

³⁵**Br**eaking

⁵**B**oundaries

Annual Conference
Florida Collegiate Honors Council

February 20 - 22, 2015

Miami Airport Marriott



FIU

Honors
College

T⁷³able of
Co²⁷ntents

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*The Mission of the
Florida Collegiate Honors Council:*

- To provide a forum for sharing information about and improving the quality of Honors programs.
- To provide students with greater opportunities for intercollegiate Honors programs activities.
- To collaborate with the regional and national organizations which have similar goals.
- To encourage articulation and collaborative programming between Honors programs at associate and baccalaureate institutions.
- To increase the public and private awareness of and fiscal commitment to Honors programs and projects.



Dear Colleagues,

On behalf of the FCHC Executive Board and the Honors College at Florida International University, I welcome you to the 2015 Florida Collegiate Honors Council Conference! We are very fortunate to have such a vibrant community of educators and scholars in Florida.

The theme for this year's conference is Breaking Boundaries. Honors education is marked by its "out-of-the-box" thinking and pedagogies. You will find here a variety of expressions of Honors education. I hope you will take the chance engage in great intellectual conversations and networking opportunities

Our commitment to Honors education personifies academics at its best. Thank you for joining us in Miami!

Sincerely,

José F. Rodríguez
FCHC President-Elect and 2015 Conference Chair

Assistant Dean and Fellow
Honors College
Florida International University



26th Annual Florida Collegiate Honors Council Conference

February 20 – February 22, 2015

Friday, February 20, 2015

Lobby

5:00 - 6:30 pm Registration and collection of Silent Auction items

Grand Ballroom

6:30 - 8:30 pm Welcome, José Rodríguez, FCHC President-Elect
Dinner
Writing Contest & Scholarship Award Winners Announced
Open Call for 2015-2016 Student Representative Nominations

Skyline

8:30 - 10:00 pm Social Mixer for Faculty and Administration

Pool Area (weather permitting)

8:30 - 10:00 pm Student Meet & Greet

Saturday, February 21, 2015

Grand Ballroom

7:30 - 10:00 am Continental Breakfast

8:00 - 2:00 pm Silent Auction

Co²⁷nference at a
G³¹lance

Saturday, February 21, 2015

Third & Tenth Floor West Wing

9:00 - 9:50 am Session 1
10:00 - 10:50 am Session 2
11:00 - 11:50 am Session 3

Grand Ballroom

12:00 - 1:30 pm Lunch; Announce Student Rep Nominees
Keynote: Ana-Paola Capaldo, FIU Honors Alumna

Third & Tenth Floor West Wing

2:00 - 2:50 pm Session 4
3:00 - 3:50 pm Session 5
4:00 - 4:50 pm Session 6

Dinner on your own

Skyline

8:00-10:30 pm Karaoke Night

Dolphin/Marlin

8:00-10:30 pm Game Night with Wii-U



Co²⁷nference at a
G³¹lance

Sunday, February 22, 2015

Grand Ballroom

7:30 - 11:00 am

Breakfast and Poster Session

Announce Winners of Silent Auction

9:00 - 10:00 am

Writing Contest Presentations

International

Junior/Senior Research Papers

Tampa

Freshman/Sophomore Research Papers

Orlando

Poetry, Fiction, and other Papers

Dolphin

10:10 - 10:45 am

Students' Representative Election Meeting

Skyline

10:10 - 10:45pm

Directors' Election Meeting

Skyline

10:45 - 12:00 pm

Annual Business Meeting

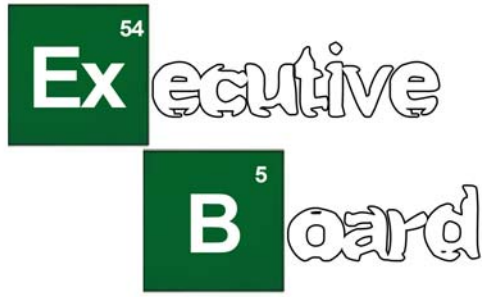
FCHC Executive Board Meeting

M⁴²ember
In⁵³stitutions

- | | |
|--|---|
| Broward College | Seminole State College |
| College of Central Florida | South Florida State College |
| Daytona State College | St. Petersburg College |
| Eastern Florida State College | Stetson University |
| Florida A & M University | Tallahassee Community College |
| Florida Gateway College | The University of Central Florida
(The Burnett Honors College) |
| Florida Gulf Coast University | The University of Tampa |
| Florida International University | University of Florida |
| Florida Memorial University | University of Miami |
| Florida Southern College | University of North Florida |
| Florida SouthWestern State College | University of South Florida |
| Florida State College at Jacksonville | University of West Florida |
| Florida State University | Valencia College |
| Harriet L. Wilkes Honors College (FAU) | |
| Hillsborough Community College | |
| Indian River State College | |
| Jacksonville University | |
| Miami-Dade College | |
| New College of Florida | |
| Nova Southeastern University | |
| Palm Beach State College | |
| Polk State College | |
| Saint Leo University | |
| Santa Fe College | |

Ex⁵⁴ecutive
B⁵oard

- Kathleen King.....President
Hillsborough Community College
kking36@hccfl.edu
- Sheila Jones.....Past President
Broward College
sjones1@broward.edu
- José F. Rodríguez.....President-Elect
Florida International University
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- Leslie Kaplan.....Writing Contest Coordinator
4 Year Public Representative
University of North Florida
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- Robert Fleischmann.....2 Year Public Representative
Tallahassee Community College
fleischr@tcc.fl.edu
- Janet Haavisto.....4 Year Private Representative
Jacksonville University
jhaavis@ju.edu



The logo for the Executive Board features the word "Executive" in a stylized font. The "Ex" is in a dark green square with the number "54" in the top right corner. The word "Board" is in a similar stylized font, with the "B" in a dark green square with the number "5" in the top right corner.

- Brian Ekasala.....2 Year Public Student Representative
Palm Beach State College
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- William Sims.....4 Year Public Student Representative
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- Ryan Doughety.....4 Year Private Student Representative
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- James Rowland.....Webmaster
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Co²⁷nference

Re⁷⁵minders

- Be considerate of times when sessions begin.
- Please arrive to the session you are attending at least 5 minutes early.
- Show respect for presenters by turning OFF your cell phones or put them on airplane mode.
- NOTE: There is limited bandwidth in the meeting rooms. By turning off your devices, presenters are better assured success in using the internet.
- Wear your Conference Name Badge at all times.
- Show respect for other guests at the hotel.
- Dress appropriately to all events.

We are here to help you!





The Mary Jo Henderson Scholarship is designed for exceptional state and community college Honors students who will graduate with an Associate's degree from a FCHC member institution and will be transferring to a FCHC member institution.

The Dr. Richard Piper Scholarship is designed for university students who will be graduating from a Florida Collegiate Honors Council (FCHC) four-year institution.

The Dr. Irmgard Bocchino Partners in the Park Scholarship awards are \$500 towards Partners in the Park program costs and are available to students currently enrolled in an FCHC member institution. The deadline to apply for a scholarship for students attending a 2015 project will be rolling, however, it is recommended that applications for the scholarship be made at least 2 months prior to the specific project student plans to attend.



5:00 pm - 10:00 pm

Lobby

5:00 pm – 6:30 pm

Registration and Drop off of Silent Auction Items

Grand Ballroom

6:30 pm - 8:30 pm

Welcome

José F. Rodríguez, FCHC President-Elect

Dinner

Award Winners Announced

Kathleen Lazarus, Daytona State

Open Call for 2015-2016 Student Representative Nominations

Skyline

8:30 pm - 10:00 pm

Social Mixer for Faculty & Administration

Pool Area

8:30 pm - 10:00 pm

Student Meet & Greet

Sa⁵¹turday - S⁷⁴ession 1

9:00 am - 9:50 am

Tampa

Bunting, Carly Brooke: University of Tampa Honors Program

Chronic Exertional Compartment Syndrome

Chronic Exertional Compartment Syndrome (CECS) is a condition plaguing athletes involved in repetitive impact activities. Commonly, it is mistaken for shin splints and continues to worsen until the lower extremities lock and can go no further. As a runner, it personally took over a year before I was properly diagnosed and able to proceed with surgical decompression fasciotomy. There are four compartments defined by bone with surrounding connective tissue; anterior, lateral, superficial posterior, and the deep posterior. CECS is abnormal pressure build up within the muscle, thus increasing volume, however the surrounding muscle casing is unable to comply, commonly mistaken for shin splints. The physiological causes are not clearly defined so scientists must rely on multi-factorial incidents by observing their patients. Rehabilitation is completely individualized and there currently is not a set of strict physical therapy guidelines to aid the patient, causing doctors to simply focus on healing incisions.

Byrd, Eric: Jacksonville University

Determination of Serum Amyloid A Ranges in Clinically Healthy Anesthetized Grevy's Zebra (*Equus grevyi*) and Somali Wild Ass (*Equus africanus somaliensis*) and Correlation with Total White Blood Cell Count

Acute phase proteins in blood plasma play a variety of immunologic roles during an acute phase response which occurs when prompting an inflammatory response. The baseline concentration of Serum Amyloid A (SAA) of Grevy's Zebra (*Equus grevyi*) and Somali Wild Ass (*Equus africanus somaliensis*) was observed, establishing baseline SAA values for clinically-normal anesthetized animals. Blood serum was obtained from White Oak Conservation Holdings LLC and sent to the University of Miami Comparative Pathology Laboratory for analysis. The SAA data were compared to baseline values in domestic horses, along with data of fibrinogen and white blood cell levels, to establish correlational patterns. This is of importance to the veterinary medical field as it could enable more efficient healthcare of non-domestic equid species.

Caudill, Olivia: Honors Program Polk State College

Vaccines: A Closer Look

Ignited by an array of unfounded claims and fueled by the voices of concerned mothers, celebrities, and activists, the movement against vaccination is now greater than it has ever been in the U.S. Equally disconcerting is the increasing trend to choose alternative vaccination schedules over the recommended ones. These alarming new trends have prompted a surge in outbreaks of serious vaccine-preventable diseases. In addition to the distressing number of 2014 measles outbreaks, resurgences of both mumps and pertussis have also been observed. This presentation aims to summarize the scientific research surrounding adjuvants, additives, and safety of vaccines in order to address the most common concerns issued by vaccine-hesitant parents.

Cruz, Savannah: Seminole State College

Anticancer Toxin Treatments

This presentation will revolve around the Introductory STEM class at Seminole State College. It will review the process of research at its most preliminary state. In addition, knowledge conceived from a research paper about anti-cancer toxin treatments will also be presented and how the efficiency of these treatments could potentially be improved. Further and potential research goals will also be discussed.

Sa⁵¹turday - S⁷⁴ession 1

9:00 am - 9:50 am

Caribbean

Jenkins, Andrew: College of Central Florida Honors Institute

Forming Partnerships with Form-Based Code

This panel of three presenters participated in an honors course field assignment for their ISC1004H Integrated Natural Sciences course. The class partnered with the Ocala Department of Planning to conduct assessments of the current downtown built environment. These assessments used form-based code and will be folded into future planning and development. This panel will be of interest to honors directors and students looking to forge relationships and partnerships with their communities.

Barnett, Raina: College of Central Florida Honors Institute

Defining Form-Based Code

According to formbasedcodes.org, a form-based code is "a land development regulation that fosters predictable built results and a high-quality public realm by using physical form (rather than separation of uses) as the organizing principle for the code." As a class, we worked with the city gathering results using the form-based code method. Note that a form-based code is a regulation, not a mere guideline, adopted into city, town, or county law (formbasedcodes.org). "Form-based codes address the relationship between building facades and the public realm, the form and mass of buildings in relation to one another, and the scale and types of streets and blocks." For example, if a street has tall buildings close to one-another and benches and sidewalks for pedestrians, it would be more inviting than small, sparse buildings with wide open spaces. The codes "are keyed to a regulating plan that designates the appropriate form and scale (and therefore, character) of development, rather than only distinctions in land-use types" (formbasedcodes.org). Form-based code tries to achieve a community vision based on time-tested forms of urbanism and mixed-use.

Brill, Emma: College of Central Florida Honors Institute

Just Like Downtown: Collecting Data

The basis of this project was to aid the City of Ocala in collecting and analyzing data for the form-based code. The city is working towards adopting form-based code in hopes of bringing more individuals to the downtown and surrounding areas in Ocala. ISC1004H, otherwise known as Integrated Natural Sciences Honors, led by Professor Steve MacKenzie, met with representative from the City and were given a survey and a map of locations to guide the class in taking observations. The class met down town on several occasions where they split off into smaller groups and surveyed the given locations. After the completion of the project the participants had a better understanding of the presence of form-based code in the City of Ocala and what more could be done to further develop the code in this area.

Oliveira-Beuses, Ana: College of Central Florida Honors Institute

Surveying Youth Use of Downtown

In the beginning of the project, the professionals we were working with from City Hall--Mike Daniels, Planning Manager, and Lisa Walsh, Senior Planner--gave our class a survey to learn why we do not go downtown so often. It was a good idea, and I suggested to our professor that we could adapt the survey and hand out more to students on campus. We were trying to find out what college students did downtown and how often they went there. We made the survey easy to answer, selecting five easy multiple choice questions with an optional box for comments and suggestions. We wanted it to be anonymous so we only asked about the person's gender and age group followed by how many times they went downtown, what they did there, and what they would like to see more often there.

Saturday - Session 1

9:00 am - 9:50 am

International

Chern, Caroline: FGCU Honors

Trails for Tails: Creating Lifelong Charity, Teambuilding and Altruism in Honors

Eight days, two vans, 600 miles and \$14,000 later, a fantastic group of FGCU honors athletes ran from Naples to Key West and back. Last March was the second time the FGCU Honors Program ran for charity, and this last March \$14,000 was raised on a fund raising website for the Ocean Conservancy during spring break. There are two reasons this run called "Trails for Tails" is so important. The first is the idea that the Honors Program is a community. Honors students know each other, help each other and motivate each other. While Trails for Tails raised money for charity, it also brought students together to achieve a single goal in one of the strongest team building exercises. The second reason is that FGCU Honors instills in its students that charity is not something done for a single day and forgotten. Honors students value service-learning as a lifelong commitment.

Denner, Michael: Stetson University

In Praise of Nothing: Stetson's Honors anti-Curriculum

Over the past five years, Stetson University's Honors Program has transitioned from a "fully developed" Honors curriculum as described by the NCHC, to a program that emphasizes student agency, creativity, and flexibility. Our original program, modeled on best practices, had close to 60 credit hours worth of coursework. It failed at an institutional level, at a curricular level, and at a student level. I will tell the story of its failure, one that will probably resonate with a lot of directors' experiences. Our new curriculum has only two required courses. It offers students opportunities and support that help guide them into a fully-realized and imaginative response to the question: What is your education? Using some creative and innovative tactics, the program allows students to complete their accreditation-required General Education requirements with minimal coursework, leaving the average student more than nineteen elective units (around four full semesters of coursework). I'll explain how they make the best use of this curricular freedom.

Haavisto, Janet; Stubbs, Alyssa; McClain, Allison; Curtis, Nathaniel; Dougherty, Ryan; Abreu-Figueroa, Alexandra & Visman, Davis: Jacksonville University

Breaking Boundaries in Leadership Training for Honors Students

Through peer mentoring, in the Jacksonville University Honors Program, sophomore, junior, and senior Honors students are developing leadership skills as they mentor new Honors students (both new to college and transfer). The mentoring is a high impact opportunity for growth and support as Honors mentors and Honors mentees interact throughout the new students' first semester at Jacksonville University. In their partnerships, experienced and novice Honors students influence each other and collaborate in success strategies. Social engagement furthers the outreach goals, positively affecting both Honors students involved in the partnerships.

King, Kathleen & Mick, Angelina: Hillsborough Community College

Breaking Boundaries in Mental Health Needs for Honors Students

More and more in Honors education we find a full suite of resources are necessary to meet the needs of our students, not the least of which, but often overlooked, are the mental health needs of Honors students. By singling out a resident counselor for addressing mental health needs for students in the HCC Honors Institute, we have found a variety of ways to integrate mental health into the classroom, special programming, and international travel. In doing so, our students have learned to appreciate the value in seeking help, when necessary, and seem more likely to get the help they need. In this presentation the value of a mental health counselor for your program will be discussed and ways to include counseling in programming will be illustrated.

Sa⁵¹turday - S⁷⁴ession 1

9:00 am - 9:50 am

Orlando

Anderson, Kristin: The University of Tampa

What does Global Agriculture really look like? Meeting the World's Greatest Challenge

After having the opportunity to attend the 2014 World Food Prize in Des Moines IA students from the University of Tampa were provided with a broader view of what agriculture truly looks like across the globe. The topic of the conference, offered in honor of the great agriculturalist Norman Borlaug, was meeting the World's Greatest Challenge: How will we sustainably feed 9 billion people by the year 2050? The answer lies specifically in developing geographic areas across the globe and the empowerment of women and youth. This presentation will offer an overview of the panelists, recommendations, and innovations presented at this global conference and brief the perspective of a current student looking to create a social enterprise to meet the needs for a global green revolution.

Bryant, Rachel; O'Connor, Angeli; Pearce, Daniel & Spano, Samantha Lyn: University of North Florida Honor's Program

Goals and Challenges of Refugees in the Jacksonville Area

Jacksonville, Florida has one of the largest refugee resettlement populations in the United States. As such, some local non-profit agencies have reached out to the University of North Florida Honor's College to help them better serve the refugees in the community as they adjust to life in the United States. Part of this service project included Institutional Review Board approved interviews with a sample population of Jacksonville's refugees from all over the world. The questions emphasized the goals and challenges that they face in the United States. Our primary objective was to uncover trends within the refugee's answers. We analyzed their responses to discover common themes across several perspectives. These results have and will continue to be used by the non-profit organizations to provide more tailored services. The Honor's College will continue to gather research in the coming years, as this study becomes longitudinal, to better assist the refugee population.

Fletcher, Jarret Noah: Valencia College Seneff Honors College

Syria, Standard Oil, and C.I.A. State Builders

The American relationship with Syria has been a unique one. It has its origins in what has been dubbed the "American Great Game". This was a time in which the colonial influence on the Middle East were fading and the United States government sought to expand its influence into the region. During this presentation we will discuss the role of President Woodrow Wilson's policies, Standard Oil (specifically the purchasing of Syrian land), and the Central Intelligence Agency's covert actions in the region. Delving deeper into how this impacted the American and Syrian relationship, impacted the Arab-Israeli War, heightened the stakes of the Cold War, and created the foundation of many of the United States modern allies in the Middle East. The Syrian Civil War has been a focal point for news agencies specifically since the rise of the Islamic State, this research will allow for the background to understand the Syrian-American Relationship, as well as the beginnings of a long history of Syrian Dictators.

Jackson, Ian; Moers, Kelsey; Brown, Alaina & Cavanah, Coleman: Honors Program Polk State College

The Relationship in Selected Economic Trends between Florida's and the Nation's Economy

This study evaluates how the Florida economy compares to the economy of the nation as a whole. Through our research we found that the Florida economy is linked to the national economy in several ways. We will present data that support this connection between the two economies, as well as demonstrates some of the primary differences between them.

Sa⁵¹turday - S⁷⁴ession 1

9:00 am - 9:50 am

Marlin

Brosnan, Erin Brooke: University of Tampa

Scientific and Environmental Literacy at the University of Tampa

Scientific knowledge and perceptions a society holds affect the handling of scientific issues. At the University of Tampa a study was conducted to evaluate the perceptions and knowledge of of students in the community. The initial results from the survey's first round show the majority of students, regardless of major, have a strong basic scientific knowledge. Many students on campus understand the threat of environmental issues, yet are under informed on environmentally friendly campus initiatives. This survey will help the University make changes to assure that students are knowledgeable on subjects, so they can make better choices for out future.

Camero, John James: University of Tampa

Pakistan's Nuclear Proliferation Capabilities

This presentation analyzes the necessity of nuclear proliferation for the state of Pakistan, through a four-stage process which 1) describes the nuclear history, 2) explains the nuclear concerns within the international community, 3) examines the proliferation means of the country by using a cost-benefit analysis, and 4) finally suggests possible future policies for the state of Pakistan. This presentation will be conducted in a secondary analysis format by analyzing various academic sources such as peer-reviewed articles, scholarly journal, and academic books, with a focus around the nuclear proliferation ramifications that the A. Q. Khan network created during the Cold War and its substantial effects on the international community. This presentation will also address religious and border issues that have long existed between Pakistan and India.

Caires, Holly Maria: University of Tampa

Breakthroughs in Animal Prosthetics: How are they affecting the psychological health of animals?

Recently there has been a breakthrough, known as Animal Orthocare, for prosthetists and veterinarians in the field of veterinary medicine. Animal Orthocare provides all types of new and innovative devices to help animals, both wild and domestic, overcome major injuries that affect their well-being. The research focuses on how these prosthetics affect both domestic and wild animals psychologically. This is important because many animals, especially those in the wild, are not used to being dependent on prosthetics. However, it has been shown that these animals adapt fairly well to using prosthetics to help carry out daily activities, such as walking and swimming, and even eating. Whether or not these new ways of helping injured animals helps improve their lives now needs to be studied and examined.

Foote, Nicola, Coughlin, Richard & Kelly, Sean : Florida Gulf Coast University

Adapting the Great Books to the Globalized World: Creating a Core Humanities and Social Science Curriculum for First-Year Honors Students

This paper describes and evaluates the development of an integrated core curriculum in the humanities and social sciences for all first-year Honors students at Florida Gulf Coast University. In response to emerging best practices we sought to establish a rigorous and comprehensive First Year Experience in which students received grounding in the history of human thought, while gaining insight into the major questions of the modern world. We took the Great Books curriculum as our foundation, but updated this to be more globally inclusive, so that texts from Asia, Africa, Latin America and the Caribbean are considered alongside the more conventional Western canon. These materials are team-taught by faculty from a range of humanities and social science disciplines in an integrated course sequence ranging from 6-9 credits. In this paper we share the challenges and outcomes of this approach, as well as the impact it has had on shaping humanities and social science research among FGCU students.

Saturday - Session 2

10:00 am - 10:50 am

Caribbean

Curtis, Nathaniel Price: Jacksonville University Honors Program

Coral Reef Preservation through Macroalgae Control

Zooxanthellae are experiencing increased competition from macroalgae as a result of eutrophication. The increased macroalgae population inhibits photosynthesis of the zooxanthellae, subsequently affecting the symbiotic relationship that exists between zooxanthellae and coral polyps. This ultimately leads to coral bleaching. To prevent this destruction, we attempted to selectively control macroalgae growth within reef ecosystems in one of two ways: (1) reduction of soluble reactive phosphorus and dissolved nitrogenous compounds; or (2) deactivation of the accessory pigment chlorophyll b. The latter is based on the notion that if chlorophyll b is hindered, the algal photosynthesis and growth may be hampered while zooxanthellae, which utilize chlorophyll c, will remain unaffected. Albeit extremely preliminary, such research is warranted as the extent of eutrophication continues to rise.

Isern, Sharon: Florida Gulf Coast University

SEA-PHAGES: An authentic science discovery experience for first-year Honors students at FGCU

In affiliation with the Howard Hughes Medical Institute Science Education Alliance Phage Hunters Advancing Genomics & Evolutionary Science (SEA-PHAGES) program, first-year FGCU Honors students participate in a year-long research course designed to provide an authentic science discovery experience. The course uses a student-centered learning approach, is inquiry based with fully integrated research experiences that emphasize active learning strategies, teamwork, communication, and peer-review using real-world scenarios. In the first semester, students isolate novel viruses from environmental samples, name them, characterize them, and prepare their genomes for sequencing. In the second semester, students annotate the genomes, develop independent research bioinformatics projects to study aspects of phage biology, and publish the annotated full-genome sequences in the National Institutes of Health genetic sequence database, GenBank. Students present their research at local, state, and national conferences. A 2013-2014 post-course survey of 498 SEA-PHAGES students nationwide showed high student estimates of learning gains and learning benefits.

Jeffrey, Melissa: Valencia College Senneff Honors College

The Effects of Canine Predation on Gopher Tortoise Populations

Field research at a local wildlife rehabilitation center, Back to Nature Wildlife Refuge (BTN) in Orlando, Florida, indicates that dogs are a legitimate threat to certain wildlife species, including the gopher tortoise (*Gopherus polyphemus*). 43 Gopher tortoises were admitted to BTN in 2013, seven of which were injured by dogs. Of these, two survived to be released, and one was transferred to another facility (outcome unknown). BTN admitted 52 gopher tortoises in 2012, eight of which were injured by dogs. Only four were released, one was euthanized, and three died. This research focuses on reviewing the effect of domestic animals on wildlife populations, touches on medical rehabilitation with emphasis on the gopher tortoise, a threatened species in the southeastern United States. Keeping dogs on leashes not only protects wild animals, but also keeps dogs safe from disease contamination that is possible with contact with wildlife.

Maniya, Raj; Taylor, Mark: College of Central Florida Honors Institute

Synthesis of the aggregation pheromone of the brown marmorated stink bug

Recent research into synthesis of the aggregation pheromone of the brown marmorated stink bug (*Halyomorpha halys*) has interested researchers at the Florida Department of Agriculture in Gainesville, Florida. The two molecules (shown below) that have been identified as the main components of the male-produced aggregation pheromone are (3S, 6S, 7R, 10S)-10,11-epoxy-1-bisabolene-3-ol and (3R, 6S, 7R, 10S)-10,11-epoxy-1-bisabolene-3-ol. Recently a synthesis has been found that can be used to make the entire family of 8 stereoisomers of 10,11-epoxy-1-bisabolene-3-ol. When tested the mixture was found to be attractive to the stick bug as long as it contained the two molecules mentioned above. The brown marmorated stick bug is an invasive pest from Asia that has become well established in the mid-Atlantic region of the United States. The stick bug consumes many types of crops and has caused significant damage. The Florida Department of Agriculture along with many other agencies is in urgent need of a monitoring tool and these two pheromones are good candidates. The goal of this project is to provide a sample of the pheromone mixture to the Gainesville group. The honors students at the College of Central Florida will have the opportunity during the Spring 2015 semester to synthesize parts of the pheromone with an emphasis on providing a sample of the complete synthesis to the Gainesville group of the Florida Department of Agriculture. This multistep reaction will involve weeks of attention but the necessary equipment is available. Some of the starting chemicals will be provided by the Florida Department of Agriculture.

Sa⁵¹turday - S⁷⁴ession 2

10:00 am - 10:50 am

International

Callahan, Courtney Nicole & Dr. Adrienne Willson: The University of Tampa

Teacher Leadership in Public Secondary Schools

The concept of teacher leadership has increasingly become embedded within the language of education. Extensive research and literature suggests that teacher leaders are critical in reforming schools. This emerging notion has begun to change the face of leadership within schools. According to Pamela Angelle and Corey DeHart, teacher leaders are instrumental in maintaining focus on student learning, seeking lifelong learning for themselves, using facilitation and presentation skills, engaging others in shared vision and meaning, developing and maintaining relationships, and working with a sense of integrity. The purpose of this study was to explore benefits and challenges of teacher leadership in public secondary schools. Common key dimensions of teacher leadership were examined in order to identify the roles, responsibilities, and levels of influence amongst teacher leaders. The implications of this research will inform school leaders about the importance of teacher empowerment as a mechanism for school improvement, growth, and success.

Gabel, Taylor: The University of Tampa

Notability

Technology use in the classroom has fostered learning by bringing education to life. iPads in the classroom are providing students with creative ways to organize ideas and be successful in the future. This interactive technology makes learning more engaging and memorable by providing students with an entirely new visual, auditory and hands on type learning. Specifically, **Notability** is an application most commonly found on the iPad, iPhone, and Mac, that can powerfully integrate handwriting, PDF annotation, typing, recording, and organizing so students can take notes their way! This application benefits all types of learners ranging from Elementary Level to College Level. Notability allows students the ability to record audio, sketch ideas, annotate documents, complete worksheets, highlight notes, and much more.

Grier, LaNijah: Florida A&M University

Educating African American Boys

Students who are read to daily have a stronger vocabulary and stronger social skills, and they score higher on standardized tests. Statistics show that African American males score lower in reading compared to girls and other races. This in turn leads to higher drop out rates, lower test scores, and a loss of interest in school. Providing books in the classroom that appeal to African American males and informing parents of the importance of reading to their children, especially those in primary grades, can decrease the negative statistics African American males face. There are other strategies that can help African American boys maximize their full potential in the classroom, such as: Letting them be more physically active, creating hands-on learning activities, preventing the elimination of recess as a punishment, and reducing out of school suspension.

Ukabi, Eric: Seminole State College

Sex Education in America

With no significant decreases in the transmission of sexually transmitted infections and the desensitization of teen pregnancy, American society has not succeeded in educating its children in the most crucial of areas—sex. There's no doubting the application of sex in the mass marketing apparatus. The entertainment industry is laden with sexual content which, for the most part, does not escape the attention of adolescent youth. With regards to sex, pop culture is more aligned with and representative of habits suitable for adults rather than grade school children. Consequently, constant consumption of such material does not breed sexually responsible youth. This is an issue that can, by all means, be tackled by our educational system in a manner that is responsible and respectful of all parties involved.

Sa⁵¹turday - S⁷⁴ession 2

10:00 am - 10:50 am

Tampa

Fitzgerald, Kelly J: University of Tampa

Censorship of Off-Broadway Theater in the 1960s

Sexual experimentation. National controversy. International conflict. Marginalized people demanding to be heard. Long hair. What do all of these have in common? They were hallmarks of the 1960s and are expressed in art – particularly performance art – from that era. Censors naturally reacted to "loosening morals" in society as expressed through these artistic endeavors. Cases of censorship define what society believes is permissible and what is condemned. By examining three Off-Broadway theater productions from the 1960s, I will provide insight into censorship's role in reflecting and shaping morals in America during this time of societal upheaval

Kohuth, Kristina & Wallace, Brittany: Harriet L. Wilkes Honors College

Study Abroad in Honors Education

Study Abroad programs in an Honors setting can open doors to other worlds that one just cannot experience behind the doors of a classroom. Traveling also allows for personal and professional growth through networking and scholastic education. When it comes time to choose, though, there are so many options that the process can be quite overwhelming. Our presentation will look at a multitude of Study Abroad forms to offer possibilities and ways to make a selection based on what an honors student may want to gain from his or her Study Abroad experience. Topics discussed in the presentation may include, but are not limited to, helpful resources, such as websites, that may be useful in gaining a more comprehensive perspective on the possible geographical locations to be visited; the importance of education in Study Abroad programs; and both the benefits and any drawbacks of participating in this type of program.

Luter, Gary: University of Tampa

Applied Knowledge: An Opportunity for Honors Students

Three tiers of applied knowledge exist within the framework of the University of Tampa's Honors Program, at the first-year experience level, at the intermediate level and finally at the senior cap-stone level. With a new Quality Enhancement Plan being initiated next year, there will be a new campus-wide focus on applied or experiential learning. What will be the impact on our Honors Program? Although the future is uncertain, we can and should speculate on various possible scenarios.

Merritt, McKenzie: Florida Atlantic University Honors College

The Benefits of Publishing Negative Research

The issue that I am choosing to address is the lack of published negative research. When researchers collect data, they usually only publish results that are significant. This is good for the scientific community and helps aid in furthering research of the scientists' respective field. Often, however, the research that is not significant, or the "negative research" is not published. This is a downfall of science today as when these results are not published, other scientists use valuable time, energy and resources completing these experiments that have already proven to be insignificant. I would like to raise awareness of negative research in a positive light and speak to the importance of negative research journals.

Saturday - Session 2

10:00 am - 10:50 am

Orlando

Bhatt, Amy: St. Petersburg College

Tactical Victory: Anti-Suffragists vs Suffragettes

With the rise of woman suffragists in the mid-nineteenth century came the subsequent rise of anti-suffragists. Surprisingly, however, many of those who opposed woman suffrage were women themselves. In fact, in a letter written to the editor of the New York Times in 1873, one woman maintained, "for every one woman who desires the vote, there are ten [at least] who do not wish to do so." But with so much opposition, why was it that the anti-suffragists lost this battle? It all came down to their tactics. While anti-suffragists were genteel and dignified in their approach, a method consistent with the nature of women (Marshall 352), suffragists were more radical and militant. Though diametrically opposed in their strategies, I believe it was essentially the extremist approach of the suffragettes that ultimately resulted in the ratification of the 19th Amendment.

Johnson, Hunter: Seminole State College

Conflict Between National Security and Freedom of the Press

Since its inception, the United States Government has had to find a balance between preserving the security of its citizens and protecting the freedom of the press. While the first amendment requires congress to make no law abridging the freedom of the press, the preamble establishes that one of the fundamental purposes of the government is to provide for the common defense. What happens when the two come into conflict? This presentation will look at times of conflict between national security and freedom of the press, and how that conflict has been resolved.

Sims, William: University of North Florida

An Analysis of Refugee and Immigrant Establishments in Jacksonville

My colleagues and I have continued our research on the local establishments of refugees and immigrants of Jacksonville. We have mapped out almost 200 establishments, and have begun to analyze geographical patterns dealing with financial, demographic, and crime distributions. From this analysis we can conclude many aspects about the refugee and immigrant communities in our city.

Taylor-Riccio, Kia Lyn & Folk, Christy: Wilkes Honors College, Florida Atlantic University

Breakdown of the American Dream: Inequities in Class Mobility

Breaking socio-economic boundaries in the United States has become increasingly difficult for Muslim Americans. Countless individuals come to the United States dreaming of equal opportunity, however the land of opportunity can be inordinately unequal. The renowned "American Dream" applies to remarkably few citizens. The challenges the average American has achieving a mediocre standard of living far outweighs the difficulties faced by citizens of other advanced nations. Socio-economic mobility among lower class is bleak, the likelihood of any man or woman rising out of poverty is exceptionally uncommon. If that individual is of Middle Eastern decent, his or her chance for upward mobility is virtually stagnant. After the September 11th attacks, Muslim Americans faced an onslaught of persecution and injustice that still reverberates through American culture. Evidence for this discrimination presents itself via the already inadequate mobility of the American lower class as well as blatant partiality within communities and workplaces.

Sa⁵¹turday - S⁷⁴ession 2

10:00 am - 10:50 am

Skyline

Lemke, Dustin & Jimenez, Anthony: Hillsborough Community College

Breaking Boundaries in the Classroom

Once a course is designed, it is often easy to defend its foundation and find little to change over many terms or even years. Using Honors education as the laboratory for a variety of traditional pedagogical applications, the model presented here turns the classroom experience upside down. Unlike the flipped classroom, instruction is handed over to students, proving to be a valuable tool in today's learning environment. More than ever, the classroom is a place of experimentation and group dynamics. Using proven examples, Professor Lemke and HCC student, Anthony Jimenez will walk participants through the variety of ways students can teach one another with the guidance of a mentoring professor.



Sa⁵¹turday - S⁷⁴ession 2

10:00 am - 10:50 am

Dolphin

Magnuson, Kane: St. Petersburg College

MUN: Our experience in Washington D.C.

We will discuss what we did at the NMUN Washington D.C. conference. We will also discuss the nation we represented, how we were able to work well with others, and what makes a true difference in the world of diplomacy. Lastly, we will give the audience a chance to feel what it's like to be a part of a real United Nation's simulation.



Saturday - Session 3

11:00 am - 11:50 am

Caribbean

Maxwell, Jacqueline: Honors Program at Jacksonville University

Vibrio in Jacksonville Tributary Oysters

Vibrio are bacteria that naturally inhabit brackish bodies of water. The purpose of this study is to enumerate *Vibrio* bacteria and determine whether three of the pathogenic *Vibrio* species (*V. parahaemolyticus*, *V. cholerae*, and *V. vulnificus*) are in collected oysters harvested from tributaries in Jacksonville, Florida. Meat from the oysters was homogenized with Alkaline Peptone Water to enrich *Vibrio*, and most probable numbers were calculated to be approximately 24,000-43,000 *Vibrio* bacteria per gram of oyster tissue. Thiosulfate Citrate Bile salt Sucrose agar, a selective media for many *Vibrio* bacteria, was used to isolate colonies. Polymerase chain reactions were initiated to amplify DNA from selected most probable number tubes. Specific DNA sequences were targeted using *Vibrio* 16S rRNA primers and *Vibrio* toxin primers and gel electrophoresis was performed to visualize the DNA. *Vibrio* were detected in all oyster samples and *V. parahaemolyticus* was also found.

Miller, Avery James: Broward Honors College

Humans impact the environment Marine life management

The purpose of our project is to raise awareness of how severely our trash is hurting the environment, and consequently the animals that live in it. The majority of our trash gets dumped in the ocean and get caught in the five major ocean gyres around the world. Majority of humans' daily lives are not directly affected by the trash that they produce, and so it is difficult for them to realize the damage it is causing to the world. Our project will inform others and open their eyes to this catastrophe. Many of our marine life is being shortened by the trash we humans needlessly deposit in the habitats of the sea. We humans have a history of littering and now it's effecting the lives of animals that regulate their environment. Unfortunately, the ocean has become the ultimate dumping ground for civilization. Having successful beach clean ups and raising money to make our donation to the Gumbo Limbo Nature Center is our goal in this service project. We want to support the Gumbo Limbo Nature Center, and help them in their journey of saving aquatic life as much as possible. we hope to have encouraged and motivated people, changing their perspective of beaches, they are not just for lounging and having fun... our beaches are homes to many aquatic animals and they deserve to have long lives and a healthy environment to share with their families as well. 250 million tons of trash is discarded each year by Americans. Even though much of the garbage is hauled to landfills, a large amount makes its way into the natural environment. Plastic items become intestinal blockages; fishing lines entangle the limbs of animals which, hinders movement and causes dismemberment; and aluminum cans with leftover soda or beer turn into razor-sharp traps. Litter is an indirect killer, and we would like for our audience to become aware of how litter effects the animals.

Miser, Jaimie: University of Tampa

Genetic Hearing Loss and Possible Gene Therapy

Hearing loss is the most prevalent sensory disorder in the world but it is the least understood until recently. People are beginning to understand the causes of hearing loss, since scientists had discovered mutations in different genes that correlate to hearing loss. One specific gene that is the most common to have mutations is Connexin 26. What is interesting about Connexin 26 and another Connexin is that they are heterozygous mutations as this is shown in two different families. From there, it was discovered that there is a difference between single amino acid substitution and a null protein. Both affect the structure of the ear but under different conditions. Now that more is understood about what affects the ear, there is research being done on gene therapy to cure hearing loss without using assisted hearing devices.

Oliver, Joy: Seminole State College

Breast Cancer Metastasis

We wear pink ribbons, participate in fundraisers, raise awareness, promote prevention and early detection, and are winning the battle against Breast Cancer. Or are we really? For there, in the corner of the room of Breast Cancer, stands the true enemy. Breast Cancer does not kill; it is the metastasis of Breast Cancer that is fatal. In this presentation, you will be introduced to Metastatic Breast Cancer, understand the shortcomings of the current situation, and become aware of what you can do to truly make an impact.

Sa⁵¹turday - S⁷⁴ession 3

11:00 am - 11:50 am

International

Bond, Jonna: The University of Tampa

The Social Psychological Impact of Burning Heretics at the Stake

As an obsolete manifestation of the death penalty, the burning of heretics served to maintain the conformity of individuals and the social cohesiveness in the populace of Europe. For the centuries in which the mode was used, authorities utilized three notable methods: that in which the heretic is chained to the stake with iron hoops, that in which the heretic dies from suffocation, and that in which a noose or bags filled with gunpowder are tied about the heretic's neck to quicken the process of death. The use of the death penalty for the crime of heresy served to encourage the conformity of individuals to the masses, influence dependency on or support for the church (in any given country), increase the social cohesiveness of the group or populace, and desensitize the public to gruesome acts carried out under penal premises.

Ocampo, David Sanuber: Florida International University

An analysis on the decline in the authoritative powers of the Papacy and its application to challenges to authoritative powers faced by the permanent membership of the UN Security Council

The structural power of the Papacy in the Roman Catholic Church and the permanent membership of the UN Security Council, the P-5, are unique from the Concert of Europe or the League of Nations, in that they possess strong authoritative power. Both organs owe their strong authority to a need for stability: The Papacy with a weakened Western Roman Empire and the P-5 in the post-WWII world. While the P-5 still possesses similar authoritative powers within the Council as it did after WWII, the historical authoritative power of the Papacy within the Church was debilitated so much that by the time of the Reformation, condemnations of practices within the Church itself were not effective. This paper will analyze major challenges to the authoritative powers of the Papacy, from the Investiture Controversy to the beginning of the Reformation, and compare the analysis to challenges affecting the authoritative powers of the P-5.

Quattrochi, Anthony: The University of Tampa

The Catholic Spin: Methods Employed to Maintain an American Hegemony

"An attack on our way of life" "The War on Christmas" The religious right are a talented group skilled at inciting fear and maintaining the order they deem appropriate for a "moral" American society. To the sympathetic, their views may seem misguided but harmless. To the unaware, the group may come off as of genuinely fear-driven individuals sharing their beliefs. Upon a detailed examination however, the rhetorical methods, word choice, and censorship of the opposition are cold calculated moves executed to maintain social order and uphold "traditional values". This presentation will examine the idea of a traditional American ideal and the manipulative lengths those in power will go to in order to preserve that ideal.

Wiersma, Hope Marie: Broward College

Is God's Power Absolute and Arbitrary? Movements that Revolutionized Religious Freedom

The summary of my presentation is about the movements that revolutionized religious freedom in America, during the eighteenth century. The movements that I will be discussing are the Enlightenment, Pietism, and Great Awakening. All of these movements contributed to the spread of different forms of religion, their tolerance, and subsequent acceptance. The important figures that will be mentioned are John Locke, Nicolaus Copernicus, and Isaac Newton. Also, informative facts about how their famous works influenced these movements. I will also discuss how the Declaration of Rights and the Declaration of Independence, in how it paved the way to enforce religious freedom in America.

Sa⁵¹turday - S⁷⁴ession 3

11:00 am - 11:50 am

Tampa

Campos, Mauricio & Campos, Miguel: Indian River State College

Terraforming Mars: The Potential of Endolithic Microorganisms

This research explores the Endolithic microorganism communities found in the Antarctic Desert that survive under extreme conditions. Similar conditions like the Antarctic Desert are also prevalent on Mars, with the exception of an atmosphere composed of 95% carbon dioxide. Dr. E. Imre Friedmann, an astrobiologist who researched this community of endolithic microorganisms, concluded that its ability to photosynthesize makes it a potential solution to terraforming Mars for human colonization. Endolithic microorganism communities live underneath porous rocks, protecting it from potentially harmful conditions on the surface. In addition, said communities photosynthesize carbon dioxide into oxygen gas, expelling heat energy used in the process to the surrounding soil. In final analysis, this microorganism community would safely photosynthesize oxygen as well as increase the soil's temperature, which could convert the planet Mars to become suitable to sustain life.

Jackson, Taylor: University of Tampa

Society's Role in Schizophrenia

Schizophrenia is a mental disorder marked by delusions and hallucinations. The general public sees people suffering from this serious disorder as "crazy", "violent", or "dangerous". However, only a small portion of people who suffer from schizophrenia have delusions that cause them to hurt themselves or others. In the 1960s and 1970s there was a movement to quickly release patients from mental hospitals which caused many patients to go without proper care and support. As a result, many schizophrenics are now homeless or in prison. This presentation highlights the ways in which we can reduce stigma towards and promote healthy social interactions with this group of people. Focus will be on symptoms, causes, treatments and ways in which society can help schizophrenics get the help they need without being stigmatized.

Light, Michael: Seminole State College

Leadership through Gaming

There are many methods to effectively teach leadership concepts. One such method includes the use of team-oriented online video games. Certain online games, such as League of Legends, require effective teambuilding, communication, and leadership skills for success. For example, League of Legends is a team-take over and opposing teams base. Activities done at leadership conferences often group the participants together and present them with a challenge to overcome in order to test and develop their ability to promote effective teamwork. However, to a greater extent than the typical activities performed at a leadership conference, many online games present the players with challenges that test their ability to communicate and work effectively as a team. The Leadership through Gaming Club was founded on the premise that effective leadership skills could be taught through the use of certain online games and strives to facilitate the development of leadership skills through online gaming.

Lisina, Ganna: St. Petersburg College

Roller Coasters: From Junkies to Phobics

The majority of people love roller coasters. I want to explain why from human biology/psychology point of view. At the same time, some people don't like the rides. Why? I hope to find an answer by doing scientific research and conducting my own survey through the SPC e-mail system, if I can obtain an official permission.

Sa⁵¹turday - S⁷⁴ession 3

11:00 am - 11:50 am

Orlando

Cruz, Yanelle Valeria: Broward College

Social Integration and the International Student Experience

International students encounter a higher number of challenges when studying abroad, and this affects their academic and social development as they go through the process of adaptation. Using Vincent Tinto's theories of social integration and academic success, this presentation will apply them to the international student experience at Broward College. In his book *Leaving College (1987)*, Tinto uses Emile Durkheim's studies on suicide and applies the same format to analyze higher education dropouts. He concludes that higher education students drop out because of several reasons, the biggest being the failure of the institution to create a sense of academic and social belonging for its students. Through student interviews, this presentation will research and analyze how Tinto's theories apply to Broward College and what the institution does for its international students to ensure their academic and social success.

Hurtado Torres, Patricia: Broward College

Modern Slavery: A new globalized reality of an old problem

This presentation intends to create awareness about human trafficking in our society. The presentation will explain how trafficking in persons is a serious crime and a grave violation of human rights. Every year, thousands of men, women and children fall into the hands of traffickers, in their own countries and abroad. Almost every country in the world is affected by trafficking, whether as a country of origin, transit or destination for victims. The presentation will give a background about the history and evolution of human trafficking, types, statistical information as well as some clips about testimonies from victims of human trafficking. The presentation also counted with the participation of a law enforcement officer to whom we interviewed to know the reality of human trafficking in our community, specifically in Broward County.

Kenney, Kristy: Seminole State College

Human Sex Trafficking

When most people hear the words human trafficking they think of something that they saw in a movie. Many also think a third world country. The truth is that human trafficking is the fastest growing industry within organized crime with half of its revenue coming from industrialized nations. Nations like the U.S. However, not only does this scourge happen here in America; it happens right here in Florida. In fact Florida is one of the leading states for this horrific crime. Yet all it takes to combat this pandemic evil is to simply become aware.

Lampe, Nicole M.: University of Tampa

The Importance of Racial and Ethnic Relations Studies in Academic Institutions

There are complex social processes between different groups as they struggle to maintain their own cultural and ethnic identity, while they also attempt to assimilate into the broader, mainstream American culture. This presentation will encourage collegiate Honor students and educators to participate in ethnic and racial studies concerning the relationships between diverse groups. It will demonstrate that multiculturalism and diversity are key components in maintaining a healthy and simulating academic atmosphere. The goal of the presentation is to encourage others to embrace identities other than their own and to celebrate cultural differences.

Sa⁵¹turday - S⁷⁴ession 3

11:00 am - 11:50 am

Skyline

Madan, Brigitte: The Honors College at Miami Dade College

Beauty for Ashes

This summer I spent my time researching and developing a body image and self-esteem workshop called Beauty for Ashes. It is a six week program focusing on making beauty a source of confidence and not anxiety. The idea began with a statement from a student during a discussion on self-esteem. He was asked to describe three things he liked about himself, his response was: "There is nothing good to like about myself." As these words left his lips I saw how our community has caused the youth to see themselves in such a negative light and I was inspired to do something.

This workshop session will be a concise overview of the six week Beauty for Ashes workshop. It will touch upon the topics of body image and self-esteem, the outside influences that can affect these ubiquitous issues, and ways to develop and maintain a healthy level of confidence.



Sa⁵¹turday - S⁷⁴ession 3

11:00 am - 11:50 am

Dolphin

Christensen, Erik; Hawker, James; Becker, Mariana; Darder, Nicole; Gergen, Gary & Swofford, Patrick: South Florida State College

"Introduction to Astrobiology: The Search for Life beyond Earth."

Four students, with their professors, will present on the Fall 2014 Honors Seminar at South Florida State College, "Introduction to Astrobiology: The Search for Life beyond Earth." Erik Christensen and Dr. James Hawker will describe the innovative pedagogy of this interdisciplinary capstone course, which used the "flipped classroom" to promote undergraduate research at the two-year college level. Presentations by students on their research projects will follow. Mariana Becker will ask: "How could comets have contributed to the origin of life on earth?" Nicole Darder's theme will be "The trip to Mars and its effects on humans." Gary Gergen will outline the impediment to manned space exploration posed by galactic cosmic rays, and Patrick Swofford will discuss the potential for terraforming the planet Mars.



Sa⁵¹turday - L³uncheon

12:00 pm - 1:30 pm

Grand Ballroom

Lunch

Keynote Address

Ana-Paola Capaldo, FIU Honors College Alumna



Ana-Paola is Assistant General Counsel of Global Ethics & Compliance at Laureate Education, the world's leading higher education provider with more than 75 universities in 29 countries across the Americas, Europe, Asia, Africa, and the Middle East.

Ms. Capaldo is responsible for assisting with the full range of activities associated with implementing and maintaining the ethics & compliance program of the Company, with a focus on anti-corruption activities and regulatory issues. She is also responsible for the implementation of a broad-ranging anti-corruption compliance program, including policy development, risk assessment, training delivery, communication, controls, and auditing, as well as due diligence protocols for third party agents and consultants and acquisitions.

Formerly she was with the Miami-based boutique compliance firm MDO Partners, where she focused on corporate law, global compliance, and business ethics. Ms. Capaldo has represented clients on a variety of corporate and compliance matters internationally, including Russia, Brazil, Argentina, Venezuela, and Spain. Ms. Capaldo has represented a broad range of clients in various sectors, including the hospitality, medical device manufacturing, luxury goods, restaurant, commercial printing, automotive, and technology industries. Her experience in the area of compliance includes developing codes of conduct, conducting assessments of existing programs, and implementing full-scale anti-corruption and business ethics programs. Ms. Capaldo also drafts corporate policies and procedures to ensure compliance with regulations including the FCPA, the UK Bribery Act, OFAC, records management protocols, data privacy, and conflict of interests.

Prior to law school, Ms. Capaldo worked at the United States Department of State in the Office of Foreign Missions (OFM), where she focused her work on compliance with federal and international treaties and regulations in the consular community and assisted in coordinating logistics during the aftermath of the earthquake in Haiti. Ms. Capaldo has traveled extensively throughout Europe and Latin America, is a native Spanish speaker, and is fluent in Italian.

She received her law degree from the University of Notre Dame Law School and completed her undergraduate studies in English Literature at Florida International University. During law school, Ms. Capaldo worked on a micro-venture consulting team which provided an expansion strategy and legal advice to various innovative enterprises including the revitalization of a historical theater into an environmentally sustainable mixed-use property. Ms. Capaldo also drafted an amicus curiae brief submitted to the Inter-American Court of Human Rights (IACHR) in the case of *María Isabel Véliz Franco v. Guatemala*. Ms. Capaldo is a Supreme Court of Indiana CLEO Fellow, and served as Secretary of the Hispanic Law Students Association and Academic Chair of the Black Law Students Association at Notre Dame. She was a visiting scholar at the University of Bocconi School Of Law in Milan, Italy and worked at the St. Joseph County's Public Defender's Office in South Bend, Indiana.

In the community, Ms. Capaldo is an attorney with the Venture Law Project, which provides free legal help to startup ventures and tech entrepreneurs and is a member of the Doral Business Council. She also serves Legal Guardian at Miami Cerebral Palsy and has served as a volunteer with His House Children's Home.

Sa⁵¹turday - S⁷⁴ession 4

2:00 pm - 2:50 pm

Caribbean

Drake, Hunter: St. Petersburg College

Picasso and Dali-Comparative Research Into Cubism and Surrealism

The students researched similar topics and themes by Picasso and Dali through online inquiry, a viewing of the Picasso/Dali exhibit at the Dali Museum and a field trip to the Leepa/Rattner Museum to view the Picasso Guernica. The Picasso/Dali exhibit, a landmark event, featured rarely loaned works from more than 20 international art museums and private collections worldwide pairing these two legendary artists.

Each student contributed to defining Cubism and Surrealism as well as specific works to compare and contrast. Further comparative research was conducted on the theme of Las Meninas of Velazquez and comparing the versions of Picasso and Dali.

Pollard, Anna Alicia: University of Tampa

Differences between the male and female brain

Differences between the male and female brain will be examined with a focus on the makeup of the brain and how it affects males and females differently during puberty and adolescence. Male and female brains will be compared for similarities and differences in order to determine how the brain affects personality development and growth in boys and girls.

Roberts, Breeann Nichole: University of Tampa

Nature and the Artist: An Analysis of the Ecological Accuracy of Sesshu Toyo's "Flowers and Birds of the Four Seasons"

In Japanese Zen paintings, it is common practice for artist to closely observe nature to help achieve enlightenment. This presentation looks into the ecological accuracy of one such work by Sesshu Toyo, a notable artist from Japan's Muromachi period, and discusses the level of biological and ecological observation the artist went through in the creation of this work. The analysis is composed of an identification of each organism portrayed in the painting. Characteristics such as habitat, behavior, and range of habitat of each specimen are then compared against how they are portrayed in the painting.

Sa⁵¹turday - S⁷⁴ession 4

2:00 pm - 2:50 pm
International

Balyshova, Johan & Sobczynsyn, Anna: Broward College

Magical Power and Scientific Revelation: From Mysterious Witchcraft to the Great Enlightenment

When it comes to witchcraft, it is usually associated with something abstract, fictional and unreal. However, back in the 17th century, people did truly believe in supernatural powers and considered witchcraft as a product of devil worship. In our presentation, we will give you a thorough insight to witchcraft in America. In particular we will focus on the Salem witchcraft hysteria that took place in 1692. First of all, we will provide you with a brief history of American witchcraft, then we will concentrate on two different perspectives of Salem witchcraft, and at the end we will explain why witchcraft trials started to disappear.

Witch hunt was not a peculiar aberration that burst out of nowhere, but it was a result of 17th century attitudes and problems. It existed throughout all the British colonies; however, New England was a place where the accusations of witchcraft occurred on a much greater scale. To understand what happened in Salem in 1692, it is really important to realize how the world and the interplay of natural and supernatural phenomena were viewed by English colonists and Puritans in particular. There are many perspectives explaining why hysteria occurred, however what got our attention the most were two different approaches. The first one is an economic and social approach, while the other one is a biological perspective.

The enlightenment age changed the way people started to perceive the world. Enlightened people stressed the importance of science, education, republican government, and civilization. As a result of all the enlightenment transformations, society has become liberal and republican, and whether or not people believe in witchcraft is no longer relevant.

Fitzpatrick, Cassidy: University of Tampa

Do you believe?

When Bigfoot is mentioned it is generally dismissed as a mythical creature that is used by con men to make money or only believed in by crazy people. However, historical stories from around the globe prove that Bigfoot is more than a hoax of the past few centuries. This research discusses how incarnations of Bigfoot have influenced cultures around the world for thousands of years and the specific events that turned Bigfoot into the creature we know today.

Nelson, Luke Matthew: Broward College

Marginalized Voices in Literature

The marginalized group of Africans within American have contributed to the American Culture through keeping their identity apparent with a distinct voice. Such a voice that is apparent in the science, technology, literature, and oration. When other groups tend to remain culturally isolated within the American Culture, the marginalized group of Africans have poured into the economy and the state of America with a voice that was once marginalized. The specific focus of the essential question, how have marginalized groups (women, ethnic or racial minorities) contributed to American Culture? Will focus on how African Americans made their voice known, recognizable and overall distinct. Today, their voices are evident, but my essay will trace back this specific marginalized group's voice through the use of literature. Another portion of my research, will make evident the obstacles that these marginalized groups had to face in order to get their voices heard; one evident obstacle being that of slavery. All of these trials and tribulations are evident in the writings of Booker T. Washington, the speeches of W.E.B. Dubois, the fictional novel of Harriet Beecher Stowe's Uncle Tom's Cabin, and the meaning of human rights in the Revolutionary period as defined by Thomas Paine.

Viloria, Juaurin Lourdes: Broward College

Education's Unfolding's: Evolution of knowledge in the 18th century

Broward College has tried to create new ways to adapt critical thinking in the classrooms and for educational planning, but did you know the intellectual roots of critical thinking are as ancient as the vision of Socrates 2,500 years ago?

Education has always been imperative even before we knew it was necessary for interaction in society. Therefore, the 18th century's scientific method brought with it a new emphasis on our potential to understand our world, our universe, and ultimately transform society. Concepts I will be discussing are from the philosopher John Locke, and includes that all knowledge was ultimately based on information received from the senses; sight, hearing, taste, smell, and touch.

Sa⁵¹turday - S⁷⁴ession 4

2:00 pm - 2:50 pm

Tampa

Maasarani, Latifah; Boyette, Carl & Rechtman, Thomas: Seminole State College

Physics of a Roller Coaster

This presentation discusses the forces acting on a rider inside the loop of a roller coaster. Engineers design roller coaster loops to resemble a tear drop shape, called a clothoid, over the design of a perfect circle due to its constantly changing radius. This presentation intends to further analyze how the changing radius is more comfortable for a rider than the constant radius of a perfect circle.

Quiroga, Jason Manuel: Miami Dade Honors College

Formulating R2D2

For our project, we decided to observe the Immaculata La Salle High School Robotics team, "Bosco's Bots". We helped them implement mathematical processes during both autonomous and driver-controlled periods for their First Robotics competition. We will show how specific algebraic and geometric methods can improve and advance the precision and accuracy of a robot's hardware and software.

Sample, William: Wilkes Honors College, Florida Atlantic University

Quantifying Newton's Gravitational Constant

Since Henry Cavendish's initial calculation of gravitational constant "G" using a torsion balance, the accuracy of the numerical value has changed by a very minuscule amount in the 200 years following the discovery. This presentation will discuss the history of the original experiment, analyze the effectiveness of a torsion balance calculation by today's standards, and discuss why after so much time a significantly higher degree of accuracy has yet to be achieved. Additionally it will analyze this constant's overall applicability in modern physics.

Visman, Davis: Jacksonville University

Performance Comparison of Programming Languages to Analyze Big Data Sets

The goal of this research was to determine, when analyzing big data text files, the advantages of different programming languages, including faster processing time and lower memory usage. Compiled and interpreted languages were used; compiled— C#.NET, Visual Basic.NET, and C++; interpreted— Python, Perl, Ruby, and Lua. An algorithm we implemented in each language searches a big data text file for target words, which, upon finding, stores the preceding, the target, and the succeeding words for analysis, then displays a count of the number of times each target, preceding, and succeeding words appeared. The algorithm also keeps track of its running time and memory footprint. The conclusions of this research gives future developers a benchmark for which language might be best for their specific goals.

Sa⁵¹turday - S⁷⁴ession 4

2:00 pm - 2:50 pm

Orlando

Manolov, Prudence: Seminole State College: Honors Institute

"Coming Out" from Behind the Ladies' Locker Room Door

Studies regarding homosexuality and sports have revealed that homophobia is still prevalent for female athletes in today's society. In order to understand the concept of why homophobia still exists in women's sports, this dissertation will examine significant paradigms focusing on sexism towards gay athletes and the passing of Title IX of the Educational Amendment in 1972, a federal law that forbids discrimination on the basis of sex in any federally funded education activity or program. I will examine past and present openly gay players as well as their future marketability once they have disclosed their sexual orientation to the public.

Navickas, Nova: Honors Program Polk State College

McDonaldization: Good for you or good for them?

From birth to death, all areas of social life are affected by the process of McDonaldization. This process involves rationalization concerning the least expensive method to produce a product or service with emphasis on quantity at expense of quality. Additionally, theoretical and historical background and opinions from credible experts are included. Characteristics and examples of McDonaldization and its effects on our lives are explored and analyzed. Methods for reducing the negative effects are provided with emphasis on our powers as consumers.

Nayab, Rida: Seminole State College

Inequality in the American Workforce

Contrary to common belief that women are equal to men in the workforce, women continue to face inequality as it persists in American society and business ethics, withholding American women from further growth. Discriminatory factors include: physical appearance being a determinant in the hiring process, less training opportunities and promotions for women when compared to men, the persistent pay gap, and limited childcare and maternity benefits in the United States. Recognizing and distinguishing working women's inequality in American society and business ethics is crucial to reprimand increasing of this behavior and attitude.

Rodriguez, Tania Michelle: Alternative Smoking: New Threats of the 21st Century

Alternative Smoking: New Threats of the 21st Century

Tobacco is a popular past time among many people and has origins before the Columbian era. However, with increased awareness of cancer and other illnesses related to tobacco, there has been a shift towards smoking alternatives. This has caused hookah and e-cigarettes to become increasingly popular as an alternative. Since both hookah and e-cigarettes are so new to our modern society, there are no existing regulations by the federal or state governments. While research about hookah and e-cigarettes is still emerging, evidence has shown that hookah is just as harmful as cigarettes. While e-cigarettes are less dangerous than traditional cigarettes, they still pose a risk and have the potential to act as a gateway.

Sa⁵¹turday - S⁷⁴ession 4

2:00 pm - 2:50 pm

Marlin

Rinker, Melynda: Polk State College

And Five Were Hanged

In the late 1800's in Pierce, Idaho five chinamen were hanged for putting brass in their gold. Mystery, horror and stories of the past make up this presentation.

Segura-Carlson, Monica & Fitian, Feda

Killing in the Name of God: Jihad, Islamic Doctrines and the Modern Revolutions of the Arab World

For several centuries Islamic religion has been misunderstood and misjudged by many western cultures. And particularly after the events of September 11th, 2001 in the United States, the only concept of Islamic Jihad Americans recognize is the fundamentalist one. Besides that, the fact that radical views of Sharia Law and Jihad have been the grounds to many other terrorist attacks, blood-stained revolutions and intense wars, makes the situation even more controversial. However, it is important to realize that there is a traditional and ideological perspective about Islam that is not generally taught on this side of the world. The main purpose of this presentation is to analyze the historic connotations and the different existing interpretations of Islamic concepts to better understand the impact that they have produced in both the Eastern and the Western world.

Trifoi, Bianca: Florida Atlantic University

North Korean Leadership Styles in Ceausescu's Romania

This presentation will analyze how the Communist regime of Nicolae Ceaușescu in Romania (1965-1989) was directly influenced by the regime of Kim Il-Sung and Kim Jong-Il of North Korea. It will focus on the various ways Ceaușescu implemented North Korean methods of rule into his own rule after his visit to the country in 1971. It will draw from firsthand accounts of Ceaușescu's personality cult and megalomania, which were directly inspired by the personality cult of the Kim dynasty in North Korea, as well as compare historical and ideological texts produced by each regime. It will also explore possible explanations of why Ceaușescu's regime fell during the Romanian Revolution in 1989 while North Korean rule, even harsher and more oppressive than the former, continues to exist to this day.

Sa⁵¹turday - S⁷⁴ession 4

2:00 pm - 2:50 pm

Dolphin

Roberts, Katie-Lynn; Uteg, Jimmy III; Mecier, Veronica; Sanchez, Jennifer; Berner, Lars; Quinn, Colleen; Cronin, Brianna & Roberts, Breeann: University of Tampa

Battle of the Bras (workshop)

The annual University of Tampa's Honors Council's Battle of the Bras is a campus wide event to raise awareness, support and funds for the Moffit Cancer Center to aid in the fight against breast cancer. The event includes a runway show of themed bras designed by and representing on campus organizations and individuals as they battle for first place. The H.C board and committees plan, organize and run the event each year in October to coincide with Breast Cancer Awareness month. This presentation will focus on the event planning of the Battle, the history of the event at U.T and the benefits of hosting such an event for such a good cause.



Sa⁵¹turday - S⁷⁴ession 5

3:00 pm - 3:50 pm

Caribbean

Stamos, Sarah Lynn: Harriet L. Wilkes Honors College of Florida Atlantic University

Medicinal Plants in South Florida

Many species of plants can be used for medicinal purposes. Florida itself contains many species of plants that have been classified to aid in medicinal purposes. I am going to be studying native plants in South Florida that have medicinal purposes and then investigate if these plants are currently in natural, or preserved, areas of South Florida. If areas of South Florida are being protected, then surely native plants that have medicinal value should be incorporated.

Vidal, Helen Caridad: The Honors College at Miami Dade College

Where The Wind Things Grow

During our service learning project, we performed an experiment to determine which cleaning product, Windex, Ology, Alcohol, or Clorox would work best on the bacteria Staphylococcus aureus. We also participated in a microbiology lab experiment, in which students were analyzing the growth of bacteria. The first experiment helped us understand the scientific process used to select a cleaning product that may stop the growth of bacteria. The second one gave us the opportunity to observe a concert application of exponential growth models in biology. We also went to Immaculata – La Salle to share our findings from the laboratory to the students.

Wilson, Jacob: University of South Florida

Collegiate Pharmacology: A study of the Neurology of College Drugs

In this presentation, we will be going over how various drugs affect the human brain. I will focus on Caffeine, Marijuana, and Adderall. I have chosen these three substances because they all three are extremely prevalent on college campuses, and their effects are typically confined to the Central Nervous System. I will be presenting what is currently thought about their interactions in a way that people from any discipline can understand the presentation.

Wheeler, Shellian: Florida Memorial University

HIV And AIDS

HIV and AIDS continues to be a significant disease in the world, especially in America. Although individuals who have acquired the disease are living longer, there is still a cause for concern because more individuals are being diagnosed with the disease at a higher rate than previous. This presentation will discuss some prevalent issues today surrounding HIV and AIDS.

Sa⁵¹ **turday** - **S**⁷⁴ **ession 5**
3:00 pm - 3:50 pm

International

Bass, Arielle & Bradford, Stacey Rayanne: Jacksonville University Honors Program

Exploring Experiences of First Semester Nursing Students: Journaling as a Means to Reduce Stress and Anxiety

Purpose: to evaluate anxiety levels before and after introduction of journaling in Baccalaureate Nursing students. The design involved a convenience sample of summer BSN students randomly assigned to experimental or control groups and given notebooks to journal or take notes, respectively. A pretest-posttest design with Beck's Anxiety Inventory (BAT) and Draw-a-Person-in-the-Rain (DAPR) and weekly writing was used over 12 weeks. Data were collected anonymously and reported as aggregate data. The pretest-posttest data and demographics were analyzed using paired t-test analysis, a regression line, and Chi-square tests through SPSS software. Results: no statistically significant data. DAPR was found to have no correlation with BAT scores. Further research may note possible correlation between note taking and anxiety reduction among the nursing student population.

Braddy, Mariah: Honors Program Polk State College

There's Someone In My Head But Its Not Me

This presentation is a combination of how the unconscious pulls more weight in our decision making than we think and how our conscious mind makes the ultimate decisions. I want the audience to realize that when you think of something or come up with an idea, that idea has been processed in your unconscious for a long time and it was finally pushed to the forefront. Similar to a bill being, or trying to be, passed in congress.

Bushong, Kayla: Seminole State College

Emotional Rape

The topic of emotional rape is one that has not been discussed even though the incredible amount of personal testimony is staggering. People who have been emotionally raped were involved with a narcissistic person that uses the higher emotions of a person to get what they want. Once the narcissist is done with the person they will leave and the wake of pain in the aftermath is almost life ending. Even though these people are hurting with symptoms similar to those who have been physically raped, they are not willing to seek treatment because the rapist has made them feel worthless. This presentation will discuss the various parts of what emotional rape is, and why this generation needs to be the forerunners in researching this topic as the stigma of having a mental disorder continues to fall.

Clarke, Phabian: Broward College

Untamable Consumption: The Struggle Against Thyself

Post-Traumatic Stress Disorder (PTSD) is a phrase that is frequently mentioned during times of war. We tend not to pay any attention to PTSD because of the fact that we are civilians living a relatively peaceful life, or so it seems. PTSD is commonly confused for uncontrollable outburst of rage and violence. There are many other unfortunate events that stem from PTSD. such as depression, anxiety, and suicide. It is a common misconception that only people in the military are prone to be consumed by PTSD. Anyone could fall victim to PTSD, even me. My presentation will consist of detailed web-research, physical research, and an analysis of what it is and what it is like to be consumed by PTSD on American soil.

Sa⁵¹ **turday** - **S**⁷⁴ **ession 5**
3:00 pm - 3:50 pm

Tampa

Bacchus, Nazeer Nathaniel: University of Central Florida: Burnett Honors College

Gender Bending: Queer Theory in Renaissance Drama?

Is it possible draw upon twentieth century studies in queer theory to analyze a closet-drama published by Margaret Cavendish in 1668? This paper aims to answer this question, re-examining Cavendish's *The Convent of Pleasure* from a post-structuralist lens to illustrate the breaking of gender binaries, subversion of patriarchal hegemony, and shattering of heteronormativity—all which enforces women of the time period into marital constraints as asexual and chaste devotees to their husbands and to male desire. Despite never being performed, the play boasts a grand theatrical style that houses performance and gender performativity within the confines of its matriarchal space: a convent for single women to escape the ills of patriarchal oppression and fall in love with one another. It is in these walls where homoerotic fantasies come to life, women dress as men to perform plays satirizing the institution of marriage, and the only male able to penetrate this space is a cross-dressing prince turned princess, who plays the part of same-sex lover to the convent's matriarch. The end result is a satirical polemic aimed at the patriarchal expectations of gender and sexuality, where the destabilization of these expectations and constraints on women through performance show how arbitrary and tenuous they are—making this, perhaps, not only proto-feminist, but also embryonic of what queer theorists would develop into a cultural movement.

Clay, Hannah Lanier: Jacksonville University

Autonomy and the Need for Nurture

In this project I posit that Kant's fixation on pure rationality at the expense of emotions and strict adherence to social contract ensure that deontological ethics fall short of the mark of true morality, because they allow Kant's moral system to ignore certain key aspects of human life. Namely, Kant does not adequately address the issue of unequal relationships, and he presupposes a world in which individuals have been adequately nurtured and cared for without acknowledging the need for nurture or the women who have traditionally provided this care.

Dougherty, Ryan: Jacksonville University

Identity: Adapting Relation R through Confucianism

The philosophical issues surrounding identity have spurred numerous ideas and attempts at defining what the self is. Previously, I have examined identity and came to a conclusion, one with which I now disagree. I believe that a Confucian approach to Identity, which holds the self to be something that arises out of a societal context, combined with ideas from others, can remedy the issues that arise when looking at the reductionist version of identity posited by Derek Parfit. A social idea of identity is not only compatible with what Parfit says, but fixes the issues that arise through his thought experiments. In examining the Chinese concept *ren* one can see how identity arises out of the Confucian context. Upon reaching a sort of synthesis of the two theories, my previous paper will have been refuted and a more social view of identity will be put forth in its stead.

Saturday - Session 5

3:00 pm - 3:50 pm

Orlando

Abreu-Figueroa, Alexandra: Jacksonville University

Salsa! Development of Salsa in Spanish Harlem

Salsa? Salsa is an important part of any country in Central and South America as well as the Caribbean. In Spanish, salsa literally means "sauce", but salsa is an extensive term for the music and dance of various Latin-American countries. When the term "Salsa" was first introduced in East Harlem, or Spanish Harlem, in New York during the 1970's, it was initially rejected by experienced artists who had already been producing music, which was essentially Afro-Cuban in origin. As the term began to gain popularity, New York became a beacon for Salsa music in the U.S., especially with the success of Celia Cruz and Hector Lavoe. The goal of this research is to provide information on the development of Salsa Harlem, specifically focusing on Salsa's origin, influences, instruments, migration to America and elements from other genres.

Cohen, Mathew Alexander; Wilder, Alexis; Fatigate, Richard; Daron, Derrian; Villaquiran, Janeth & Byrne, Kevin : Broward College

Hands On With H.E.L.I.X.

A Current popular trend in Colleges is to establish groups of students that live and study together. The Aim of these groups is to improve the quality of education at the university and to better the lives of members of the community and college. These communities are often called Living Learning Communities or LLC's. As Broward College has grown they also have a similar version of these LLC's. Our group is known as the Honors Experience Leadership In eXcellence (HELIX). Although as a group we don't live together we due share 2 classes in the fall semester and 3 in the spring. Throughout this program we are learning Skills that will help us be leaders in not just our field of study but also in our communities. One of the tasks we have is to perform a Service learning project. The goal of this project was for us to independently perform a work for a charity or cause within our local community while implementing what we learned in our classes. Our Class of 13 was split into two groups each allowed to freely choose what we wanted to do and how to execute the project.

We arrived at our group project when we learned that a member of our group had been a longtime volunteer for meals on wheels. During his service he knew of an elderly woman whose husband had recently passed. As a result her house had fallen in disrepair and she had little in the way of assistance to clean her home. As a group we thought that not only would this be a reasonably attainable goal but we would also have a chance to make a change that would greatly impact a member of our community. We believed that we didn't want our project to be just raising funds but to involve hands on work as well. From there we called our team's project The Hands on With HELIX. Our panel will not only outline what work we did but as well will show how other Honors programs can easily make a difference in the community. The panel will also explain how we used knowledge from our leadership and public speaking courses to come together and accomplish this project. Our group also hopes to inspire projects that involve more than raising money for donations. We want people to see how they can implement a positive change even if it requires investing their time for a cause.

Dindial, Lee-Vaughn Mathew: Broward College Honors Institute

Expression of Self

On June 18th, 2014, Ganiel Gizachew and I decided that it was time to change the way we use social media. We decided to start the trend of writing one expressive post daily. As we expressed ourselves, we encouraged others on social media to join us. Participants in this movement slowly reveal who they are by becoming comfortable enough with their thoughts and emotions to share them. Over time, an active community of expressionists was established. I realized the true impact of this movement on 11/20/14, when I attended the funeral of a person who joined this cause. I felt the loss that day, because although we were friends for years, I only truly met her 132 days before her death, when she started writing. I would like to present this movement because it is a worthy cause to use social media in this context at least once a day.

Pressler, Charlotte; Reitnauer, Christian & Whiteman, Dylan: South Florida State College

Flagler, Disney, Baudrillard, and the Archives: In-Depth Undergraduate Research in an Honors ENC 1101

The Honors version of Freshman English I at South Florida State College introduces first-semester Honors students to serious undergraduate research in the humanities. Through self-directed research projects on Florida themes, students learn to synthesize primary and secondary sources and reflect critically on their research. The course uses "flipped classroom" pedagogy and sponsors a service-learning project in a local museum's archives. Dr. Charlotte Pressler, Honors Director, will describe the course framework. Christian Reitnauer will present "By Land and by Sea: The Construction of the Florida East Coast Railway," focusing on the engineers, laborers, mechanics, Caribbean boat pilots, Italian steelworkers, and Greek divers who hacked their way in harsh conditions, through swamps and across islands, to build "Flagler's railroad." Dylan Whiteman will mobilize the work of Richard Fogelson and Jean Baudrillard to critique both the Disney Corporation's business dealings with the city of Orlando and its embellished, distracting hyper-reality.

Sa⁵¹turday - S⁷⁴ession 5

3:00 pm - 3:50 pm

Skyline

Boegershausen, Lori & Trombly, Sydney: Florida Gulf Coast University

The Community of Honors

Florida Gulf Coast University's Honors Program focuses upon creating leaders and a community of support. This presentation will highlight how the creation of honors' events allows students to achieve their maximum potential, not only in honors, but also in other realms of student life. Surveys, polls, and data have aided in the understanding of how students vigorously connect or do not to the community. The implementation of a communal atmosphere has proven to be difficult, but with the proper legislature from the student senate it has become highly effective.



Sa⁵¹turday - S⁷⁴ession 6

4:00 pm - 4:50 pm

Caribbean

Lowrey, Olivia: Palm Beach State College

Hey Baby! Come Watch My Presentation: Street Harassment on College Campuses

This paper explores the topic of street harassment, a damaging social behavior involving strangers (most commonly men) harassing individuals in a public setting. Through an exploration of motives, harms, and solutions, this paper addresses a gap in the literature: street harassment among a college population. Although street harassment is a detrimental social behavior and is psychologically damaging to women, college students have become desensitized to the harms that street harassment imposes on college campuses. The majority of sources used in this paper were contemporary academic works on street harassment, supplemented with personal research which includes two interviews and a survey of college students attending Palm Beach State College. This paper first defines street harassment and provides background information on the subject, then explores the motivations of men who commit street harassment, applying this information to a college setting. Generally, men seem to street harass to impress upon women that they belong in the private sphere. Next, the psychological harms to those who are victims of street harassment and some of the consequences these harms pose to the college atmosphere and population are explored including negative self-image, and an uncomfortable learning environment. Finally, solutions are presented with suggestions for application on a college campus including the validation street harassment as a problem, raising awareness, and encouraging men and women to solve the problem of street harassment together.

Mitchell, Andrea: Florida A&M University

Trauma Among Adolescents

Trauma among adolescents is at an all-time high. There is not enough attention being brought to this serious matter. My presentation will focus on adolescents' reactions to traumatic experiences and how to be alert of adolescents who have experienced trauma. Also, it will define and describe situations that may be traumatic to a child, including sexual abuse, death of a peer or loved one, and abandonment.

Williams, Ashley: Seminole State College

Post-Traumatic Stress Disorder

Post-Traumatic Stress Disorder is an anxiety disorder that one experiences after an ordeal that comes as a physical threat of life or harm such as a car accident, rape, abuse, or military experience. This disorder dates back to 1550 B.C. in Egypt. The disorder emerged in America following the civil war when a lot of military soldiers were returning home with cognitive and functional impediments. This presentation will inform of the who, what, when, where, why, the history, and the treatments of this disorder to bring about a better awareness for this disease that many people are suffering from.

Sa⁵¹turday - S⁷⁴ession 6

4:00 pm - 4:50 pm

International

Gross, Rachel Leigh: Indian River State College

The Representation of Female Strength in Literature

Literary representations of female strength mirror the variety of women's social roles. From ancient texts to early nineteenth century novels, bold female characters frequently appear as either monstrous or insane or confined by the domestic sphere. Characters that did challenge rigid gender roles were often demonized in critical review and labeled as feminists. More modern female characters, however, reveal changing norms and reflect a more empowered femininity. This essay analyzes the arc of shifting representations of female strength by examining the works of Sophocles, Jane Austen, and Veronica Roth. Female characters grow stronger and louder with each passing decade, portraying female strength as a feature to inspire and praise.

Loreth, John: St. Petersburg College

The Persistence of Memory

I met a girl at the FCHC conference in Palm Beach. She was beautiful: dark, curly hair, a unique style, and eyes that seemed to see through to my center. I didn't get a chance to know her as well as I would have liked during that weekend, but her memory lingered long after the conference ended. We were together again at the Southern Regional Conference in Savannah, but alas, reality rarely resembles a Shakespearean sonnet. Still, when I returned home, I couldn't get her off my mind, nor put down my pen. I will be reading my acclaimed "The Scent of Savannah," and other poetry birthed during this flurry of creation.

Prestage, Sarah: Honors Program Polk State College

Lies My Teacher Told Me: Heroification and Other

This presentation utilizes ideas from Chapters 1 and 7 of James W. Loewen's book, "Lies My Teacher Told Me: Everything Your American History Textbook Got Wrong" to demonstrate the importance of avoiding the creation of glorified heroes but to, instead, illustrate them realistically. The presentation will use Helen Keller and President Woodrow Wilson as examples. Also emphasized is the importance of learning the truth about social-class and how ignorance of social-class, as a mediating factor, can lead to "blaming the victim". In the end, the goal is to explain why textbooks continue these misconceptions, partly due to the norm of avoiding certain taboos.

Stubbs, Alyssa: Jacksonville University

Grammar Goes Pop: Lessons From A Grammatical Analysis of Contemporary Billboard Top 40 Songs

This project investigates the grammatical properties and salient diction of popular song lyrics and their rhetorical effects, including social implications. The research sample, consisting of the choruses of the Billboard Top 40 pop songs as of May 4, 2014, serves as a proxy for current public taste. Choruses were diagrammed using the Reed-Kellogg system, classified according to the ten patterns Koln identified, and analyzed according to such features as sentence complexity, verb type, and recurring nouns. Among researchers' observations is the prevalence of simple structures, Pattern VII sentences (subject-transitive verb-object), and love as a theme. In addition, nearly half of all sentences begin with "I," "you" or another vocative, or an imperative. A body of academic literature helps inform conclusions as to the implications, both pedagogical and social, of identified grammatical structures and vocabulary.

Sa⁵¹ **turday** - **S**⁷⁴ **ession 6**
4:00 pm - 4:50 pm

Tampa

Conner, Shannon: Seminole State College of Florida

Parents and Adult Children, Breaking the Barriers of Estrangement

This paper examines the alarming prevalence of estrangement between parents and their adult children. Today, this unfortunate familial breakdown is approaching epidemic proportions. The anatomy of interpersonal conflict between parents and their children ages eighteen and older will be provided. Contributing factors such as the technical age, outdated expectations, lack of understanding concerning new boundaries, and undefined new roles inadvertently lead to personal goal interference and disequilibrium for both the parent and the adult child. Explored further will be simple new habits parents can develop to maintain or repair their relationships with their children.

Fronek, Franklin Richard Jr: Broward College

Taboo Sex and Relationships

This presentation intends to create awareness of the vast diversity around the world of marriage and relationships. We will start with the history of miscegenation in the United State, and how we have drastically changed as a society. Many cultures have prearranged marriages with children getting married in pre-teen years. We will compare divorce statistics between traditional "American/European marriage" and arranged marriages. The presentation will also cover pygmalionism with a filmed interview with Dr. Art Silva.

Over the last 20 years people in developed countries are using silicone dolls to have relationships. Some psychologist are actually recommending this for people with handicaps like quadriplegics and amputees. They say that the love instinct in a human can be satisfied just like having a relationship with a real human. We will look at several examples of this in the United States and other countries.

McMahan, Joseph & Pokorski, Kathleen: University of Tampa

Abortion and the Supreme Court

A history of United States Supreme Court decisions that have shaped current legislation on abortion is presented, starting with Griswold V Connecticut (1965) and moving all the way through to Planned Parenthood of South Eastern Pennsylvania v Casey (1992) — the case with judicial authority on the issue. This presentation details and describes the facts of the cases, outcomes, written opinions and the application of their principles on current abortion cases such as those being challenged in Texas and North Carolina courts.

Rohan, Rachel: Wilkes Honors College, Florida Atlantic University

A Young Adult's Guide to Dating

Dan Ariely's Predictably Irrational: The Hidden Forces That Shape Our Decisions uses behavioral economic experiments and psychological concepts to reveal how frequently people do not act rationally, despite assumptions of rationality made in research and daily life. Furthermore, he details how people act inconsistently irrational manners, or "predictably" irrational. His discussions regarding influences of the decoy effect, loss aversion, and market vs. social norms on people's decision making processes are applicable to dating or relationships, particularly those of college students. After exposing common irrationalities of college relationship issues, suggestions can be drawn from a survey of literature from Dan Ariely, Erik Agner, Richard H. Thaler, and Cass R. Sunstein to change our behaviors through decision making. Using these combinations of psychology and economics research will potentially better lives and increase happiness in relationships and beyond.

Sa⁵¹turday - S⁷⁴ession 6

4:00 pm - 4:50 pm

Orlando

Ball, John Ph.D.; Hash, Amanda; Pacini, Rachel & Capshaw, Daniel: Hillsborough Community College Honors Institute

Breaking Diversity Boundaries in British History

This panel will focus on examples of breaking boundaries in gender, religion, and class relations in British history using three points of time for historic reference. The first example will be Elizabeth I's rise to power in the 16th century in spite of the patriarchal standard of the society. The second example will illustrate Britain's history of class oppression that was strongly challenged during the English civil war and continued beyond the restoration of Charles II. The third example includes the violence that stemmed from British oppression in Ireland when the act of union in 1800 exacerbated tensions between Catholics and Protestants. By pushing against these boundaries of oppression, people were able to challenge the status quo throughout British history.

Gale, Zacchari David: Jacksonville University

What We Create Speaks: Studying the Cultural Landscape of Glasgow, Scotland

This year, the world witnessed the famous, friendly culture of Glasgow, Scotland at the 2014 Commonwealth Games and MTV Awards. This research answers the question, "What does the cultural landscape, that is, the visible landscape created by humans, say about the culture of Glasgow?" Based on Peirce Lewis' axioms for studying cultural landscapes, this study included a three-month residency in Glasgow, photography, and two interviews with notable residents. By posting the city's popular new brand, "People Make Glasgow," on their downtown building, City of Glasgow College showed its staff's belief that the city's special culture pervades its large educational sector, too. Also, the Scottish national flag is not commonly seen in the Glaswegian landscape, except when associated with Scottish independence. This reflects Scotland's issue of national identity. Finally, this study found that rebuilding the city's slums has been successful in alleviating the historic, violent subculture.

Nash, Rebecca: Valencia College

Out of Africa: Between the Rwandan Genocide and Conflict in the Congo

Hutu expansion following the Rwandan Genocide has become the direct catalyst to gendercide and armed conflict in the Democratic Republic of Congo. Since the end of 1994 genocide, Hutu insurgents have fled Rwanda, attempting to evade prosecution and have established themselves as militant rebels in the Congo. The reaction of the regional community to this incursion spurred the Congo Wars, fueled by Hutu rebels funded through the illegal trade of conflict minerals. Since the 1994 Rwandan Genocide, the Congo has suffered two wars and gained status as the world's most dangerous place for women, documented through instances of gendercide, armed conflict, and rape as a war crime. Through analyses of archival research concerning the influx of ethnic Hutus in relation to the increased rates of violence in the Congo, this thesis seeks to illuminate the multifaceted problem facing the Dark Continent in an attempt to find possible solutions.

Sanchez, Christian: Valencia College

What are the implications of China building a blue water navy?

Recent developments of the Chinese navy may imply a web of future foreign policy goals from one of the most rapidly developing world powers. China is too influential to be ignored by the West, and the leaders of Southeast Asia remain in suspense as to China's next move. Fallen from its historical glory, China is well aware of its past and is implementing expansionary ideology. One might say this great East Asian power is the driving force of a new era of economic development, another may state that China is simply regaining its traditional role. A blue water navy is no petty weapon, and current conflicts seem to converge on that side of the Pacific.

Sa⁵¹turday - S⁷⁴ession 6

4:00 pm - 4:50 pm

Marlin

Bosse, Lauryn: Seminole State College

Do Not Try Teenagers as Adults

In a world beset by crime, it makes sense to try juveniles as adults. After all, we as a society firmly believe that "if you do the crime, you do the time." In this light, Florida is second in the nation in sentencing juveniles to the death penalty. However, such a policy not only leads to injustice, it is downright wrong. In this presentation, I will discuss why juveniles often need a second chance.

Duque, Bryam Andres; Pappas, Devin; Leong, Jia-Jung; Beachler, Chris & Orozco, Max: Jacksonville University

An Information Indicator Based on Two Way Shape Memory Alloys

We are going to present a prototype of information indicator based on two way Shape Memory Alloys SMAs. Two way SMAs are smart materials that can be deformed when current (1-3As) is applied to them. When current is cut off, they will return to their original shapes. Different information will be delivered by this cubic information indicator to the users and notify them about certain events by changing its shape. A 3D printer was used to design and print out a two-inch cubic information indicator with five holes. Five SMAs are imbedded into five holes respectively covered by 1mm thick layers of Polydimethylsiloxane for comfortable touching. A portable power supply, a sensor, a microcontroller and a control circuit are integrated with the cubic. With this information indicator, users can be notified through either vision or haptic interface (force feedback) at times when audio or video interaction is not available.

Faris, Andrew: Harriet L. Wilkes Honors College, Florida Atlantic University

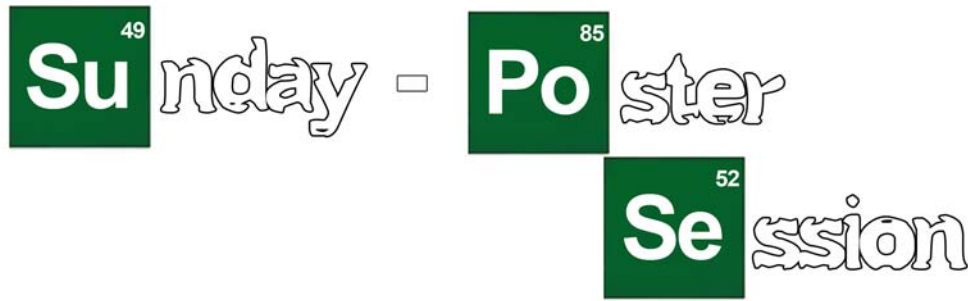
What does it mean to have patria?

Patria is a word in Spanish that means country or nation, but it can also signify one's homeland, one's people, and one's culture and identity. Spanish speakers can use it in a variety of ways. For example they can say "tenemos patria" which can be loosely translated as "we have country" or they can say "tenga patria" which is a request to hold yourself to a high standard of morality. In this presentation I will be tracing the development of the word patria over time and how the word became influenced by enlightenment era philosophy to become a positive tool for nationalism. I will also be looking at the use of the word in light of Hegel's view of the state. I will finally use the propaganda of the current progressive government in Ecuador to show how patria continues to evolve.

Jadoo, Sanjay Alex: Seminole State College

NFL Players Guilty of Domestic Violence Do Not Face Harsh Enough Penalties

My presentation will consist of sharing information about domestic violence within the National Football League and how it effects our society. My thesis is NFL players guilty of domestic violence do not face harsh enough penalties and the NFL's current penalties set a poor example for society. This is a great topic that is recent and trending in our country. Domestic violence is an invisible crime which is not brought to our attention until it's too late or the media gets involved. Breaking Boundaries is the conferences theme which I will hope to convey by strengthen the awareness of domestic violence. I believe we have to be proactive in the protection of our women and children. Players are not receiving the proper punishments as they are role models for our youths. I hope to use a PowerPoint presentation to help convey my message with a brief speech.



7:30 am - 11:00 am

Grand Ballroom

Acosta, Reinier & Cazeau, Schnaida: Florida International University Honors College

Level of awareness and the emotional attachment of the residents to the University City project

Florida International University (FIU), a public research university of 54,000 students located in Miami, recently launched a significant partnership with Sweetwater, a city of about 19,000 residents, mostly low-income Hispanics. In September 2013, FIU received an 11.4 million dollars grant from the U.S. Department of Transportation to work on necessary infrastructure work needed to help transform Sweetwater into a university city and connect it more efficiently to the university and Greater Miami. This partnership will evidently have a major impact on Sweetwater residents and it is therefore imperative to take their opinions, needs, and desires into account going forward. This research project does this, focusing on the level of awareness and the emotional attachment of the residents to the University City project. Research methods include a combination of surveys and questionnaires. Research results will shared with university and city officials to ensure that the residents' voice is included in future planning.

Bhatt, Amy: St. Petersburg College

Tactical Victory: Anti-Suffragists vs Suffragettes

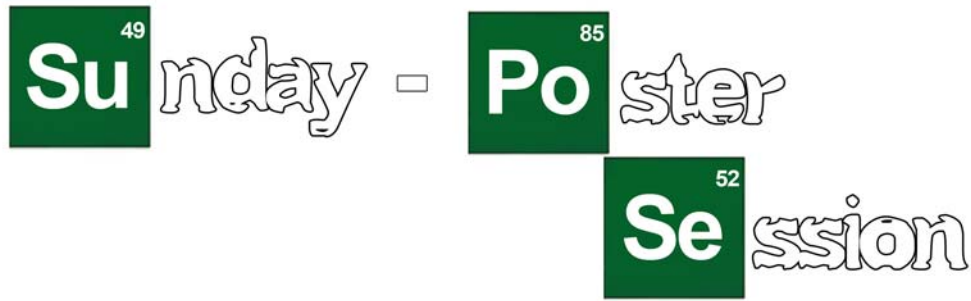
With the rise of woman suffragists in the mid-nineteenth century came the subsequent rise of anti-suffragists. Surprisingly, however, many of those who opposed woman suffrage were women themselves. In fact, in a letter written to the editor of the New York Times in 1873, one woman maintained, "for every one woman who desires the vote, there are ten [at least] who do not wish to do so." But with so much opposition, why was it that the anti-suffragists lost this battle? It all came down to their tactics. While anti-suffragists were genteel and dignified in their approach, a method consistent with the nature of women (Marshall 352), suffragists were more radical and militant. Though diametrically opposed in their strategies, I believe it was essentially the extremist approach of the suffragettes that ultimately resulted in the ratification of the 19th Amendment.

Bishop, Rachel; Gharat, Riya & Bishop, Brooke: University of North Florida

The Heart of the Matter: Identity

Jacksonville, Florida has a large population of refugees from many different countries. With IRB approval and assistance from the UNF Honors Program, we conducted interviews with 18 of the local refugees. From these interviews, we were able to gather data about refugees and their personal perception of identity. The refugee identity was composed of influences from their home country, their experiences here in America, and the assimilation process. Thus, identity was an important factor that affected the choices that they made for themselves and their family.

Our presentation will discuss influences that affect an individual's personal identity, as well as how identity affects their view of America. Additionally, we will draw connections between the American view of refugees and the refugee's view of themselves.



7:30 am - 11:00 am
Grand Ballroom

Bukovi, Kris: Broward College

Video Game Physics

My FCHC proposal for 2015 consists of a research paper that analyzes the physics behind certain video games, namely Portal. Many of the concepts studied in physics are used in video games to make them seem more lifelike, or are used with games such as Portal that actively portray physical concepts as part of the game (e.g. gravity, velocity). This project will give me a better sense of how programs create the physical laws in our world in an environment that not only doesn't have them, but is restricted to using binary numbers to do so (1's and 0's). The video game Portal goes into a greater depth by portraying what could either be described as a wormhole or teleportation. I will be analyzing the portals from Portal the video game, comparing them to the theorized attributes of wormholes and teleportation, and finally determining which the video game portals best portray.

Conner, Shannon C: Seminole State College of Florida

Emergence of the Househusband

This poster exhibits a new dynamic in long-standing familial gender roles; the emergence of the househusband. A glimpse into the family of today will be provided, and show that more and more husbands hold down the fort at home, while their wives skillfully navigate the corporate world. Explored further will be the fact that the developed western cultures in the late 20th century brought the most notable increase in this gender role switch, husbands and wives are mutually stigmatized for this non-traditional arrangement, and house husbands are having a very positive influence on their families overall.

Costellow, Kentucky: Santa Fe College

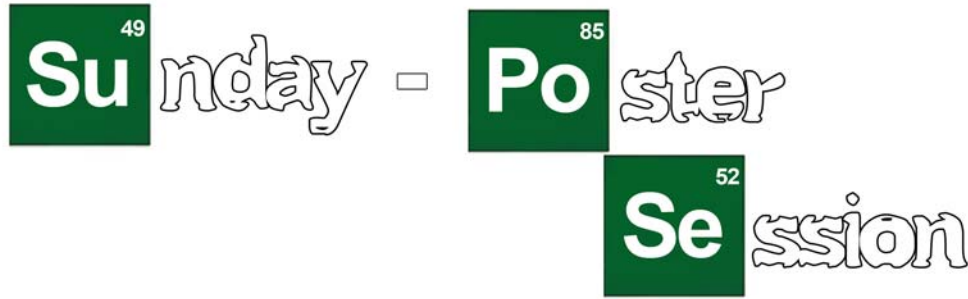
Chicha Chicas: An Ancient Feminine Tradition

Chicha--a fermented beverage made from cultivated plant materials such as yucca, corn and quinoa--was a cultural staple among many ancient indigenous Ecuadorian cultures and continues to be culturally significant in the present. Chicha production is an exclusively female sphere, in which we are able to see the role Ecuadorian women play as powerful creators, as the givers and sustainers of life.

Ellis, Cassandra; Reeves, Hannah; Yori, Santiago; Isern, Sharon: Florida Gulf Coast University

Isolation and characterization of novel bacteriophage at FGCU

Bacteriophage, viruses that infect bacteria, are the most abundant and genetically diverse organisms on the planet. In collaboration with the Howard Hughes Medical Institute Science Education Alliance Phage Hunters Advancing Genomics & Evolutionary Science (SEA-PHAGES) program, FGCU students isolated bacteriophages from soil samples. Samples were enriched with *Mycobacterium smegmatis* in 2013 and with *Rhodococcus globerulus* in 2014. Phage from *M. smegmatis* were lytic whereas those from *R. globerulus* were either lytic or temperate. Electron microscopy revealed that all *M. smegmatis* phage isolated were members of the typical double stranded DNA genome *Siphoviridae* family whereas only the lytic *R. globerulus* phage were of this family. None of the temperate *R. globerulus* phage had tails and could be members of the *Podoviridae* or *Cystoviridae* families and may have distinctly different genome architectures. These studies have given us a deeper understanding of and appreciation for bacteriophage diversity.



7:30 am - 11:00 am
Grand Ballroom

Fernandez, Carlos: Miami-Dade College

Human Trafficking: Child Labor in Plantation Agriculture and Exposure to Pesticides

Child labor is a human trafficking issue. Second only to prostitution and sexual exploitation, child labor carries a high cost in terms of human health because of injury, exposure to pesticides, lack of safety protection, etc. Seven countries and seven crops would be highlighted in this presentation-exhibit. Large tracks of land known as plantation agriculture are owned in many cases by multinational corporations. They plant and harvest crops using child labor with the acquiescence of the children's families and government agencies responsible for their protection. MDC InterAmerican Honors College students have researched these topics and have prepared a series of posters highlighting these issues according to their assigned crop and country, for a total of seven exhibits.

Floyd, Wyatt: University of Tampa Honors College

Modern Indigenous Whaling

The following is my proposal for the Florida Collegiate Honors Council. I am interested in constructing a research poster to present my findings. To further my studies in the realm of my major, International/ Cultural Studies, researching indigenous practices of pre-colonial tribes and their influences on the world today will broaden my perspective. I would like to research the Makah tribe of Washington State and their issues with whaling practices in the modern age. The conflicts that arise from intercultural globalization can be exemplified with the tribe's controversial practices. I would like to present my findings on endangered whale species and the laws and groups that protect them. It is important to view the topic with an unbiased standpoint, neither for nor against whaling. With this in mind, an in-depth analysis of the Makah tribe's whale harvest can spark new debate on the affects of globalization.

Frisina, Victoria & Hoagland-Busch, Kelsey: Florida Southwestern State College

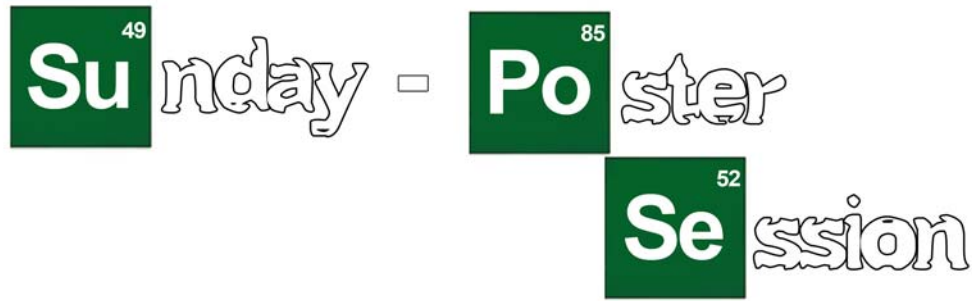
Identifying Social Drives that Relate to Chelonia mydras Conservation Awareness in La Paz, BCS, Mexico

Poaching and illegal trade of *Chelonia mydas* continues to be a worldwide conservation issue. This research aims to measure the awareness of fishing regulations and conservation efforts among the general public and the local fishing community in La Paz, BCS, Mexico. In order to achieve this goal, we conducted two similar anonymous surveys that assessed the general knowledge of these two populations. Surveys were randomly distributed to members of the general public (n=25) and local fisherman (n=11) in La Paz. The survey was designed to identify social and economic drivers than may affect their level of awareness. 91% of the fisherman population are aware that laws in Mexico prohibit the collection of eggs and poaching. However, only 88% of the general population were aware of that law. Obvious signs of dishonesty were apparent from the fisherman population when only 27% said they knew someone who poaches illegally, whereas 88% of the general population said they did. Few previous studies have been done to assess specific drivers related to sea turtle conservation and protection. This will allow for a better understanding of the social and economic drivers that fuel consumption and poaching of this endangered species.

Johnson, Allison Campbell : University of Tampa

Radically Changing the Entrepreneurial Startup Method

The Lean Startup by Eric Ries is a groundbreaking book that outlines a new method of launching radically successful entrepreneurial ventures. Ries himself defines it as "a set of practices for helping entrepreneurs increase their odds of building a successful startup." The foundation of this method focuses on five key principals: entrepreneurs are everywhere, entrepreneurship is management, Validated Learning, Innovation Accounting and the Build-Measure-Learn feedback loop. The Learn Startup process differs greatly from the traditional methods of teaching and launching entrepreneurial startups, such as the New Product Development process and the Fuzzy Front End method.



7:30 am - 11:00 am

Grand Ballroom

Lopez, Enrique: Florida Southwestern State College

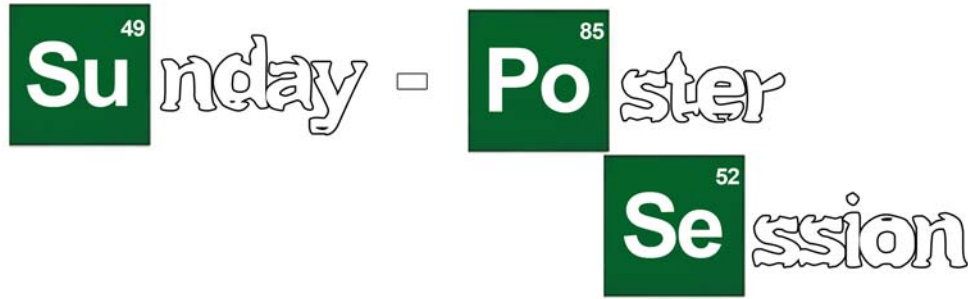
Investigating the effects of a potential parasite *Thyca callista* on *Phataria unifascialis* in the Gulf of California

Phataria unifascialis is an abundant sea star found in the Gulf of California. It is often observed with the mollusk *Thyca callista* attached to one of its rays. There is speculation as to whether the mollusk is harmful to the sea star. A primary goal of this study was to determine if there is a correlation between the size of the sea star and the length of the afflicted ray of *P. unifascialis*. Preliminary data shows that the percent of *P. unifascialis* with *T. callista* does not increase with size. *T. callista* was most prominent on stars with rays ranging from 8-8.9 cm; out of 74 stars, 6 had at least a single *T. callista* present. Secondly, we compared the presence of *T. callista* on *P. unifascialis* collected at 3 different locations, Cordoncito beach, Punta Prieta beach, and Ensenada Gallo Norte beach. The abundance of *T. callista* was highest at the beach with the most human contact, Cordoncito beach where hiking, free diving, fishing, and camping are routine. On Punta Prieta beach, there were only three sea stars found with the mollusk, and zero found on Ensenada Gallo Norte.

Matilla, Brian; Schumacher, Russ; Coniglio, Michael C. & Kong, Fanyou: Florida International University

Evaluation of WRF Forecasts of Severe Weather Environments Against Mobile Upsonde Observations from the Mesoscale Predictability Experiment (MPEX)

Improving numerical weather forecast accuracy continues to be a focal point in better understanding and predicting severe weather environments. Coniglio et al. (2013) conducted a study of thermodynamic behavior using radiosonde observations collected by the National Weather Service at standard launch times of 0000 and 1200 UTC. However, convection often develops at hours besides the standard launch times, and observations at these intermediate times are limited. The Mesoscale Predictability Experiment (MPEX) was conducted from 15 May to 15 June 2013 with the goal of determining the locations and times of additional sounding observations to most improve short-term (6-24-h) forecasts of convective storms. Using the mobile ground-based upsonde data obtained from MPEX, various thermodynamic properties of the observed environment were compared to five Weather Research and Forecasting (WRF) model ensemble members using different planetary boundary layer (PBL) parameterizations [MellorYamadaJanjic (MYJ), Yonsei University (YSU), Asymmetric Convective Model, version 2 (ACM2), QuasiNormal Scale Elimination (QNSE), and the MellorYamada-NakanishiNiino (MYNN)] from the Center for Analysis and Prediction of Storms. From the estimated 290 mobile upsondes conducted by the four MPEX teams [Colorado State University, National Severe Storms Laboratory, Purdue University, and Texas A&M University], a sample of 35 preconvective soundings were selected and compared with model predicted thermodynamic profiles. This sample was analyzed for differences in the calculated heights of the PBL, meanlayer convective potential available energy (MLCAPE), as well as a qualitative analysis of the accuracy of upsonde profiles between the observations and WRF model ensemble predictions. PBL height errors varied slightly across the five WRF model ensemble members but remained generally consistent with previous studies. The MYJ and QNSE median PBL heights were calculated to be too shallow while the ACM2, MYNN, and YSU were closer to the observed values, similar findings to the Coniglio et al. study. MLCAPE values, contrary to the findings of the Coniglio et al. study, were found to be above the median values for all five WRF model ensembles, suggestive of differences in instability between the afternoon and the standard 0000 UTC sounding time.



7:30 am - 11:00 am

Grand Ballroom

McCarthy, Lianne Brook & Bakley, Cailean: University of Tampa

Sunscreen Use and Skin Cancer Awareness among College Students

Skin cancer is easily prevented and protection against the sun is necessary to maintain a healthy lifestyle. We intend to study the use of sunscreen as well as skin cancer awareness among UT students by administering surveys to a random sample of the population. Use of sunscreen is a known preventative measure of skin cancer. By analyzing the data regarding sunscreen habits and knowledge of skin cancer among college students, we can determine their perceptions of sun exposure and its repercussions, which is especially important as we are located in Florida. Skin cancer is one of the most prevalent cancers today, so educating people on the adverse effects of sun exposure is necessary.

Moreschi, Bianca: St. Petersburg College

London Coffee Houses and the Age of the Enlightenment

What is so great about coffee houses? Aside from the obvious appeal of high-priced, unpronounceable beverages available in modern-day coffee shops, in the seventeenth century, coffee houses were meccas of significant reform in societal thought. According to *The Economist*, "coffee-houses were the centre of scientific education, literary and philosophical speculation, commercial innovation and sometimes, political fermentation" ("Internet in a cup"). The popularity of London coffee houses in the seventeenth and eighteenth centuries influenced the start of the Age of Enlightenment in the way that they brought a new beverage to the masses, emphasized social equality by rejecting prejudice, and broke down barriers to create a public sphere for literary inspiration, public opinion and public criticism to form.

Myers, Dejah: St. Petersburg College

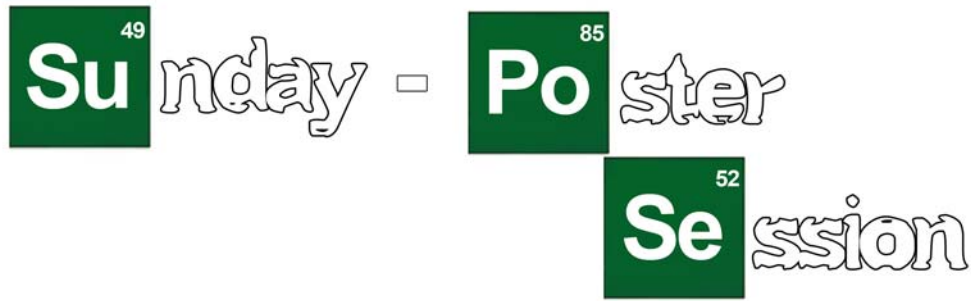
African Americans as second-class citizens following the Civil War

Presentation covers the extent to which African Americans were held as second class citizens directly following the end of the civil war. Mentioning topics including black codes, tenant farming, voting restrictions, lack of education, and the rise of the KKK. Probes the question if African Americans to truly "free" and "citizens".

O'Neil, Erin: Florida Southwestern State College

How did Hurricane Odile Affect Species Diversity of Invertebrates in Espiritu Santo Island, Baja California Sur, Mexico?

This study examines the effects of Category 3 Hurricane Odile on the diversity of the marine invertebrate community around Espiritu Santo Island, Baja California Sur, Mexico. Invertebrate abundance was documented along a random 100 meter transect in several shallow bays around Espiritu Santo. Data that were collected prior to the hurricane in Fall 2013 and Spring 2014 will be compared to that collected in Fall 2014 to assess any changes in the invertebrate community. We hypothesize that the 125 mph northwest winds of Hurricane Odile will result in a decrease of species richness, diversity, and general abundance around Espiritu Santo Island. It is likely that hurricane conditions would displace the organisms and destroy the coral bed habitats of these invertebrates. Additional ancillary data was also collected along the transect (sea surface temperature, depth, and substrate). Both species richness and Simpson's Diversity Index will be used to compare changes in the populations of molluscs and echinoderms before and after the hurricane. Preliminary results suggest that echinoderm species richness decreased from 7.5 species in March 2014 to 5 species. Mollusc diversity is generally low and species richness decreased from 2.5 in March 2014 to 1 species present in October 2014.



7:30 am - 11:00 am

Grand Ballroom

Palopoli, Annabella: University of Tampa

Bacterial Count on Numeric Keypad Locks Shows Correlation with Passcodes

Anytime someone punches in a passcode, bacteria is transmitted from their fingers to the keypad. After swabbing numeric keypad locks around my university and counting the colony forming units that grew on agar plates from samples of each number key, I found that there is a correlation between bacterial growth on certain number keys and the passcode for that keypad. This has significant implications for security, as learning the number keys on which more bacteria grow can greatly increase the chances of guessing a code.

Pappas, Devin E.: Jacksonville University

A fish robot prototype based on ionic polymer metallic composite

We present a fish robot prototype using wet Ionic Polymer Metallic Composite (IPMC). This prototype can be used underwater for different purposes, such as to monitor the underwater temperature or to explore underwater environment pollution. 3D printing technology was used to create the body of a fish robot, whereas the fins were made of wet IPMC. The wet IPMC produces an oscillating bending movement when an alternating current runs through it, resulting in the propulsion of a fish robot. Tests were first carried out to determine the mechanical properties of the wet IPMC, such as the bending displacement versus voltage and corresponding forces. An Arduino control board consisting of sensors, a data acquisition card and a GPS tracker was also integrated in the prototype. The design of the fish body considered packaging a battery pack, a microcontroller card and its corresponding circuit board in a water proof environment.

Pendergrass, Elisabeth Ann: University of Tampa

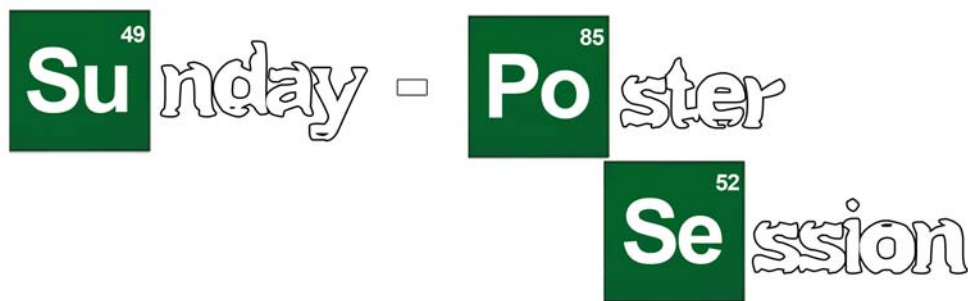
Analysis of Mating Behavior and Use of Chemical Cues in Gulf Pipefish, *Syngnathus scovelli*

While work has been done to understand the mating system in sex-role reversed species, Gulf pipefish (*Syngnathus scovelli*), the involvement of chemical cues with visual communication is unknown. By using repeated trials of three treatments, we gathered data on visual and chemical behaviors of a single female, multiple females, and multiple females with one male. There was a significant statistical difference between dorsal fin flaring, white-band color change, contact, and space use within the three groups. There was no observed significant statistical difference for the other behaviors (i.e. vertical position, aggression), but these behaviors may be more related to predation risk. In addition, IR spectrometry techniques were used to determine the presence of chemicals; although this part was inconclusive, other methods are being explored. Understanding chemical use in mate choice in gulf pipefish could lead to more studies in the field of sensory modalities used in sex-role reversal species.

Reitz, Meghan: St. Petersburg College

Defining Feminism: Challenges and Controversies

While many people think that there is one clear definition of feminism, scholars in this field continue to debate the meaning of this term. Some differences between definitions are relatively minor. On the other hand some scholars advance definitions that are diametrically opposed to each other. In the most extreme cases scholars will use their definition of feminism to exclude other scholars from being considered feminists. This research poster explores some of the major challenges and controversies surrounding the definition of feminism.



7:30 am - 11:00 am

Grand Ballroom

Rodriguez, Jesus Miguel: Broward College

Dessert of the Gods: A Chemical Analysis of Cocoa Bean Components

Is there more to chocolate than just a sweet treat? Recent studies say dark chocolate can lower the risk of heart disease, plus that cocoa is rich in anti-aging components. It has been found that these health benefits that chocolate possesses is due to its high flavonoid contents. In addition, chocolate not only tastes good and has some health properties, but also makes us feel good. Researchers have been studying the cause of the mood boost that chocolate offers and have speculated that this is due to a chemical component known as anandamide, a chemical compound linked to memory, higher thought process and overall happy feelings. A study of these prominent components found in cocoa beans allows us to understand how these chemicals interact with our body and demonstrate why cocoa high chocolate is not only a really good treat, but can also be considered to have beneficial health properties with an included mood enhancer.

Roque, Andres: Florida International University

Attention Bias Modification Treatment Effects on Children's Negative Interpretation Biases

It has been found in research that children and adults with anxiety have a bias toward interpreting ambiguous situations as threatening. This bias is thought to consequently maintain many symptoms of anxiety. An emergent computer treatment system called Attention Bias Modification Training (ABMT) has been used to try to reduce this bias. In the current study, interpretation bias is measured using the Children's Opinions of Everyday Life Events (COELE). The ABMT treatment is given to children once a week for half an hour and their answers to the COELE are recorded before and after treatment. The hypothesis is that ABMT will reduce the negative interpretation bias in children. The study is still in the collection and transcription of data phase, and will expect to have analytical conclusions in the start of spring 2015.

Velasquez, Maria: St. Petersburg College

Is Animal Experimentation Essential to Medical Development?

Every year, an estimated 100 million+ animals are used in laboratories in the hopes that such animal experimentation might advance medical developments for humans. So what is the result? Is animal experimentation an effective approach to advancing medical knowledge? Putting aside the moral issues involved with this topic, a simple question can be raised: does animal experimentation actually lead to significant medical developments? This presentation offers a review of the research related to the claim that animal experimentation is essential to medical development.

**Su⁴⁹nday - Po⁸⁵ster
Se⁵²ssion**

7:30 am - 11:00 am

Grand Ballroom

Weitzel, Jennifer & Laphitzondo, Jose: Florida International University Honors College

The Level of Awareness and Emotional Attachment to the University City Project

Florida International University (FIU), a public research university of 54,000 students located in Miami, recently launched a significant partnership with Sweetwater, a city of about 19,000 residents, mostly low-income Hispanics, located right across the university's main entrance. In September 2013, FIU received a 11.4 million dollars grant from the U.S. Department of Transportation to work on necessary infrastructure work needed to help transform Sweetwater into a university city and connect it more efficiently to the university and Greater Miami. Down the line, several privately funded residential towers designed specifically for FIU students will also be built in Sweetwater. The first one, called 109 Tower, opened its door in August 2014. This partnership will evidently have a major impact on FIU students and especially on the ones opting to live in these towers. It is therefore imperative to take their opinions, needs, and desires into account going forward. This research project does this, focusing on the level of awareness and the emotional attachment of the students living in the 109 Tower to the University City project. Research methods include a combination of surveys and questionnaires. Research results will be analyzed and shared with university and city officials to ensure that the students' voices are included in future planning.

Su⁴⁹nday - **S**⁷⁴ession 7

9:00 am - 10:00 am

Orlando

Poetry Writing Awards

John Loreth: St. Petersburg College, *Scent of Savannah*

Veronica Faison: Stetson University, *Papercuts*

Sidney Johnston: Daytona State College, *Weights we Give to Snow*

Faith Culhane: Valencia College, *Neuroatypical Protocol*

Fiction Writing Awards

Grace McKellip: Polk State College, *Miami*

Prudence Manolov: Seminole State College, *New Beginnings*

Faith Culhane: Valencia College, *The Bluehairs*

Bridgette Bonner: Broward College, *Sunny Days*

Tampa

Freshman/Sophomore Research Writing Awards

Rebecca Nash: Valencia College, *The Women's Effect: The Rwandan Genocide and the Transmission of Gendercide to the Congo*

Sarah Joseph-Alexandre: Miami Dade College, *Girl Power*

Margaret Poling: University of Tampa, *China Incarnate*

Nicole Lampe: University of Tampa, *Substantial Obstacles in Multiculturalism that Arise in Canada*

International

Junior/Senior Research Writing Awards

Alyssa Stubbs: Jacksonville University, *Belle Epoque France: Pasteurian Potential and Actual Achievement*

Nazeer Bacchus: University of Central Florida, *The Poetic, Prophetic, Messianic: Blindness and the Miltonic Voice in Book III of Paradise Lost*

Jason Cruz: Stetson University, *Moving to the Middle East: Escaping Marginalization in "Sonny's Blues"*

Alexa Danielle Grohowski: Stetson University, *Modernization with Agency: Westernization in Traditional Japanese Music*



This conference could not have been brought to fruition without the hard work and dedication of many individuals. I would like to briefly recognize and thank them for all their hard work.

First, Mr. Allen Varela, Undergraduate Research Coordinator, FIU Honors College; thank you for your everything you did in making this conference happen. Your patience and dedication do not go unnoticed!

Jorge Torres, current FIU Honors student and Pablo Currea, Internal Research Coordinator, for their help and imagination in designing the conference logo.

The amazing FCHC Executive Board, particularly to Kathleen King (FCHC President), and Patricia Jones (FCHC Treasurer), for their patience and understanding as we navigated finances, tax exemptions, deadlines, and registrations.

James Rowland, thank you for stepping up to CREATE AND MANAGE the proposal and registration pages in addition to keeping up with the entire FCHC website. FCHC couldn't have done any of this without you!

Associate Dean Juan Carlos Espinosa, for his diligent work in reviewing all the abstracts and providing guidance to the conference planners.

The entire staff of the Honors College at FIU: Juan Lopez, Umer Rahman, Rachelle Metcalfe, Lilian Solorzano, Maria Calero, Rosa Barredo, James Knapp, Isabel Green, and Luli Szeinblum.

And last, to the Dean of the Honors College at FIU, Dr. Lesley Northup for her continued support of FCHC and Honors education in the state of Florida.



José F. Rodríguez

Assistant Dean and Fellow, FIU Honors College

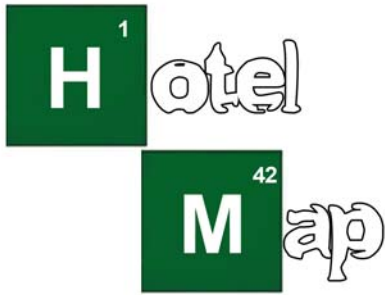
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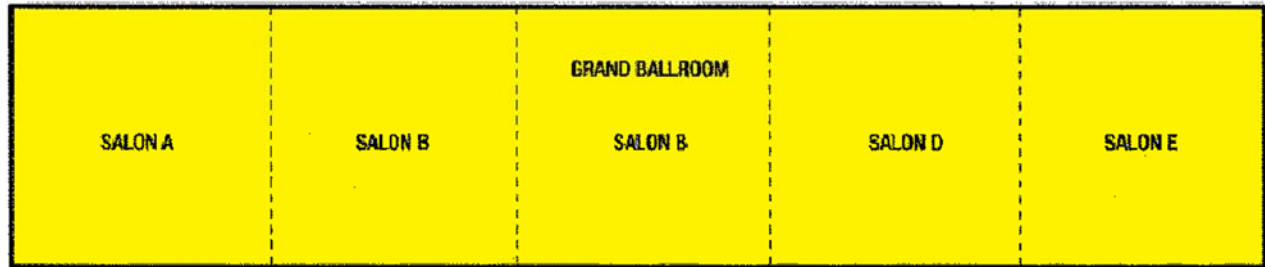
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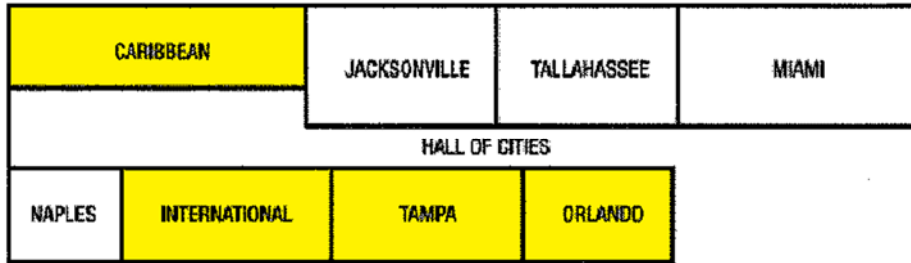


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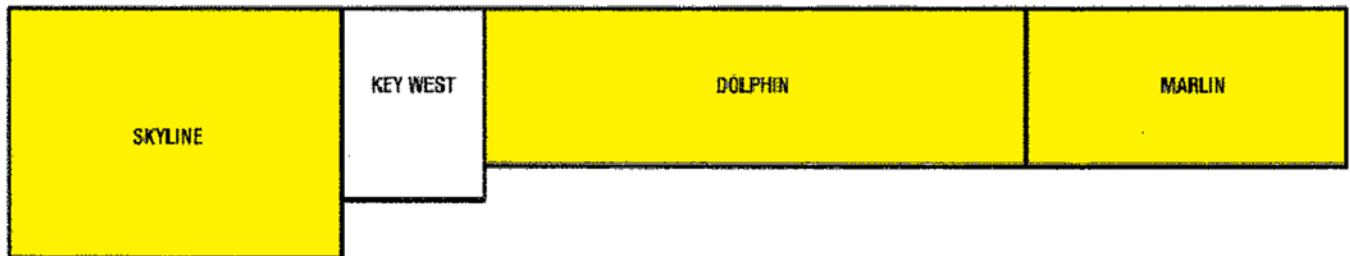


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THIRD FLOOR WEST WING



TENTH FLOOR WEST WING



³⁵**Br**eaking

⁵**B**oundaries



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