



FURC 2014

Florida Undergraduate
Research Conference

Florida Undergraduate Research Conference

Friday, February 21
Saturday, February 22
Graham Center Ballrooms

Florida International University
Modesto A. Maidique Campus

FIU

FLORIDA
INTERNATIONAL
UNIVERSITY

FIU

**Honors
College**



Honors College

Welcome! The Honors College at Florida International University is privileged to host the 4th Annual Florida Undergraduate Research Conference – FURC 2014. With 26 institutions participating and over 35 representatives of top grad schools here to recruit our best and brightest, this promises to be the most successful FURC yet.

Please support these high-achieving scholars by spending some time perusing the posters and engaging their authors in some intellectual discourse. There's a lot to learn here for everyone. As a significant bonus, the conference gives our institutions a chance to work together as partners, not competitors, in a vital academic enterprise.

With some teamwork, this could become a growing trend that will help provide ever-better opportunities for Florida students. Finally, If you're not from this area, I hope you will have some time to explore Miami's rich cultural and entertainment offerings while you're in town. Thank you for joining us for this exciting event.

Lesley A. Northup
Dean
The Honors College
Florida International University



The Florida Undergraduate Research Conference (FURC) is an annual event open to all undergraduate researchers in the state of Florida to present their research in a poster forum. Every year the conference is hosted at a different university in the state on the last weekend in February. In addition to research presentations, there are also exhibitors from graduate programs and other opportunities targeted for students involved in undergraduate research.

Planning for this event occurs at the Florida Statewide Symposium each fall. The members of the FURC Planning Committee are Kimberly Schneider (University of Central Florida), Anne Donnelly (University of Florida), LouAnne Hawkins (University of North Florida), Eric Freundt (University of Tampa), Aaron Clevenger (Embry-Riddle Aeronautical University), and Juan Carlos Espinosa (Florida International University).

Friday

6:00 PM Registration opens at the Graham Center Ballrooms

7:00 PM Dinner will be served for conference participants who RSVP'd by the deadline

Saturday

7:30 AM Registration opens at the Graham Center Ballrooms

9:00 AM Sessions begin

12:00 PM Lunch

1:00 PM Sessions resume

3:00 PM Conference ends

The past and future Florida Undergraduate Research Conferences are as follows:

2011: University of North Florida, Jacksonville

2012: Stetson University, Deland

2013: University of Florida, Gainesville

2014: Florida International University, Miami

2015: Embry-Riddle Aeronautical University, Daytona Beach

2016: University of Tampa, Tampa

Registration and Dinner

Friday, February 21, 2014

Graham Center Ballroom Lobby

6:00 pm Registration

7:00 pm Dinner (by RSVP)

Introduction: Juan Carlos Espinosa

Welcome: Dean Lesley A. Northup (FIU Honors College)

Keynote Speaker: Dean Lakshmi N. Reddi (University Graduate School)



Dr. Lakshmi N. Reddi **Dean, University Graduate School**

Dr. Reddi has been with the Florida International University since July 2011. His prior academic appointments were at the University of Central Florida and Kansas State University. While at UCF, he led the Department of Civil, Environmental, and Construction Engineering (CECE) through a successful ABET visit, created a new accredited program in construction engineering (one of only seven in the country, and the only one in Florida), and developed a research focus strategy, which led to the approval of six (6) new faculty positions. CECE had a collective enrollment of about 1100 students, and maintained the highest extramural research funding expenditures per faculty in the college.

Dr. Reddi's academic career over the last twenty five years has been highly interdisciplinary; he has established fruitful collaborations with researchers from such diverse disciplines as Agronomy, Architecture, Biology, Chemistry and Chemical Engineering, Computer Science, Education, Humanities, Mechanical Engineering, and Medicine. He secured extramural funding to the tune of about 8 million dollars from sponsors at all levels – federal (NSF, NASA, FHWA, EPA), state agencies and regional centers, and local industries.

A strong proponent of interdisciplinary research involving engineering, sciences and humanities, and integrated research and education, Dr. Reddi authored/co-authored two textbooks on the interdisciplinary themes of geoenvironmental engineering and seepage in soils, edited/co-edited six books on other themes, and authored/co-authored numerous technical articles in journals and periodicals representing various interdisciplinary themes in engineering. Winner of the Engineering Research Excellence Award and two-time recipient of the James Robbins Teaching Award, Dr. Reddi is also a chapter honor member of Chi Epsilon, and Eminent Engineer of Tau Beta Pi. A Fellow of ASCE and AAAS, Dr. Reddi was conferred the title, "Distinguished Alumnus," by the Ohio State University's College of Engineering. Engineering Societies of Central Florida honored him with the Engineering Leadership Excellence Award in 2010.

Saturday Poster Session 1 - 9:00 am–10:00 am

1. *Quantitative and qualitative analysis of biofilm production in S. aureus*, Alice Nakasone, Barry University.
2. *Effects of plastic bag coverage on growth of seaweed and seagrass*, Erika Steele, Eastern Florida State College.
3. *An environment for prototyping molecular dynamics algorithms on the GPU in Python*, Jonathan Bryant & Trevor Cickovski, Eckerd College.
4. *Isolating and crystalizing the PF1129 Cmr2 permuted HD domain*, Joshua Hubert, Florida State University.
5. *Identifying unknown powders using three different analytical techniques in a forensic laboratory experiment*, Jennifer M. Passarello, Florida Gulf Coast University.
6. *Charged fusion product detector efficiency study*, Carlos Lopez, Florida International University.
7. *Placement tool for Calculus II & Calculus III: Determining if the ALEKS Exam is the better placement tool at FIU*, Alexandra Cuadra, Florida International University.
8. *High sensitivity extraction of substituted phenols from environmental water using Fabric Phase Sorptive Extraction (FPSE)*, Taimi Fernandez, Florida International University.
9. *The Female Voice: A look into the strength of feminine presence in literature and media*, Megan Demint and Tianna Mason, Florida State University.
10. *Bipedal Robots: What are the issues with dynamic bipedal movement?* Cash Willis, Murray State University.
11. *Sensation seeking behavior as a predictor of aggression and low physiological arousal under stress*, Jose Luis Martinez, Nova Southeastern University.
12. *Teens at the mall*, Alissa Marie Kelly, Saint Leo University.
13. *Kinesic cues: How to effectively simulate body language in a virtual environment*, Karla Badillo-Urquiola, University of Central Florida.
14. *Gauging factors of gameplay*, Nicholas T. James, University of Central Florida.
15. *Garbage on the Green: An annual waste audit to encourage waste reduction and increase campus sustainability*, Katherine M. Borello, University of North Florida.
16. *Facebook and you: Personality differences in social media uses*, Robert Moulder, University of North Florida.
17. *Psychopathological risk factors of substance use*, Joseph Stirling Hamilton, University of South Florida Sarasota-Manatee.
18. *Energy loss of heavy charged particles through matter*, Adrianna Angulo, Florida International University.
19. *Predictors of attitudes toward telemental health therapy*, Agustina Bertone, University of Florida.
20. *Using Photovoice as a reflection tool in a psychology service-learning course*, Alante Simpson, Barry University.
21. *Exposure to social media as a precursor for disordered eating among college students*, Alexandra Michelle Golik, Florida International University.
22. *Cerebellar contributions to language recovery following pre- or perinatal stroke*, Alexarae Byron, Florida International University.
23. *The effects of therapist anxiety and disgust sensitivity on exposure therapy implementation for the treatment of pediatric anxiety disorders*, Alyka Gloria Fernandez, University of Florida.
24. *Molecular modeling of the structure of histidine Ammonia-Lyase as a function of pH and temperature*, Brandon T. Cardon, Florida Gulf Coast University.
25. *Building a host competency database for Japanese Encephalitis virus*, Brooke Borgert, University of Florida.
26. *Portrait of the Irish-American artist as a Southerner: The invention of the Irish-American identity in the American South*, Caitland Conley, Florida State University. Florida State University.
27. *The evolution of modern medical thought: Lessons from the Renaissance*, Carlos M Crespo, Valencia College.
28. *Does cognitive vulnerability to sleep loss relate to mood response?* Carlos Puentes, University of Central Florida.
29. *Usability testing of new space technologies at a simulated Mars habitat*, Carolyn Newton, Embry Riddle Aeronautical University.
30. *The big five personality factors and college performance*, Casey White, University of Central Florida.
31. *Arbuscular mycorrhizal inoculum fungi growth effects on Laguncularia racemosa and Rhizophora mangle*, Charlotte Garfinkel, Eastern Florida State College.
32. *A self-compassionate attitude towards burden*, Cheyenne Meyer, University of North Florida.
33. *Guns, gender, and sex: An empirical examination of the "Feminist Peace"*, Christian Chessman, University of Florida.
34. *Visual investigation of ferrofluid bubble explode in water*, Christie Lluis, Oceane Boulais, and Max Torres, Florida Atlantic University.
35. *Attitudes towards Gay and Lesbian adoption*, Christine Kreutzer, University of Central Florida.
36. *Probing sequence and topological specificity in the binding of Tetra(Methylpyridyl) Porphins to DNAs*, Raul Castillo, Florida International University.
37. *How community violence exposure effects Haitian adolescents*, Adiva Bady, Barry University.
38. *Improving air quality using satellites: Research plan*, Colleen Baublitz, University of Florida.
39. *Different subcellular localization of a mutant form of Ankrdu is Associated with KBG Syndrome*, Ralph Valentin, Florida Memorial University.
40. *Competition for food: An analysis of the socio-economic factors race, income & poverty, and access to supermarkets in Jacksonville, Florida*, Keith M. Walters, Florida State College at Jacksonville.
41. *Is it about a bicycle? Evaluating The Troubles through Irish literature and narrative*, Kate Mazzotta, Florida State University.
42. *Social considerations of anxiety sensitivity*, Valentina Natalie Saracino, Florida State University.
43. *Exploring soil carbon stocks and historical land use practices in long-term plots at Harvard Forest*, Christine Joelle Pardo, Florida International University.
44. *Physiological characterization of mangrove rhizosphere bacteria*, Fernando Parajon, Miami Dade College.
45. *An exploration of the effect of media bias on individual jurors' predetermination of guilt*, Bryan Wylie, University of Central Florida.
46. *Phonoresponses of females of a moth with two-celled ears to different acoustic signals present in their natural environment*, Gretert Montano, Orlando Benavides, and Rosario Rodriguez, Miami-Dade College.
47. *Are leaders happier than others?* Philip Koenig & Raul Alvarez, Florida International University.
48. *A combination of two tropical spice compounds potentiates chemotherapy response in castration-resistant prostate cancer cells*, Taaha Amin Mendha, University of Miami.
49. *Longitudinal outer membrane porin transcriptional responses to increasing cephalothin concentrations in Klebsiella pneumoniae*, Nghi Bao Lam, University of North Florida.

50. *Epistemic justification*, Aaron Fortier, University of North Florida.
51. *En route towards cyclic peptides by cyclo-oligomerization of dipeptidyl benzotriazolides*, Sadra Hamedzadeh, University of Florida.
52. *Military commander, traitor, and Buddhist monk: Xincheng in the religious and political context Seventh-Century East Asia*, Kelly Marie Carlton, University of North Florida.
53. *On the boundedness or unboundedness of the ranks of elliptic curves*, John Joseph Vastola, University of Central Florida.
54. *Community policing: Is it working?* Johnson Jean, Florida Memorial University.
55. *Self-monitoring and relationship dissolution: Individual differences in dealing with the past*, Jordan Kessler, University of North Florida.
56. *Swarming coordination with artificial potential functions and gradient descent algorithm*, Justin Ruscoe, Florida Institute of Technology.
57. *Tripodal Pyridine-Based ligands for Gadolinium(III) Complexation: Implications for the design of High-Relaxivity MRI contrast agents*, Katherine R. Johnson, The University of Tampa.
58. *Married to the military: The challenges and experiences of military spouses*, Katie Thurwanger, Saint Leo University.
59. *Self-monitoring and relationship maintenance in marital/cohabitating versus romantic relationships*, Kayla Hanson, University of North Florida.
60. *Microgravity experiment on accretion in space environments*, Kelly Lai, University of Central Florida.
61. *The workforce acceptance and potential problems of working with adults who have Autism Spectrum Disorder*, Kimberly Lewison, University of North Florida.
62. *The Validity of United States Jury System*, Lisa-Gay Davis, Florida Memorial University.
63. *Comparison of relationship satisfaction of couples before and after relationship education workshop attendance and supplemental case management/supportive clinical services*, Luke Strawn, University of Central Florida.
64. *A report on the effects of embryonic Ethanol exposure on cardiac function*, Mandy Carper, Barry University.
65. *The role of Endothelin 3 in a melanoma growth and metastasis*, Manuel E. Borobia Sanchez, Florida International University.
66. *What's growing at Valencia? A DNA analysis of our Tracheophytes*, Marcela Arenas, Valencia College.
67. *Perceived gender role: A predictor of adult mental rotation abilities*, Marcela Ramos, Florida International University.
68. *An investigation of nondisjunction using the vertebrate model system Zebrafish*, Mariana Ruiz, Barry University.
69. *A body sensor network for real-time stress assessment*, Mason McGough, University of North Florida.
70. *Methamphetamine alters membrane localization of Dopamine Transporter*, Paran Davari, University of Florida.
71. *Purging participation: The impact of targeting "Suspected Non-Citizens" on voter turnout*, Bryce Freeman, University of Florida.
72. *Mandatory audit firm rotation and auditor independence*, Rachelle Gabrang, University of Florida.
73. *An examination of executive functioning Performance in an Adult Sample*, Adrian Paneto, University of Florida.
74. *Spectroscopic follow-up of sources in the XMM XXL southern field - cluster redshifts for constraining cosmology*, Felipe Ardila, University of Florida.
75. *U/Pb geochronology of detrital Zircons in Quartzites from the Sawtooth Metamorphic Complex, Idaho*, Chrissy Allen, University of Florida.
76. *Charge fusion product trajectory simulations*, Omar J. Leon, Florida International University.
77. *Ceramide incorporated nanodiscs: A model for understanding Ceramide-PKC ζ Lipid-Protein interactions*, Patricia Theard, Florida International University.
78. *Transcendence in social movements*, Rachel Jeannette Stevens, Florida International University.
79. *A pilot study of neurovascular decoupling in rats with Epilepsy*, Rafael Torres, Florida International University.
80. *Recombinant Leukemia inhibitory factor and basic fibroblast growth factor for self-renewal and differentiation of mouse pluripotent stem cells*, Sandra Bernaza, Florida International University.
81. *The evolution of the cyber victim: A cyberbully?* Sarah Terrazas, Florida International University.
82. *Ultraportable hand-held near-infrared optical scanner (NIROS) for breast imaging studies*, Suset Rodriguez, Florida International University.
83. *Everglades restoration: Economic bust or boom*, Virginia Dillon, Florida International University.
84. *Optogenetically induced Calcium signaling in astrocytes*, Anggie Janessa Ferrer, Florida International University .
85. *Development of gas-phase pre-separation tools for higher sensitivity in the molecular characterization of biodiesel mixtures*, Stephanie Alvarado, Florida International University.
86. *An in-depth study of the specificity determinants of the enzyme PafA*, Jamar Borland, University of Central Florida.
87. *Economic benefits of implementing nighttime setback control in campus buildings*, George Armaniou, University of Florida.
88. *Whitefly vector dietary conditions associated with the inoculation of foregut borne criniviruses*, Nicole Hope Lopez, Barry University.
89. *Are Shorter A β peptides protective?* Jason Martin, University of Florida.
90. *Distinct conformational transition patterns of Non-Coding 7SK snRNA and HIV TAR RNAs upon tat binding*, Vivian Wong, University of Florida.
91. *Creating and testing polymerase variants for increased fidelity of incorporation of a non-natural base pair*, Jennifer Elaine DeGraff, Ryan Shaw, University of Florida.
92. *Printing a portal to the microscopic world: A 3D printed device that enables cell phone capture of microscopic images*, Josue Gimbernaud, Valencia College.
93. *Neurobiology of narrative-level sentence comprehension*, Anna DeFeria, Florida International University.

Saturday Poster Session 2 - 11:00 am–12:00 pm

1. *Personalized medicine in effective breast cancer treatment via microarray technology*, Zhinous Hosseini, University of Florida.
2. *Biodegradable Magnesium alloys for use as biomedical devices*, Brandy Mobley, University of Florida.
3. *THI₄ homolog important for Thiamine biosynthesis in Halophilic Archaea*, Jennymar Rojas, University of Florida.
4. *College students, science identity and fear of science*, Marilyn Boamah, University of Florida.
5. *Metabolomic approach to profile tobacco-induced DNA damage*, William F Allen, University of Florida.
6. *Hoarding within the Fortune 500*, Emre Gumuluoglu, University of Central Florida.
7. *ISS NanoRocks: Collisional evolution of regolith simulants in microgravity*, Bradley Hoover & Kelly Lai, University of Central Florida.
8. *Beating the odds: Examining success among African-American male students*, Emmanuel Jackson, University of Central Florida.
9. *Uncovering the genetic diversity and subspecies designation of *Diadophis punctatus**, Thomas Carpino, University of Central Florida.
10. *Re-E.N.T.E.R (Education Now To End Recidivism)*, Brianna Williams, University of Central Florida.
11. *The use of physical restraints among nursing home residents: Do disparities exist?* Shekinah Antoinette Fashaw, University of Central Florida.
12. *Are religious people prejudiced toward Gays and Lesbians? It depends!* Austin Murphy, University of North Florida.
13. *Rearrangement of trans-Stilbene Oxide and Mono-substituted derivatives catalyzed by metallic triflates or Brønsted acidic ionic liquids or under microwave irradiation*, Benjamin Maxwell Rathman, University of North Florida.
14. *Green at Heart? Pro-environmental behaviors and the case for spillover*, Thomas Nicks-McCaleb, University of North Florida.
15. *Genetic and physiological characterization of yeast isolated from *Butia capitata* fruit and analysis of fermentation potential*, Travis Putzke, University of North Florida.
16. *Effectiveness and equity of school suspension policies in Florida*, Margaret B. Daut, University of South Florida.
17. *The impact of religiosity on substance use*, Ann Weatherby, University of South Florida Sarasota Manatee.
18. *IP Cloud Image Processing*, Chad Yarber, Valencia College.
19. *Ascertaining the most viable cultivar of *Camelina* for potential use in biofuel studies*, Destin Alann Holland, University of North Florida.
20. *Panther LIFE*, Jonathan Viera, Chelsea Philin, Florida International University.
21. *Unveiling the mystery of narcolepsy with distinct peptoid ligands*, Tammy Li, University of Florida.
22. *Advertising the Everglades: Then and Now*, William Latorre, University of Florida.
23. *Animal-like and Depraved": Racist stereotypes, commercial sex, and Black women's identity in New Orleans, 1825-1917*, Porsha Dossie, University of Central Florida.
24. *Determining the minimum number of individuals in a possible archaeological ossuary at Kuelap in Chachapoyas, Peru*, Vu Tran, University of Central Florida.
25. *Pauperism in America: Long-term effects of childhood poverty on Caucasian young adults*, Jessie Shafer, University of Central Florida.
26. *Infusing multicultural picture books into the curriculum of second and third grades*, Beatriz Cristina Marmol, University of Central Florida.
27. *Can companies prevent transnational communication crises?* Matthew Boles, University of Florida.
28. *The CSI Effect: An exploration on its influence on criminals*, Alexandra Leigh McConnell, University of Central Florida.
29. *GPU accelerated approach to numerical linear Algebra and matrix analysis with CFD applications*, Adam Phillips, University of Central Florida.
30. *Music normalization influence on college students health compromising behaviors*, Michelle Craske, University of Central Florida.
31. *Writers and reactive works: Analysis of Kurt Vonnegut's *Slaughterhouse Five* and perception of traumatic events*, Jasmine Spittler, Florida State University.
32. *Dissent in Nazi Germany: The sermons of Bishop Von Galen and the street protest at Rosenstrasse*, Danielle Wirsansky, Florida State University.
33. *Simultaneous determination of hormones in oral fluid by Solid Phase Extraction (SPE) and Liquid Chromatography Triple Quadrupole (LC-MS/MS) Mass Spectrometry*, Carmen T. Mulet, Florida International University.
34. *Conformational kinetics study of MP-11 using TIMS-MS and molecular dynamics*, Christopher Harrilal, Florida International University.
35. *Developmental differences in considering a false confession*, Elizabeth Miguel, Florida International University.
36. *Computer simulations to evaluate the role of cytomegalic neurons in the genesis of seizures in FCD*, Eric Benk, Florida International University.
37. *Blackface and racially-themed parties: A correlation between exposure to African-American history and student behavior*, Brittany Marie Hibbert, Florida International University.
38. *The effect of mother's own milk versus donor human milk on the nutritional status and growth of very low birth weight infants*, Clara Engelmann, University of Florida.
39. *Acculturation, Well-Being and Perceived Family Support Among Haitian Adolescents*, Khalid El-Amin, Barry University.
40. *Synthesis of novel L-Arginine derivatives using Benzotriazole methodology*, Ellen Toneff, University of Florida.
41. *pH-Responsive and biodegradable nanoparticles capable of loading and releasing small-molecule cargo*, Elliot MacKrell, University of Florida.
42. *The Devil-Image: An exploration vis a vis the God-Image*, Bryce Maxwell, University of North Florida.
43. *How do English Speakers Learn the Spanish Accent?* William Keegan Storrs, University of Florida.
44. *Effects of nitrate chemistry on tropospheric ozone modeling*, Vincent Warger, University of Florida.
45. *Flithy Dreamers*, Beverly Nwokoye, University of Central Florida.
46. *Practicing Buzing Preksha Meditation affects cognitive and pulmonary function*, Gabrielle Roman, Florida International University.
47. *Tropical cyclones and their effects on total precipitable water*, Albert Betancourt, Florida International University.
48. *What do students think about Massively Open Online Courses (MOOCs)?* Joliette Re, Florida International University.
49. *The Failure of Happiness: Examining strategies within LGBT/Queer Young Adult Fiction*, Brittany Murphy, University of Central Florida.
50. *Suicide Through Symbolism*, Alyssa Jordan Knisley, Florida State University.

51. *Structural characterization of Polycyclic Aromatic Hydrocarbons using TIMS-MS*, Anthony Castellanos, Florida International University.
52. *Economic inequality, the American Dream, and the Ideological State Apparatus*, Christopher Quintana, Florida International University.
53. *Florida International University's student awareness of modifiable risk factors of obesity*, Sahar Fatima, Florida International University.
54. *Hit-List worm detection inspired by the human immune system*, John Cossu, Stetson University.
55. *The interpersonal effects of disgust and racism*, Kristen Erichsen, Stetson University.
56. *Binary deoxyribozyme technology for detection and characterization of pathogenic Mycobacteria*, Bradley Rosenkrantz, University of Central Florida.
57. *Investigating peer weak tie networks of youth with disabilities related to development using methods of personal network analysis*, Stephanie Prudencio, University of Florida.
58. *From Left to Right: A factor analysis of political ideology measures*, Erik Clarke, University of North Florida.
59. *A Distributed IP-based telephony system*, Ford Ross Cheesman, University of Florida.
60. *Binding of As, Ni, and Mn metal ions by grafted carboxyl methyl-containing cellulosic materials*, Gabriel Pacareu, Miami Dade College.
61. *Characterization of the AT-Hook Motifs of HMGA2*, Genevieve Gozo, Florida International University.
62. *Assessment of the performance of complex construction projects: A System-of-Systems approach*, Gianni Romero, Florida International University.
63. *Development of chemoselective ligation at hydroxyproline site for synthesis of difficult cyclic peptide*, Grant Gerald Simpson, University of Florida.
64. *The Impact of School Environment on Teachers' Motivation in Sweetwater Elementary*, Nusrat Mosharraf & Andres Roque, Florida International University.
65. *Non-clinical levels of maternal depression affects mother-infant interaction within the Still-face Paradigm*, Katherine Alfonso, Florida International University.
66. *Team Icarus - Flapping-Wing Ornithopter*, Jenna Phillip, Florida Institute of Technology.
67. *Convection Initiation along the Rocky Mountain Front Range*, Brian Matilla, Florida International University.
68. *Missing the boat: International Law's inadequacy to protect and defend the rights of seamen in Francisco Goldman's 'The Ordinary Seaman'*, Constance Hackler, University of Florida.
69. *The role of international NGOs in combating human trafficking: An analysis of NGO involvement in the UN Trafficking Protocol negotiations*, Cynthia Florentino, University of Central Florida.
70. *The circadian protein Per1 regulates target gene expression in the kidney through repression of Cry2*, Sean All, University of Florida.
71. *Patterns of parent-child interactions in youth with Cystic Fibrosis: A qualitative analysis*, Denise McIntyre, University of Florida.
72. *Psychosocial indicators of injury concealment among young Mmle athletes*, Guillermo Alfonso, University of Central Florida.
73. *American growing pains: Rioting and the formation of the Jacksonian identity, New York City, 1828-1857*, Jackson Loop, University of Florida.
74. *miRNA microarray pattern analysis in autoimmune diseases*, Jessica Beatriz Riccobono, University of Florida.
75. *Mosques in Spain*, Jordan Bolan, Meghan Crawford, & Shauna Gillooly, Florida State University.
76. *Exploring relationships among personality traits and nontechnical skills in college students*, John Clayton Doyle, University of Central Florida.
77. *Urban Wind Turbine Project*, John Easum, Embry Riddle Aeronautical University.
78. *Exploring The Linguistic Styles Of Students With A Propensity For Alcoholism And Students With Symptoms Of Depression*, Sarah Sanders, University of Central Florida.
79. *Model fungal systems using seaweed and sponge metabolites as biofilm inhibitors*, Paige E. Mandelare, University of North Florida.
80. *Experimental modeling of multi-hit resistance of single-crystal silicon carbide using sequential Knoop Indentations*, Cody Kunka, University of Florida.
81. *Designing small hairpin sequences to knockdown expression of LMO2 in breast cancer stem cells*, Lazaro Mesa, Florida International University.
82. *The effect of code switching in the variation of copulative predicates 'Ser' and 'Estar' among Cuban heritage speakers*, Andrea Hernandez, University of Florida.
83. *Effects of raspberry ketones on Chinese hamster ovary cells and 3T3L1 cells*, Tye Jensen, Florida Southern College.
84. *Testing the function of a new regulator of Actin Depolymerizing Factor*, Madeleine Turcotte, University of Florida.
85. *"Contagious self-compassion": Does observing self-compassion in others lead to more self-compassionate responses?* Julia Hittell, University of North Florida.
86. *Does the Cross-Race Effect apply to Hispanic participants?* Raquel A Hernandez, University of Florida.
87. *Similarities and differences in Thai and US college students regarding human trafficking*, Soya L. Davis, University of Florida.
88. *Elucidation of RH3 Protein Effects on Chloroplast Biogenesis and Development*, Anton Titov, University of Florida.
89. *Optimizing Elastomeric Heart Valves via Ceramic Particulate Reinforcement*, Angie Michelle Estrada, Florida International University.
90. *There's Nothing Outside: Wanderers of Anomie*, Lucas Miranda, Florida International University.
91. *The relationship between self-esteem and body image among college students*, Chanel Shahnam, University of Central Florida.
92. *Adenovirus E1A influences intracellular localization of Androgen receptor*, Olivia Thuy Duong Co, University of Florida.
93. *The relationship between perspectives and acupuncture outcomes in patients with gastrointestinal cancer*, Richkard Saint Louis, University of Florida.
94. *Differential rearing conditions affect emotional reactivity in Bobwhite Quail (Colinus virginianus) chicks*, Eric J. Martinez, Florida International University.

Saturday Poster Session 3 - 2:00 pm–3:00 pm

1. *Advanced vision control system for telepresence robot*, Irvin Steve Cardenas, Florida International University.
2. *Effect of Endothelin signaling on the morphology of the heart*, Karla Alejandra Montejo, Florida International University.
3. *Laryngopharyngeal Reflux: Is there evidence in the larynx?* Aderonke Ilegbusi, University of Central Florida.
4. *Analysis of damage patterns among residential structures after the Joplin, Missouri tornado*, Alyssa Egnew, University of Florida.
5. *Characterization of Potassium Channel Interacting Proteins with focus on KChIP-2*, Andres Arango, Florida International University.
6. *The Label of Madness: The effects of career choice and gender on perceptions of mental illness*, Angela L Vanella, University of Central Florida.
7. *Exposure of profanity in childhood increases the use of profanity in adulthood*, Ledalis Zamora, University of Central Florida.
8. *Geometric effects of circumbinary planets*, Anna Kristin Shahady, Florida Institute of Technology.
9. *Reporting reconciliation in Northern Ireland: The American media and their treatment of The Troubles Peace Process*, Annalise Kapusta, Florida State University.
10. *Mexican immigrants and social service utilization in the United States*, Audriana Law, Stetson University.
11. *Design of a biomimetic undulating propulsor for underwater vehicles*, Bevan Taylor, Florida Atlantic University.
12. *An examination of hypermethylation in response to ethanol exposure*, Rafael Brango, Barry University.
13. *Are vocalizations by male house crickets (*Acheta domesticus*) an honest signal of genetic quality?* Shaynell Monreal, Barry University.
14. *Eco-Dolphin – Cooperative Fleet for Surveillance Mission*, Jonathan Jaworski, Embry Riddle Aeronautical University.
15. *Carbon Nanotubes and Graphene Growth using Chemical Vapor Deposition*, Keith Alvares, Embry Riddle Aeronautical University.
16. *The effects of federalism in women's political presentation: A case study of German federalism*, Christine Marie Comfort, University of Central Florida.
17. *Characterization of MHV68 latency using replication defective mutants*, Mariel Rickert, University of Florida.
18. *Y-genotyping of haplogroups E and J in the Yemeni population*, Timothy Scott, University of Florida.
19. *"His Panic": Latin-American poetry in translation*, Daniel Eduardo Ruiz, Florida State University.
20. *Thought and dispositional fear of invalidity as determinants of attitude polarization*, Danielle Krusemark, University of North Florida.
21. *Examining the effects of white noise on concentration*, David Garcia, University of Central Florida.
22. *Explaining state variation in Medicaid expenditures*, Deina Boss, University of Florida.
23. *Political Transition in a post-Arab Spring Middle East: A Comparative Analysis of Egypt, Tunisia, and Yemen*, Dominic W. Martin, University of Central Florida.
24. *A Renaissance Man's Rebellion*, Elenie Louvaris, Florida Atlantic University.
25. *Sexual Orientation: Nature versus nurture*, Joseph LoVerso, University of Central Florida.
26. *Racial Progress: A Work in Progress*, Beverly Mejias, Saint Leo University.
27. *Brazilian Pepper (*Schinus terebinthifolius*) effects on freshwater organisms*, Dylan Myers, Eastern Florida State College.
28. *Study of the lipid distribution on brain section of *Tadarida brasiliensis* using Mass Spectrometry Imaging*, Alexandra Blanco, Florida International University.
29. *A Knockdown approach to studying *Pc1* gene function*, Van Williams, Barry University.
30. *Towards lipid analysis using secondary ion mass spectrometry at the single cell level*, Krystal Diaz, Florida International University.
31. *Effect of life-extending dietary restriction and ovariectomy on Respiratory Exchange Ratios in the Eastern lubber grasshopper*, Ayesha Awan, University of North Florida.
32. *Fiber supplemented droplet diving into two liquid layers*, Alyssa Harris, Florida Atlantic University.
33. *Inhibition of Histidine Ammonia Lyase by Protic Ionic Liquid Salts (PILS)*, Michael Coats, Florida Gulf Coast University.
34. *Variable Aspect Ratio UAV*, Chadwick Harvey, Florida Institute of Technology.
35. *The development of teen mothers as portrayed in MTV's 16 and Pregnant*, Christina Johnson, University of North Florida.
36. *Identification and characterization of interactions between *cdc13-1* and *yKU80* mutant alleles on yeast telomeres*, Wesam Azaizeh, Barry University.
37. *Smart Mannequin*, Joel Villasuso, Florida International University.
38. *Classical tropes and contemporary fiction*, William Latorre, University of Florida.
39. *Investigation of the wound healing process of adult *Danio rerio* wildtype zebrafish*, Victoria Hoelscher, Barry University.
40. *The effects of holistic medicine on *Propionibacterium acnes**, Frank Skiff, Eastern Florida State College.
41. *Development of a Massive Gold Cluster Secondary Ion Mass Spectrometer Capable of sub-cellular imaging*, Raul A. Villacob, Florida International University.
42. *Effects of pilocarpine doses on a rat model of TLE epilepsy*, Winnie Medina, Florida International University.
43. *Macromolecular differentiation of melanoma cells using high resolution mass spectrometry*, Frederic Nau, Florida International University.
44. *Normalization of Quantitative Real-Time PCR in Pathogen Infected Human Cell Lines*, Tara Tavakoli, University of Florida.
45. *The Effect of Human Saliva on Gold Nanoparticle Formation Using Cetyltrimethylammonium Chloride with UV-VIS Spectrophotometry*, Joseph Bradfield, Florida Gulf Coast University.
46. *Slut-Shaming: The Effects of the Sexual Double Standard on the Perceptions of College Students Towards Themselves and Their Peers*, Nora Porter, Stetson University.
47. *Electrification as a means of rural development: The case of the Andean region*, Elizabeth Moore, University of Central Florida.
48. *Quantum Computers: The Future of Computing?* Steven Forsyth, Valencia College.
49. *Transforming growth factor-beta (*TGFβ*) regulates activity of CDKs at post-transcriptional level*, Daria Vasilyeva, Barry University.
50. *Dissecting interactions between *BamA* and *BamD* via binding and fluorescence studies*, Stephanie Castillo, University of Central Florida.
51. *Feasibility of an Undergraduate Leadership Studies Program at Florida Atlantic University*, Ella Tepper, Florida Atlantic University.
52. *Heme-pocket characterization of neuroglobin using a fluorescent probe*, Adrian Rodriguez, Florida International University.
53. *HIV infection and cocaine interaction: Role of inflammation*, Neha Kasturia, Florida International University.

54. *Integrated approach to standardized ethnopharmacology projects*, Spenser Smith, Palm Beach Atlantic University.
55. *Everglades: Indirect Learning*, Solangel A. Rodriguez, Florida International University.
56. *Investigating distress among healthcare patients*, Taylar Peoples, University of Central Florida.
57. *Wearable gait stimulator*, Roger French, University of North Florida.
58. *Identification of the domain(s) in protein disulfide isomerase that are required for binding and disassembly of the Cholera holotoxin*, Laura Kathleen Herndon, University of Central Florida.
59. *Spontaneous Changes in Immortalized Mammalian Cell Lines Result in Cell Competition*, Rochelle Sadeghi, University of Central Florida.
60. *Using academic intelligence as a predictor for self-control and impulsivity*, Donald Cory Milliman, University of Central Florida.
61. *Development of a mass spectrometric ion optics system for delivery of mass-selected ions to a cryogenic 3D ion trap*, Matthew Pegram, University of Florida.
62. *Extending a satellite's orbital life through the re-direction of thermal energy as a propulsive infrared beam*, Michael Waddell, Florida International University.
63. *Alpha-1 Adrenergic Receptor Agonist-mediated stress model in benign prostatic hyperplasia*, Mindy Wang, University of Florida.
64. *Multi-disciplinary collaboration for the establishment of an ethnopharmacology research laboratory*, Morganne Paige Bayliss, Palm Beach Atlantic University.
65. *A comprehensive working model for happiness*, Nicholas Coles, University of Central Florida.
66. *Nitrated Hsp90-induced PC12 cell apoptosis requires p38 and JNK MAP kinase activation*, Pascale Nelson, University of Central Florida.
67. *The relationship between sport anxiety and group cohesion: An exploratory study - Club sport teams versus collegiate teams*, Patrick Bailey, Stetson University.
68. *Analysis of charge fusion product rates: Initial data from the Mega Amp Spherical Tokamak (MAST)*, Pierre Romero Avila, Florida International University.
69. *Food fraud in America*, Robert A. Williams, Santa Fe College.
70. *Characterization of Holo- and Apo- Myoglobin conformational dynamics*, Raybel Almeida, Florida International University.
71. *Cognitive inflexibility in C58 mice*, Robin L. Shafer, University of Florida.
72. *Sexually dimorphic effects of temperature on acoustic emissions of an arctiid moth*, Rosario Rodrigues, Miami-Dade College.
73. *Development of benzotriazole auxiliary strategy for synthesis of cyclic tetrapeptides*, Ryan E Quinones, University of Florida.
74. *Latino family environment and mental health wellbeing*, Shannksa Atis, University of Florida.
75. *Pharmacological blockade or genetic knockout of the prostaglandin E2 EP1 receptor reduces blood-brain barrier disruption and permeability in ischemic stroke*, Jan Christopher Frankowski, University of Florida.
76. *The relationship of perinatal depression and maternal comorbidity on negative birth outcomes*, Kyle Zreibe, Florida International University.
77. *Functional magnetic resonance imaging mapping of central nervous system actions of "Bath Salts" in rats*, Kelvin Thai Tran, University of Florida.
78. *Synthesis and antimalarial activities of a diverse set of Triazole-containing Quinine analogues*, Juan Serrano, University of Florida.
79. *Sensitization of Lanthanide luminescence and f-Element extraction properties of novel tripodal CMPO Ligands*, Shelby N. McGraw, University of Tampa.
80. *Synthetic Synesthesia*, Joshua Kahn, Valencia College.
81. *Antibiotic susceptibility of mouth microflora from canines and felines in local animal shelters*, Jessica Lynn Laird, University of Tampa.
82. *Solar thermochemical energy: Turning the power of the sun into liquid fuel*, Jeremy Grunewald, University of Florida.
83. *Annotation of hypothetical proteins in human adenoviruses*, Shane Dorden, University of Tampa.
84. *Lacedaemonia's Pride: A civilization's choice to become a military state*, Jarrett Fletcher, Valencia College.
85. *Protected L-Arginine Thioacid: Synthesis and properties*, Saeid Mirzai, University of Florida.
86. *Event labeling in the context of weapon discrimination*, Jenny Autumn Walker, University of Central Florida.
87. *Factors that influence the likelihood of a parasitoid attack*, Natalia Pineros, University of Florida.
88. *Factors that contribute to the education levels of minority students*, Stephanie Rosales, University of Central Florida.
89. *The effect of variable hyporheic exchange on nitrate removal in Florida Springs: A smart tracer approach*, Alexis Johnson, University of Florida.
90. *Expression and purification of wild-type and deletion variant of TorsinA for biophysical characterization*, Antonieta Salguero, University of Florida.
91. *Friendship maintenance, sex differences, and gender*, Daniel Miller, University of North Florida.
92. *Design and manufacture of a quad rugby wheelchair training machine*, James Beeler, University of North Florida.
93. *The impact of school environment on students' motivation - The case of Sweetwater Elementary School*, Lilian De Godoy, Florida International University.

Workshops

Saturday, February 22

Workshop Session 1 – 10:00 AM – 11:00 AM

Preparing for Graduate School - GC 140

Albert Hoyt (FIU, University Graduate School)

Jose F. Rodriguez (FIU, Honors College)

Janie Valdes (FIU, Undergraduate Education)

Conducting Research at FIU - GC 150

Christopher Emerson (FIU)

Omar Leon (FIU)

Brian Matilla (FIU)

Nicole Millan (FIU)

Grethel Miro (FIU)

Research Methods - GC 243

Anthony McGoron (FIU, Biomedical Engineering)

Okezi Otevo (FIU, History)

Workshop Session 2 – 1:00 PM – 2:00 PM

Issues in STEM - GC 140

Katherine Herleman (Cornell)

George Simms (FIU, McNair)

Melissa Stiksma (FAU)

Students as Research Ambassadors - GC 150

Arafat Bari (FAU)

Alexander Bruno (FAU)

Nicholas Coles (UCF)

Nicholas James (UCF)

Aderonke Illegbusi (UCF)

Ethics, IRB, CITI - GC 243

Arely Lozano-Baugh (FAU)

Bennett Schwartz (FIU, Psychology)

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Florida Gulf Coast University

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Florida State College at Jacksonville

Florida State University

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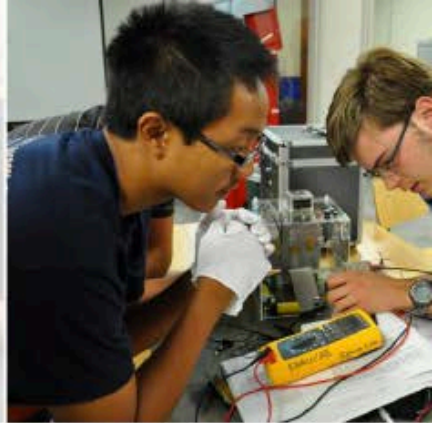
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