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Welcome to the Conference!

3rd Annual

GURC

CONFERENCE PROGRAM

November 14–15, 2014

Nessmith-Lane Conference Center, Statesboro, GA

GEORGIA UNDERGRADUATE RESEARCH CONFERENCE

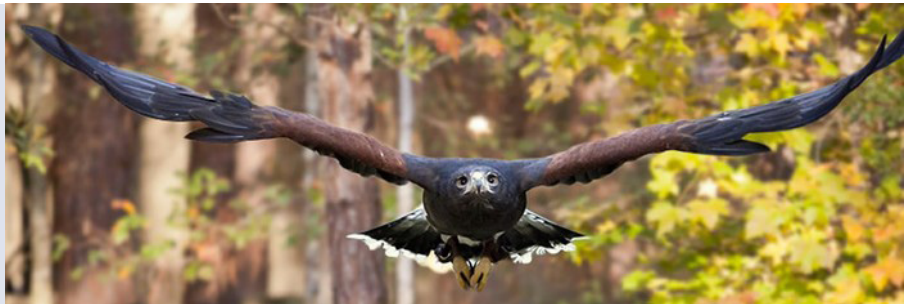


FRIDAY, NOVEMBER 14

6 p.m. - 8 p.m.

Welcome Reception

*Center for
Wild Life Education*



CONNECT TO
NessmithLaneEvents
PASSWORD: NSLfall2010



Saturday, November 15, 2014

8 a.m.

Registration

8 - 9:40 a.m.

Set Up for Poster Session A



JOIN US FOR THE SATURDAY KEYNOTE LUNCHEON ADDRESS
IN THE BALLROOM

12:15 - 1:30 P.M. - SATURDAY, NOVEMBER 15

Jemelleh Coes, 2014 Georgia Teacher of the Year

Room 2901 • Faculty-Administrator Network • 8:30 - 9:30 a.m.

AN EVALUATION OF THE ELEMENTS OF SCIENTIFIC INQUIRY PRESENT IN AN AUTHENTIC RESEARCH EXPERIENCE IN AN ONLINE PSYCHOLOGY COURSE

Author: Katherine Kipp, Nina Lamson, University of North Georgia

Concurrent Sessions 1 • 8:30 - 9:30 a.m.

Room 1909 • 8:30 - 9:30 a.m.

THE CYANOBACTERIUM MICROCYSTIS AERUGINOSA IS NUTRITIONALLY INADEQUATE, BUT NOT TOXIC, FOR THE FRESHWATER ROTIFER BRACHIONUS CALYCIFLORUS

Authors: Aaron Chase, Nicholas LaBon, Emily Prince, Georgia Regents University
Faculty Mentor: Emily K. Prince

HUMAN CEREBROVASCULAR DISEASE

*Authors: * Kayla Smith, * Louise Zehr, Georgia Southern University*

*Faculty Mentor: * Vinoth Sittaramane*

** Indicates equal contribution and shared first authorship*

RNA TOPOISOMERASE IN NEURAL CIRCUIT DEVELOPMENT: A ZEBRAFISH STORY

Author: Kori Williams, Georgia Southern University

Faculty Mentor: Vinoth Sittaramane

Room 2903 • 8:30 - 9:30 a.m.

THE BENEFIT OF FIELD TRIPS

Author: Michaela Kennedy, Georgia Southern University
Faculty Mentor: Meca Williams-Johnson

WRITING A NOVEL FOR THE YOUNG ADULT MARKET

Author: Anna Schaeffer, Augusta State University

Faculty Mentor: Anna Harris

UTILIZING GRAPHIC NOVELS ACROSS THE CONTENT AREAS WITH PRE-SERVICE TEACHERS

Authors: Greer Wright and Tiara Willingham, Georgia Southern University

Faculty Mentor: Christine A. Draper

Room 2904 • 8:30 - 9:30 a.m.

* SIGNIFICANCE OF HAIR AS A MEANS OF RACIAL IDENTITY IN THE BRIEF WONDROUS LIFE OF OSCAR WAO

Author: Gisabel Leonardo, University of North Georgia
Faculty Mentor: Anastasia Lin

** Under Consideration for the Outstanding Student Research Award*

UNDERSTANDING INTERNATIONAL STUDENTS COLLECTIVE EXPERIENCES AT AN AMERICAN UNIVERSITY

Author: V. Michelle Michael, University of West Georgia

Faculty Mentor: Dr. Danilo M. Baylen

* LIONS AND TIGERS AND PONIES, OH MY: SHOULD ADULT MALES AND ADOLESCENT BOYS BE ALLOWED TO ASSIMILATE INTO THE "MY LITTLE PONY" CULTURE

Author: Amber Gordon, Georgia Southern University

Faculty Mentor: Dr. Chris Geyerman

** Under Consideration for the Outstanding Student Research Award*

Room 2905 • 8:30 - 9:30 a.m.

WRITING, IDENTITY, AND GIVING VOICE IN OSCAR WAO

Author: Cameron Jackson, University of North Georgia
Faculty Mentor: Anastasia Lin

LILY BART'S "PROCESS OF CRYSTALLIZATION": BECOMING BRIER ROSE IN THE HOUSE OF MIRTH

Author: Brittany Barron, University of North Georgia

Faculty Mentor: Chris Bell

LASTING AS LONG AS THIS PHRASE LASTS: THE COLLISION OF ELIZABETH BISHOP, OCTAVIO PAZ, AND JOSEPH CORNELL IN "OBJECTS & APPARITIONS"

Author: Alyson Elam, Georgia Southern University

Faculty Mentor: Dr. Richard Flynn

Room 2908 • 8:30 - 9:30 a.m.

DC VOLTAGE CREATED PERPENDICULARLY TO NANOSTRUCTURED METAL FILMS BY SURFACE PLASMON POLARITON EXCITATION AT VISIBLE FREQUENCIES

Author: Matthew LePain, Georgia Southern University
Faculty Mentor: Dr. Maxim Durach

THERMAL PERFORMANCE OF FRACTAL FINS IN A NATURAL CONVECTION ENVIRONMENT

Authors: Philip Hines, Kelsey Kaht, Bryan Williams, Vishal Lachhawani, Robert Nalecz, Georgia Southern University

Faculty Mentor: Dr. David Calamas

REVOLUTIONARY SIZE REDUCTION OF A CIRCULARLY POLARIZED, LOG PERIODIC DIPOLE ARRAY

Author: Joshua Haney, Georgia Southern University

Faculty Mentor: Dr. Sungkyun Lim

Room 2911 • 8:30 - 9:30 a.m.

A WEXFORD MIGRATION TO SAVANNAH, GEORGIA

Authors: James Devlin, Sarah Ryniker, Katherine Sellers, Aleya Rentz, Georgia Southern University

Faculty Mentor: Steven Engel and Howard Keeley

Posters are located along the Concourse and the Atrium

<p style="text-align: right;">1</p> <p>SYNTHESIS OF TRIAZOLES FOR ION DETECTION STUDIES</p> <p><i>Author: Dionje Francois, Georgia Southern University</i> <i>Faculty Mentor: Karelle Aiken</i></p>	<p style="text-align: right;">2</p> <p>EFFECTS OF DOPED RARE EARTH IONS ON ENCAGED RADICALS IN C12A7:RE3+ A COMBINATION STUDY OF PHOTOLUMINESCENCE AND EPR SPECTROSCOPY</p> <p><i>Author: Carter Layfield, Georgia Southern University</i> <i>Faculty Mentor: Dr. Li Ma</i></p>	<p style="text-align: right;">3</p> <p>ASSESSMENT OF WATER QUALITY TO ENSURE ENVIRONMENTAL HEALTH AT GEORGIA SOUTHERN UNIVERSITY CAMPUS</p> <p><i>Authors: Stefani Cox, Jennifer Ahweyevu, Matthew Pfister, Arpita Saha, Subhrajit Saha, Georgia Southern University</i> <i>Faculty Mentor: Subhrajit Saha</i></p>
<p style="text-align: right;">4</p> <p>SYNTHESIS OF UNUSUAL TRIFLUOROMETHYLATED AMINO ACIDS VIA ELECTROPHILIC ADDITION OF 2-METHYL AZAARENES WITH A-TRIFLUOROMETHYLIMINO ESTERS</p> <p><i>Author: Mark Blocker, Georgia Southern University</i> <i>Faculty Mentor: Shaikh, Abid</i></p>	<p style="text-align: right;">5</p> <p>EXPLORING MEDICINAL APPLICATIONS OF PYRIDOXINE-LATNTHANIDES</p> <p><i>Author: Caitlyn Stouder, Georgia Southern University</i> <i>Faculty Mentor: Dr. Arpita Saha</i></p>	<p style="text-align: right;">6</p> <p>SI/C/TI02 COMPOSITE NANOFIBERS PREPARED USING A SULFUR-TEMPLATING METHOD FOR LITHIUM ION BATTERIES</p> <p><i>Authors: Ian Byrd, Ji Wu, Kathleen McCormac, Georgia Southern University</i> <i>Faculty Mentor: Dr. Ji Wu</i></p>
<p style="text-align: right;">7</p> <p>ROVIBRATIONAL SPECTRAL DATA FOR SIOH+ AND HSIO+</p> <p><i>Authors: Mason Kitchens, Ryan Fortenberry, Georgia Southern University</i> <i>Faculty Mentor: Ryan C. Fortenberry</i></p>	<p style="text-align: right;">8</p> <p>ACCURACY ASSESSMENT AND DEVELOPMENT OF DIGITAL ELEVATION MODELS (DEMS) IN SALT AND BRACKISH MARSHES OF COASTAL GEORGIA</p> <p><i>Author: Maggie Aurelio, Georgia Southern University</i> <i>Faculty Mentor: Christine Hladik</i></p>	<p style="text-align: right;">9</p> <p>MAPPING GROUNDWATER DISCHARGE USING RADON-222 ON THE BULL RIVER, SAVANNAH, GA</p> <p><i>Author: Cody Mahaffey, Georgia Southern University</i> <i>Faculty Mentor: Jacque L. Kelly</i></p>
<p style="text-align: right;">10</p> <p>CONTINUOUS ELECTRICAL RESISTIVITY SURVEY OF BULL RIVER, LAZARETTO CREEK, AND OYSTER CREEK NEAR SAVANNAH, GEORGIA</p> <p><i>Author: Jake Swanson, Georgia Southern University</i> <i>Faculty Mentor: Jacque L. Kelly</i></p>	<p style="text-align: right;">11</p> <p>GREEN RECYCLING - FABRICATION NANO-ENGINEERED ADVANCED ALUMINUM ALLOY WITH ALUMINUM MACHINING CHIPS USING FRICTION STIR EXTRUSION PROCESSING</p> <p><i>Author: Tyler Hedges, Georgia Southern University</i> <i>Faculty Mentor: Shaowen Xu</i></p>	<p style="text-align: right;">12</p> <p>THE STUDY OF NOISE, VIBRATIONS, AND HARSHNESS OF A GAS TURBINE FOR UNMANNED AERIAL VEHICLE</p> <p><i>Author: Emerald Simons, Georgia Southern University</i> <i>Faculty Mentor: Dr. Valentin Soloiu</i></p>
<p style="text-align: right;">13</p> <p>PREMIXED HOMOGENOUS CHARGE COMBUSTION OF N-BUTANOL IGNITED BY A CARINATA BIODIESEL PILOT</p> <p><i>Authors: Tyler Naes, Martin Muinos, Ray Summerrow, Remi Gaubert, Georgia Southern University</i> <i>Faculty Mentor: Dr. Valentin Soloiu</i></p>	<p style="text-align: right;">14</p> <p>SOLAR MODULE(S) BASED DESIGN MODELING</p> <p><i>Author: Haydon Lynch, Georgia Southern University</i> <i>Faculty Mentor: Dr. Adel El Shahat</i></p>	<p style="text-align: right;">15</p> <p>* HORIZONTAL AXIS WIND TURBINES MODELING FOR SMART GRIDS APPLICATIONS</p> <p><i>Author: Ekene Nwobodo, Georgia Southern University</i> <i>Faculty Mentor: Dr. Adel El Shahat</i> <i>* Under Consideration for the Outstanding Student Research Award</i></p>

Posters are located along the Concourse and the Atrium

<p style="text-align: right;">16</p> <p>REMOVAL OF SELENATE FROM FLUE GAS DESULFURIZATION (FGD) WASTEWATER DISCHARGED BY GEORGIA COAL-FIRE POWER PLANTS USING BIOFILTER WITH GRANULAR ACTIVATED CARBON (GAC)</p> <p><i>Author: Danielle Spencer, Georgia Southern University</i> <i>Faculty Mentor: George Fu</i></p>	<p style="text-align: right;">17</p> <p>WIRELESS VEHICULAR NETWORKING FOR IMPROVING SAFETY IN TRANSPORTATION CYBER PHYSICAL SYSTEMS</p> <p><i>Author: Joshua Blasius, Georgia Southern University</i> <i>Faculty Mentor: Danda B. Rawat</i></p>	<p style="text-align: right;">18</p> <p>* DEVELOPMENT OF SOIL CARBON INVENTORY: UNDERSTANDING THE CLIMATE CHANGE MITIGATION POTENTIAL OF GEORGIA SOUTHERN UNIVERSITY CAMPUS</p> <p><i>Authors: Stuart Barker, Matthew Pfister, Subhrajit Saha, Georgia Southern University</i> <i>Faculty Mentor: Subhrajit Saha</i></p> <p><i>* Under Consideration for the Outstanding Student Research Award</i></p>
<p style="text-align: right;">19</p> <p>EFFECT OF TETRAKIS (HYDROMETHYL) PHOSPHONIUM CHLORIDE (THPC) ON ZEBRAFISH (DANIO RERIO)</p> <p><i>Author: Lan Nguyen, Georgia Southern University</i> <i>Faculty Mentor: Dr. Vinoth Sittaramane</i></p>	<p style="text-align: right;">20</p> <p>ABUNDANCE OF AQUATIC INSECTS (TRICHOPTERA, PLECOPTERA, AND EPHEMEROPTERA) IMMATURE AND ADULT LIFE STAGES IN RELATION TO ELEVATION AND WATER FLOW ON THE MURINASCIA GRANDE RIVER</p> <p><i>Authors: Rikki Babuka, Stuart Barker, Georgia Southern University</i> <i>Faculty Mentor: William Irby</i></p>	<p style="text-align: right;">21</p> <p>* HISTOLOGICAL ANALYSIS OF OSTEOCLASTIC ACTIVITY IN BISPHOSPHONATE-TREATED RATS</p> <p><i>Author: Asma Daoudi, Georgia Regents University</i> <i>Faculty Mentor: Dr. Mohammed Elsalanty</i></p> <p><i>* Under Consideration for the Outstanding Student Research Award</i></p>
<p style="text-align: right;">22</p> <p>DETERMINING THE EFFECTS OF HERBIVORY ON POPULATION VARIATION IN AN HERBACEOUS PLANT</p> <p><i>Author: Lauren Whitehurst, Columbus State University</i> <i>Faculty Mentor: Dr. Kevin Burgess</i></p>	<p style="text-align: right;">23</p> <p>CONSEQUENCES OF COMPLEX ENVIRONMENTS: TEMPERATURE AND ENERGY INTAKE INTERACT TO INFLUENCE GROWTH AND METABOLISM</p> <p><i>Author: Alicia Jodrey, Georgia Southern University</i> <i>Faculty Mentor: Dr. Zachary Stahlschmidt</i></p>	<p style="text-align: right;">24</p> <p>ASSESSMENT OF ALGAL DIVERSITY AND WATER QUALITY IN LAKE LANIER, GEORGIA</p> <p><i>Authors: Chad Subers, Melba Horton, University of North Georgia</i> <i>Faculty Mentor: Melba Horton</i></p>
<p style="text-align: right;">25</p> <p>WATER RESIDENCE TIMES AND CIRCULATION OF THE SAVANNAH RIVER USING SHORT-LIVED RADIUM ISOTOPES</p> <p><i>Author: Frank Russo-Alesi, Georgia Southern University</i> <i>Faculty Mentor: Dr. Jacque L. Kelly</i></p>	<p style="text-align: right;">26</p> <p>STRESS, COLLEGE & PHYSICAL ACTIVITY: DOES ONE AFFECT THE OTHER?</p> <p><i>Authors: Jasmine Burke, Georgia Southern University, Audrey Jensen, Georgia Southern University</i> <i>Faculty Mentor: Dr. Helen Bland</i></p>	<p style="text-align: right;">27</p> <p>CAN EXERCISE MAKE YOU SMARTER: A RELATIONSHIP BETWEEN PHYSICAL ACTIVITY AND GPA</p> <p><i>Author: Fallon Brown, Georgia Southern University</i> <i>Faculty Mentor: Dr. Helen Bland</i></p>
<p style="text-align: right;">28</p> <p>STRAY FROM RAYS: BEHAVIOR INTENTIONS OF ARTIFICIAL TANNING IN COLLEGE STUDENTS</p> <p><i>Authors: Sandi Mills, Georgia Southern University, Kelsey Wiltse, Georgia Southern University</i> <i>Faculty Mentor: Dr. Helen Bland</i></p>	<p style="text-align: right;">29</p> <p>THE EFFECTIVENESS AND NEED FOR ADVANCED PRACTICE NURSE (APN) DELIVERED PSYCHOSOCIAL INTERVENTIONS IN CANCER PATIENTS: ADDRESSING HEALTH DISPARITIES</p> <p><i>Authors: Jasmine Scott, Georgia Southern University, Johanna Feuchtinger, Universitas Klinikum, Freiburg, Germany</i> <i>Faculty Mentor: Dr. Kathryn H. Anderson</i></p>	<p style="text-align: right;">30</p> <p>THE VARIABILITY OF MENTAL ILLNESS STIGMA</p> <p><i>Authors: Zoe McFall, Georgia Southern University, Brandi Shipp, Georgia Southern University, Shelby Sanders, Georgia Southern University, Whitney Arthur, Georgia Southern University</i> <i>Faculty Mentor: Dr. Marian Tabi</i></p>

POSTER SESSION A • 9:40 - 10:55 a.m. continued

Posters are located along the Concourse and the Atrium

<p style="text-align: right;">31</p> <p>AN EXAMINATION OF COMPETITIVENESS BETWEEN GENDER, RACE AND SCHOOL CLASSIFICATION OF MILLENNIAL STUDENTS. - AN EXPLORATORY STUDY</p> <p><i>Author: Katelyn Wehner, Georgia Southern University</i> <i>Faculty Mentor: Dr. Daniel Czech</i></p>	<p style="text-align: right;">32</p> <p>ENGAGEMENT PRACTICES FOR LATINO FAMILIES, TEACHERS, AND COMMUNITIES</p> <p><i>Author: Megan Economos, Georgia Southern University, Taylor Greene, Georgia Southern University</i> <i>Faculty Mentor: Katy Gregg</i></p>	<p style="text-align: right;">33</p> <p>WHAT HAPPENS WHEN YOU THROW THE WORLD'S BIGGEST PARTY: THE POLITICAL IMPACT OF HOSTING FIFA'S WORLD CUP</p> <p><i>Author: Branden Green, Georgia Southern University</i> <i>Faculty Mentor: Darin Van Tassell</i></p>
<p style="text-align: right;">34</p> <p>PEACHES AND TIGERS AND INDIANS: PRESS COVERAGE OF THE INTEGRATION OF THE 'SALLY LEAGUE'</p> <p><i>Authors: Ashley Trawick, Georgia Regents University, Jordan Williams, Georgia Regents University</i> <i>Faculty Mentor: Rick Kenney</i></p>	<p style="text-align: right;">35</p> <p>"WE CALL THEM GREASERS": AN INTIMATE LOOK AT A BROAD CULTURAL WAR</p> <p><i>Author: Cassandra Dixon, University of North Georgia</i> <i>Faculty Mentor: Dr. Terry Easton</i></p>	<p style="text-align: right;">36</p> <p>RACIAL EXPERIENCES OF COLLEGE STUDENTS AT A PREDOMINANTLY WHITE UNIVERSITY</p> <p><i>Authors: Chasity Thompson, Georgia Southern University, Nile Rondon, Georgia Southern, Sarah Womble, Georgia Southern University</i> <i>Faculty Mentor: April Schueths</i></p>
<p style="text-align: right;">37</p> <p>THE HYPOTHESIZED BENEFITS OF RELIGIOUS FUNDAMENTALISM</p> <p><i>Author: Natasha LaBalle, Georgia Southern University</i> <i>Faculty Mentor: Michael Nielsen</i></p>	<p style="text-align: right;">38</p> <p>* DARK TRIAD'S INFLUENCE ON ADORNMENT</p> <p><i>Author: Julie Odom-Dixon, Georgia Southern University</i> <i>Faculty Mentor: Nicholas Holtzman</i> <i>* Under Consideration for the Outstanding Student Research Award</i></p>	<p style="text-align: right;">39</p> <p>IMPACT OF SHADOW BANKING ON CHINA'S STOCK MARKET</p> <p><i>Authors: Jovan Johnson, University of West Georgia, Nathaniel Malcolm, University of West Georgia</i> <i>Faculty Mentor: Charles Hodges</i></p>
<p style="text-align: right;">40</p> <p>PEER FINANCIAL COUNSELING TO PROMOTE FINANCIAL LITERACY</p> <p><i>Authors: Penelope Lyman, University of North Georgia, Jialin Yuan, University of North Georgia</i> <i>Faculty Mentor: Penelope Lyman</i></p>	<p style="text-align: right;">41</p> <p>EFFECTS OF TEACHER-CHILD INTERACTIONS ON THE SOCIAL-EMOTIONAL DEVELOPMENT OF PRESCHOOL AGED CHILDREN WITH CHALLENGING BEHAVIORS</p> <p><i>Authors: Elvia Munoz, Georgia Southern University, Journey Tolbert, Georgia Southern University</i> <i>Faculty Mentor: Katy Gregg</i></p>	<p style="text-align: right;">42</p> <p>COGNITIVE RADIO ENABLED VEHICULAR COMMUNICATIONS FOR INTELLIGENT TRANSPORTATION SYSTEMS</p> <p><i>Authors: Jarvis Dotson, Georgia Southern University, Cornelis Reister, Georgia Southern University, Danda Rawat, Georgia Southern University</i> <i>Faculty Mentor: Danda B. Rawat</i></p>

Room 2901 • Faculty-Administrator Network • 11:05 a.m. – 12:05 p.m.

INTEGRATING UNDERGRADUATE RESEARCH INTO A STUDY ABROAD PROGRAM

Author: Steven Engel, Howard Keeley, Georgia Southern University

Concurrent Sessions 2 • 11:05 a.m. - 12:05 p.m.

Room 1909 • 11:05 a.m. – 12:05 p.m.

<p>THE SYNTHESIS AND BIOLOGICAL ACTIVITY OF IRON BINDING MOTIFS</p> <p><i>Authors: Rachel Burke, Georgia Southern University, Michele Davis McGibony, Georgia Southern University</i> <i>Faculty Mentor: C. Michele Davis McGibony</i></p>	<p>NOVEL PHOTODYNAMIC THERAPY AGENTS: BIOCHEMICAL ANALYSIS</p> <p><i>Authors: Eboni Pullen, Georgia Southern University, Michele Davis McGibony, Georgia Southern University</i> <i>Faculty Mentor: C. Michele Davis McGibony</i></p>	<p>COLLAGEN AS A PROTEIN SOURCE FOR PRODUCING BIO-BASED COMPOSITES</p> <p><i>Authors: Russell Lewis, Georgia Southern University, Amanda Stewart, Georgia Southern University</i> <i>Faculty Mentor: Amanda L. Stewart</i></p>
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Concurrent Sessions 2 • 11:05 a.m. - 12:05 p.m. continued

Room 2903 • 11:05 a.m. – 12:05 p.m.

TEACHERS PERSPECTIVES ON INCLUSION AND CO-TEACHING

Author: Jessica Davis, Georgia Southern University

Faculty Mentor: Meca Williams-Johnson

TEACHER INFLUENCE ON ELEMENTARY SCHOOL STUDENTS TO PARTICIPATE IN SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS

Author: Courtney Hartman, Georgia Southern University

Faculty Mentor: Meca Williams-Johnson

THE USE OF IPADS FOR EVENT RECORDING AND ANECDOTAL DATA RECORDING IN OBSERVATIONS OF CLASSROOM MANAGEMENT

Author: Cynthia Jersey, Georgia Southern University, Tawanda Bennett, Georgia Southern University

Faculty Mentor: Kimberly Drawdy

Room 2904 • 11:05 a.m. – 12:05 p.m.

SURROGATE REPRESENTATION OF THE HOMOSEXUAL MINORITY GROUP

Author: Evan Rollins, Georgia Southern University

Faculty Mentor: Dr. Michael K. Romano

* FREE WILL IN THE GHETTO: HOW THE JUDENRATE COOPERATED, COLLABORATED AND RESISTED GERMAN RULE

Author: Kyle Williams, Georgia Southern University

Faculty Mentor: Jacek Lubecki

**Under Consideration for the Outstanding Student Research Award*

WILLIAM PETTY AND THE DUBLIN PHILOSOPHICAL SOCIETY

Author: Andrew Crean, Georgia Southern University

Faculty Mentor: Dr. William Eaton

Room 2905 • 11:05 a.m. – 12:05 p.m.

LOOKING TO THE EAST: AN ANALYSIS OF PASAQUAN

Author: Victoria Cantrell, Columbus State University

Faculty Mentor: Dr. Barbara Johnston

POPULAR APPEAL AND NOSTALGIA IN DEVELOPING THE MYTH OF THE FRONTIER

Author: Rachel Neuhauser, Georgia Southern University

Faculty Mentor: Dr. Francis Desiderio

URBAN RENEWAL IN JUNE JORDAN'S HIS OWN WHERE

Author: E. Oliver, Georgia Southern University

Faculty Mentor: Dr. Steven Engel

Room 2908 • 11:05 a.m. – 12:05 p.m.

OPTICAL FIBER DISPERSION MONITORING

Author: Andrew Robertson, Georgia Southern University

Faculty Mentor: Rami Haddad

Room 2911 • 11:05 a.m. – 12:05 p.m.

THE REPRESENTATIONAL IMPLICATIONS OF LEGISLATIVE TERM LIMITS

Author: Dartanioin Middlebrooks, Georgia Southern University

Faculty Mentor: Michael K. Romano

IS CAPITAL PUNISHMENT JUSTLY ADMINISTERED?

Author: Katherine Bissell, Georgia Southern University

Faculty Mentor: Dr. Chris Geyerman

PARENTAL INFLUENCE ON COLLEGE STUDENTS' CAREER ASPIRATIONS

Author: Kristen Tillman, Georgia Southern University

Faculty Mentor: Meca Williams-Johnson



12:15 - 1:30 p.m. Keynote Luncheon • Ballroom
Jemelleh Coes, 2014 Georgia Teacher of the Year

1:15 - 1:45 p.m. Steering Committee Meeting • Room 1802

1:30 - 2:55 p.m. Set Up for Poster Session B

Room 2901 • Faculty-Administrator Network • 1:45 – 2:45 p.m.

RETHINKING INFORMATION LITERACY INSTRUCTIONS IN THE DIGITAL AGE

Authors: Lili Li, Georgia Southern University

Faculty Mentor: Jocelyn Poole

Concurrent Sessions 3 • 1:45 - 2:45 p.m.

Room 1909 • 1:45 – 2:45 p.m.

<p>WEB CHALLENGES FOR OLDER ADULTS</p> <p><i>Author: Naomi Foley, Columbus State University</i></p> <p><i>Faculty Mentor: Dr. Khan</i></p>	<p>CRYPTANALYSIS OF THE VIGENERE’S CIPHER</p> <p><i>Author: Cherie Corning, Columbus State University</i></p> <p><i>Faculty Mentor: Dr. Yesem Peker</i></p>	<p>RAPID PROTOTYPING WITH FIELD PROGRAMMABLE GATE ARRAYS</p> <p><i>Author: Joshua Staples, Columbus State University</i></p> <p><i>Faculty Mentor: Angkul Kongmunvattana</i></p>
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Room 2903 • 1:45 – 2:45 p.m.

<p>DEVELOPMENT OF AN INTERACTIVE COURSE MODULE: “TEACHING AND LEARNING MOLECULAR BASIS OF EVOLUTION TO HUMAN BODY”</p> <p><i>Author: Rachel Bishop and Brittany Blocker, Georgia Regents University</i></p> <p><i>Faculty Mentor: Soma Mukhopadhyay</i></p>	<p>*DETERMINING THE KNOWLEDGE LEVEL OF PUBLIC HEALTH NURSES IN COASTAL GEORGIA COUNTIES ON THE CAUSES AND TOXIC EFFECTS OF METHYLMERCURY</p> <p><i>Author: Elizabeth Colvin, Armstrong Atlantic State University</i></p> <p><i>Faculty Mentor: Jeffrey W. Harris</i></p> <p><i>* Under Consideration for the Outstanding Student Research Award</i></p>
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Room 2904 • 1:45 – 2:45 p.m.

<p>THE BEGINNING OF WORLD WAR ONE AND ITS MEMORY</p> <p><i>Author: Dillan Lee, Georgia Southern University</i></p> <p><i>Faculty Mentor: Paul Rodell</i></p>	<p>CASTING A LIGHT: INTERVIEWS AND INSIGHT INTO THE HINDU CASTE SYSTEM</p> <p><i>Author: Amber Porter, Georgia Southern University</i></p> <p><i>Faculty Mentor: Darin Van Tassell</i></p>	<p>THE CONCEPT OF NATIONALITY STILL RELEVANT IN TODAY’S GLOBAL WORLD?</p> <p><i>Author: Jenna Florence, Georgia Southern University</i></p> <p><i>Faculty Mentor: Dr. Darin Van Tassell</i></p>
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Room 2905 • 1:45 – 2:45 p.m.

<p>DANGEROUS BEAUTY: THE EVOLUTION OF MEDUSA IMAGERY IN GREEK ART</p> <p><i>Author: Victoria Cantrell, Columbus State University</i></p> <p><i>Faculty Mentor: Dr. Claire Black McCoy</i></p>	<p>“WHEN YOU’RE DEAD YOU’RE MADE”: PAINTING IDOLS OF THE 27 CLUB</p> <p><i>Author: Macon St. Hilaire, Austin Peay State University</i></p> <p><i>Faculty Mentor: Dr. Tamara Smithers</i></p>	<p>*A THEATER FOR ROYALTY: HAMPTON COURT PALACE AND THE ENGLISH MONARCHY</p> <p><i>Author: Katherine Hinzman, Columbus State University</i></p> <p><i>Faculty Mentor: Dr. Claire McCoy</i></p> <p><i>* Under Consideration for the Outstanding Student Research Award</i></p>
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Room 2908 • 1:45 – 2:45 p.m.

<p>DEVELOPING A CREATIVE STORY TELLER AGENT</p> <p><i>Author: Dominique Tillman, Columbus State University</i></p> <p><i>Faculty Mentor: Rania Hodhod</i></p>	<p>SWARM ROBOTIC MACHINE LEARNING SYSTEMS: USING CLOUD COMPUTING AND COMPUTER AIDED VISION</p> <p><i>Author: Ugochukwu Okechukwu, Georgia Southern University</i></p> <p><i>Faculty Mentor: Biswanath Samanta</i></p>
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Room 2911 • 1:45 – 2:45 p.m.

<p>POLITICS OF A CRISIS: THE U.S. DECISION TO INTERVENE IN THE LIBYAN CIVIL WAR</p> <p><i>Author: Thomas Reynolds, Georgia Southern University</i></p> <p><i>Faculty Mentor: Darin Van Tassell</i></p>	<p>* SHOULD THE US PUT BOOTS ON THE GROUND TO DEAL WITH THE ISIS THREAT: AN EXPLICATION OF ARGUMENTATION CONCERNING ISIS</p> <p><i>Author: Faith Stevenot, Georgia Southern University</i></p> <p><i>Faculty Mentor: Dr. Geyerman</i></p> <p><i>* Under Consideration for the Outstanding Student Research Award</i></p>	<p>SADDAM HUSSEIN: THE IRAQI HITLER</p> <p><i>Author: Melinda Wertz, Georgia Southern University</i></p> <p><i>Faculty Mentor: Dr. Van Tassell</i></p>
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Posters are located along the Concourse and the Atrium

<p style="text-align: right;">1</p> <p>STUDY OF COGNITIVE WIRELESS SENSOR NETWORKS FOR WIND TURBINE MONITORING</p> <p><i>Author: Jarvis Dotson, Georgia Southern University, Danda Rawat, Georgia Southern University</i></p> <p><i>Faculty Mentor: Danda B. Rawat</i></p>	<p style="text-align: right;">2</p> <p>CLOUD-ASSISTED GEOLOCATION-DRIVEN DYNAMIC SPECTRUM ACCESS IN COGNITIVE RADIO NETWORKS</p> <p><i>Authors: Cornelis Reister, Georgia Southern University, Jarvis Dotson, Georgia Southern University, Danda Rawat, Georgia Southern University</i></p> <p><i>Faculty Mentor: Danda B. Rawat</i></p>	<p style="text-align: right;">3</p> <p>iPARKING: INTELLIGENT PARKING SYSTEMS USING SENSORS AND WIRELESS NETWORKING</p> <p><i>Authors: Brandon Lughas, Georgia Southern University, Danda Rawat, Georgia Southern University</i></p> <p><i>Faculty Mentor: Danda B. Rawat and Fernando Rios-Gutierrez</i></p>
<p style="text-align: right;">4</p> <p>PEPTIDES DESIGNED TO TARGET AN RNA G-QUADRUPLEX FOR REGULATION AND INHIBITION OF TRANSLATION</p> <p><i>Authors: Srujay Patel, Georgia Southern University, Amanda Stewart, Georgia Southern University</i></p> <p><i>Faculty Mentor: Amanda L. Stewart</i></p>	<p style="text-align: right;">5</p> <p>HYDRATION OF TERMINAL ALKYNES WITH MOLECULAR IODINE: A MECHANISTIC INVESTIGATION</p> <p><i>Authors: Katrina Tate, Georgia Southern University, Zachary Lee, Georgia Southern University, Kevin Afeku, Georgia Southern University</i></p> <p><i>Faculty Mentor: Karelle Aiken</i></p>	<p style="text-align: right;">6</p> <p>HYDRATION OF TERMINAL ALKYNES WITH MOLECULAR IODINE: A MECHANISTIC INVESTIGATION</p> <p><i>Authors: Katrina Tate, Georgia Southern University, Zachary Lee, Georgia Southern University, Kevin Afeku, Georgia Southern University</i></p> <p><i>Faculty Mentor: Karelle Aiken</i></p>
<p style="text-align: right;">7</p> <p>SYNTHESIS OF SIGMA-1 RECEPTOR LIGANDS</p> <p><i>Author: Chantrell Frazier, Savannah State University</i></p> <p><i>Faculty Mentor: Karla-Sue Marriott</i></p>	<p style="text-align: right;">8</p> <p>TEMPO-FUNCTIONALIZED ROMP MONOMERS FOR TREATMENT OF TRAUMATIC BRAIN INJURIES</p> <p><i>Author: Cameron Feriante, Georgia Southern University</i></p> <p><i>Faculty Mentor: Dr. Hans-Joerg Schanz</i></p>	<p style="text-align: right;">9</p> <p>CLASSIFICATION OF SURFACE EMG SIGNALS WITH RESPECT TO PERCENT MAXIMUM VOLUNTARY CONTRACTION USING ARTIFICIAL NEURAL NETWORKS</p> <p><i>Author: Stephen Hickman, Georgia Southern University</i></p> <p><i>Faculty Mentor: Rocio Alba-Flores</i></p>
<p style="text-align: right;">10</p> <p>NUCLEAR MAGNETIC RESONANCE DIFFUSION ON NUCLEOTIDE BINDING WITH HSA</p> <p><i>Author: Chantia Taylor, Savannah State University</i></p> <p><i>Faculty Mentor: Zhiyan Song</i></p>	<p style="text-align: right;">11</p> <p>DIVERGENCE OF VERTEBRATE AND INSECT SPECIFIC TOXIN GENES BETWEEN TWO SPECIES OF WIDOW SPIDER LATRODECTUS GEOMETRICUS AND LATRODECTUS TREDECIMGUTTATUS</p> <p><i>Author: Shannon Kahn, Georgia Southern University</i></p> <p><i>Faculty Mentor: Dr John Scott Harrison</i></p>	<p style="text-align: right;">12</p> <p>SIZE EXCLUSION CHROMATOGRAPHY REVEALS PATTERNS IN PREFERENTIAL ADSORPTION AND COMPETITIVE DISPLACEMENT OF DISSOLVED ORGANIC MATTER AS A FUNCTION OF MOLECULAR SIZE</p> <p><i>Author: Anthony Furio, Georgia Southern University</i></p> <p><i>Faculty Mentor: David Kreller</i></p>
<p style="text-align: right;">13</p> <p>THE ACTIVATION OF MATURE DENDRITIC CELLS USING NANOPARTICLE DRUG DELIVERY SYSTEM</p> <p><i>Author: Rajeanna Jarrett, Savannah State University</i></p> <p><i>Faculty Mentor: Dr. Jones</i></p>	<p style="text-align: right;">14</p> <p>THE EFFECTS OF ENERGY DRINKS ON VISION</p> <p><i>Author: Ta'Shon Grady, Georgia Southern University</i></p> <p><i>Faculty Mentor: Dr. Nick Holtzman</i></p>	<p style="text-align: right;">15</p> <p>LOCOMOTION AND BEHAVIOR OF THE ANCIENT WHALE GEORGIACETUS</p> <p><i>Author: Kelsi Leverett, Georgia Southern University</i></p> <p><i>Faculty Mentor: Dr. Kathlyn Smith</i></p>

Posters are located along the Concourse and the Atrium

<p style="text-align: right;">16</p> <p>SYNTHESIS OF 1,2,3 TRIAZOLE SENSOR FOR THE DETECTION OF FLUORIDE ANION</p> <p><i>Author: Austin Atkinson, Georgia Southern University</i> <i>Faculty Mentor: Shainaz Landge</i></p>	<p style="text-align: right;">17</p> <p>MICROWAVE ASSISTED AND CONVENTIONAL APPROACHES TOWARDS THE SYNTHESIS OF TRIFLUOROMETHYLATED ALCOHOL DERIVATIVES</p> <p><i>Authors: Matthew Christianson, Georgia Southern University, Shainaz Landge, Georgia Southern University</i> <i>Faculty Mentor: Dr. Shainaz Landge</i></p>	<p style="text-align: right;">18</p> <p>TOXICITY EVALUATION OF COATED GOLD NANORODS ON ZEBRAFISH EMBRYOS</p> <p><i>Author: Patrick McGlynn, Georgia Southern University</i> <i>Faculty Mentor: John Stone</i></p>
<p style="text-align: right;">19</p> <p>MD VS. NP</p> <p><i>Authors: Neysa Hobbs, Georgia Southern University, Lauren Stokes, Georgia Southern University, Celia Price, Georgia Southern University, Anquanett Scott, Georgia Southern University</i> <i>Faculty Mentor: Dr. Marian Tabi</i></p>	<p style="text-align: right;">20</p> <p>THE IMPACT OF APN-LED INTERVENTIONS WITH BREAST AND GYNAECOLOGICAL ADULT CANCER PATIENTS: MAKING A DIFFERENCE FOR HEALTH DISPARITIES</p> <p><i>Author: Picara Mosley, Georgia Southern University</i> <i>Faculty Mentor: Kathryn Anderson</i></p>	<p style="text-align: right;">21</p> <p>CHARACTERISTICS OF NURSING STUDENTS</p> <p><i>Authors: David Maxwell, Georgia Southern University, Jacob Youmans, Georgia Southern University, Sergei Pugachov, Georgia Southern University, Kurt Wahnschaff, Georgia Southern University</i> <i>Faculty Mentor: Dr. Marian Tabi</i></p>
<p style="text-align: right;">22</p> <p>EVALUATION OF FOOT CARE KNOWLEDGE AMONG THE DIABETIC POPULATION</p> <p><i>Author: John Bacon, Georgia Southern University</i> <i>Faculty Mentor: Marian Tabi</i></p>	<p style="text-align: right;">23</p> <p>CONTROLLED DRUG RELEASE FROM TEMPERATURE RESPON-SIVE CORE-SHELL NANOFIBERS</p> <p><i>Authors: Ji Wu, Georgia Southern University, Mariana Hernandez, Georgia Southern University, Dhruvil Patel, Georgia Southern University</i> <i>Faculty Mentor: Ji Wu</i></p>	<p style="text-align: right;">24</p> <p>HIGH RESOLUTION INORGANIC CARBON MEASUREMENTS IN SAVANNAH MARSHES</p> <p><i>Author: Mathew Holmes, Armstrong Atlantic State University</i> <i>Faculty Mentor: Sarah Gray</i></p>
<p style="text-align: right;">25</p> <p>A RADIOISOTOPE TRACER STUDY OF NATURAL GROUNDWATER DISCHARGE FROM ST. CATHERINE'S ISLAND, GEORGIA</p> <p><i>Author: Robert Mobley, Georgia Southern University</i> <i>Faculty Mentor: Jacque L. Kelly</i></p>	<p style="text-align: right;">26</p> <p>ARH₂⁺ AND NEH₂⁺ AS GLOBAL MINIMA IN THE AR⁺/NE⁺ + H₂ REACTIONS: ENERGETIC, SPECTROSCOPIC, AND STRUCTURAL DATA</p> <p><i>Authors: Riley Theis, Georgia Southern University, Whitney Morgan, Georgia Southern University, Ryan Fortenberry, Georgia Southern University</i> <i>Faculty Mentor: Ryan C. Fortenberry</i></p>	<p style="text-align: right;">27</p> <p>METALLOPROTEINASE-DISINTEGRIN ADAM8: A POTENTIAL BIOMARKER FOR 2-AMINOANTHRACENE TOXICITY IN THE LIVER OF FISHER-344 RATS</p> <p><i>Author: Jessica Rasdall, Georgia Southern University</i> <i>Faculty Mentor: Worlanyo Eric Gato</i></p>
<p style="text-align: right;">28</p> <p>CONSEQUENCES OF COMPLEX ENVIRONMENTS: EFFECTS OF TEMPERATURE AND ENERGY INTAKE ON BOLDNESS AND FEEDING BEHAVIOR</p> <p><i>Author: Lindsey Holcomb, Georgia Southern University</i> <i>Faculty Mentor: Zachary Stahlschmidt</i></p>	<p style="text-align: right;">29</p> <p>A STUDY OF THE DIVERSITY AND ABUNDANCE OF DIPTERAN FAMILIES IN DIFFERENT ENVIRONMENTS IN THE VAL PIORA, SWITZERLAND</p> <p><i>Author: Daniel Allen, Georgia Southern University, Rachel Luoma, Georgia Southern University</i> <i>Faculty Mentor: William Irby</i></p>	<p style="text-align: right;">30</p> <p>ETHOQUAD 18/25 AS AN ALTERNATE SURFACTANT FOR GOLD NANOROD GROWTH</p> <p><i>Author: Michael Melvin, Georgia Southern University</i> <i>Faculty Mentor: Dr. John Stone</i></p>

POSTER SESSION B • 2:55 - 4:10 p.m. continued

Posters are located along the Concourse and the Atrium

<p style="text-align: right;">31</p> <p>INVESTIGATION OF REACTIVITY CONTROLLED COMPRESSION IGNITION COMPARED TO BINARY MIXTURES TO REDUCE SOOT AND NOX EMISSIONS WHILE MAINTAINING EFFICIENCY IN AN OMNIVOROUS ENGINE</p> <p><i>Authors: Martin Muinos, Georgia Southern University, Sherwin Davoud, Georgia Southern University, Channing Watson, Georgia Southern University</i></p> <p><i>Faculty Mentor: Dr. Valentin Soloiu</i></p>	<p style="text-align: right;">32</p> <p>PHOTOVOLTAIC MODEL FOR SMART GRID APPLICATIONS</p> <p><i>Author: Bradley Jones, Georgia Southern University, Quentin Vultaggio, Georgia Southern University</i></p> <p><i>Faculty Mentor: Dr. Adel el Shahat</i></p>	<p style="text-align: right;">33</p> <p>MATERIAL BEHAVIOR CHARACTERIZATION OF BAMBOO WITH DIGITAL IMAGE CORRELATION</p> <p><i>Author: Jacob Huckaby, Georgia Southern University</i></p> <p><i>Faculty Mentor: Shaowen Xu</i></p>
<p style="text-align: right;">34</p> <p>A PROPOSAL TO EXAMINE STUDENT PERCEPTIONS ON MARITAL RAPE</p> <p><i>Author: Glorhea Sherman, Georgia Southern University</i></p> <p><i>Faculty Mentor: Dr. Amy Hackney</i></p>	<p style="text-align: right;">35</p> <p>DRINKING AMONG COLLEGE STUDENTS: THE USE OF ALCOHOL DUE TO SOCIAL PRESSURES</p> <p><i>Authors: Haley Hearn, Georgia Southern University, Lauren Williams, Georgia Southern University</i></p> <p><i>Faculty Mentor: Dr. Helen Bland</i></p>	<p style="text-align: right;">36</p> <p>EATING DISORDERS ASSOCIATION AMONG EARLY ADULTS: COLLEGE STUDENTS AND NON-COLLEGE PEERS</p> <p><i>Authors: Cierra Andrews, Georgia Southern University, Alex Garrett, Georgia Southern University</i></p> <p><i>Faculty Mentor: Dr. Helen Bland</i></p>
<p style="text-align: right;">37</p> <p>CARBON SOURCE EFFECT ON DIVERSITY OF NITRIFICATION DENITRIFIERS FOR FUTURE APPLICATION IN FGD WASTEWATER</p> <p><i>Authors: Garret Strickland, Tiehang Wu, Parker More, George Fu, Georgia Southern University, Jason Teng, Southern Company</i></p> <p><i>Faculty Mentor: Tiehang Wu</i></p>	<p style="text-align: right;">38</p> <p>I'M SO MUCH COOLER ONLINE: EXTRAVERSION, NEUROTICISM, AND ONLINE COGNITIONS</p> <p><i>Authors: Rachel Green, Columbus State University, Diana Riser, Columbus State University</i></p> <p><i>Faculty Mentor: Dr. Diana K. Riser</i></p>	<p style="text-align: right;">39</p> <p>COLORING PERCEPTION</p> <p><i>Author: Amber Blazer, Georgia Southern University</i></p> <p><i>Faculty Mentor: Dr. Shauna Joye</i></p>
<p style="text-align: right;">40</p> <p>AIRCRAFT HIGH SPEED PM SYNCHRONOUS MACHINE BASIC SIZING REGRESSION NEURAL FUNCTION</p> <p><i>Author: Obinna Eneh, Georgia Southern University, Gideon Odogwu, Georgia Southern University</i></p> <p><i>Faculty Mentor: Dr Adel El Shahat</i></p>	<p style="text-align: right;">41</p> <p>INTEGRATION OF A COMMON RAIL INJECTION SYSTEM FOR A SINGLE-CYLINDER DIESEL ENGINE</p> <p><i>Author: Michael Santangelo, Georgia Southern University</i></p> <p><i>Faculty Mentor: Dr. Valentin Soloiu</i></p>	<p style="text-align: right;">42</p> <p>EXPLORING STUDENT COMMITMENT TO USE PEER ADVICE</p> <p><i>Author: Kyle Mahoney, Georgia Southern University</i></p> <p><i>Faculty Mentor: Dr. Trent Maurer and Dr. Delena Gatch</i></p>

4:20 – 4:45 p.m. Awards in the Ballroom