

FEBRUARY 27-28, 2015

THE FLORIDA UNDERGRADUATE RESEARCH CONFERENCE (FURC)

**PRESENTED BY THE OFFICE OF UNDERGRADUATE RESEARCH AT
EMBRY-RIDDLE AERONAUTICAL UNIVERSITY**

EMBRY-RIDDLE
Aeronautical University™
DAYTONA BEACH, FLORIDA





FRIDAY, FEBRUARY 27, 2015

6:00-7:30 pm	Registration	<i>3rd Floor Emil Buehler Aviation Maintenance Science Building</i>
7:30-9:00 pm	Welcome Reception	<i>3rd Floor Emil Buehler Aviation Maintenance Science Building</i>

SATURDAY, FEBRUARY 28, 2015

7:30 am	Registration opens	<i>Henderson Welcome Center</i>
8:30 am-9:30 am	Poster Session 1	<i>Henderson Welcome Center</i>
9:45 am-10:30 am	Workshop Session 1	<i>College of Arts and Sciences/ Willie Miller Instructional Center</i>
10:30 am-11:30 am	Poster Session 2	<i>Henderson Welcome Center</i>
11:30 am-12:30 pm	Workshop Session 2	<i>College of Arts and Sciences/ Willie Miller Instructional Center</i>
12:15-1:15 pm	Lunch	<i>Dr. Thomas J. Connolly Quadrangle (Outside)</i>
1:15 pm-2:15 pm	Keynote Address	<i>John Paul Riddle Student Center</i>
2:30 pm-3:30 pm	Poster Session 3	<i>Henderson Welcome Center</i>
3:45 pm-4:45 pm	Poster Session 4	<i>Henderson Welcome Center</i>
ALL DAY	Recruiter Fair	

WELCOME!

Embry-Riddle Aeronautical University, and especially the Office of Undergraduate Research, is thrilled to be hosting the 5th annual Florida Undergraduate Research Conference!

This year, over 225 separate research projects are being presented to more than 475 conference participants. Twenty different colleges and universities, ranging from large public state institutions to small private ones are represented in the research being showcased.

During the conference, you will have an opportunity to attend poster sessions, the graduate school recruitment fair, professional development workshops, and an exciting keynote address by Nicole Stott, ERAU Board of Trustees Member and NASA Astronaut. We encourage you to make the most of your time here!

We extend our heartfelt thanks to those without whom this conference would not be possible. They are listed, by name, in the program. Again, we welcome you!

Enjoy the conference, and make the most of it!
Catherine Wrobel, Aaron Clevenger, Ed.D, Caroline Day





NICOLE STOTT
B.S. IN AERONAUTICAL ENGINEERING
M.S. IN ENGINEERING MANAGEMENT (UCF)

Ms. Nicole Stott was elected to the Board of Trustees for Embry-Riddle Aeronautical University in March 2012. She currently serves as a member of the Academic and Flight Safety and Education committees.

Stott earned a B.S. in Aeronautical Engineering at Embry-Riddle's Daytona Beach campus in 1987. After joining NASA in 1988, she held various engineering positions at Kennedy Space Center and Johnson Space Center, before her selection for astronaut candidate training in 2000.

In 2009, she was a mission specialist on STS-128 Space Shuttle Discovery — which was transported to the International Space Station (ISS) — to serve as a flight engineer for three months on ISS Expeditions 20 and 21. Among her many duties was a six-hour spacewalk.

Stott's following mission — STS-133 in 2011 — made history not only as Discovery's final flight, but also as a landmark event for Embry-Riddle. It was the first time two of the University's graduates shared a space mission. Stott and Embry-Riddle alumnus B. Alvin Drew were crewmembers for the 13-day mission, which included two spacewalks by Drew, under Stott's onboard direction. In addition to Stott and Drew, four other Embry-Riddle alumni are current or former astronauts.

The connection between Stott and Embry-Riddle is strong. She is a frequent speaker at Embry-Riddle's Daytona Beach campus, and a member of the College of Engineering's Industry Advisory Board. In 2009, she received the Alumni Eagle of Excellence Award. As the guest speaker at the May 2010 commencement ceremony at the Daytona Beach campus, she was presented with the University's Distinguished Speaker Award.



SESSION 1

SUMMER OFF-CAMPUS RESEARCH EXPERIENCES

Dr. Kimberly Schneider (University of Central Florida)

Location: IC 101

TAMING THE RESEARCH CYCLE

Nicky Agate, Eric Van Gorden, and Andrew Nagy (Proquest)

Location: COAS 126

PRACTICING THE RESPONSIBLE CONDUCT OF RESEARCH AS UNDERGRADUATES

Dr. Flona Redway, and Dr. Teresa Petrino, (Barry University)

Location: COAS room 204

INNOVATIVE METHODS TO CONDUCT QUALITY RESEARCH WITH LITTLE TO NO FUNDING

Scott Herber (Eastern Florida State College)

Location: COAS room 205

SESSION 2

SHOULD I STAY OR SHOULD I GO? HOW TO KNOW IF YOUR RELATIONSHIP WITH YOUR FACULTY MENTOR IS IN JEOPARDY!

LouAnne Hawkins and Dr. Judith Ochrietor (University of North Florida)

Location: COAS 125

STUDENTS AS UNDERGRADUATE RESEARCH AMBASSADORS: PERSPECTIVES FROM TWO UNIVERSITIES

Nicholas Coles, Nicholas James, and Jeremy Tran (University of Central Florida) Shalondria Sears and Michael Miller (Florida Atlantic University)

Location: IC 101

LESSONS I LEARNED DURING MY JOURNEY THROUGH GRADUATE SCHOOL: HOW CHOOSING THE RIGHT PHD MENTOR IS CRUCIAL FOR SUCCESS

Dr. J. Marcela Hernandez (The Ohio State University)

Location: COAS 204

BREAKING THE BLOCKS: HEURISTICS TO KEEP YOU IN RESEARCH FLOW

Dr. Jennifer Seitzer (Rollins College)

Location: COAS 205

SESSION 1

SUMMER OFF-CAMPUS RESEARCH EXPERIENCES

KIMBERLY SCHNEIDER (UNIVERSITY OF CENTRAL FLORIDA)
LOCATION: IC 101

Summer is a great time to participate in research and there are numerous programs available to students away from their home institution. Summer programs are available at 100s (maybe 1000s) of universities and research institutions. Opportunities are available nationally and internationally and many provide a stipend, travel costs, housing, and/or board. Applications open in late fall and deadlines occur from early January through the end of March. Opportunities exist for all majors but more are available for students in the science and engineering areas. Fall and spring semester opportunities also exist. This workshop will provide an overview of these opportunities, information on how to create a strong application, and resources to help students through the process.

TAMING THE RESEARCH CYCLE

NICKY AGATE, ERIC VAN GORDEN, AND ANDREW NAGY (PROQUEST)
LOCATION: COAS 126

In this workshop, attendees will learn how to use Flow, ProQuest’s reference and citation manager, to find, organize, read, annotate, and share their research. Flow’s integration with Google Docs allows users to collaborate at the writing stage of the research cycle, while its add-on for Word provides powerful citation management in a more traditional word processing environment. Interested attendees will also be introduced to Pivot, ProQuest’s dating service for researchers and funding. Pivot’s powerful user profile system matches researchers to grants whose requirements they meet.

PRACTICING THE RESPONSIBLE CONDUCT OF RESEARCH AS UNDERGRADUATES

FLONA REDWAY, AND TERESA PETRINO, (BARRY UNIVERSITY)
LOCATION: COAS ROOM 204

Scientific research is built on a foundation of trust. It is essential that students know the shared values in science and the social accountability associated with the work of the scientist. They need to understand the importance of following the codes of conduct of research. This interactive presentation will draw awareness to conflicting issues associated with scientific activities and the ethical conduct of research, starting at the undergraduate level. Case studies will draw awareness to reporting and responsible authorship, mentor and mentee responsibilities, ethical issues concerning planning research such as the use of humans or animals in experimentation, and conflicts of interest. (NIH-MARC(T34) and RISE(R25) Grants, Barry University)

INNOVATIVE METHODS TO CONDUCT QUALITY RESEARCH WITH LITTLE TO NO FUNDING

SCOTT HERBER (EASTERN FLORIDA STATE COLLEGE)
LOCATION: COAS ROOM 205

Research and academia are historically based in tradition. It is this tradition that can be a friend and a foe to a budding researcher. Traditionally, funding for research is acquired from Federal, State, and local governmental agencies through the granting process. As research has progressed and the availability of funds have been significantly reduced, the competition for those monies has increased exponentially. The average student is finding themselves competing against seasoned researchers for slivers of funds. This unbalanced process with little alternative direction from mentors has created discouragement among students to pursue any form of research. This workshop intends to break away from the traditional grant funding mindset and enlighten students on the varying alternative avenues of accomplishing their research goals with little to no funding while maintaining the quality and integrity of the research.



SESSION 2

SHOULD I STAY OR SHOULD I GO? HOW TO KNOW IF YOUR RELATIONSHIP WITH YOUR FACULTY MENTOR IS IN JEOPARDY!

LOUANNE HAWKINS AND JUDITH OCHRIETOR (UNIVERSITY OF NORTH FLORIDA)
LOCATION: COAS 125

A student-mentor relationship requires compatibility of several factors, including interest in the research subject, work ethic, and personality. Because of this, as students look for research mentors, they should ask questions of the potential mentor about the expectations and obligations related to the project. While many of these relationships are successful, some become strained over time and the student and faculty member must determine whether to continue or part ways. Join us for this Jeopardy style game as we explore scenarios and circumstances in which students and faculty may find themselves as they navigate a mentor-protégé relationship. In this interactive workshop, we will discuss potential solutions to problems and possible outcomes.

STUDENTS AS UNDERGRADUATE RESEARCH AMBASSADORS: PERSPECTIVES FROM TWO UNIVERSITIES

NICHOLAS COLES, NICHOLAS JAMES, AND JEREMY TRAN (UNIVERSITY OF CENTRAL FLORIDA)
SHALONDRIA SEARS AND MICHAEL MILLER (FLORIDA ATLANTIC UNIVERSITY)
LOCATION: IC 101

At both the University of Central Florida (UCF) and Florida Atlantic University (FAU), a select group of students are chosen each year to become research ambassadors for their universities. Together, they work towards increasing involvement, inclusion, and the quality of research at their respective institutions. In addition to improving their university’s overall research and educational reputation, these ambassador groups also give the selected students the opportunity to develop leadership skills, acquire a more comprehensive understanding of the research environment, and make a positive impact on their peer community. Despite the growing success of these programs, research ambassador programs do not exist at many Florida collegiate establishments. Furthermore, many of the highly qualified prospective applicants are unaware that such an opportunity exists, or could potentially exist, within their academic environments. The overall goal of this workshop will be to discuss the critical role that undergraduates can play in fostering research involvement, inclusion, and quality at their respective universities. In addition, student research ambassadors from both UCF and FAU will share their own experiences as research leaders and discuss their respective frameworks and activities that their ambassador groups have adopted to strengthen the research environment at their institution.

LESSONS I LEARNED DURING MY JOURNEY THROUGH GRADUATE SCHOOL: HOW CHOOSING THE RIGHT PHD MENTOR IS CRUCIAL FOR SUCCESS

J. MARCELA HERNANDEZ (THE OHIO STATE UNIVERSITY)
LOCATION: COAS 204

Undergraduate students, who are planning to go to graduate school, often focus on the research interests of prospective advisors/mentors, instead of mentoring style. This can lead to a mismatch that will cause slow progress and delayed graduation. Good scientific mentorship is absolutely essential for success in STEM careers and the absence of it is often the reason for the leaky pipeline in STEM. Arguably, students and postdocs should focus on the mentoring quality of prospective mentors instead of research interest. A good mentor will motivate mentees and get them to love whatever research they are doing. However, inexperienced first year students think they are not in a position that would allow them to figure out what are the characteristics of a good mentor for them. Information about how to pick a good graduate advisor/mentor will be discussed by comparing good and bad mentorship experiences. Strategies for making better informed advisor/mentor choices will be outlined.

BREAKING THE BLOCKS: HEURISTICS TO KEEP YOU IN RESEARCH FLOW

JENNIFER SEITZER (ROLLINS COLLEGE)
LOCATION: COAS 205

Doing research is a cognitive activity that is different from learning, studying, and teaching previously discovered information. As researchers, we constantly look at the world anew and consider other possibilities. We are keen observers as well as healthy skeptics. This workshop will both didactically and experientially present techniques that bring us into flow – a highly focused state of mind that fosters the absorption and creation of new information. The workshop will be organized as follows: (1) introduction to flow, (2) participatory activity to illustrate flow, (3) writer’s block and researcher’s block, (4) participatory activity to illustrate blocks, and (5) a list of summarizing heuristics. In essence, this workshop will present an interactive, hands-on experience illustrating how tools can be used to not only break our psychological blocks, but can serve to catapult us to a new level of immersion in our research.



Poster Session 1: Saturday 8:30-9:30am

1. *Characterization of ontogenetic color change in an Atlantic damselfish.* Bayan Alghamdi, Barry University
2. *Co-doping of carbon nanotubes for aerospace applications.* Keith Alvares, Samit Jaiswal, Kevin Leong, Jose Paiz-Larrave, and Virginie Rollin, Embry-Riddle Aeronautical University
3. *Exploring the role of rodent hippocampal D1 receptors in non-spatial object recognition memory.* Kerriann Badal, Sarah Cohen, and Robert Stackman, Florida Atlantic University
4. *Identifying the subcallosal fasciculus of Muratoff in young children.* Natalie Baez, Iris Broce, Adoabi Onunkwo, Gretter Hernandez, and Anthony Dick, Florida International University
5. *The effects of art therapy on the alpha waves of Autistic children.* Christina Baxter, Andrea Hassler, Chris Conner, Kelsey Taber, and Vanessa Rowan, Palm Beach Atlantic University
6. *Rotational diffusivity of nanoparticles and biological fluid viscosity in concentrated protein solutions.* Donald Bejleri, University of Florida
7. *Personality matters: Extroversion, neuroticism, and self-selection in job seeking.* Robin Brown, Austin Carter, and Christopher Leone, University of North Florida
8. *Activity-dependent regulation of calcium and ribosomes in the chick cochlear nucleus.* Cody Call and Richard Hyson, Florida State University
9. *Double trouble and the Moses Illusion: Visual similarity enhances susceptibility to miscomprehension errors while reading.* Jessica Campbell, Danielle Davis, and Lise Abrams, University of Florida
10. *Flaxseed lignan, enterolactone, revealed to produce apoptotic activity in large cell lung cancer cells.* Jordan Cockfield, Stetson University
11. *A psychophysiological investigation of the paradoxical effects of valuing happiness.* Nicholas Coles, University of Central Florida
12. *Stability of p53 mRNA isoforms in MCF7 cells.* Zachary Connelly and L. Michael Carastro, University of Tampa
13. *Can we trust food labeling?* Jessica Crews and Joshua Gomez, Santa Fe College
14. *Eco-Dolphin – Cooperative fleet for surveillance mission.* Zakaria Daud, Ci Wen, Dynamite Obinna, Tzu-hsien Chou, Aishwary Gurung, and Liqiang Chen, Embry-Riddle Aeronautical University
15. *Photoplethysmography and heart rate variability for the prediction of preeclampsia.* Mariem del Rio, University of Florida
16. *Secondary building unit formation in the hydrothermal synthesis of lanthanide coordination polymers.* Jeffrey Einkauf, Ryan Crichton, and Daniel de Lill, Florida Atlantic University
17. *Effect of epigallocatechin gallate in inducing regulated cell death in H460 lung cancer cells.* Kate Ellis, Stetson University

18. *Potential algacidal applications of the Brazilian peppertree.* Morgan Enoch, Dylan Myers, and Ashley Spring, Eastern Florida State College
19. *Diel partitioning of the effects of vermetid gastropods on coral growth.* Morgan Farrell and Lianne Jacobson, University of Florida; Elizabeth Hamman and Craig Osenberg, University of Georgia
20. *Genomic studies of HLA region gene expression during pseudomonas aeruginosa infection.* Daniel Florit and Sushmita Mustafi, Florida International University
21. *Effects of beach CO2 levels on sea turtle hatching success.* Kayla Goforth, University of Florida
22. *Applications of superconducting nanowire inductors.* Lierd Grant, Sean Krupp, Jesse Adams, and Daniel Santavicc, University of North Florida
23. *Educational impact on extending the academic calendar for children with special needs.* Jessika Guerard, University of Tampa
24. *College students’ attitudes toward plagiarism: No bias here!* Sam Hawkin, Jared McNeil, and LouAnne Hawkins, University of North Florida
25. *Your brain on graphic novels...and what your heart says.* Cassie Haynes, Patrick Smith, and Emily Bradshaw, Florida Southern College
26. *DeLand food bank clientele’s perceptions of food and an assessment of their consumption and possible effects on their overall health.* Kelsey Hoblick and Laura Gunn, Stetson University
27. *Grooming behavior in spider crab, Libinia dubia.* Jace Jedlicka and Jennifer Wortham, University of Tampa
28. *The impact of stereotype threat, rumination, and heart rate variability amongst ethnic minorities.* Nicholas Joseph and Dewayne Williams, University of Tampa; Julian Koenig and Julian Thayer, The Ohio State University
29. *Development of a mouse model from ATM-deficient breast cancer.* Jessica Kepple, University of Florida
30. *Empire and sport in British trench papers of WWI.* Kyra Kinaman and Elizabeth Stice, Palm Beach Atlantic University
31. *The adaptation of Klebsiella pneumoniae to increasing concentrations of cephalothin through differential outer membrane porin expression.* Nghi Lam, and Terri Ellis, University of North Florida
32. *Accelerating HIV eradication by defining how patients’ clinical, biological, and socio-demographical factors contribute to the size of the HIV reservoir.* Sergeine Lezeau, Florida Atlantic University; Remi Fromentin, Franck Dupuy, and Jessica Brehm, Vaccine and Gene Therapy Institute of Florida; Jean-Pierre Routy, McGill University Health Centre; Steven Deeks, University of California, San Francisco; Moti Ramgopal, Midway Immunology and Research Center; Rebeka Bordi and Nicolas Chomont, Vaccine and Gene Therapy Institute of Florida; Rafick-Pierre Sekaly, Case Western Reserve University

33. *Benchmarking of computational models against experimental data for adiabatic film-cooling effectiveness.* Simon Martinez and Mark Ricklick, Embry-Riddle Aeronautical University

34. *The role of child life specialists in meeting the needs of children with chronically ill siblings.* Jenna Mathis, University of Florida

35. *Evaluation of WRF forecasts of severe weather environments against mobile upsonde data from the Mesoscale Predictability Experiment.* Brian Matilla, Florida International University; Russ Schumacher, Colorado State University – Fort Collins; Michael Coniglio, National Severe Storms Laboratory; Fanyou Kong, University of Oklahoma Norman Campus

36. *Hydroxyproline ligation in coupling of large peptide-fragments.* James McDaniel, Khanh Ha, and Charles Hall, University of Florida

37. *Proper distractions: Proper name distractors facilitate name retrieval.* Jack Mizell, University of Florida

38. *Student projects in support of NASA's extreme environment mission operations (NEEMO) program.* Carolyn Newton, Victoria Barkley, Ashley Hollis-Bussey, Holly Abernethy, and Jason Kring, Embry-Riddle Aeronautical University

39. *The relationship between territory quality and male competition intensity in the cactus bug, Narnia femorata.* Zachary Nolen, Pablo Allen, and Christine Miller, University of Florida

40. *Public perceptions of social workers as compared to other mental health professionals.* Tracey Planinz and Heather Strobel, University of Central Florida

41. *A study of the effects of limited food supply on Zophobas morio.* Joseph Potechin, Stetson University

42. *Preliminary optimization study of conventional rib turbulators for cooling in gas turbine blades.* Isheeta Ranade, Jaime Gutierrez, Eloy Guillen, Yash Mehta, and Mark Ricklick, Embry-Riddle Aeronautical University

43. *A study to enhance the sensitivity for the discovery of the Higgs boson coupling to dimuons.* Brendan Regnery, Darin Acosta, and Justin Hugon, University of Florida

44. *The effects of masculinity and religiosity on the quality of life of men.* Michael Rovito and Vicky Vazquez, University of Central Florida

45. *A zebrafish model for studying chromosomal disorders.* Mariana Ruiz, Nicole Schtupak, Christina Dampman, and Chris-Ann Xavier, Barry University

46. *CSI: Puerto Rico.* Danny Santamaria, University of Tampa

47. *Algae based fertilizers as a method to increase water quality.* Theodore Schropp and Scott Herber, Eastern Florida State College

48. *Mechanism study of imine-induced hydroxyproline ligation.* Grant Simpson and Khanh Ha, University of Florida

49. *Synthesis of hybrid drug with potential dual functions of an anti-inflammatory and antibiotic activity.* Tanya Therathanakorn, University of Florida

50. *Exploring the relationship of resilience, optimism, and the Big Five.* Robin Thorne, University of Central Florida

51. *Using a cell-based assay for discovering epigenetic cancer therapy drugs.* Jeremy Tran, University of Central Florida

52. *On a novel integral transform and its properties.* John Vastola, University of Central Florida

53. *Plagiarism and the fundamental attribution error: You're either incompetent or lazy!* Destiny Webb, Lucy Andolina, and LouAnne Hawkins, University of North Florida

54. *Inward foreign direct investment: U.S. and China comparisons.* Jason Williams and Xuezhi Zhang, Embry-Riddle Aeronautical University

55. *The structural basis of neurotoxicity of Alzheimer's amyloid β peptide.* Jacqueline Williams, University of Central Florida

56. *Risky sexual behaviors among undergraduate students.* Angelia Wimberly, Samantha Smith, Stephanie Martin, and Mary Martinasek, University of Tampa

57. *Atmospheric weather balloon for near space research.* Francisco Pastrana and Shane Williams, Embry-Riddle Aeronautical University

58. *You cannot spell dyslexia without SLI: Examining specific language impairment and dyslexia and their roles in learning.* Dakota Skipper, University of North Florida

59. *A simulation of Monopoly Mega Edition using Markov chains.* Shree Shreshthra, Jennifer Seitzer, and Richard Lewsin, Rollins College

Poster Session 2: Saturday 10:30-11:30am

1. *Regulation of interferon pathways by ubiquitin specific proteinase 18.* Daniel Aldridge, Jared Taylor, Melanie Cash, Maureen Goode-now, and Mark Wallet, University of Florida.

2. *Development of rapid robotic fish.* Jasfer Aniban, Tianyuan Zhao, and Adedolapo Awofiranye, Embry-Riddle Aeronautical University

3. *Inferior longitudinal fasciculus and literacy skill in young children.* Natalie Baez, Iris Broce, and Anthony Dick, Florida International University

4. *Mutations in DNA cytosolic sensors and their effect on retrovirus sensing.* Antonia Bass, Spyridon Stavrou, and Susan Ross, University of Central Florida

5. *Targeting abnormal metabolism in breast adenocarcinoma cell lines to induce an immunogenic phenotype.* Rachel Berrie, James Hartmann, and Kevin Lang, Florida Atlantic University

6. *MR spectroscopy and functional measures in boys with DMD 12 – 18 months prior to loss of ambulation.* Venessa Bibeau, Donovan Lott, Glenn Walter, Krista Vandenborne, Bill Triplett, Sean Forbes, Rebecca Willcocks, and Claudia Senesac, University of Florida

7. *Influence of simulated microgravity on the transcriptome of the mutualistic bacterium Vibrio fischeri.* Mary Bishop, Florida State College at Jacksonville; Alexandra Duscher, Giorgio Casaburi, and Jamie Foster, University of Florida

8. *Characterization of meta-stable photoacids for the use in ion-selective optodes.* James Boone, Valentine Johns, Parth Patel, Percy Calvo-Marzal, and Karin Chumbimuni-Torres, University of Central Florida

9. *Personality and marriage: Self-Monitoring differences in benchmarks of relationship well-being.* Courtney Burch, Rosanna Rodriguez, Robert Moulder, and Christopher Leone, University of North Florida

10. *Function of ketohexokinase (khk) in somitogenesis and angiogenesis.* Chao Chen, Di-Hua He, and Changzoon Chun, University of Florida

11. *Mechanochemistry: A greener alternative for the synthesis of biologically important porphyrin targets.* Diana Cordero and Tamara Hamilton, Barry University

12. *Genotyping of a p73 dinucleotide polymorphism in human cancer cell lines.* Ricardo Cordova and Kaia Hamptom, University of Tampa; Dongwha Kim and Jong Park, Moffitt Cancer Center; L. Michael Carastro, The University of Tampa

13. *Elemental analysis of various types of zooplankton in the Lake Worth Lagoon, FL, USA.* Jennifer Cutter, Doug Kreh, Amanda Long, and Linda Sedlacek, Palm Beach Atlantic University

14. *Interaction of diet and viral infection on life history traits in Drosophila melanogaster.* Aarathi Devi and Marta Wayne, University of Florida

15. *Neoplastic metastasis via differential splicing.* Vikram Dhillon, University of Central Florida

16. *Antidepressant efficacy of dextromethorphan: A new paradigm for clinical depression research.* Randall Ellis, Florida Atlantic University

17. *Generation and characterization of a triple transgenic fly model of Alzheimer's disease.* Kelsey Faust and Diego Rincon-Limas, University of Florida

18. *Memories.* Erica Fremming, University of Tampa

19. *Religion in Canaan: An archaeological and textual analysis.* Rebecca Nicole Garcia, Florida International University

20. *Molecular identification of noctuid insects of agricultural importance.* Craig Jerome, Santa Fe College

21. *The autonomous dynamic localization system.* Robert Goring and Donald Bennet, Embry-Riddle Aeronautical University

22. *"If the Personality Fits..": Self-Monitoring as a predictor of congruency in job description and self-selection.* Shanna Grant-Olshausen and Christopher Leone, University of North Florida

23. *Determination of lanthanide extraction efficiencies of multipodal CMPO ligands.* David Hardy, Michael Patterson, and Shelby McGraw, University of Tampa; Shannon Biros, Grand Valley State University; Eric Werner, University of Tampa

24. *Do fish fear snorkelers? Nonlethal human effects on fish foraging behavior.* Jessica Harris and Chris Li, University of Florida

25. *Sex differences in mood perception during unilateral hand contractions.* Johnson Ho, Erica Taft, and Katherine Hooper, University of North Florida

26. *Physiological changes of swallowing in patients treated with radiotherapy for head and neck cancer.* Sara Kesneck, Lauren Mundy, and Hayley Overstreet, University of Florida

27. *Development of colorimetric assay for sex determination in ancient DNA.* Dmitry Kolpashchikov, Tosha Dupras, Courtney Powell, and Katie East, University of Central Florida

28. *Risky drinking & eating behaviors among college students.* Kaitlin Leonard, Jessica Krause, Nhat Nguyen, and Mary Martinasek, The University of Tampa

29. *Male physical self-perceptions in those who exercise frequently vs. those who do not among the Stetson University community.* Anthony Machado and Laura Gunn, Stetson University

30. *An eye tracking study examining spatial working memory in infants.* Nicole Matos, Ifrah Waheed, Marcela Ramos, Alina Nazareth, Melanie Gallo, and Shannon Pruden, Florida International University

31. *Liquid chromatography and mass spectrometry method development for global lipidomic analysis.* Danielle McDougall, Rainey Patterson, Timothy Garrett, Richard Yost, University of Florida

32. *Differences in crop growth and leaching rates of low N-P and high N-P fertilizers.* Kasey McDowell, James Pouncey, Brent Anderson, and Ashley Spring, Eastern Florida State College

33. *The feasibility of PRSEUS for General Aviation.* Nick Mehlig, Chris Brown, Zack White, Jeremy Asomaning, Dakota Melvin, Diego Rodriguez, Chitrang Patel, and Darryl Jennings, Embry-Riddle Aeronautical University

34. *Improving ion-selective electrodes for applications in multiplex analysis.* Samantha Mensah, Andrew Manhan, Michelle Rich, and Karin Chumbimuni-Torres, University of Central Florida

35. *Phylogeography & genetic conservation of red (Rhizophora mangle) and black (Avicennia germinans) mangroves of the Bahamas, Puerto Rico, Costa Rica and Cuba.* Veronica Moino, University of Florida

36. *The effectiveness of Cognitive Behavioral Therapy for Generalized Anxiety Disorder: A meta-analytic review.* Jordan Nimitz, Lauren Farrell, and Brian Fisak, University of North Florida

37. *ATRS global airport benchmarking.* Yuko Oda, Maxim Akbaev, and Maite Moscoso, Embry-Riddle Aeronautical University

38. *The utilization of adeno-associated virus (AAV) vectors for use in the immunotherapy of prostate cancer.* Munjal Pandya, University of Florida

39. *Stable isotope evidence for the geographic origins and military migrations of Napoleonic soldiers from a mass grave in Vilnius, Lithuania.* Serenela Pelier, University of Central Florida

40. *Florida's Freedmen's Bureau during reconstruction, 1865-1872.* Joshua Rieger, University of Florida

41. *Graphics processing unit biofilm image processing (GPUBIP).* Hugo Riggs and Trevor Cickovski, Eckerd College; Giri Narasimhan, Florida International University

42. *Smart composite structures.* Abhinandan Rissam, Balaji Sivasubramanian, Leander Paul, and Sathya Gangadharan, Embry-Riddle Aeronautical University

43. *Does fluctuating symmetry predict gonadal quality in house crickets (Acheta domesticus)?* Pedro Sanchez, Shyaira Dineen, Gabriela Hernandez, Eva Paulus, Nistal Aguilar, Ashley Bratcher, Basha Gerstenfeld, Natalie Govea, Rebecca Hernandez, Alaina Mitchell, Paola Montenegro, Elizabeth Rodriguez, and Riann Zabaleta, Barry University

44. *Membrane lipid aminoacylation in Enterococcus faecium is responsible for multiple-drug resistance phenotype.* Austin Sheppe and Hervé Roy, University of Central Florida

45. *Exploratory analysis of knowledge, attitudes, and consumption of antioxidants among the Stetson University Community.* Eric Spiewak and Laura Gunn, Stetson University

46. *Susceptibility to phonological interference in a spoonerism elicitation task.* Michael Stoop and Lori Altmann, University of Florida

47. *Understanding the effects of art therapy on beta waves of Autistic children.* Kelsey Taber, Chris Conner, Taylor Anderson, Andrea Hassler, Christina Baxter, and Vanessa Rowan, Palm Beach Atlantic University

48. *Phylogenetic analysis of an unknown chlorovirus.* Tara Temkar and Eric Freundt, University of Tampa

49. *Invasive lionfish diet composition from summer roundups.* Sara Thomas, Florida Atlantic University

50. *Selective nitration of Hsp90 by peroxytrite in the presence of ALS-linked mutant SOD.* Joane Titus, Alvaro Estevez, Kristen Thomas, Cassandra Dennys, and Maria Franco, University of Central Florida

51. *Effects of sexual debut on sexual risk taking behaviors in adolescent males.* Adrianna Tilton, University of Central Florida

52. *Effect of gypsum and residue on infiltration rate of water in two soils in Ohio.* Shantal Tummings, University of Central Florida; Maninder Walia and Warren Dick, The Ohio State University

53. *Development of a fluorescent drug screening platform for inhibitors of Mycobacterium tuberculosis protein-protein interactions.* Zina

Versfeld, Kaley Wilburn, Haleigh Hodges, and Kyle Rohde, University of Central Florida

54. *Nano-Oncology: Applications to cancer treatment.* Juliana Viana, Valencia Community College

55. *Self-monitoring differences in views of current and former romantic partners.* Grace Weekley, Jasmine Hamilton, R. Lee Gainey, and Christopher Leone, University of North Florida

Poster Session 3: Saturday 2:30-3:30pm

1. *Investigating the risk factors for depression among Latino immigrants in the community of Florida.* Elizabeth Altamirano, Charles Negy, Stacey Dunn, and Alma Alarcon, University of Central Florida

2. *Gender, sexuality, and performance in Margaret Cavendish's The Convent of Pleasure.* Nazeer Bacchus, University of Central Florida

3. *Regeneration of cerata in the sacoglossan sea slug Cyerce antillensis.* Kourtney Barber and Michael Middlebrooks, University of Tampa

4. *The eigenvalue problem for the Laplace-Beltrami operator and the Cayley-Klein geometries.* Robert Bauer, University of Central Florida

5. *Speech forms: Competing views of the public forum in "McCullen v. Coakley".* Joanna Bomfim, University of Florida

6. *Applied Electronics Bootcamp: The enhancement of electrical engineering curriculum through student-directed learning programs.* Oceane Boulais and Max Torres, Florida Atlantic University

7. *HELWAVE: High efficiency low wake aquatic vehicle exterior.* Daniel Brunson, Joshua Pevitz, and Matt Neiding, Embry-Riddle Aeronautical University

8. *Mapping ionotropic receptor expression in Aedes aegypti olfactory tissue.* Kevin Cabrera, Reinier Alvarez, and Matthew DeGennaro, Florida International University

9. *Using mitochondrial and nuclear genes to clarify the subspecies classification of D. p. acricus.* Thomas Carpino, University of Central Florida

10. *"Pots calling kettles black": Ingroup-Outgroup effects on political perceptions.* Erik Clarke and Christopher Leone, University of North Florida

11. *Development of PCR assays for the detection of Wolbachia endosymbionts in host mosquito tissues and heartworms.* Sarah Curk and Brandon Fraga, Hillsborough Community College

12. *Characterization of smooth muscle cells from patient-derived iPSCs.* Bayli DiVita and Nikolett Biel, University of Florida

13. *Gene order and core gene analysis of giant virus genomes.* Shane Dorden and Padmanabhan Mahadevan, University of Tampa

14. *High-Speed free space laser communication project.* John Easum, Embry-Riddle Aeronautical University

15. *Memories for non-normative events: Emerging adults' narratives of a brush with death.* Chelsea Fordham, University of Florida

16. *Understanding the role of DNA sequence in replication timing.* Molly Gordon, Florida State University

17. *Providing proof of concept for strengthening new natural products research group.* Cidya Grant, Carly Chapman, and Mireille Aleman, Palm Beach Atlantic University

18. *Perceptions on racial profiling by police: A qualitative approach in Jacksonville Florida.* Stephanie Halcomb, University of North Florida

19. *Eleanor Roosevelt's 'most wonderful and worthwhile experience': Leadership as chair of the United Nations' Human Rights Commission, 1946-1948.* Nathan Hale, Stetson University

20. *Making sense of intimacy.* Eve Haydt, Stetson University

21. *The mechanisms behind the geometric morphometric variations of the Asian citrus psyllid, Diaphorina citri (Hemiptera: Liviidae).* Morgan Hull and Thompson Paris, University of Florida

22. *Cancer lineages and radiotherapy.* Geena Idefonso, University of Central Florida; John Lowengrub, University of California – Irvine

23. *Genome organization of genes activated in early embryogenesis and development within the human sperm nucleus.* Elizabeth Jordan and Dimitrios Loannou, Florida International University

24. *The effect of BDNF over-expression on adult neurogenesis and seizure vulnerability.* Danick Joseph, Florida Atlantic University

25. *Synthetic jet actuator design.* Robert Keane, Embry-Riddle Aeronautical University

26. *Infrared properties of monolayer and bilayer graphene.* Sean Krupp and Daniel Santavicca, University of North Florida

27. *Augmentative and alternative communication interventions for children with complex communication needs.* Linda Lavadia and Jennifer Kent-Walsh, University of Central Florida

28. *Chromosome end protection and telomere length maintenance in cdc13-1 strains.* Kamren Livingston, Wesam Azaizeh, KeiAuyndria Edwards, Jovans Lorquet, Christoph Hengartner, and Leticia Vega, Barry University

29. *Benzotriazole-mediated synthesis of 7-membered cyclic dipeptides.* Jocelyn Macho, Khanh Ha, University of Florida

30. *Biodiesel production via methanol tolerant lipase transesterification from Proteus mirabilis in methyl acetate.* Alaina McDonnell, Jake Altier, Demetrius Carey, and Dennis Witherow, University of Tampa

31. *Induction of SOD1 aggregation in vitro through the exogenous administration of diseased spinal cord homogenates.* Benjamin McMahon, University of Florida

32. *Study on the effect of the catalyst on the physical parameters of carbon spheres.* Tejas Mehta, Jovita Pinto, Keith Alvares, Samit Jaiswal, Kevin Leong, Jose Paiz-Larrave, and Virginie Rollin, Emb-

ry-Riddle Aeronautical University

33. *The role of Genistein in cell cycle arrest and/or apoptosis in Jurkat T cell Leukemia.* Laurny Mohler, Stetson University

34. *University student social policy opinions: An analysis of explanatory factors.* Julio Montanez, University of Central Florida

35. *Extraction and chemical analysis of urushiol in Schinus terebinthifolius.* Dylan Myers, Paige Twiddy, Ashley Spring, and Cristina Oropeza, Eastern Florida State College

36. *Diffraction of electrons and wave-particle duality experiment in an introductory physics lab.* Joao Nascimento Francolin, Valencia Community College

37. *An analysis on the decline of authoritative powers of the Papacy and its application to challenges to the P-5.* David Ocampo, Florida International University

38. *Doing a favor leads to decrease in support for subsequent pro-environmental behaviors.* Dustin Olguin, Nicole Law, Sebastian Ray, Rebecca Cameron, and Heather Truelove, University of North Florida

39. *Autonomous multi-rotor array for atmospheric boundary layer measurements.* James Pagan, Evan Hiestler, Newton Kirby, James Rogers, and Cody Shaw, Embry-Riddle Aeronautical University

40. *Bound states in the radiation continuum for periodic structures.* Joseph Park, Christopher Moore, and Sergei Shabanov, University of Florida

41. *Learning to cope: An analysis of distress levels among chronically ill women receiving a couple and relationship education (CRE) intervention.* Taylar Peoples, University of Central Florida

42. *Secondary data analysis of fragile families: Looking at the differences between broken and together families.* Nicholas Resciniti, University of Central Florida

43. *Attention bias modification treatment effects on children's negative interpretation biases.* Andres Roque, Florida International University

44. *Development of the novel adeno-associated virus (AAV) vectors with selective tropism to human cancer cells.* Rana Sayroo, University of Florida

45. *New terpenoids from the Caribbean gorgonian Pseudopterogorgia acerosa.* Paul Scesa, Florida Atlantic University

46. *Presence and immersive tendency in modern VR.* Nathan Sonnenfeld, Matthew Meyers, Tyler Mullis, and Freddy Rincon, Embry-Riddle Aeronautical University

47. *Comparing the relationship satisfaction and individual distress between low-income couples in first-time marriages and subsequent marriages.* Luke Strawn, University of Central Florida

48. *Density of Gabor and Gabor-like systems.* Joseph Sullivan, University of Florida

49. *In vitro* transcription of probes for the *in situ* detection of Pc2 Polycomb 2 (*cbx4*) expression in zebrafish (*Danio rerio*) embryos. Bertina Telusma and Chuco Glen, Barry University

50. *Rojas' renaissance tragicomedy Celestina as an illustration of the lasting social impact of literature.* Rachel Tobillo, University of Central Florida

51. *Is there evidence to support use of the popular "party" exercise to demonstrate Holland's theory?* Dennis Turner, University of Central Florida

52. *High-Speed video analysis of the escape behavior in the crayfish *Procambarus alleni*.* Elizabeth Virgl and Rebecca Waggett, University of Tampa

53. *Rest in peace? Gender differences in death-related memories: Predicting current anxiety.* Hannah Warshowsk and Hsiao-Wen Liao, University of Florida

54. *Causal attributions and college plagiarism: Some effects of consequences on perceived causation.* Stephanie Williams, Robert Melcolm, Louanne Hawkins, and Christopher Leone, University of North Florida

55. *Autonomous satellite recovery vehicle.* Devonte Grantham and William Lewis, Embry-Riddle Aeronautical University

Poster Session 4: Saturday 3:45-4:45pm

1. *Molecular phylogenetics of two Florida watersnakes: *Nerodia clarkii* and *Nerodia fasciata*.* Lindsay Arick, Jason Hickson, Jason Strickland, and Christopher Parkinson, University of Central Florida

2. *Indirect potentiometric detection of DNA hybridization using a four-way junction system.* Stephanie Armas, Kathryn Young, Gesca Borchardt, and Karin Torres, University of Central Florida

3. *Assessing levels of religiosity, paranormal beliefs, and death and trait anxiety, among college students.* Brennan Baker, Elizabeth Altamirano, Nicholas Joseph, Mary Norman, and Ana Serpa, University of Central Florida

4. *Fabrication of single grain and multiple grain focused ion beam milled lamellae.* George Baure, Marissa Buck, and Juan Nino, University of Florida

5. *Design of a physical windkessel model for use in cardiovascular engineering experiments.* Kyle Beggs, University of Central Florida

6. *The relationship between drug use and risky sexual behavior.* Paige Bond, Alissa Gebben, Brandon Harpold, Christina Higgins, and Alex Ross, University of Central Florida

7. *Size of roof pressure zones on monosloped and sawtooth roof buildings.* Austin Bouchard, University of Florida

8. *iPads 4 Autism.* Alessandra Carno, Brandon Wizikowski, and Michael Buck, Embry-Riddle Aeronautical University

9. *Cell death induced by Puerarin in Jurkat leukemia cells.* Sheree Carter and Roslyn Carter, Stetson University

10. *The impact of the ideology of consumerism on capitalism.* Orlando Crespo, Florida International University

11. *Examining suitable soil regimes for reestablishment of *Camassia quamash* (blue camas), Flathead Indian Reservation.* Jenna Davis, University of Florida; and Ashley Bald, University of Idaho

12. *The mathematics and art connection- symmetry group classification algorithms.* Stevens Dormezil, Julia Seay, and Sam Schlegel, Florida Atlantic University

13. *Can neurofeedback training lead to changes in functional brain connectivity?* Nicole Drummond, Mohit Rana, and Ranganatha Sitararam, University of Florida

14. *Plagiarism in college: Some effects of consequences on attributions of responsibility.* Kelsey Eagan, LouAnne Kawkins, and Christopher Leone, University of North Florida

15. *The convergent total synthesis of biologically active sulfur-containing curvularin derivatives from the fungus *Penicillium sumatrense* MA-92.* Luke Eliopoulos and Nikia Toomey, University of Central Florida

16. *Determination of surfactant solution viscosities with rotational viscometer.* Remelisa Esteves, Nonso Onukwuba, and Birco Dikici, Embry-Riddle Aeronautical University

17. *Subcellular localization of Theiler's murine encephalomyelitis virus.* Maximilian Ganz and Eric Freundt, University of Tampa

18. *Current density map construction using magnetic resonance electrical impedance tomography.* Andrew Girard, University of Florida

19. *Can artificial intelligence be free?* Katelyn Hallman, University of North Florida

20. *Incorporating creativity into one's daily life to generate and sustain a healthy lifestyle.* Cara Hazel, University of Tampa

21. *Re-imagining Jane Austen through *The Lizzie Bennet Diaries*.* Bianca Hernandez, Stetson University

22. *Exploring a relationship between social anxiety disorder and bilingualism.* Nicholas James, University of Central Florida

23. *Generation of rhodopsin cDNA constructs with mutations that cause the blinding disease retinitis pigmentosa.* Amber Johnson, Maryssa Ellison and Suzanne Cardona, Palm Beach Atlantic University

24. *Effects of food predictability on growth and body composition of mice.* Brianna Keenan, Rebecca Heller, Neil Rowland, and Kimberley Robertson, University of Florida

25. *Optimal meteorological conditions at selected NASCAR facilities.* Carolyn Kiss, Randell Barry, and Christopher Herbster, Embry-Riddle Aeronautical University

26. *The polarizing power of mere thought: The relationship between need for cognition and self-persuasion.* Danielle Krusemark, Christopher Leone, University of North Florida

27. *Development of bio-inspired flexible propulsors for the next generation of highly maneuverable underwater vehicles.* Evan Latshaw, Oscar Curet, and Hanlin Liu, Florida Atlantic University

28. *The other face of Cuban medical diplomacy.* Dianelis Lazo, Florida Atlantic University

29. *The Female Man and The Handmaid's Tale: A reflection of the woman's experience.* Victoria League, University of Central Florida

30. *Phenotypic analysis of gene loci identified as risk factors for type 1 diabetes.* Serena Martin, University of Florida

31. *Diversity of UV-reflectance patterns in several species of Atlantic damselfishes (*Pomacentridae*).* Kevin McCarty, and Michael Robinson, Barry University

32. *Infrared spectroscopic study of the hydrogen bonding associations through c-o band intensities in isopropanol-water and t-butanol-water mixtures.* Tegan McKim and Khalique Ahmed, Lynn University

33. *Resolving a rapid radiation in *Guzmania* (*Bromeliaceae*) using low-copy nuclear genes.* Edwin McMillan, Ryan Moraski, Doug Soltis, and Pamela Soltis, University of Florida

34. *The parametric design of a computer desk based on ergonomics.* Teryn Miller and Nick Cambria, Embry-Riddle Aeronautical University

35. *Feeding preference behaviors of the sacoglossan sea slug *Elysia clarki*.* Kayla Mladinich and Michael Middlebrooks, University of Tampa

36. *Cardiac response to thermal stimulus in Burmese pythons.* Maria Myrback and Ashley Spring, Eastern Florida State College; Sherri Emer, Florida Institute of Technology

37. *Responsive sea-based logistics delivery systems.* Catherine Ninah, University of Central Florida

38. *Optimization of the capsid of recombinant adeno-associated virus 6 vectors for gene therapy.* Diego Nolasco, University of Florida

39. *Solar Tracker.* Erik Parker and William Griffin, Embry-Riddle Aeronautical University

40. *Ethnological study of endocannibalism and related folklore of the Yanomami, Wari, and Aghoris.* Thuy-Linh Pham, Erin Trumble, and Alexa Pennavaria, Florida State University

41. *Diadzein induces apoptosis in Jurkat leukemia cells.* Ernest Phillips, Stetson University

42. *The impact of culture on students' motivation in acquiring a second language.* Irina Pidberejna, University of Central Florida

43. *Bioremediation: Design of a carbonic anhydrase II variant for capturing industrial CO2.* Valerio Rasi, Brian Mahon, Christopher Boone, and Robert McKenna, University of Florida

44. *Optimization of the processing of thermally deposited chalcogenide films for direct laser writing of targeted nanostructures.* Gerald Richardson, Casey Schwarz, Chris Grabill, Anna Lewis, Stephen Kuebler, Benn Gleason, Kathleen Richardson, Alexej Pogrebnyakov, and Theresa Mayer, University of Central Florida

45. *Providing further insight into the binding of antiparasitic heterocyclic diamidines to DNA using restriction enzyme activity assays.* Diana Rodriguez, Florida International University

46. *When circumstances get in the way: Self-monitoring differences in psychological and physiological stress.* Moriah Sciallo, University of North Florida

47. *Single cell force spectroscopy to characterize the interaction between two PfEMP1 domains and monocytes.* Shalondria Sears, Florida Atlantic University

48. *Synthesis and fluorescent studies of coumarin conjugates.* Christopher Sebastiano and Rachel Jones, University of Florida

49. *Sowing the seeds of dishonesty.* Heather Strobel and Dennis Turner, University of Florida

50. *Does artificial selection for cold hardiness also drive growth rates in the fly *Drosophila melanogaster*?* Andre Szejner Sigal, University of Florida; Caroline Williams, University of California - Berkeley; Theodore Morgan, Kansas State University; Danial Hahn, University of Florida

51. *Some new non-cryogenic fuels.* Ilia Toli, and Shengli Zou, University of Central Florida

52. *The effect of misogynistic humor on the perception of women.* Natasha Vashist, University of Central Florida

53. *Sleep patterns and fatigue in isolation and confinement.* Eric Watkins, Antoine Juhel, Chelsea Iwig, Carolyn Newton, Elise Reeves, Carlos Giraldo, and Chui-Miin Lee, Embry-Riddle Aeronautical University

54. *Conditions affecting the wound healing process of adult *Danio rerio* wildtype zebrafish.* Kevin Williams, Victoria Hoelscher, and Jessica Ricketts, Barry University

55. *High-Resolution abundance analysis of stars with small planets discovered by Kepler.* Drake Williams, Simon Schuler, and Zachary Vaz, University of Tampa

56. *Novel cyclic peptoids targeting HIV TAR RNA to block Tat binding.* Vivian Wong and Xin Qi, University of Florida

57. *Simulating the Magnus effect on a soccer ball.* Jordan Yamson, Valencia Community College

58. *The transfer of mand-to-tact training: Acquisition rates examined in two children diagnosed with Autism spectrum disorder.* Vanessa Yanek, Florida International University

59. *Investigating the effects of stress on cognitive and emotional moral decision making.* Jessica Adams, Tracy Alloway, and Lori Lange, University of North Florida



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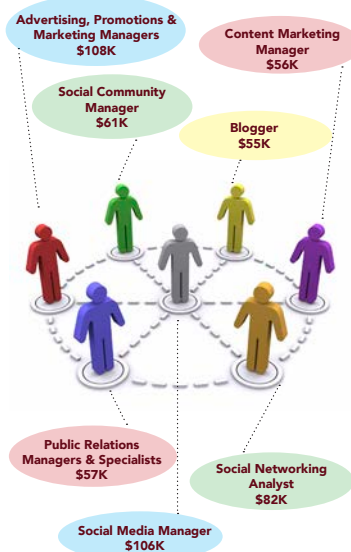
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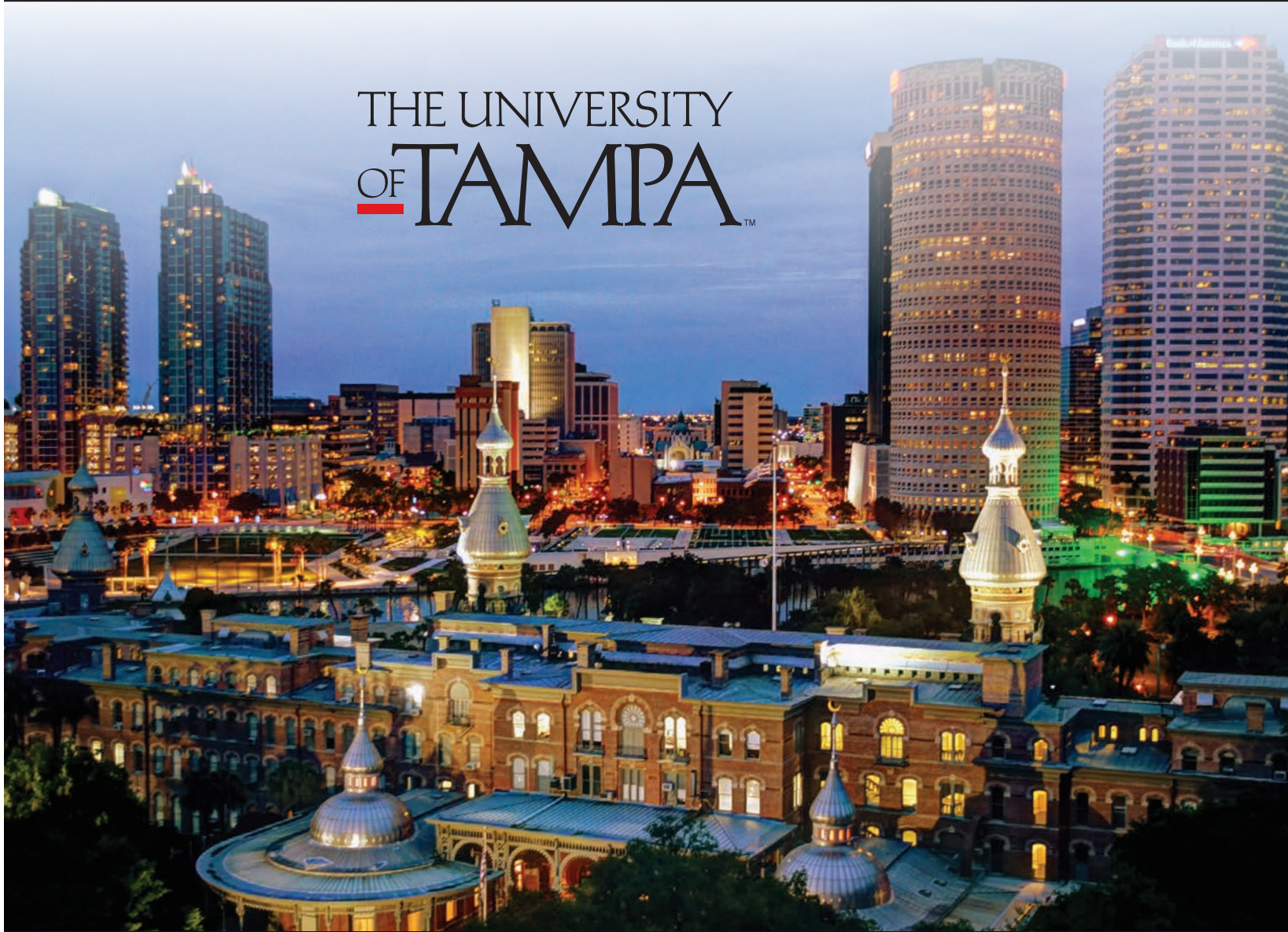
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5	Propellers Restaurant
6	College of Aviation
7L	Canaveral Hall / Post Office
7Q	AMS Hangar
7R	Test Cell
7T	Engine Test Cells
8	College of Arts & Sciences
10	Advanced Flight Simulation Center
11	Willie Miller Instructional Center
12	John Paul Riddle Student Center
14	Tine Davis Fitness Center
15	Racquetball Courts
16	Center for Faith & Spirituality
17	McKay Hall / Housing Office
18	Doolittle Hall
20-A	Wellness Center-HDS
20-B	Wellness Center-Counseling
21	Bookstore
22	Office of Undergraduate Research (IGNITE) & Alumni Relations
23	HUB & Honors Center
25	Fleet Maintenance Hangar
26	Flight Operations
27	Emil Buehler Aviation Maintenance Science Building
28	Apollo Hall
29	College of Business
30-1	Student Financial Services
30-2	Language Institute
32	Campus Safety
101	Corsair Hall
215	IT One
219	IT Two
221	Track & Field Concession
223	Track & Field Bleachers
501	Brigadier General Spruance ROTC Building
509	Veterans Affairs
601	ICI Fieldhouse
603	Silwa Stadium
605	Ticket Concession
607	Soccer Field Bleachers
1500	Student Village-Residence Life
1575	University Recreation Center

