FLORIDA UNDERGRADUATE RESEARCH CONFERENCE

Friday, February 24th

5:00-7:00 p.m.  Registration and Reception, FAU Stadium Delray Hyundai Deck
6:00 p.m.       Keynote Speaker

Saturday, Feb. 25th

Student Union Bldg. 31

7:30-8:30 a.m.  Check-in, Registration (Student Union lobby) and light breakfast (The Burrow)
8:30 a.m.-4:30 p.m. Graduate Recruiter Fair (Student Union Lobby)
8:30-9:30 a.m.  Poster Session I (Grand Palm Room)
9:45-10:30 a.m. Workshop Session I (Various Student Union rooms)
10:45-11:45 a.m. Poster Session II (Grand Palm Room)
11:45 a.m.-1:15 p.m. Lunch (Atlantic Dining Hall and the Burrow) and Graduate Recruiter Fair (Student Union lobby)
1:15-2:15 p.m.  Poster Session III (Grand Palm Room)
2:30-3:15 p.m.  Workshop Session II (Various Student Union rooms)
3:30-4:30 p.m.  Poster Session IV (Grand Palm Room)
On behalf of Florida Atlantic University,

Welcome to the 7th Annual

Florida Undergraduate Research Conference!

Florida Atlantic University, and especially the Office of Undergraduate Research and Inquiry, is thrilled to be hosting FURC 2017. This year, over 330 separate research projects are being presented to more than 535 conference participants. Twenty-five different colleges and universities, ranging from large public institutions to small private colleges are represented in the research being showcased. Additionally, thirty-three graduate recruiters from across the nation are here showcasing their graduate opportunities to Florida’s best and brightest.

During the conference, you will have the chance to attend poster sessions, professional development workshops, and the graduate recruitment fair throughout the day. We hope you will make the most of your time here during this conference.

We extend our heartfelt thanks to everyone who made this conference possible. Thank you again and welcome to FURC 2017!

The FAU FURC Team
Kate Detwiler is an assistant professor of anthropology at Florida Atlantic University, where her research focus is on the evolution and conservation of African forest monkeys. Her primatology lab is based in the Biological Sciences Department and represents an interdisciplinary collaboration between the Anthropology Department in the College of Arts and Letters and the Biological Sciences Department and Environmental Sciences Program in the College of Science. Her lab specializes in studying rare and endangered primate species in the Congo Basin rainforests in the Democratic Republic of the Congo, hybrid monkeys in Gombe National Park in western Tanzania, and a local population of introduced African monkeys living in the mangrove swamps near Fort Lauderdale airport. Detwiler completed her bachelor’s degree in biology at Bates College (1995), where she received the Thomas J. Watson Fellowship upon graduation, later earning her doctoral degree in anthropology at New York University (2010). Prior to arriving at FAU, she was a postdoctoral science fellow at Columbia University in the Department of Ecology, Evolution, and Environmental Biology. She teaches biological anthropology courses to undergraduate and graduate students at FAU, and her work on the discovery of the new monkey species *Cercopithecus lomamiensis* received wide scale media coverage, including National Geographic, Science Magazine and Nature.
How to identify a Good Advisor in Graduate School
Marcela Hernandez, Ph.D., Ohio State University

This session is for undergraduate students who are planning to attend graduate school. Information about how to pick a good graduate advisor/mentor will be given by comparing good and bad mentorship experiences. Students will learn strategies for making better informed advisor/mentor choices. Session goals: the goals of this session are: 1) to inform students what are important characteristics of a good mentor 2) to give students examples of red flags and how to recognize them when evaluating possible advisors/mentors 3) to suggest strategies to evaluate advisors/mentors and 4) to provide students with additional resources to guide them in choosing a mentor. The speaker will analyze in depth two contrasting mentoring experiences and explain what the determining factors for success were.

Session and Location:
Session 1 9:45 - 10:30 a.m. Majestic Palm A

Dumbfounding Presentations or Just Dumb Presentations:
Best Practices in Preparing to Present
Christopher Leone and LouAnne Hawkins, University of North Florida and Leone & Hawkins Consulting

How many of you have attended presentations that were painful to watch? This may be because relatively few people are ever trained in best practices for communicating research findings. Yet the Council on Undergraduate Research (2012) stresses the importance of undergraduates disseminating their research findings at conferences. So how can you be prepared to make a presentation with which everyone will be impressed? This interactive workshop will familiarize students with the most effective methods for making amazing presentations and provide them with tools to assess their own presentations before going off to conferences.

Session and Location:
Session 1 9:45 - 10:30 a.m. Majestic Palm B
Session 2 2:30 - 3:15 p.m. Majestic Palm B

How to write an effective personal statement
Jon Gottesman, Ph.D., University of Minnesota

Intended audience: students planning to apply to graduate programs, especially, but not exclusively, the Ph.D.

Writing the personal statement is often the most stressful part of a graduate school application. This breakout session will provide answers to questions that many applicants have. What are admissions committees looking for? How do I make myself stand out? Examples of statements will be provided to highlight common errors to avoid and good practices to employ. Considerable time will be reserved for questions from attendees.

Session and Location:
Session 1 9:45 - 10:30 a.m. Sugar Palm Room
Session 2 2:30 - 3:15 p.m. Sugar Palm Room
**Summer Off-Campus Research Experiences**
Kim Schneider, Ph.D., University of Central Florida

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 1,000s) 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.

Session and Location:
Session 2  2:30 - 3:15 p.m.  Palmetto Palm Room

**How to Ask for, Process, and Use Feedback in Undergraduate Research**
Aubrey Kuperman, Ed.M., University of Central Florida

Topic and Intended Audience: Feedback in Research (for students)

Red track changes in Word, ‘bleeding’ term papers filled with red pen, and rejection letters from publications: feedback in undergraduate research conjures vision of ‘failure’ for many students. This is a problem because feedback is a central part of academic research, as an undergraduate and beyond. This interactive workshop aims to help students harness the power of feedback to improve their research. It will focus on feedback as a cycle: asking for feedback, managing emotional responses to feedback, analyzing feedback, and planning for improvement.

Session and Location:
Session 1  9:45 - 10:30 a.m.  Queen Palm Room
Session 2  2:30 - 3:15 p.m.  Queen Palm Room
“Conferencing” as a Sport: The Unofficial Guide to a Successful Conference Experience
Ashley Smith and Kelsey Eagen, University of North Florida

Topic and Intended Audience: Making the most of an academic conference, intended audience is experienced and inexperienced conference goers (general audience)

Attending a conference is a unique and rewarding experience however, conferences can often be stressful and confusing. They elict a number of plaguing questions such as, what should I do at the reception? With whom should I network and why? Which events should I attend? Can connections made at a conference help me get into graduate school? This interactive workshop, designed for both experienced and inexperienced conference goers, aims to provide some answers to these questions and help prepare you to make the most of your future conference experiences. First, we will discuss effective ways to “Pregame,” or best prepare for a conference. Then we will discuss effective ways to play the “game,” or navigate the conference environment from the initial reception to the closing statements and everything in-between. Attendees will receive a ‘playbook’ designed to equip them with strategies they can use to make most of their next conference.

Session and Location:
Session 1 9:45 - 10:30 a.m   Palmetto Palm Room

Wrestling with Finding My Research Passion…and Then Funding It!
Jorge Osio-Norgaard and Christine Morrow, University of Colorado

Topic and Intended Audience: Transitioning from Undergraduate to Graduate School, Undergraduate Students.

Osi-Orgaard’s talk features his undergraduate and graduate experiences. He is a recipient of two prestigious fellowships, one from the National Science Foundation’s program Graduate Research Fellowships (NSF), and the other from the Department of Education’s Graduate Assistance in Areas of National Need program (GAANN). His talk highlights his undergraduate journey of individual growth and what led him to pursue a graduate degree. This includes topics such as changing areas of research interest multiple times, leaving research and trying out industry, then returning to research to find the topic that made him feel passionate about pursing his doctorate. Morrow’s segment of the presentation features the research opportunities available for undergraduate and graduate students at the University of Colorado, Boulder.

Session and Location:
Session 1  9:45 - 10:30 a.m. Sago Palm Room
Session 2  2:30 - 3:15 p.m. Sago Palm Room
Your Digital Footprint: Develop your Online Academic Portfolio
Colleen Smith, University of Central Florida

Topic: Social Media Management and Career Development

Have you ever Googled yourself? Managing your digital footprint is becoming more important as students develop in their academic and professional careers. Awareness of your digital footprint and understanding the perception of future employers and graduate school admission committees have of your online presence is just the first step. By attending this workshop, you will learn awareness and management strategies, along with digital citizenship and networking techniques to apply to your developing online portfolio. The focus of this workshop is social searching and actively integrating yourself into the conversations with leading researchers and trends in your field of study.

Session and Location:
Session 1    9:45 - 10:30 a.m.      Student Services Bldg. Rm 132
Session 2    2:30 - 3:15 p.m.        Student Services Bldg. Rm 132

Undergraduate Research at the Deep Underground
Neutrino Experiment (DUNE)
David DeMuth, Jr., Valley City State University

High Energy Particle Physics research has deepened our understanding of the universe through world class explorations of energy and matter at a fundamental scale, prompting amazing discoveries, innovation, and technologies. A new particle physics experiment at Chicago’s Fermi National Accelerator Laboratory will focus neutrinos to a deep underground laboratory 800 miles away in South Dakota. The design, construction, and operation of precision particle detectors is coordinated by a large international collaboration of scientists and engineers, many of whom enjoy facilitating opportunities for undergraduate research. In this session the DUNE project will set a context for the exciting high energy physics research opportunities awaiting students from backgrounds that include physics, mathematics, engineering, computer science, and arts. For details and status of the experiment: http://dunescience.org

Session and Location:
Session 1 9:45 - 10:30 a.m.  Student Services Bldg Rm 223
Session 2 2:30 - 3:15 p.m.  Student Services Bldg Rm 223
Making the Transition: Getting Involved in Undergraduate Research as a Transfer Student
Parker Berger, Kirsten Christensen, Jeffrey Edelstein, Josalyn Foster, Melissa Newsome, Nicole Macmillan, & Briana Whitehead. Facilitated By Kate Hayworth, Florida State University

Topic and Intended Audience: Students who will be transferring to 4-year institutions and those who advise/work with this student population.

As a transfer student, it can be difficult to figure out how to get involved with undergraduate research (UR) at your new institution while trying to get used to a new campus, new procedures, and new professors. Yet, if you wait too long, you might miss out on crucial deadlines for a range of opportunities, like honors theses, research funding, and national fellowships. In this workshop, we will discuss the unique benefits and challenges of engaging with UR as a transfer student; most importantly, you will hear the perspectives of recent transfer students at Florida State University who transferred from institutions around the state, as well as several students who serve as peer advisors to help transfer students engage in the UR ecosystem. This workshop will be useful regardless of institution to which you plan to transfer and you will leave with tips to help facilitate your own successful transition.

Session and Location:
Session 1 9:45 - 10:30 a.m.  Student Services Rm 223
Session 2 2:30 - 3:15 p.m.  Student Services Rm 223

Competitive STEM Scholarships: Tips on Surviving and Succeeding in the Application Process for NSF-GRFP, DOD-NDSEG, the Goldwater, and More!
Lauren McCarthy, Rice University

Topic and Intended Audience: Competitive STEM Scholarships Application Strategies, intended for college Sophomores and Juniors

Securing your own funding as a graduate student through prestigious scholarships enables you to have a great range of freedom in your studies. However, the application process for these awards can be quite grueling, necessitating careful planning to ensure success. This workshop will outline a general application strategy and timeline for students applying for these prestigious fellowships. The bulk of the talk will focus on the National Science Foundation - Graduate Research Fellowship Program (NSF-GRFP) with remaining time spent discussing the Goldwater Scholarship (an undergraduate scholarship) and the Department of Defense – National Defense Science and Engineering Graduate Fellowship (DoD-NDSEG). Additional brief discussion will be given to the Hertz, Ford, and Frost scholarships. With a sound strategy in place, your application is more likely to be successful and your studies will be greatly enriched!

Session and Location:
Session 1 9:45 - 10:30 a.m.  House Chambers
Session 2 2:30 - 3:15 p.m.  House Chambers
Session I 8:30 - 9:30 a.m. Grand Palm Room

1. Bi-cultural Narrative Identity Among Hispanic Emerging Adults
   Widaad Zaman, Karena Louis, Karen Marin and Sarai Cruz
   University of Central Florida

2. Changes in autonomic nervous system functioning associated with compassion meditation among veterans with post-traumatic stress disorder
   Michelle Aiello and Ariel Lang,
   University of California San Diego, University of Central Florida

3. Methionine Sulfoxide Reductase Expression in response to anoxic stress conditions in D. melanogaster
   Evgeniya Rakitina and David Binninger, Ph.D.
   Florida Atlantic University

4. A holistic assessment of energy production: environmental, economic, and social impacts of hydraulic fracturing in Williams County, North Dakota
   Jessica Jagdeo, Arvind Ravikumar, Emily Grubert and Adam Brandt, Stanford University, University of Florida

5. Beyond the ABCs: A Vocabulary Intervention Plan for a Bilingual Child with Hearing Loss
   Stephanie Raymond and Dr. Kyna Betancourt
   University of South Florida

6. Rock Climbing as a Religious Phenomenon: An Application of Ninian Smart’s Dimensions of Religion
   Chelsea Probus and Dr. D. Gregory Sapp
   Stetson University

7. Biomimetic Design of Adaptive Building Membranes in Florida
   Maria Laura Arboleda and Kristin Nelson
   University of Florida

8. The Effectiveness of Nonpharmacological Pain Reduction Methods in Preterm Infants
   Emma Hensley and Toni Francis
   Florida Atlantic University

   Angelica Ares, Dr. Thomas Bianchi and Xiaowen Zhang
   University of Florida

10. An Examination of the Factors that Contribute to the Formation of Exclaves
    Justin Franco and Gretchen Scharnagl
    Florida International University

11. Consumer Confidence: The Role of Language among Hispanics
    Sandra Castro, Damion Hall, and Ticiano Menezes
    Florida Atlantic University

    Sevan McBride
    Eastern Florida State College

13. Isolation of natural products from multiple Antarctic marine coral species for application to drug discovery
    Dakota Becker-Greene, Anne-Claire D. Limon and Bill J. Baker
    University of South Florida

14. Utility of the gyrA gene for detection and analysis of Wolbachia endosymbionts in Dirofilaria immitis and various Culicine mosquitoes.
    Laura Alfonso, Haley Bauer, Sean Dixon, Andrew White, Lance Wood, Jennifer Bess and John Whitlock
    Hillsborough Community College

15. Approaches to Managing Catastrophic Risks - An International Comparison of Public/Private Sector Roles
    Taylor Deacon and Patricia Born
    Florida State University

16. Diet and Temporal Partitioning by the Common Octopus and the Atlantic Longarm Octopus in a South Florida Habitat
    Danielle Bartz, Chelsea Bennice and W. Randy Brooks, Ph.D.
    Florida Atlantic University

17. An Assistant to Firefighting: Drone Design
    Nicole Buczkowski, Christian Carter, Harrison Clark, Kyle Crews, Michelle Espinal, Julie Summers, Dr. Emre Selvi and Dr. Burchan Aydin
    Jacksonville University

18. Protecting Civilians and Public Service Personnel through an Early Identification System for Airborne Chemicals: SEIAC
    Hannah Herbst
    Florida Atlantic University

19. TILMAP-An Automated Instrument to Measure Tumor Infiltration of Lymphocytes in Cancer Tumors
    Devin Willis
    Florida Atlantic University

20. The Role of the Hippocampus and Orbitofrontal Cortex in Dynamic Decision-Making
    Huzaifa Wasanwala, Jack-Morgan Mizell, Deandra Chetram, Margaret Ann Kreher, Rukmini-Sara Sosa-Garcia, Sarah A Johnson, Sara N. Burke and Andrew P. Maurer
    University of Florida

21. It’s Written All Over Your Face: The Influence of Men’s Facial Hair on Perceptions of Professionalism and Competence
    Jeremy D. Bodiford, David Hall, Dr. Randall M. Croom and Dr. Kelly R. Hall
    Stetson University

22. Temporal Trends and Potential Effects of Mercury Exposure in Florida Panthers (Puma concolor coryi)
    Jami Mercer and Dr. Darren Rumbold
    Florida Gulf Coast University

23. Identification of Novel Growth Regulators in Plant Populations Expressing Small, Cyclical, Random Mini-Peptides
    Kiona Elliott, Dr. Zhilong Bao, Maureen Clancy, Dr. Raquel F. Carvalho and Dr. Kevin M. Folta
    University of Florida

24. Tuning luminescence in lanthanide coordination polymers through dilution of emissive centers
    Kelly L. Rue, Heather A. Ten Hoeve, Jeffrey D. Einkauf and Daniel T. de Lill
    Florida Atlantic University
25. Culture-Independent Characterization of Rhizosphere Bacteria and Fungi in Asymptomatic and HLB-Symptomatic Grapefruit Trees
Clara Guillem and Steve Denison, Ph.D.
Eckerd College

26. The Konnarock Laminae
Dinah Hunsicker
Valencia College

27. Over-Due Process: Federalism, Selective Incorporation, and the Warren Court
Sarah Warren and Daniel Maier-Katkin
Florida State University

28. Does Distance Matter? : Predictors of Infidelity and Jealousy in Geographically Close versus Long Distance Romantic Relationships
Shirley Dorsainvil and Grace White, Ph.D.
University of Central Florida

29. The Recent Evolution of 3-D Printing in Regards to Ancient Artifacts
Kristina Hopf and Dr. de Grummond
Florida State University

30. Institutional Persistence: Colonial Legacies and Corruption Joan Joseph
Florida State University

31. Morphological differences found in Batrachochytrium dendrobatidis (Bd) strains from California and Panama
Caitlin Nordheim, Stanley Rice and Taegan A. McMahon
University of Tampa

32. Song as an aggressive signal in the Bachman’s sparrow
Sabah Ali and Rindy Anderson
Florida Atlantic University

33. Laminar profile underlying the propagation of CSD: from single neurons to population activity Daniel E. Rivera, Darlene Ramos, Sarahy Garcia, Yisel Frometa, Dr. Jorge Riera, Florida International University
Dr. Yoichiro Mori, University of Minnesota Twin Cities

34. Kleptochecy as a potential defense mechanism in the sacoglossan sea slug
Elysia Clarki Mary Grace Duethman, Kristen Ewen and Michael Middlebrooks
University of Tampa

35. Evaluating Red Oak Growth Patterns across a Disturbance Gradient Melinda Paduani, Dr. David Orwig, Dr. Neil Pederson and Daniel Bishop, Harvard Forest, Petersham, MA
University of Central Florida

36. An analysis of rhetoric surrounding world leaders in online news media
Mae Espinosa, Allison Lang and Tatum Shannon
Florida State University

37. Rectus Femoris Echo Intensity Correlates with Muscle Strength, but not Endurance, in Younger and Older Men
Adam M. Burton, Matt S. Stock, Ph.D, University of Central Florida and Jacob A. Mota, University of North Carolina, Chapel Hill

38. Individual differences in emotion-cognition interaction: Effect of serotonin transporter genotype on positive and negative emotional distractor suppression
Roxanna Flores and Melanie Stollstorff, Ph.D.
Florida International University

Nichole A. Laggan, Sarah E. Cuccinello and Taegan A. McMahon
University of Tampa

40. Aerojet Strips for the Next Generation of X-ray Polarimeter Detectors
Rafael G. Almonte Jr., University of Florida and Joanne E. Hill-Kittle, NASA Goddard Space Flight Center

41. A Sound Mind: Binaural Beats as an Antecedent of Performance on Cognitive Tasks and Psychological Well-Being
David Hall, Randall Croom, Kelly Hall and Jeremy Bodiford
Stetson University

42. Influence of cGMP-dependent protein kinase in the time to recovery from an induced electroconvulsive seizure in D. melanogaster.
Leonor E. Miranda, Dr. Ken Dawson-Scully and Monica Risley
Florida Atlantic University

43. Pilot Study Evaluating Knowledge Acquisition of an Oral Health Presentation in a Palm Beach Elementary School.
David R. Casto, Jackson P. Casto, Florida Atlantic University, Grant T. Casto, University of Florida, and Richard J. Crout, Ph.D., DMD, West Virginia University

44. Protocol for Whole Surface Detection of Bacterial Biofilms on Explanted Orthopedic Hardware
A. Della Porta, D. Gibson, QP. Yang, D. Steigleman, M. Flores, L. Cowan and G. Schultz
University of Florida

45. The influence of a serotonin 2A receptor gene (HTR2A) on stress responsivity.
Akshay Naraine and Jaime L. Tartar
Nova Southeastern University

46. Unavoidable Connections
Taylor Emmons, Dr. Esra Akin-Kivanc, Lisa Piazza, M.A. and Dr. Amy Rust
University of South Florida

47. A Comparison of Child Sex Trafficking Laws to Rates of Child Sex Trafficking in Selected Countries
Vanessa Fernandez and Dr. Suzanna Smith
University of Florida

48. Behavioral Resistance to Batrachochytrium dendrobatidis
Megan Hill and Dr. Taegan McMahon
University of Tampa
49. The Implementation of Set-Based Concurrent Engineering in Future All-Electric US Navy Ships
Matthew Israel and Dr. Ruturaj Soman
Florida State University

50. Determining the Role of MKNK1 in Ret-dependent Cancer Growth
Matthew Murray, Florida State University, Masahiro Sonoshita and Ross Cagan, Icahn School of Medicine Mount Sinai, New York.

51. Analysis of a mutant paramyxovirus as a vector for tumor-specific cell killing
Dr. Griffith Parks, Ariella Saslafsky and Candace Newcome
University of Central Florida

52. Sleep Deprivation Results in Increased Expression of Cancer-Related miRNA in Humans
Ezana Assefa, Xavier Tatin, Aurelien Tartar and Jamie L. Tartar
Nova Southeastern University

53. Development of a Laser-Based Water Level Sensor for Fine-Scale Ecohydrological Measurements
Joshua Benjamin and Dr. David Kaplan
University of Florida

54. Optogenetic Control of Grooming in Drosophila Melanogaster
Eamonn Byrnes, Florida Atlantic University, Seth Tomch, Lanikea King, The Scripps Research Institute

55. Body Morphology and Community Structure of Tampa Bay Fishes
Alex Famigletti, Daniel Huber and Haley Amplo
University of Tampa

56. Compassion Fatigue: An in-depth look at secondary traumatic stress syndrome in veterinary support staff.
Wendy Jureski and Anne Pfister
University of North Florida

57. The role of Dgt4 in the neural stem cells with or without the centrosome
Wajiha M. Khalid, Yiming Zheng, Barbara A. Dietrick and Timothy L. Megraw
Florida State University

58. The Psychological and Physiological Implications of Sleep Restriction: A Comparison of Voluntary and Experimental Sleep Restriction Groups
Sri Moturu, Kevin Douglas, Kaylin Huhtsing, Ana I. Fins and Jaime L. Tartar
Nova Southeastern University

59. Bridging The Gap: The Art of Creativity
Frank Nunez and Dr. Diane Donnelly
University of South Florida

60. Antimicrobial Activity of Tropical Spice Extracts Against Issatchenkia orientalis and Escherichia coli O157:H7
E. B. Olasoji, I. M. Ogunade, D. H. Kim and A. T. Adesogan
University of Florida

61. Methamphetamine Regulation of Dopamine Transporter
Sean Olson, Jessica Marz, Danielle Sambo, Kaustuv Saha and Habibeh Khosbouei
University of Florida

62. Modulating Fear Extinction via the Small Conductance Calcium-Activated Potassium Channels
Danielle Riboul, Joan Lora M.S. and Dr. Robert W. Stackman Jr.
Florida Atlantic University

63. Nonprofit Mission Conceptions
Leah Singleton, Dr. David Berlan, Dr. Portia Dinoso Campos and Sungdae Lim
Florida State University

64. Political Orientations and Music Preferences among College Aged Adults
Omari Stringer and Chrysalis Wright
University of Central Florida

65. Individual Differences of Directed Forgetting
Griselda Alavez and Valerie Sims
University of Central Florida

66. Interval Graphs Resulting from Removal and Addition of a Vertex in a Food Web
Angela Angeleska and Valeriya Bowen
University of Tampa

67. Differential extraction of caffeine using various analytical techniques in a forensic chemistry laboratory.
Jenna Cote, Loora Hilbert and Dr. Sulekha Coticone
Florida Gulf Coast University

68. Creating a Safe Space for the Celebration of Diversity through Key Chain Creations
Gabriella Alqueza, Kalani David, Caitlyn Burns and Britney Carter
University of North Florida

69. Nocturnal Activity Patterns of Gopherus polyphemus in South Florida
Laura De Souza, Krystal Petrone, Jessica Huffman and Evelyn Frazier, Ph.D.
Florida Atlantic University

70. Cross Population Comparisons of Hair Color Choice
D. Delvescovo, J. Wortham and A. Miller
University of Tampa

71. Feasibility of At-home Sleep Timing Manipulation for School-aged Children
Rachel S. Fisher, Kendra N. Kriestch and David M. Janicke
University of Florida

72. Nurse2Nurse Education Connection: The Next Chapter
Sabrina Gadala-Maria, Madison Beeler, Gabrielle Crevier, Jenna Gallas and Dr. Karen S. Reed, MSN, RN
University of Florida

73. The Impact of Arthritis on the Health-Related Quality of Life in Individuals at the University of Central Florida
Ryan Garwood and Suha Saleh, Ph.D., M.T.
University of Central Florida
Session II 10:45 - 11:45 a.m. Grand Palm Room

   Macie Thornhill, Tiffany Marrero, Asal Johnson, Ph.D., MPH
   Stetson University

2. Drug Therapies Against Cholera Toxin May Work with Cellular Recovery Mechanisms to Reverse the Effects of Cholera
   Kaitlyn Tutt and Kenneth Teter
   University of Central Florida

3. 3D Printing of Archaeological Artifacts for the Visually Disabled and to Enhance the Classroom Experience
   Gabriella Viscito, Nancy De Grummond and Tatum Shannon
   Florida State University

4. Forensic application of high field NMR in the detection of imidazole isomers for drug detection
   Nataly Abrams and Dr. Sulekha Coticone
   Florida Gulf Coast University

5. Designing Drug-like Compounds That Target MicroRNAs
   Tevin Ali, Palm Beach State College, Jessica Childs Disney, Ph.D, and Dr. Matthew David Disney, The Scripps Research Institute

6. Does Parent Spatial Ability Predict Child Spatial Ability?
   Daniela Alvarez, Albany Gonzalez, Carla Abad and Shannon Pruden
   Florida International University

7. Evaluation of a Child Abuse Prevention Program
   Talia Ashby, Ashley Jensen and Dr. Norma Winston
   University of Tampa

8. The Equality Generation: A Look At Millennial Attitudes Toward The Current Transgender Movement
   Kirsten Atkinson
   University of North Florida

9. Direct Fabrication of Multi-Scale Metallic Surfaces on Flexible Substrates through Substrate Stretching for Biofilm Inhibiting Surface Coatings
   Jisun Ban, Casey McKinney, Matthew Davies, Amy Lane and Stephen Stagon
   University of North Florida

10. Bisulfite DNA Sequencing Analyses to Detect Methylation Patterns in the p73 Gene Promoter in Prostate Cancer Cell Lines
    Nicholas Braganca, Johannes Schabort, L. Michael Carastro, University of Tampa, Jong Y. Park, H. Lee Moffitt Cancer Center & Research Institute
    University of Tampa

11. The Effect of Video Gaming with a Brain-Computer Interface on Mood and Stress
    Francisco Javier Carrera Arias and Jaime L. Tartar, Ph.D.
    Nova Southeastern University

12. Mapping Nazi History: Charting Current Controversies about Hitler’s Regime through Digital Media
    Nathan Stoltzfus, Ph.D., Michela Sieman, Shelby Young and Eliza Chase
    Florida State University
13. Simulation: A strategy to increase recognition of pediatric sepsis
Caroline Chu and Desiree A Diaz, PhD, RN-BC, CNE, CHSE-A
University of Central Florida

14. Finding Planets in K2: A New Method of Cleaning Data
Miles Currie Florida State University, SETI Institute, NASA Ames Research Center, Fergal Mullally and Susan Thompson, SETI Institute, NASA Ames Research Center

Anthony Curtis, Isabel Rivera, Nathan Lastra, Timothy Cox, and Maria Womack
University of South Florida

16. Active Transportation and C-Reactive Protein in U.S. Adults
N.F. Diaz and M.R. Richardson
University of North Florida

17. Eicosanoids effects on human macrophages infected with Salmonella enterica Typhimurium
Mohamed Elbashir and Mariola Edelmann
University of Florida

18. The Effects of Bilingualism on Cognitive Development
Rojeen Falasiri
University of Central Florida

19. Sex Differences in the Effects of Acute Exposure to Cannabis Smoke on Working Memory
Shandera N. Ferguson, Shelby L. Blaes, Caitlin A. Orsini, Shannon C. Wall, Sara Heshmati, Marcelo Febo, Adriaan W. Bruijnzeel and Barry Setlow
Bethune-Cookman University

20. Expression and Optimization of Recombinant Human Galectin-1 for Binding Studies as a Potential Target for Cancer Therapy
Camelia Garcia, Maria C. Rodriguez, Forrest Fitzgerald, Yaima Rivero and Mare Cudic
Florida Atlantic University

21. Evaluation of Two Stigma Modification Efforts in Reducing the Stigma of Suicide
Julia Y. Gorday, Megan L. Rogers, Thomas E. Joiner, Ph.D.
Florida State University

22. Novel Geotextile Mat Tailored to Reduced Odor Emission (H2S) from Landfills
Rachel (Yen Jung) Liu, Morgan Hull, Regina Rodriguez and Dr. David Mazycz
University of Florida

23. 20th Century Tall Tale Postcards and the Myth of Abundance in the United States:
Abigail Sophia Irwin and Dr. Michael Neal
Florida State University

24. The Effects of Trait Mindfulness on False Memory for Emotional Word Lists
Lindsey Johnson and Dr. Travis W. Conradt
Florida Institute of Technology

25. Evaluating the effects of Assistant Teaching Peer (ATP) Mentors on the passing rates in Gatekeeper courses.
Tristen Johnson, Danyell Wilson, Ph.D., C. Ainsley Davis, Ph. D, Elizabeth Congdon, Ph.D., Alexis Brooks-Walters, Ph.D, Anthony Owens, Dominique Barrs, Shanequa Davis and Herbert W. Thompson, Ph.D.
Bethune-Cookman University

26. Depression and Obesity found in a Middle School Sample of African American Girls
Demi Jones, Dawn Witherspoon, Ph.D. and Maureen Black, Ph.D.
University of North Florida

27. Comparative study using tag free and affinity tagged Anabaena Sensory Rhodopsin Transducer [ASRT] to elucidate oligomeric stability and ligand binding
Tashmay Jones, Stephon Hercules and Vishwa Trivedi
Bethune-Cookman University

28. Functional analysis of an Arg4Ser variant in gastrin-releasing peptide that is associated with BMI in Pima Indians and Caucasians
Alexander Jordan, Bethune-Cookman University, Michael Taurig and Leslie J. Baier, Diabetes Molecular Genetics Section, Phoenix Epidemiological and Clinical Research Branch, NIDDK/NIH
Bethune-Cookman University

29. Utilization of University Student Health Services by Asian International Students
Jenny Joseph, Kalli Mullen, Katya Tsangarakis, Natalie-Marie Pena, Alicia Cliezar and Dr. Karen Reed
University of Florida

30. The Endurance of the Amazonian Woman in the Byzantine Epic
Shaimaa Khanam, Simon Prado and Dr. Robert Romanchuk
Florida State University

31. Controlling Light with Spatially Variant Photonic Crystals and Waveguide Structures
Nicholas Kosan, Rashi Sharma, Jennifer Digaum, Dr. Stephen Kuebler, University of Central Florida and Dr. Raymond Rumpf, University of Texas at El Paso

32. How do early storybooks support language learning?
Harlee Onovbia, Molly Kegley and Dr. Arielle Borovsky
Florida State University

33. Project Courier: A Drone Delivery Network System for College Campuses and Beyond
Gregory Diehl, Andy Kurili and Dr. John Robbins
Embry Riddle Aeronautical University

34. Artificial sugar substitutes have greater attenuating effects on Akkermansia muciniphila growth and metabolic activity when compared to natural sugar substitutes.
Lester S. Manly, David T. Ha and Charles B. Coughlin
University of North Florida

35. Sex Differences in Situational Characteristics
Dylan Marsh, Jamie Z. Ramos and Ryne A. Sherman, Ph.D.
Florida Atlantic University

36. The Making of Men: Developing Masculinity Through the Conduct Process
Chase Breeden and Kendall McDonald
Florida State University
37. Direct Fabrication of Multi-Scale Metallic Surfaces on Flexible Substrates through Substrate Stretching for Biofilm Inhibiting Surface Coatings  
Casey McKinney, Jisun Ban, Matthew Davies, Amy Lane and Stephen Stagon  
University of North Florida

38. Laterality in an arthropod: the fruit fly Drosophila melanogaster  
Lilyveth Mesa, Angela Duff, Anastasia Zharova, Beatriz Alvarez, Demarkis Dormer, Naomi Garcia, Jeremiah Paul, Kyle McHugh, Isaias Trujillo, Toriean Gordon, Tyler Bonner, Keret Watts, Farah Calvaire, Isabella Duarte, Anthony Jackson and Michael Robinson  
Barry University

39. Motivation and Diversity: What drives interest in a natural resources career?  
Bianca Moreno, Martha Monroe and Alison Adams, University of Florida and Yu-Chi Tseng, National Taiwan Normal University

40. Non-Linguistic Executive Function: Do Bilinguals Outperform Monolinguals?  
Morgan Musgrove, Stephanie Hernandez, Trixie Berthin and Mercedes Fernandez, Ph.D.  
Nova Southeastern University

41. QUASAR: An Experimental Test Bed for Autonomous Multi-Agent Control  
Eric Padilla and William MacKunis  
Embry Riddle Aeronautical University

42. Comparative analysis of the colors of the caudal spines of surgeonfishes (Acanthuridae)  
Eva Paulus and Michael P. Robinson  
Barry University

43. Active vs Rest State: Is object memory encoding, consolidation, and retrieval affected by biological clock?  
Elishama Petion, David Cinalli, M.A, Sarah Cohen, Ph.D., and Robert W. Stackman, Ph.D.  
Florida Atlantic University

44. Heterologous Expression of a Biosynthetic Gene Cluster from Streptomyces scabies  
Magan Powell, Guangde Jiang, and Yousong Ding  
University of Florida

45. Sensitization or habituation? Some effects of personal experiences on perceptions of child abuse  
Crystal Rickman, Khushbu Patel, LouAnne Hawkins and Christopher Leone  
University of North Florida

46. Presence of Staphylococcus aureus and MRSA in the Hillsborough River  
Zachery Rivera, Kimberly Grasset, Bridgette Froeschke, Ph.D. and Ann Williams, Ph.D.  
University of Tampa

47. False Feedback about Physical Fitness Improves Dot- Probe Performance Irrespective of Affective Content  
Alexandra Rodriguez, Bradley Fawver, Taylor Buchanan and Christopher Janelle  
University of Florida

48. Iron Abundances of Stars in the Open Cluster NGC 752  
Omar Rodriguez and Simon Schuler  
University of Tampa

49. Mitochondrial bioenergetics and expression profiling in rats depaminergic cells following exposure to the pesticide dieldrin  
Anna Rushin, Jonna Boyd, Jordan T. Schmidt, and Christopher J. Martyniuk  
University of Florida

50. The Role of Stereotypes in Language and Decision-Making  
Samantha Shepard  
University of Central Florida

51. The search for novel antibacterial targets against Pseudomonas aeruginosaa using toxic proteins from bacteriophages  
Sarah Sherman, Jeroen De Smet and Rob Lavigne, Katholieke Universiteit Leuven, Leuven, Flanders, Belgium  
University of Florida

52. Investigating a Low-Cost Alternative Raman Spectrometer for Use in an Instrumentation Course  
Yiro Shimabukuro, Evonne Rezler, Andrew Terentis, and Jerome E. Haky  
Florida Atlantic University

53. VRvisu: A Tool for Virtual Reality-based Visualization of Medical Datasets  
Jason Smith and Sandeep Reddivari  
University of North Florida

54. Communicating the Effects of Noise at Work through Wikipedia  
Rafaela Sousa, Florida State University, Thais Morata, Ph.D., and James Hare, Centers for Disease Control and Prevention/National Institute for Occupational Safety and Health

55. An Investigation of Mutation Frequencies in Eukaryotic Cell Lines for Diagnoses of Genetic Diseases  
Natalie Abad, Austinah Pedian, Isabella Tripolli, Dr. Hsin-Hsiung Haung, Dr. Emily Bradshaw and Dr. Alicia L. Hawthorne  
University of Central Florida

56. Learning Disability Recommendations Differ for Asian American and White American Students  
Jiaxin Jessie Wang, Liz Redford and Kate A. Ratliff  
University of Florida

57. Novel Centrosomin Genetic Mutation Disrupts Centrosome Assembly through Microtubule Organizing Centers  
Briana Whitehead, Timothy Megraw and Rebecca Buchwalter  
Florida State University

58. Temporal Changes and Metabolomic Profiling of Coffee Using Untargeted LCMS  
Aliya Adams and Dr. Sidney Bolden  
Bethune-Cookman University

59. How does clutch count affect the hatch success of loggerhead sea turtles?  
Yaza Alfonseca, Leah Coleman, Alexandra Loloar, Kirt Rusenko, Ph.D., Jeanette Wyneken, Ph.D  
Florida Atlantic University
60. It’s A Fish! It’s A Plane! No, It’s A Hammerhead!
Haley Amplo, Dan Huber, The University of Tampa, Kyle Mara, University of Southern Indiana, Jonathan Ford and Summer Decker, University of South Florida

61. Building Data from the Ground Up: Baseline Data Methodology and Participatory GIS in Hopkins, Belize.
Amanda Ashby, Lain Graham, Nicholas Altizer, Dr. Timothy Hawthorne, Jasmine Perez, University of Miami, Sarah Kuo, Jake Wade SUNY Geneseo, Dr. Christy Visaggi, Christine M University of Central Florida, University of the Pacific, Georgia State University

62. Adressing the School-To-Prison Pipeline at a School-Based Level Through Intervention Programs
Savannah Bayer, Natalie Leedy and Aaron Leedy University of North Florida

63. Threat and Reaction Time: A Measure of Post-Error Slowing in Anxious Children using the Flanker Task
Laura B. Camafreita, Michele Bechor and Jeremy Pettit Florida International University

64. Social Assimilation of Hispanics in the United States
Laura D. Gomez, Esteban Cardenas, Jonathan M. Green, Monica Escaleras and Eric Levy Florida Atlantic University

65. STEAM Programs Impact on the Education of Youths
Carmen Roberts and Jeff Skowronek University of Tampa

66. Millikan’s Oil-Drop Experiment: Understanding the Nature of the Electron Charge
Israël Castillo and Dr. Victor Bondzie Valencia College

67. Using Quantitative Analysis with Personal Meaning Maps
Julianne R. Chechanover and Kathryn A. Stofer University of Florida

68. Cloning of full length and c-terminal truncated anabaena sensory rhodopsin to outline the significance of cytoplasmic region in transducer interaction
Shanequa Davis, Sharita Ellison and Vishwa Trivedi Bethune-Cookman University

69. Creating a Smaller Synthetic Muscleblind-like 1 Protein
Ryan Day, Melissa Hale and Andy Berglund University of Florida

70. Flow through Elasmobranch Olfactory Organ
Ayse Demircan, Marianne Porter and Tricia Meredith Florida Atlantic University

71. A Hidden Threat: Survey of Microplastic Abundance and Distribution Around Glover’s Reef Atoll, Middle Caye, Belize
M. Dougherty, C. Clemmons, A. Carameros, S. Elberly, A. Harris, C. Harrel, H. Hayes, M. Meads, H. Smith, A. Zirkle, M. Minadie, Dr. L. Walters and Dr. P. Sacks University of Central Florida

72. Case studies on the impact of Google CS on engagement in computer and technology-related activities at two rural middle schools
Jeff A. Edelstein, Lucas von Hollem, Marcia A. Mardis, Ph.D. and Faye Jones, Ph.D. Florida State University

73. What the Kell? Unpacking the Origins of Ireland’s Greatest Treasure
Mya Frieze and Dr. Kyle Killian Florida State University

74. The Effects of Temporal and Spatial Factors on the Distribution of Staphylococcus aureus in the Hillsborough River
Kelly Fryar, Bridgette Froschke and Michael Middlebrooks University of Tampa

75. Producing Reporter Gene Constructs for Investigating the Role of G-Quadruplex (G4) DNA elements in Gene Regulation
Brianna D. Griffin and Hank W. Bass Florida State University

76. Exploring and Defining the Fake News Phenomenon
Abubakr Hassan and David Schwam-Baird University of North Florida

77. Genetic characterization of populations of the African jewelfish (Hemichromis letourneuxi) introduced to the waterways of Florida
Heather A. Muse, Paulina S. Banka, Caitlyn Berk, Ashley K. Clemens, Lorenzo A. Gayle, Brandon Saiz, Tejea Swanston, Vickiema Sydney, Emily J. Williams, Pamela Schofield and Natalia M. Belfiore University of Tampa

78. Self-Referential Cueing and Autobiographical Memory in Adults with Traumatic Brain Injury.
Marvin Hoo, University of Central Florida and Matthew Grilli, Ph.D., University of Arizona.

79. Electronic Healthcare Record Keeping: Implementing and Maintaining Efficiency
Daniel Sheppard and John Hughes Florida Gulf Coast University

80. Prestige and Dominance Motivation as Predictors of Self-Improvement versus Other Sabotage
Lamika Jackson, Norrelle Walker, Dominic Mercurio and Sarah E. Ainsworth University of North Florida

81. Changing Sex Roles and Positions of Power: Does Power Influence the Gender Differences in Romantic Jealousy?
Kristin Jennings, Mikaela Rizzo and Paul T. Fuglestad, Ph.D. University of North Florida

82. Spatial Ability in Dancers: “Is Dancing Good for Your Brain?”
Valerie Kessler and Valerie Sims, Ph.D. University of Central Florida83. Fillette, an Analysis of Louise Bourgeois' Controversial Art Piece
Corsha Inez Lake, Barbara Jolley University of South Florida
Session III  1:15 - 2:15 p.m. Grand Palm Room

1. How peripheral substitutions affect porphyrin basicity
   Alfredo Lam, Fady Guigati and Dr. Maria Ballester
   Nova Southeastern University

2. Attitudes Towards Cultured Meat; Exploring Methods of Increasing Appeal
   Kristopher Gasteratos, Ryne Sherman and Nicolas Brown
   Florida Atlantic University

3. Open Ocean Turbulence Characterization for Ocean Current Energy Applications
   R. A. Komocs and J. H. VanZwieten
   Florida Atlantic University

4. Assessing Genetic Differentiation to Infer Invasion History of
   Megabalanus coccopoma
   Brittany Lebert and Dr. Eric Hoffman
   University of Central Florida

5. HOTAIR: the Role of long non-coding RNA Regulation in Breast Cancer
   Sara Lohbauer, Talia Hammer, Brandon Ashley, and Dr. Lyndsay Rhodes, Ph.D.
   Florida Gulf Coast University

6. Issues with Industrial Specific ERP systems adoption
   Zachary McBride and Braydon Vaughan
   Florida Gulf Coast University

7. The Analysis of Carbon Biomass, Carbon Dioxide, and Survivorship of
   Tenebrio molitor Upon Digesting Polystyrene
   Tyler Gonzalez, Angela McTigue, Yvenord Mergillies, Rachel Pic and Catherine Wooster
   New College of Florida

8. Benefits of the Natural Assets Inventory of Arthropods on University of North Florida’s Sawmill Slough Preserve
   Shawna Melby, Anthony Rossi, James Taylor, Justin Lemmons and Charles Hubbuch
   University of North Florida

9. Daedalus Balloon
   Kerlin Michel
   Florida International University

10. Developing a Parser to Structure Free-Text Qualitative Eligibility Criteria in Clinical Trials
    Zhe He, Zhiwei Chen, Sarah Mixon, Florida State University, Juan Antonio Loss-Ventua and Jiang Bian,
    University of Florida

    Travis Moscicki and James VanZwieten
    Florida Atlantic University

12. Modeling Factors that Influence Stay or Evacuate Behaviors in Coastal Citizens During Hurricanes
    Katrina Ellis, Sharanya Narayan, Kinjal Chheda and Bailey Whitmore
    Florida Institute of Technology

13. From Nazism to Amnesty: Redeeming the German People in the eyes of the British Public
    Caroline Nickerson and Dr. Sheryl Kroen
    University of Florida

14. The Creation of Student Sustainability Initiatives to Reduce Food Waste
    Catherine Ninah and Debra Reinhart
    University of Central Florida

15. It’s Not Men or Women, It’s Balance
    Heidi Obediente
    University of Central Florida

16. A Multidisciplinary Cross-College Effort to Develop a Smart Home Health System
    Roxana M. Ohriniuc, Santiago Aguerrrevere, Bidwell Cranage, Demetrius Dukes, Ohm Trivedi, Dr. Ravi Shankar,
    Florida Atlantic University and Jason Bodnick, ARC Devices

    Carlota Oleaga, Andrea Lavado, Carlos Moran, Keisha Persaud and James Hickman
    University of Central Florida

18. TermMerge: Crowd-sourced word semantics
    Alastair Paragas and Nagarajan Prabhakar
    Florida International University

19. Grooming Behaviors of the Blue Crabs (Callinectes sapidus) & Stone Crabs (Menippe mercenaria)
    S. Pascual and J.L. Wortham
    University of Tampa

20. The Effects of Active Ingredients in Aerosol Sunscreen on Behavior in Drosophila Melangaster Larvae
    Nicholas Pizzo and Tricia L. Meredith
    Florida Atlantic University

21. Associations between Hormone Concentrations and Inflammation Biomarker Levels in Young and Older Adults
    Robert D. Rainer, Donovan M. Ellis, Harold A. Rocha, Ian R. Fraizer, Ronald A. Cohen and Natalie C. Ebner
    University of Florida

22. The Effect of Previous Economic Performance on Hispanic Voting at Future Presidential Elections
    Bryce Redmond, Onur Basman, Monica Escaleras and Eric Levy
    Florida Atlantic University

    Ricder Ricardo and Sheila Goloborotko
    University of North Florida

24. How Did I Get Here? Selective Activation of Head Direction Cells
    Jonathan Rivera, Joan C. Lora, M.S., Robert W. Stackman Jr., Ph.D.
    Florida Atlantic University

    Breeann Roberts, Dr. Heather Mason-Jones, Dr. Emily Rose and Jessica Elson
    University of Tampa
26. Who are we to judge? Assessing the impact of individual differences on false memory
   Anesia Rolle and Dr. Katrina Ellis
   Florida Institute of Technology

27. Effects of Intermittent Fasting and Glucose Consumption on V1 Neuroplasticity During the Emergence of a Perceptual Bias
   Adriana Sari, Andreas Keil, and students in the Fall 2016 course PSB4343C
   University of Florida

28. Control Over Functionality of Organosilanes in Conjunction of Surface Chemistry Techniques for Fabrication of More Advanced and Detailed Nanostructures
   Joel M. Serrano, Thomas J. Mullen and Corey P. Causey
   University of North Florida

29. Differential Discrimination of Adulterants in Saffron Using Laboratory Techniques
   Kelsey Sinclair and Sulekha Coticone
   Florida Gulf Coast University

30. The Development of Cancer Biology Training Curriculum for Community Health Workers based on a Systematic Review
   Tyrese Taylor, Kimbel Bradley, Nicole Offer and Danyell Wilson
   Bethune-Cookman University

31. On the role of electrostatic interaction in cytoplasmic domain of Anabaena Sensory Rhodopsin [ASR] binding to its transducer
   Renee Walker, Quincy Bedford and Vishwa Trivedi
   Bethune-Cookman University

32. Ethical Considerations In Research That Indirectly Addresses Suicide
   Kelsey Weeks, Shana Sands, Dawn Witherspoon, Ph.D. and Maureen Black, Ph.D.
   University of North Florida

33. The effect of environmental levels of Naled on the biomass of the eastern oyster, Crassostrea virginica
   Lucas Welch and Dr. Eric Johnson
   University of South Florida

34. Intraday Application of the Multifractal Model of Asset Returns
   Yidong Zhang and Mahendrarajah Nimalendran, Ph.D.
   University of Florida

35. Factors that Influence Upward Social Mobility of those in the Section 8 Housing Choice Voucher Program
   Jone Akins and Janis Prince, Ph.D.
   St. Leo University

36. Antimicrobial Properties of Moringa oleifera
   Brieanna Chanksingh and Ashley Spring Ph.D.
   Eastern Florida State College

37. Inhibiting the Division of Pathogenic Bacteria Using Iron-Binding Glycoproteins
   Mark Cherry, Troy Hart and Ashley Spring Ph.D.
   Eastern Florida State College

38. Investigating Protective Factors Against Suicide Attempts
   Kirsten Christensen, Melanie Hom, M.S., Ian Stanley, M.S. and Thomas Joiner, Ph.D.
   Florida State University

39. Effectiveness of Ovotransferrin and Sodium Bicarbonate in the Inhibition of Bacterial Growth
   Nicole Conde and Ashley Spring Ph.D.
   Eastern Florida State College

40. Sodium nitrite’s dose-dependent inhibitory effects on Bacilli Fragilis and Enterococcus faecalis
   David Ha and Charles Brian Coughlin M.S.
   University of North Florida

41. The effect on temporary inactivation of the nucleus reuniens using chemogenetic methods on spatial working memory.
   Kara J. Harris, Max E. Schreiber, Tatiana D. Viena, Stephanie B. Linley and Robert P. Vertes
   Florida Atlantic University

42. Determination of Luteolin and Apigenin Levels in Celery Leaves and Stalks
   Kai Lister, Mukul Kanaujia, Veronica Mai and Frederick Troendle
   University of North Florida

43. Assessing Bias in the International Court of Justice
   Dr. Marcus Meachum, Dr. Ryan Welch and Jaime Lopez
   Florida State University

44. Biometric Encryption Implemented on an FPGA for High Speed Security
   Michael Bourg and Pramod Govindan
   University of North Florida

45. Induced Evolution in Danio rerio
   Pierce Dillon, Rajesh Melaram and Ashley Spring Ph.D.
   Eastern Florida State College

46. A Histological Comparison of Ear Skin Regeneration in Acomys and Mus
   Aaron Sandoval, Malcolm Maden and Jason Orr Brant
   University of Florida

47. Very Easy Transmittance of Staphylococcus epidermidis through MediChoice Non-Sterile Isolation Gowns
   Abigail Schirmer, Renard Sessions, MD, Nikolaus Gravenstein, MD, Kenneth Rand, MD, Monika Oli, Ph.D. and Joshua Sappenfield, MD
   University of Florida

48. Prestige and Dominance Motivation as Predictors of Benign and Malicious Envy
   Norrelle Walker, Lamika Jackson, Dominic Mercurio and Sarah E. Ainsworth
   University of North Florida

49. The Effect of Protic Ionic Liquids on the Catalysis of Histidine to Trans-Urocanic Acid by Histidine Ammonia Lyase
   Charles H. Wallace, Kammie M. Conrad, Manuela Marin Salcedo, Michael D. King, Brandon Maier and Stephen T. Nestor
   Florida Gulf Coast University

50. The effects of intraspecific competition and parasitoidism on plant fitness of Bidens alba seeds
   Fernando P. Ritzinger and Brian Inouye
   Florida State University
51. The Furious Road to Ozploitation: Examining the Culture Stereotypes within Mad Max: Fury Road
Brandon Shepherd
Eastern Florida State College

52. Removal of Phosphate from Surface and Wastewater via Electrocoagulation
Jabari Lee, Daniel Franco, Sebastian Arbelaez and Jong-Yeop Kim, Ph.D., P.E
Florida Gulf Coast University

53. Queer Images: Portraits
Charles Pratt, Dr. Barclay Barrios and Sharon Hart
Florida Atlantic University

Vincent R. Ragusa and David Mathias
Florida Southern College

55. SEA Skimmer: The Development of a Sustainable Environmental Accumulation Skimmer Ordeo to Extract Marine Pollution from a Variety of Geographical Locations
Vithulan Suthakaran
Florida Atlantic University

56. “She Barred the Door of Her Bedroom Forever”: Amaranta’s Virginity in One Hundred Years of Solitude
Lynn Walsh and Dr. Grady Ballenger, Ph.D.
Stetson University

57. Dancing in the Dark: The Conflict of Romantic and Sentimental Ideas in the Internet Apocalypse Trilogy
Nykholias Quinones and Warren Jones
Eastern Florida State College

58. Investigation of Metal Concentrations in Lake Worth Lagoon
G. Garlaschi and T. Root
Florida Atlantic University

59. Smartphone Application for Land-Mobile-Radio Signal Identification
Tommy Owens and Brian Kopp
University of North Florida

60. Emotional and Political Resonance: Exploring Eligible Voter Perspectives in a Presidential Election Year
Dr. Doug Schrock, Haley Gentile, M.S., Pierce Dignam, Benjamin Dodd-Arrow, Kristen Erichsen, Alexander Adams, Ryan Bausback and Vanessa Frias
Florida State University

61. Developing an Image Recognition and Motor Control Algorithm for Controlling Pterois volitans’ Population in South Florida
Alexis Base
Florida Atlantic University

62. Cybersecurity on cloud computing
Mike Balazy and Krzysztof J. Krzyszczak
Florida Gulf Coast University

63. International Student Transitioning: Creating Technological Solutions to Aid International Undergraduate Students in the United States
Nayah Boucaud and Dr. Carole Beal
University of Florida
77. Shark Survey: Friend or Foe  
Makayla Magieli and Tricia Meredith  
Florida Atlantic University

78. Deliberate Deception and Changes in Vocal Frequencies  
Anna Marie Mainiero and Joshua D. Halonen, Ph.D.  
University of Tampa

79. Officer Involved Vehicle Collisions: The Problem, Observations, and Recommendations  
Jean-Paul Martes and Marshall A. Jones  
Florida Institute of Technology

80. Deforestation and Charcoal: A Case Study of Environmental Justice in Rural Tanzania  
Mary Meade  
Florida State University

81. Impact of Activated Carbon Functional Groups on Water-Phase Mercury Capture  
Estenia Ortiz, Regina Rodriguez and Dr. David Mazyck  
University of Florida

82. Explicating the Electricity of eSports: Motivations for Play and Consumption  
Luis Puesan, University of North Florida, Dr. Brown and Dr. Andrew Billings, University of Alabama

83. Southeast Florida Summer Beach Morphology  
Madeline Rubio and Tiffany Roberts-Briggs  
Florida Atlantic University

Session IV  3:30 - 4:30 p.m. Grand Palm Room

1. Computer Simulation of Gene Expression and Regulation in the Lac Operon  
Brandon Saiz and Stephen Kucera  
University of Tampa

2. Determining Physical and Ecological Factors Affecting Abundances of Juvenile Indicator Species  
Adam Searles and Dr. Geoff Cook  
University of Central Florida

3. Protein replacement therapy to treat neuronal structural defects caused by mutation of the autism risk gene Pten  
Vanessa Walters, Florida Atlantic University and Ori Cohen and Damon Page, Scripps Research Institute, FL

4. The Effect the per barrel price of West Texas Intermediate crude oil (WTI) has on annual U.S. Retail Sales  
Timothy N. Bohanon and Suzanne Wood  
Florida Gulf Coast University

5. Investigating Whether Religiosity Types are Predictive of Subjective Happiness and Life Satisfaction  
Christina DePietro and Travis Conradt, Ph.D.  
Florida Institute of Technology

Dominique Hale and Vishwa Trivedi  
Bethune-Cookman University

7. Pathological stress in zebrafish hearts using extreme hypoxia exposure  
Gabriela Hernandez, Fabio Frech, Johan Sanchez and Brenda Schoffstall  
Barry University

8. Conflict Recurrence in Rwanda and Burundi  
Kellan Ritter  
University of Central Florida

9. Spectral Tuning of Rhodopsins from Tampa Bay Fish  
Ciara J. Myer and Jeffry I. Fasick  
University of Tampa

10. A Parent’s Access to Information About Autism  
Sarah Stevens  
University of North Florida

11. Pelvic Floor Muscle Training in Management of Postpartum Pelvic Floor Dysfunctions: A Literature Review  
Rebecca S. Tanner and Carey Rothschild  
University of Central Florida

12. Are things getting better or worse? A race and power perspective on police brutality in America  
Jeanelle Angus and Vaughn Crichlow, Ph.D.  
Florida Atlantic University

13. Exploratory Assessment of Relationship between Masculinity and Substance Use in Young Adult and Adolescent Males  
Lovely A. Davilmar and Michael J. Rovito Ph.D., CHES, FMHI  
University of Central Florida

14. Detection of Hydrophobic Contaminants in Liquids by Using Impedance Measurements  
Roshanak Gonzalez and Jorge H. Torres, M.D., Ph.D.  
Florida Gulf Coast University

Brittani Janson, Ismode Lorjuste, Lindsay Summers and Dr. Laura Gunn  
Stetson University

16. Neurofibromatosis 1(NF1): Characterizing NF1 Germline mutations in NF1 patient Dr. Margaret Wallace and Dorie Josma  
University of Florida

17. Reducing Racial Bias Over Time Through Stereotype Training  
Kristan Palermo and Curtis Philp  
University of North Florida

18. Creating a Safe Space for the Celebration of Diversity through Key Chain Creations  
Gabriella Alqueza, Kalani David, Caitlin Burns, Brittney Carter and Carolyne Ali-Khan  
University of North Florida

19. Courtship Preference of Drosophila melanogaster and Drosophila simulans Hybrid Male  
Luis Andrade and Dr. Michelle Arbeiten  
Florida State University
20. Attitudes on Mobile Navigational Applications
Dylan T. Baxter, Dr. Mustapha Mouloua, Jesse Marika, Omari Stringer and Sasha Willis
University of Central Florida

21. The Impact of Medication on the Complaint of Nocturia in Female Patients
Constantinos Boufeas, Florida State College at Jacksonville, Ram Pathak, Ashley Shumate, Zhuo Li and Steven Petrou, Mayo Clinic, Jacksonville, FL

Brianna N. Johnson, Danyell S. Wilson and C. Ainsley Davis
Bethune-Cookman University

23. Examining Racial Bias in Subjective and Objective Assessments in Higher Education
Grace Chun and Dennis Kramer II, Ph.D.
University of Florida

24. Comparative Analysis of Success Factors for Waste Anaerobic Digestion Globally and Their Educational Potential for Engineering Institutions through Interdisciplinary Approaches
Christopher Cuevas, Christina Finizio, Mayuko Mizutani and Dr. Fazil Najafi
University of Florida

25. Problems and Implications Surrounding Police-Community Relations
Sloan Davidson
Florida State University

26. Error-Based Learning Modulated Differently Across the Lifespan
Rebecca Fleeman, Agostina Casamento-Moran, Yen-Ting Chen, MinHyuk Kwon, Emily J. Fox, Basma Yacobui and Evangelos A. Christophoulou
University of Florida

27. Everglades Education: Lessons From Life
Leandra Gonzalez, Peter Machonis and Devon Graham
Florida International University

28. Searching for Mental Health Information Online
Forrest Harrison, Annelyn Martinez, Melonie Maldonado, Travis White, Dr. Cynthia Gangi and Dr. Erica Yuen
University of Tampa

29. A Comparison of Mechanical and Electrical Wind-Powered Water Pumps for Use in the Developing World
Alexander Seifans, Anthony Oreo, Christopher Forte, Christopher Hays, Delaney Hancock, Fletcher Buckley, Parker Tyson, Paul Lepre, Thomas Schill and Zachary White
Embry Riddle Aeronautical University

30. The Beliefs Of Youth in Rural India
Angela Mann, Ph.D., BCBA, NCSP and Amulya Mandavalli
University of North Florida

31. Does Early Diagnosis of Reading Disorder Impact College Success?
Byllington Jean and Dr. Anthony F. Greene
University of Florida

32. Colorectal cancer screening intentions in two community settings: Is there a difference?
Bethune-Cookman University

33. Serving the homeless in Jacksonville: Organizational strengths and needs
Ashley Kushner and David R. Forde
University of North Florida

34. A Contemporary Analysis and Comparison of the Kurdish Nationalist Movement: Iraq
Grayson Lanza
University of Central Florida

35. Intersectionality in American Law
Nicole MacMillan and Dr. Matthew Day
Florida State University

36. Artful Stealing and Convergent Dodging: Analyzing Divergent and Convergent thinking in creative control, temp music, and Stealing Like an Artist
Abraham Mullican Eastern Florida State College

37. Collegiate Architecture: Histories, Heritage, and Values Imparted Through a Visual Landscape
Kelly Scandone and Dr. Lauren Weingarden
Florida State University

38. Picking a Star: The Power of Female Audiences in Early Cinema
Marissa Secades, Barbara Mennel, University of Florida and Waldo W. Neikirk
University of Freiburg

39. Pleiotropy and Modularity of Morphological Variation in Drosophila melanogaster
Dr. David Houle, Taylor Tischhauser and Caitlin Marquis
Florida State University

40. The Milky Way: Comparing the Effects of Breast Milk and Different Baby Formulas on the Growth of Neonate Gut Bacteria
V.S. Volante, M. Osmani and C.B. Coughlin
University of North Florida

41. Determining an Existing FDA-Approved Drug’s Ability to Inhibit the Growth of Colon and Pancreatic Cancer
Emily Warner, Christine Theodore and Jeffry I. Fasick
University of Tampa

42. Direct Metalization of Fused Deposition Method 3D Printed Acrylonitrile Butadiene Styrene Parts using Physical Vapor Deposition
Justin White, Christopher Tenore, Austin Pavich, Ryan Scherzer and Stephen Stagon
University of North Florida

43. Improving diabetes care through the identification of insulin pump leakages via adhesive bound color change.
John Wilcox, Celia Bonett and Igor Alabugin
Florida State University
44. Impact of Soil Microbes on Seed Viability and Germination of Native Grass and Forb Species Junhwi Yoo, New College of Florida, Taylor Rohan, Claudia Stein, Scott Mangan, Washington University St. Louis

45. Malicious Humorous Death: How the Edge of Tomorrow and ARQ Explore Death and Dying through Dark Comedy Thomas Foster Eastern Florida State College

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67. “Let me think on it”: An examination of mere thought, self-monitoring, belief consistency, and normative information. Yancy Zacherl, Lyndsey Johnson and Dr. Christopher Leone University of North Florida

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