Session: Presenters
Dolan Science Center, Muldoon Atrium
Odd-numbered posters will present from 5:30–6:30 PM.
Even-numbered posters will present from 6:30–7:30 PM.

LEGEND:
*Main Presenter
(PC) = Poster Competition

PS.01 School Psychologists’ Consultation Services for Students Who Have Experienced Trauma
*Nicole Minch, M.Ed., Mallory Bendezu, M.Ed., Jeanne Jenkins, Ph.D., Education (Advisor)

PS.02 Maelstrom of Change: One Opportunistic Monk in Champagne (PC)
Arnold Paskay, Undergraduate

PS.03 Doing Business in France: Eight Cultural Cues That Make (or Break) a Deal!
FR 306 class of Dr. Martha Pereszlenyi-Pinter, Classical & Modern Languages and Cultures
Tyrrell Davis, Shanna Etchison, Leslie Flynn, Ashley Johenning, Margaret Leever, Catherine Looby, Brooke McQuinn, Olivia Pach, Undergraduates

PS.04 The Relative Effects of Meditation and Prayer on Mathematical Test Performance (PC)
*Bridges Sayers, Katherine Gaunter, Undergraduates; Dr. Amy Jo Marciano-Reik, Psychology

PS.05 Reestimating Modified Taylor Rules for the Swiss National Bank (PC)
John Tarchick, Undergraduate

PS.06 School Psychologist Needs as Mental Health Consultants (PC)
*Rebecca Yoder and Brittany Weisbarth, Graduate Students, School Psychology

PS.07 A Role for Transforming Growth Factor-β in Pulmonary Arterial Hypertension
*Raneem Altabbaa, Undergraduate; Dr. Raed Dweik, Dr. Kulwant Aulak, Leping Tian, Noel Mellor, The Cleveland Clinic Foundation

PS.08 Music as Therapy
Derek Black, Early College Program

PS.09 ATF: The United States Department of Justice, Bureau of Alcohol, Tobacco, Firearms, and Explosives
Stephen Attewell, Undergraduate
PS.10 HSI/ICE: Immigrations and Customs Enforcement – Homeland Security Investigations
Stephen Attewell, Undergraduate

PS.11 Addiction Leadership: Leaders in Addiction Treatment
*Jennifer Grant, Undergraduate, Leadership Development

PS.12 Bullying and Biracial Students
Kylie Armstead, Early College Program

PS.13 The Benefits of Having a Dog (PC)
Nickencia Weaver, Undergraduate

PS.14 The Relationship within Race and Academic Environment
Davon Beane’, Early College Program

PS.15 Gender Differences in Content and Appearance Memory (PC)
*Natalie Maxwell, Undergraduate; Dr. John Yost, Psychology (Advisor)

PS.16 Leadership in the Medical Field
Kirsten Ponsart, Undergraduate

PS.17 Don’t Bring Me Down: Puzzles, People, and Social Loafing
David Haas, Undergraduate

PS.18 The Correlation between a Student’s Learning Style and the Most Effective Memorization Strategies
Aleysia Brooks, Early College Program

PS.19 Leadership in Financial Service Professionals
*Robert J. Exler, Undergraduate; Dr. Kyle O’Dell, Senior Director of Student Engagement

PS.20 Texting and Driving
Italie Demore, Early College Program

PS.21 Leadership in the Accountancy Profession (PC)
Laura Gagliano, Undergraduate

PS.22 Corporate Leaders and Their Leadership/Life Philosophy
Brent Gibala-Broxholm, Undergraduate

PS.23 Ciara Crosse, Undergraduate

PS.24 Student’s Perception of College Readiness
Treasure Eiland, Early College Program

PS.25 Contributions of Bioethics to Health Sector Leadership (PC)
Andrew Harrington, Undergraduate

PS.26 Acknowledgement and Knowledge on Mental Health in High Schools
Xanayla Harris, Early College Program

PS.27 Transformational Leadership in Finance
Patrick Hiznay, Undergraduate

PS.28 Leadership In Analytics (PC)
Foster King, Undergraduate

PS.29 LEAD: Leadership in Education and Decision-making (PC)
*Haley Kocisko, Undergraduate

PS.30 Gender and Parental Discipline
Nicholas Munford, Early College Program

PS.31 Leadership in Healthcare: Addressing Challenges in a Changing System
Emily Koeritzer, Undergraduate; Dr. Kyle O’Dell, Director, Leadership Scholars Program

PS.32 Are School Efforts to Deter Substance Abuse Effective?
Ryan Penson, Early College Program

PS.33 Learning to Lead
Gabrielle Lucas, Undergraduate

PS.34 Leading for Others
Catherine Looby, Undergraduate

PS.35 Leadership in the Field of Psychology
Emily Mitchell, Undergraduate, Leadership Scholars Program

PS.36 Relationship between Sleep and Academic performance
Tommy Pierce, Jr., Early College Program

PS.37 Leadership in Society: Marketing & Communications
Morgan Osheka, Undergraduate; Dr. Kyle O’Dell, Director, Leadership Scholars Program

PS.38 Domestic Violence and Teens
T’Jhanay Potts-Avery, Early College Program

PS.39 Competition and the Effect on Ethics (PC)
Steven Schmitz, Undergraduate

PS.40 The Correlation between Parental Expectations and a Student’s Academic Performance
Folakemi Sampson, Early College Program

PS.41 Leadership in Medicine (PC)
Mary Waters, Undergraduate
PS.42 Does Music Make You Smarter?
Malik Winfield, Early College Program

PS.43 Exploring the Impacts of Technology in Education
Mackenzie Stojetz, Undergraduate

PS.44 The Correlation Between Self-Esteem and Academic Performance in High School Students
Le’Shawn Smith, Early College Program

PS.45 Alterations in the Hind Limb Vasculature of STS-135 Mice
Elizabeth Posney, Undergraduate

PS.46 Leadership Essentials for Pharmacists
Elizabeth Posney, Undergraduate

PS.47 Bottom-up Wet Chemical Synthesis and Characterization of the Infinitely Adaptable (Bi2)m(Bi2Te3)n (PC)
Brendan Brown, Undergraduate

PS.48 Molecular Dynamics Study of the Protein-Ligand Interactions of a Fatty Acid Binding Protein
Brendan Brown, Undergraduate

PS.49 mTORC1 Signaling Is Involved in Nephrone Size Control in the Metanephric Kidney (PC)
Carolyn Stierhoff, Undergraduate

PS.50 Societal and Academic-Induced Stress in High School Students
Trevion Johnson, Early College Program

PS.51 Comparing the Middle and C-terminal Domains of the SOX6 Proteins
Abigail Beer, Undergraduate

PS.52 Physical Activity and Cognitive Functions
Taylor Thomas, Early College Program

PS.53 The Study of ZnSnN2 for Possible Thermoelectric and Photovoltaic Applications (PC)
John Cenker, Undergraduate

PS.54 Analysis of MicroRNA-183/96/182 Cluster Functions in Photoreceptor and Neurosensory Organ Development
*Kyle Patterson, Undergraduate; Dr. Brian Perkins and Dr. Joseph Fogerty, Department of Ophthalmic Research, Cole Eye Institute, Cleveland Clinic; Dr. Helen Murphy and Dr. Cyrilla Wideman, Neuroscience Program (Advisors)

PS.55 Tao Negatively Regulates Drosophila Neuromuscular Junction Formation
Ryan Salemme, Stephen Politano, Toren Bakula, Undergraduates; Dr. Pam Vanderzalm, Biology

PS.56 Concerns about Adolescent Eating Habits and Physical Activity
Hailyn Williams, Early College Program

PS.57 The Effect of TAOK3 on Neuromuscular Junction Development in Drosophila melanogaster (PC)
*Toren Bakula, Stephen Politano, Ryan Salemme, Undergraduates; Dr. Pamela Vanderzalm, Biology

PS.58 Gender Identity and Mental Illness: Behind the Minds of the Transgender Community
Miranda Wyse, Early College Program

PS.59 Molecular Dynamics Simulations of Fatty Acid Binding Protein 5 with Fatty Acid Substituted Ligands
Blair Bakula and Anthony Perugini, Undergraduates

PS.60 A New Method for Extracting Alkaloid Defenses from Poison Frog Skins (PC)
*Noemi Becza, Sarah K. Bolton, Undergraduates; Dr. Ralph A. Saporito, Biology

PS.61 Ectopic Ossification of Tendons in Adamts7 and Adamts12 Deficient Mice (PC)
Timothy Mead, PhD, Cleveland Clinic, and *Lizzie Cahill, Undergraduate

PS.62 Thermal Tolerances of Red-backed Salamanders, Plethodon cinereus, with Differing Temperature Exposure Histories (PC)
Blake Dixon, Undergraduate

PS.63 The Effects of Vyvanse on Spatial Working Memory, Body Weight, and Adiposity in Rats
*Ethan Ekstrand, Undergraduate; Dr. Helen Murphy and Dr. Cyrilla Wideman, Neuroscience Program (Advisors)

PS.64 Validation of Pexidartinib (CSF1R inhibitor drug) Effect on Number of Microglia and Subsequent Vasculature Growth in Retinas
Vivian Fung, Undergraduate

PS.65 Distribution Spread of Gypsum Endemics Affects Nutrient Accumulation Strategies (PC)
*Nathaniel Heiden, Undergraduate; Clare Muller, Graduate Student; Dr. Rebecca Drenovsky, Biology

PS.66 Initial Coordinates Impact on Trajectory of Protein-Ligand Binding Interactions with FABP5
Peter Koetting, Undergraduate

PS.67 Generating Vitamin K Oxidoreductase Complex 1 Mutants
*Michael Mahoney, Undergraduate; Dr. Mark A. Rishavy, Kevin W. Hallgren, and Dr. Kathleen L. Berkner, Department of Molecular Cardiology, Lerner Research Institute, Cleveland Clinic Foundation.
PS.68 Principle Component Analysis of Lavender Essential Oils (PC)
Natalie May, Undergraduate

PS.69 Using SIFT-MS to Determine Levels of TMA in Severe Alcoholic Hepatitis
*Celia Melillo, Undergraduate; Laura Nagy, PhD, David Grove, PhD, Dr. Raed Dweik, Departments of Pathobiology and Gastroenterology, Cleveland Clinic; Dr. Helen Murphy and Dr. Cyrilla Wideman, Neuroscience Program (Advisors)

PS.70 Optimizing the Optical System for Laser Tattoo Removal Research
Alexandra Montesano, Undergraduate

PS.71 Comparative Leaf Mineral Nutrition of Gypsophilic Lineages in the Chihuahuan Desert
*Clare Muller, Graduate Student; Michael J. Moore, Associate Professor, Biology, Oberlin College and Conservatory; Rebecca E. Drenovsky, Professor, Biology

PS.72 Effects of Type 1 Interferon Deficiency on B-cells in Lupus-prone Mice (PC)
Teddy Nemunaitis, Undergraduate

PS.73 Magneto-Hydrodynamic Propulsion Prototype (PC)
*Trevor Norquest and Alexis Geoffrion, Undergraduates; Dr. Peifang Tian, Physics

PS.74 Using Isotopically Labeled Compounds and GC-Tandem MS to Determine the Mechanism of Linoleic Acid Peroxidation
Hannah Overberger, Undergraduate

PS.75 Visual Performance Evaluation of Zebrafish with Mutations in Cilia Transition Zone Proteins CEP290, AH11, and ARL13B
*Ellen Piccillo, Undergraduate; Dr. Brian Perkins, Emma Lessieur, Gabrielle Nivar, Department of Ophthalmic Research, Cole Eye Institute, Cleveland Clinic; Dr. Helen Murphy and Dr. Cyrilla Wideman, Neuroscience Program (Advisors)

PS.76 Preparation of 19F NMR-Reporter Pincer Ligand: Trying to be Greener
*Gabrielle Rey, Geoffrey Hoffman, Emma Skerl, and Raneem Altabbaa, Undergraduates; Dr. Man Lung Kwan, Chemistry

PS.77 Healing the Anal Sphincter Defect: Is One Cell Better than the Other?
*August Runyon, Undergraduate; Katelind Philips; Mei Kuang; Margot Damaser, Biomedical Engineering; Massarat Zutshi, Department of Colorectal Surgery, Cleveland Clinic

PS.78 Monitoring and Detecting Preanalytical Errors in Clinical Laboratory Medicine: A Data-Driven Approach
Dr. Elena Manilich, Mathematics & Computer Science; *Peter Short, Undergraduate; Jason Mancuso, and Dr. Edmunds Reineks

PS.79 Effect of Temperature on Movement of Terrestrial Salamander, Plethodon cinereus, with Varying Levels of Substrate Contrast (PC)
Samantha Skerlec, Undergraduate

PS.80 Balancing Medical Visits
*Hayder Amaailw, Wendy Gutierrez, Victoire Pilipili, Florence Pilipili, John Marshall High School Students; Dr. Dan Palmer, Mathematics & Computer Science (Advisor)

PS.81 The Effect of KAMPS in Treating Bacterial Infection (PC)
*Olivia Zucaro, Undergraduate; Dr. Karthikeyan Bose and Dr. Connie Tam, Cole Eye Institute, Cleveland Clinic

PS.82 John Carroll/John Marshall Healthcare IT Collaboration: Preparing Student HCIT Practitioners
Dr. Daniel Palmer, Mathematics & Computer Science

PS.83 Designing a Database to Analyze Election Data, While Facing the Modern Struggles of Managing Big Data (PC)
Ryan Fitch, Undergraduate; Dr. Colin Swearingen, Political Science

PS.84 Effects of the Social Defeat Paradigm on Myocardial Markers of Stress-Induced Cardiomyopathy
*Parker Cavendish, Undergraduate; Dr. Christine Moravec, Wendy Sweet, Megan Settle Rhea, Department of Molecular Cardiology, Cleveland Clinic; Dr. Helen Murphy and Dr. Cyrilla Wideman, Neuroscience Program (Advisors)

PS.85 Relationship between Anthropometric Characteristics and Aerobic Capacity in Firefighters (PC)
*Crystal Hajek, Cassie Schillero, Undergraduates; Dr. Jackie Zera, Exercise Science and Sports Studies

PS.86 Influences of Fruit and Vegetable Intake on Mental Health in College Students (PC)
*Madeline Hric, Erin Curtin, Undergraduates; Dr. Jacquelyn Zera, Exercise Science and Sports Studies; Dr. Billie Marget, Dr. Rebecca Fang, Math and Computer Science

PS.87 Cardiorespiratory Endurance of Firefighters: The Association between a Submaximal Cycle Ergometer Test and a Maximal Treadmill Protocol (PC)
*Cassie Schillero, Crystal Hajek, Undergraduates; Dr. Jackie Zera, Exercise Science and Sports Studies
PS.88 Feminist Leadership in Communication Careers
Mary Frances McGowan, Undergraduate

A Celebration of Scholarship is hosted by:

- Jim Krukones, Associate Academic Vice President
- Deanna DePenti, Celebration Coordinator
- Catherine Anson, Celebration Advisor

We would like to thank all of the people who make the Celebration a success, with special thanks to:

- Cynthia Caporella and Phil Metres for hosting the Arts at Night.
- Rita Baldarelli, Jaleh Fazelian, Michelle Millet, and Julia Morris for hosting the Art Exhibit.
- Todd Bruce and Eileen Egan for help with the Poster Competition.
- The departments that worked with us this year: East Asian Studies, the Honors Program, and the Tim Russert Department of Communication and Theatre Arts.
- Rory Hill for help with room scheduling & set-up.