

**Florida Undergraduate Research
Conference
March 17
9-12, 1:15-4
EDMUNDS CENTER
RINKER FIELDHOUSE**

**165 Posters from 23 Florida Colleges and Universities
9 Faculty Presentations
16 Stetson Students**



**Up to 2 units CULTURAL CREDIT AVAILABLE
Open to the Stetson Community**

FLORIDA UNDERGRADUATE RESEARCH CONFERENCE

~ FRIDAY -SATURDAY, March 16-17, 2012 ~

A Celebration of Achievement in Florida

About the Florida Undergraduate Research Conference:

This event, with its debut in 2011 at the University of North Florida, is held under the auspices of the Council of Florida Undergraduate Research Program Directors. It is designed to foster an appreciation for undergraduate academic achievements in Florida. The student presenters have a wonderful opportunity to share their research and projects with the greater academic community of the state, and be exposed to various ways in which they can further their research, in graduate school and beyond. Faculty presenters also offer new ideas for undergraduate research programs in a variety of fields. This year, Stetson University is proud to host the conference, with over 160 papers coming from every region of Florida.

Poster Presenters Please arrive at least 15 minutes before your scheduled session for set-up. If you have indicated that you need a poster board, it will be provided. If you have indicated that you will bring your own poster board, or if you did not check the request box, you will be expected to bring your own board. The maximum size is 3'x4'. If you indicated that you require a power outlet, access will be provided.

SCHEDULE OF EVENTS AT A GLANCE

Friday, March 16 7-8:30 pm Reception, DuPont-Ball Library

Saturday, March 17:

Breakfast 8:30-9:15: Hollis Center A and J. Ollie Edmonds Center

Posters Session A 9:15-11:45 Hollis Center A

Posters Session B 9:15-11:45 J. Ollie Edmonds Center

Faculty Presentations A 9:30-10:30 Science Center

Faculty Presentations B 10:45-11:45 Science Center

Luncheon 12-1:30 Hollis Center B

Posters Session C 1:45-4:15 Hollis Center A

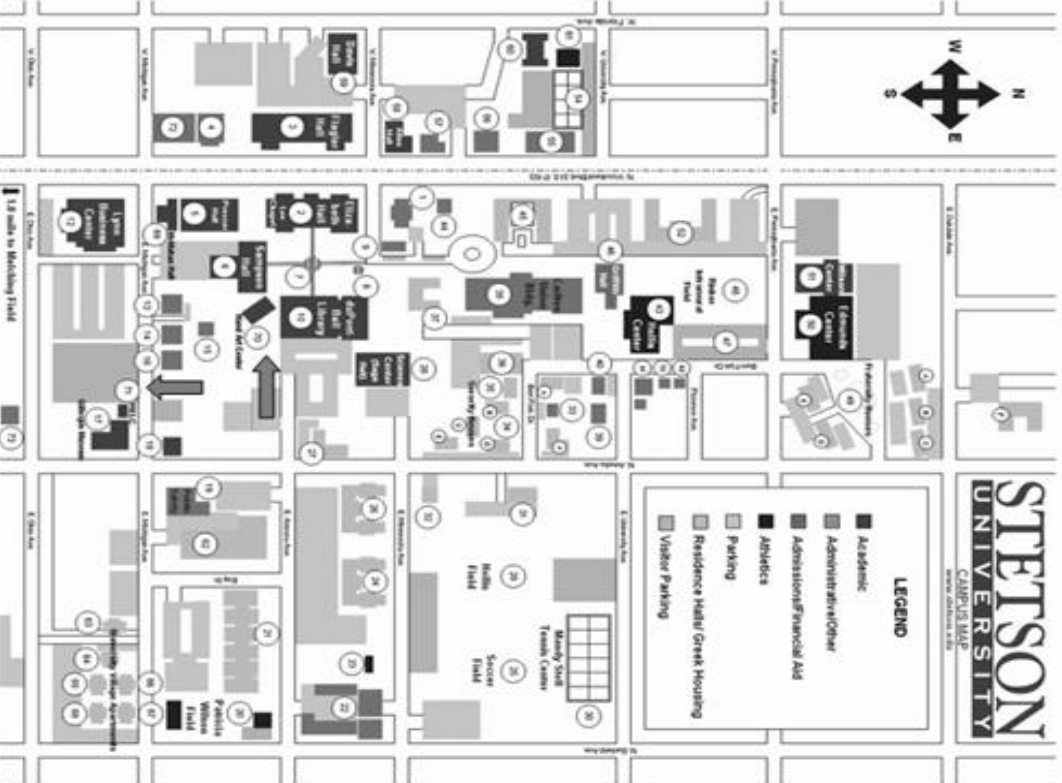
Posters Session D 1:45-4:15 J. Ollie Edmonds Center

Faculty Presentations C 1:45-2:45 Science Center

Graduate School Displays all day, Hollis Center

Alphabetical Legend

48 Admissions/Career Hall	30 Mandy Stoll Tennis Center
58 Allen Hall	63 Macy Hall
34C Alpha Chi Omega	69 Middleton Hall
34F Alpha Kappa Alpha	16 Meadows Alumni House
34B Alpha Xi Delta	21 Nenece Hall
38 Carbon Union Building	32 Newman House
Food Services	20 Patricia Wilson Field
27 CanonHalls Hall	49C Phi Sigma Kappa
53 Center for Service Learning	34A Phi Beta Phi
45 Chandon Hall	49B Phi Kappa Alpha
8 Colby Kiosk	49D Phi Kappa Phi
36 Conrad Hall	4 President's House
41 Counseling Center	5 Presser Hall
42 Cross Cultural Center	9 Pritz Shop
55 Cummings Gym	57 Public Relations & Communications
59 Davis Hall	19 Public Safety
1 DeLand Hall	61 Recreational Courts
34E Delta Delta Delta	62 Residence Hall A
40A Delta Sigma Phi	54 Risker Clubhouse
14 Development/Leisure Dining	71 Risker Environmental Learning Center
15 Development Operations	66 Risker Hall
10 dePorter-Ball Library	48 Risker Instructional Field
50 Edmunds Athletic Center	72 Risker Native Plant Garden
2 Elizabeth Hall and Lee Chapel	47 Risker Parking Area
52 Emily Hall	18 Russian Studies Center
22 Facilities Management	6 Sampson Hall
13 First Year Studies	28 Science Center (Sage Hall)
3 Fryler Hall	31 Service Station
35 Language House	49F Sigma Nu
11 Forest of Arden	49E Sigma Phi Epsilon
33 French House	24 Smith Hall
17 Galego Museum of Minerals	25 Soccer Field
26 Gorda Hall	32 Soccer House
70 Hand Art Center	37 Station Hall
40 Health Services	73 Station Station Coffee Shop
7 Holer Fountain	40 Stover Theatre
43 Holer Center	54 Tennis Courts
29 Holis Field (Intramural)	69 University Village Apartment
65 Hon Hall	23 Veterinary Course
44 Hulley Tower	56 Wesley House - Methodist Center for
39 International Education	51 Wilson Athletic Center
2 Lee Chapel and Elizabeth Hall	34D Zeta Tau Alpha
12 Lynn Business Center	
67 Lynn Hall	



Numeric Legend

1 DeLand Hall	39 International Center
2 Elizabeth Hall and Lee Chapel	40 Health Services
3 Fryler Hall	41 Counseling
4 President's House	42 Cross Cultural
5 Presser Hall	43 Sampson Hall
6 Sampson Hall	44 Holer Fountain
7 Holer Fountain	45 Chandon
8 Colby Kiosk	46 Admissions
9 Pritz Shop	47 Risker Fine Arts
10 dePorter-Ball Library	48 Risker Interdisciplinary
11 Forest of Arden	49A Delta Sigma Phi
12 Lynn Business Center	49B Phi Kappa Alpha
13 First Year Studies	49C Phi Sigma Kappa
14 Development/Leisure Dining	49D Phi Kappa Phi
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54 Tennis Courts	
55 Cummings Gym	
56 Wesley House - Methodist Center	
57 Public Safety	

Important Stetson University phone numbers
 Admissions 386-422-7100 • Office of Public Relations & Communications 386-422-8920
 Public Safety 386-422-7300 • Main Line 386-422-7000

Revised 12/2008

Friday, March 16

RECEPTION 7-8:30 pm

Hosted by Bethune-Cookman University and Embry-Riddle University
Dupont-Ball Library

Come meet the presenters and faculty mentors in a relaxed setting, with a reception graciously provided by Stetson's sister universities in Daytona Beach. A poster from each participating school will be displayed at the reception as a taste of the exciting day ahead on the 17th. Come listen to the smooth jazz tones of Thin Film Magnetism, a local faculty ensemble, while you meet your colleagues from across the state. Afterwards, take advantage of the hopping nightlife of DeLand Florida on Bike Weekend!

Saturday March 17

**BREAKFAST 8:30-9:15, Hollis Rinker Fieldhouse and J. Ollie
Edmunds Center**

POSTERS SESSION A 9:15-11:45 Hollis Rinker Fieldhouse A

A1: **Yassine Dhane** (UF), Oscillating salt water jet

A2: **Ashley Haddock** (UNF), Transcriptional regulation of Dual specificity phosphatase 4 (Dusp4) by Muscle-specific RING finger protein 1 (MuRF1)

A3: **Rachel Thome** (UF), Hand Size Estimation is a Predictor of Clinical Pain in Fibromyalgia

A4: **Tavya Benjamin** (U Tampa), Luminescent Europium(III) Complexes for Anion Sensing Applications

A5: **Christopher W. Bessette, Ashley Schiffmacher and Brett J. Reynolds** , (Florida Southern College), Adaptive Phenotypic Plasticity in the Hindlimb of the Cuban Brown Anole (*Anolis sagrei*)

A6: **Harrison Neal** (Stetson U), A Reliable Covert Communication Scheme Based on Voip Steganography

A7: **Jodi-Ann Browning-Bent and Ricardo DeMoya** (Barry U), Successful year-round fertilization and development of *Fundulus heteroclitus* in the laboratory

A8: **Vishal Patel** (UNF), Exploration of marine natural products as sources of antibacterial compounds.

A9: **Jillian Campbell and Joseph Macedonia** (Florida Southern College), An Acoustic Analysis of Individual Signatures in the 'Whinny' Vocalization of the Domestic Horse

A10: **Jeanne Ambrose, Sarah J. Keane, Iqra Javed, LouAnne B. Hawkins, and Christopher Leone** (UNF), Preference for Consistency: Predicting the Use of Stereotypes in Cases of Molestation

A11: **Lauren Cherry, Brad Bartel, Natasha Mohamed, and Joseph Macedonia** (Florida Southern College), A Comparative Study of Headbob Display Structure in Two Dewlap Color Forms of the Green Anole, *Anolis carolinensis*

A12: **Patrick Cherubin and Camila Garcia** (UCF), Polyphenolic Compounds of Grape Extract as Potential Inhibitors of Cholera Toxin

A13: **Taryn Cranford and Mary Utter** (U Tampa), Genetic Investigation of Limbal Squamous Cell Carcinoma in Haflinger Horses

A14: **Chris Cruikshank** (Florida A&M U), Computational Investigation of Available Resources for Natural User Interaction

A15: **Rebecca Black, Austin D. Carter, and Christopher Leone** (UNF), When Romantic Relationships Go Wrong: Self-Monitoring and Differences in Coping

A16: **Valentina Bolanes, Vita Argento, LouAnne B. Hawkins, and Christopher Leone** (UNF), Perceptions of Child Physical Abuse: The Impact of Defensive Confidence on the Use of Sex Stereotypes

A17: **Michael Dougherty** (FSU), Allometry and Morphological Response to Queenlessness in the Florida Harvester Ant, *Pogonomyrmex Badius*

A18: **Christopher Emerson** (FIU), Restriction enzyme assays of the allosteric effects of Ametantrone and Ametantrone derivatives on the binding of DNA Polymerase I to PhiX 174 RF DNA

A19: **Natalie Hofmann and Michelle Obi** (UNF), Who People Say I Ought to Be vs. Who I Think I Should Be: Self-Monitoring and Self-Discrepancies

A20: **Sara Haynes and Christopher Leone** (UNF), Does It Hurt More to be Ostracized Because You're Not Cool or Because You're Not Similar? It Depends

A21: **Sue Ann Flores, Lauren Sanchez, Gina Guillaume, and Christoph. J. Hengartner** (Barry U), Identification of synthetic lethal interactions between *cdc13-1* and *yku80* mutant alleles in *S. cerevisiae*

A22: **Christopher Frye and Costas Efthimiou** (UCF), Spherical Harmonics in Higher-Dimensional Euclidean Spaces

A23: **Stephen Gilbert and Svetlana Vasilyeva** (UF), Ultrasonic Spray Deposition for Scalable Carbon Nanotube Thin Films

A24: **Jennifer Gonzalez** (UCF), Clinical Indicators and the Effects of Treatment for Child and Adolescent Sexual Abuse Survivors

A25: **Geoffrey Gray and Juan Baso** (USF), Molecular Docking for Development of Selective Retinoid X Receptor Agonists

A26: **Ray McClain, April Pearson, Toan Nguyen, and Jasmine Herbert** (Florida Southern College), Effects of Nutrient Concentration and Turbulence on the Potential of Chlorella for Biofuel Production

A27: **Talia Guardia, Alejandra Toro, Talia Guardia, Reshma Baddaloo, Shakima St. Clair, Graham Shaw, and Xiaotang Hu** (Barry U), A puzzle in TGF-mediated cdk activity in human myeloid leukemia cells

A28: **Austin Vance** (Eckard College), An Application of Behavior-Driven Design to Classroom Software

A29: **Santiago Guisasola** (UCF), The semiclassical limit of the one-dimensional focusing nonlinear Schrodinger equation (NLS) for compactly supported initial data.

A30: **Brett Abraham** (Stetson U), Analyzing Reverberation Times in a Class Room

A31: **Christian Bureu, Elizabeth Leblanc, and Leticia Vega** (Barry U), The role of nuclear Pif1p during meiosis

A32: **Garrett Fitzpatrick, Milap S Sandhu, Warren J Sher, Tina F Cheung, Garrett M Fitzpatrick, Alex J Tiemeier, Eric D Laywell, Brendan A Reynolds, and Dave D Fuller** (UF), Intermittent Hypoxia to Condition Neural Progenitor Cells in Transplant Strategies

A33: **Jonas Carson** (Valencia College), Hidden Trends in Everyday Computing

A34: **Marcela Toro, Sandra Richardson, Dana Brierre, Nella Delva, Christine Lynch, Anna-Gaye Nicholson** (Barry U), The effect of embryonic ethanol exposure on zebrafish development

A35: **Ivan Trivino** (UCF), Turbulence Model Comparison of Flow over a Backward-Facing Step

A36: **Chris Vanderslice and Emilija McNulty** (St. Petersburg College), Protein Expression in Apoptosis and Cell Proliferation

A37: **Bryan Henderson**, (UCF), College Student Attitudes about Cheating and Plagiarism

A38: **Leonold Evans Jr.** (UF), Promises: Progenitor Endothelial Cells as a Marker of Endothelial Injury and Repair in Sepsis

A39: **Travis Williams** (U. Tampa), The Biofilm Viability and Antibiotic Sensitivity of A Naturally Isolated Tetracycline Resistant *E.coli* Strain

A40: **Erika Young** (UCF), The Influence of Educational Differences on Marital Satisfaction in Low-Income Couples

A41: **Jennifer Griffis** (Santa Fe College), Analysis of Ionized Water for Silver Nanoparticles

A42: **Ashley Phillips, L. Rex Ellis and Todd Osborne** (UF), Subaqueous Podzolic Carbon Influenced by Sea-Level Rise

A43: **Peter Tonner, Vinodh Srinivasasainagendra, Shaojie Zhang, and Degui Zhi** (UCF), Transcriptomic Profiling of Ribosomal Protein Pseudogenes in Diverse Human Tissues

A44: **Alexis Guevara, Charles A. Yowell, and John B. Dame** (UF), Characterization of the expression pattern, processing, and subcellular localization of native PfPM9 during the asexual erythrocytic developmental cycle of *Plasmodium falciparum*.

POSTERS SESSION B 9:15-11:45 J. Ollie Edmunds Center

B1: **Adam Chen** (FAU), Assessing Reef Population Connectivity through the Integral Projection Model

B2: **Erick Douglas, Nihar Goswami, and Marc Mazou** (UNF), Osprey Flight Path

B3: **Chris Freire** (FSU), Value without God

B4: **Carlos Gomez** (FIU), Corporate Sustainability Reports in Asia and Latin America

B5: **Gregory Leighton** (UF), Castra et Urbes Lapideas: Functions and Legacies of Stone Castles of the Teutonic Order.

B6: **Paola Moore** (George Mason U), Southern Europe's Dilemma: Providing humanitarian aid while preserving its border security

B7: **Jesus Borrero** (FIU), Effects of Ethnicity on Voting Behavior: A Case Study

B8: **Gilly Bortman** (U Miami), Friendship Type as a Moderator of Withdrawn Behavior and Academic Achievement in Preschool

B9: **Julian Bravard** (Jacksonville U), Simulation for everyone: bringing event driven simulation to undergraduate education.

B10: **Kyle Bridge** (UNF), We Have Lost the State for a Long, Long Time: The Failure of Republicans and Reconstruction in Florida, 1868-1877

B11: **Jacob Brodnick, Kevin Matiko, Lin Lin, Finn Carlsvi, and Wenbo Dong** (ERAU), Eco-Dolphin Project at Embry-Riddle Aeronautical University

B12: **Michael Brooks** (UCF), Civilizing the Metropole: The Role of the 1889 Parisian Universal Exposition's Colonial Exhibits in Creating Greater France

B13: **Brianne Burton and Steve Morton** (Valencia College), Comparison of salinity and phytoplankton abundance along the US Coastline

B14: **Rachel Burnett** (Stetson U), You can lead an egret to water, but you can't make him forage: wading bird species richness and abundance relative to fluctuating water levels at a wetland restoration site

B15: **Elizabeth Bullock** (Stetson U), On the Market: Exploring Similarities and Differences of Self-Presentation in an Online Dating Community

B16: : **Nicole Allen** (FSU), Not Even Safe at Home: A Critical Look at United States Human Trafficking

B17: **Augusto Bejar** (FIU), Anime as a tool of enlightenment for Japanese Women

B18: **Matthew J. Cicanese**, Gabriel J. Langford, and Eric W. Kjellmark (Florida Southern College), Lichen Biodiversity of Northwestern Polk County, Florida: Implications for Air Quality.

B19: **Jessica Collier** (UCF), An analysis of parental income, education level, and distress in parents of children with special needs.

B20: **Marie Cram** (St. Petersburg College), Hogarth's Influence on Gin Laws: Art Influencing Alcohol in 18th Century London.

B21: **Carlos De La Riva, Amel Atie, Alfredo Molina, Benjamin Vine, and Tareq Abu Mejdad** (Lynn U), Social Entrepreneurship: Innovating Toward Sustainability

B22: **Jonathon Diaz** (U. Miami), El "Derecho al Olvido" - The "Right to be Forgotten" : A comparative analysis of US and EU internet privacy law

B23: **Camille Thomas, Nicole Dodd, Maria Roman, and Janice Stiglich** (UCF), Leading Out Loud (L.O.L.):YWLP's Campaign to Draw Lines Against Bullying and Harassment

B24: **Juan Alonso** (FIU), FRONTEx: A comparative case study on human rights and power sharing.

B25: **Emily Edwards and Shannon Whitten** (UCF), An Examination of the Prejudicial Value of Visual Evidence in the Context of a Criminal Court Case

B26: **Ada Espinoza** (George Mason U), Child trafficking in Argentina: sex exploitation, child labor and illegal adoptions

B27: **Sasha Tittel** (UCF), The Benefits of Companion Planting: Experimenting with Okra and Sunflower/Cabbage and Sage

B28: **Jessica Bianco** (Stetson U), Music for Social Change in Minas Gerais, Brazil

B29: **Chelsea Franco** (FIU), The Sidney Project: Bringing a New Renaissance to Renaissance Authors

B30: **Rokeshia Ashley**, (UF), Fashion, the Media and Youth Behavior: How celebrities and socialites fashion influence Youth

B31: **Megan Boehm** (FAU), Research Topics in Painting

B32: **Jasmine Gonzalez** (FAU), Behavioral Enrichment of Captive Black Bears (*Ursus americanus*)

B33: **Catharine Hargenrader, Tessa Skilton, Madeleine Gagne, Adania Flemming** (U Tampa), Spatial and Temporal Variation in Epiphytic Macroalgal Community on Mangrove Pneumatophores in Tampa Bay.

B34: **Ryan Henry, Jesse Robinson and January Watters** (St. Leo U), Potential presence of antibiotic resistant organisms in Tampa Bay molluscs.

B35: **John Horton and Samantha Wootan** (UNF), Is a Picture Worth 1,000 Words?

B36: **Michael Whiteside** (U Tampa), Effects of predatory blue crabs on the byssus production in the non-native Asian green mussel *Perna viridis* in Tampa Bay

B37: **Marina Lauck and Evelyn Frazier** (FAU), An analysis of the vegetation within the FAU Preserve as a basis for management of scrub habitat for *Gopherus polyphemus*

B38: **Adee Benartzy** (UCF), The Pastel Medium: Communicating Sexuality and Promiscuity in Late Nineteenth-Century Paris

B39: **Daniel Tapanes** (FIU), Crisis, Questions, and Cures? Public Health of the Peruvian Amazon Rainforest

B40: **Gabriella Wuyke, Sonia Zniber and Sofia Lakhdar** (Lynn U), Rethinking School Food: Moving from Consumerism to Sustainability

B41: **Zachary Zermay** (FSU), The Syrian Crisis An Opportunity to Strike at Assad through the Execution of a No Fly Zone and Utilization of the International Criminal Court

B42: **Kane Magnuson** (St. Petersburg College), China, Taiwan and the One China Principle

FACULTY PRESENTATIONS A 9:30-10:30 Science 218, 221, 257

Off-Campus Undergraduate Research Experiences Science 218

Kimberly Schneider, University of Central Florida

There are numerous programs that invite undergraduates to leave their home institutions to conduct research. Opportunities are available at universities nationwide, as well as research facilities (e.g., the National Institute of Health). Undergraduates from all disciplines, from polar science to world politics, from computer vision to archaeology, can find research topics of interest to them. The majority of these research programs are available during the summer, with applications due in February and March. However, opportunities are offered throughout the academic year. This seminar will provide an overview of these opportunities including the typical application process, student requirements, and program structure. Several specific programs will be reviewed in detail. The seminar will also provide tips on how to find the right program for each individual student.

***LEVERAGE – An Interdisciplinary Honors QEP Program Facilitated by Analogical and Virtual Research Labs* Science 257**

Hong Liu, Embry-Riddle Aeronautical University

LEVERAGE stands for Learning Enhancement Via Experimentation Research And Guided Exploration. It is an interdisciplinary Honors QEP Program facilitated by analogical and virtual research labs. The three folds of strength of the LEVERAGE program synergize to a pivot to leverage the challenges of the REU program. The students can explore a problem under concern from all three different legs of sciences, which are: the theory, the computational science, and the experimental science.

The PIs observed that the following three major challenges that hinder the success of the REU:

1. Critical thinking: Most undergraduates only got trained to plug in data to formulas and demonstrate little ability to extend mathematics concepts beyond an algorithmic level. Hence, most research topics suitable for graduate students are not proper for REU because the problems with scientific significance rarely fit the scope of one to two courses for undergraduate students.
2. Complexity: Undergraduates lack experience to divide complex problems into multiple comprehensible small problems. However, the complexity of valuable scientific research is typically beyond the comprehensibility of undergraduates.

3. Applicability: Undergraduates have limited domain knowledge to their applications. Therefore, they cannot connect the domain knowledge to validate their mathematical models. They are even more intermediated to open ended problems.

The three folds of unique strengths of the LEVERAGE program provide sound, original, and ERAU/QEP designed solutions to the three above challenges of REU:

1. The LEVERAGE program will select specific interdisciplinary topics whose individual components fit the disciplinary boundary and size limitation of individual team projects for undergraduates yet those small components can be assembled to significant scientific endeavor.

2. The LEVERAGE program can provide undergraduate researchers the required guided exploration to the problems under concern. A model centered methodology and system engineering procedure will be used to guide them to take small steps, analyze the problems incrementally and refine the results iteratively.

3. The LEVERAGE program is facilitated by the analogical and virtual dual labs. The facilities provide students the immediate visual and hand-on feedback to their queries. The Nonlinear Wave lab facilities (NLWL2 and 3) provide students the unique hand-on experience to measure and validate their research results. The computing software tools offers the students the opportunities to visual platform to build and simulate their mathematical and computing models.

Every path has its puddles, but you don't have to step in them: Negotiating potential problems in the mentor-protégé relationship Science 221

LouAnne Hawkins, University of North Florida

Are you a faculty-mentor that experienced one of those train wreck relationships with a student-protégé? Perhaps you are a student that still does not understand what went wrong while you were working with a faculty member. Others of you may have had rich, productive mentor-protégé relationships. Regardless of your previous experiences, these relationships are vital to the productivity of faculty and the success of students. Why is it then that some mentor-protégé relationships seem charmed whereas others appear disastrous? The mentor-protégé relationship, like most relationships, is a dynamic association fraught with opportunities for success as well as disaster. The relatively predictable trajectory of this relationship enables informed mentors and protégés to better negotiate those periods during which conflict and poor judgment may undermine the relationship. The conventional trajectory of a mentor-protégé relationship and related reactions as well as functional and dysfunctional responses will be discussed. In this workshop, we will use scenarios to illustrate some of the common pitfalls into which faculty and students sometimes fall. We will further discuss warning signs of these potential pitfalls as well as strategies for avoiding these problems before they occur and recovering from them after they occur.

FACULTY PRESENTATIONS B 10:45-11:45 Science 218, 221, 257

Making the Leap from Undergraduate to Graduate Science 218

Kimberly Reiter, Stetson University; **Katie Fitzgerald**, University of Central Florida; **Andrew Kameronosky**, Bethune-Cookman University; **Jennifer Snyder**, Stetson University

Sometime in the undergraduate researcher's junior year comes the realization that it is time to prepare for graduate school. While you may have the forms and interviews in order, are you truly prepared for this venture? Do you have the discipline and determination to take on graduate work? Four recent graduate students in various fields talk about making the leap from undergraduate star to graduate school workaholic, and will help you decide for yourself whether graduate school is right for you. The panel will invite discussion on topics ranging from how to decide if the graduate school is the right fit for you, financial and social challenges, academic rigor and how to be successful in your chosen program.

Enhancing STEM Students Research Experience via Computing Science 257

Hongmei Chi, Florida A&M University

There is a growing concern that the United States is not preparing an adequate number of students, teachers, and practitioners in the area of science, technology, engineering, and mathematics (STEM). In this paper, we present how to increase the number of STEM students who graduate with discipline-specific computational competencies that enhance student performance and broaden opportunities for employment, advanced study and career growth. Computational skill has become a basic skill that all STEM students need to find their place in the workplace and to succeed in advanced study. Through conducting discipline-specific computational projects with STEM faculty, those STEM students are interested into cross-disciplinary research among STEM disciplines. Their research experiences and successes have laid a solid foundation for students to pursuit advanced degrees. The faculty at CIS Department has served as catalyst for identifying computational competencies and developing research projects and supporting other STEM faculty development to promote application of discipline relevant computing technology.

Promoting a Meaningful Undergraduate Research Experience Science 221

Flona Redway and Teresa Petrino, Barry University

Barry University offers research in the sciences as part of its curriculum, and students are directly mentored by faculty in their research laboratories. This presentation discusses our research profile across academic disciplines and levels. All freshmen in the sciences are invited to participate in the ROADS club to expose them to undergraduate research. Students carry out authentic interdisciplinary group research and present at our annual STEM symposium. Sophomores in RISE are paid hourly to carry out independent research with Barry faculty during the fall and spring semesters; during the summer they carry out research at research intensive laboratories; and present at national scientific meetings. As juniors and seniors, MARC trainees receive tuition, benefits, and stipend and follow an enriched curriculum. Trainees enroll in a bioinformatics course, carry out academic year research with a Thesis for credit and also spend the summer in research intensive laboratories. Student evaluation show that engaging in research, whether at Barry University or at a research-intensive institution, and presenting at scientific meetings are viewed as the most effective components of the curriculum, and indeed these activities are the core of our research education programs. (Supported by NIH NIGMS MARC U*STAR Grant, T34 GM008021 and MBRS RISE Grant R25GM059244.)

LUNCHEON 12-1:30 Hollis Rinker Fieldhouse B

Opening Remarks: Dr. Beth Paul, Provost, Stetson University

Keynote Speaker: *Right Brain/Left Brain: A Half-brained Idea?*

**Dr. Camille King, Assoc. Professor of Psychology,
Stetson University**

Dr. Camille Tessitore King is an Associate Professor in Psychology at Stetson University. She received her undergraduate (B.A) and graduate (M.A. & Ph.D.) degrees in biological psychology from the University of Virginia. After completing the PhD, she completed post-doctoral positions at the University of Michigan and the University of Florida, working there with Dr. Alan Spector. Her collaboration with Dr. Spector, who now is at Florida State University, has continued for 15 years. Dr. King has published numerous articles on the effects of taste nerve degeneration and regeneration on neuronal activity and taste-related behaviors in rats. She has also been a principal or co-investigator on several grants from such

prestigious organizations as the National Institutes of Health and the National Science Foundation—including one with her husband Michael King, professor of Biology at Stetson. Dr. King's passion is teaching about the brain. In addition to her regular courses, she serves as coordinator of the Betty Batson Bell Brain & Learning Lecture series, in which she gives lectures each semester on how the brain learns and remembers and the factors that influence these processes. One of her favorite constituencies to talk to are school-aged children, who seem the most fascinated with learning about their brains! Dr. King was also honored for her outstanding work with undergraduates with a Faculty Advisor Research Grant from the International Honor Society in Psychology (Psi Chi).

FACULTY PRESENTATIONS C 1:45-2:45 Science 218, 221, 257

Financing Your Graduate Education Science 218

Michael Aldarondo-Jeffries, University of Central Florida

"How am I going to pay for this?" It's a major concern for most people pursuing a graduate education. This session will educate students about the different types of funding available, application procedures, and various deadlines. This presentation is ideal for anyone considering applying to graduate school in the future.

Designing an Integrated Interdisciplinary Environmental Program that Uses Graduate Student Mentors in Support of Undergraduate Student Research Science 257

Michael Reiter and Rashan Moss, Bethune-Cookman University

In interdisciplinary or higher-order programs, faculty and students often have differing backgrounds. While this can provide challenges for program design, it offers the opportunity to learn from each other as well as from more traditional sources. This presentation will focus on the design of the undergraduate program of the Department of Integrated Environmental Science (IES) at Bethune-Cookman University, with particular emphasis on the integration of different disciplines within a single department, the role of service-based research, and the use of graduate students as undergraduate student research mentors under the supervision of a faculty member. The IES department, including the curriculum, degrees, and administrative structure, was designed by a member of the Interdisciplinary Environmental Association (an

organization of academics who approach environmental issues from interdisciplinary perspectives) with program design experience and Campus Compact training. Drawing from this background, service-based interdisciplinary goals were developed, and learning outcomes were formed based on the latest recommendations of the Environmental Systems and Sustainability Roundtable. The centerpiece of the B.S. program is a required service-based research project focused on environmental topics of local importance and requiring the application of interdisciplinary perspectives. In this way, B-CU students learn about interdisciplinary environmental issues in a format that promotes hands-on research experience useful to the local community. Undergraduate students are also matched with an IES graduate student whenever possible so that they can learn from the graduate student as well as from the project, gain a support person closer to their age and experiences, and see in their mentor a potential model for graduate-level work. The graduate student gains supervisory skills, possible assistance with a part of their research, and the chance to learn from the mentee. Examples and lessons learned from the IES field research programs at Bethune-Cookman University and the Stetson University field course "The Early English Landscape" will be discussed.

Making Research Matter: Incorporating Community-Based Research in an Undergraduate Curriculum Science 221

John Schorr, Stetson University

This presentation will describe the development of a community-based research initiative for students, faculty, staff, and community partners at Stetson University. Over a period of six years this initiative, begun as a part of the federally-funded National CBR Initiative administered by Princeton University's Community-Based Learning Initiative in partnership with the Corella and Bertram F. Bonner Foundation, has grown to include several very active faculty scholars and staff, dozens of community partners, and well over a hundred students.

The presentation will address issues associated with:

1. Defining an undergraduate CBR program.

For example, the Stetson University Community-Based Research program facilitates faculty, student, and community collaboration to plan and conduct research. Community-Based Research has a strong focus on addressing social problems identified by the community. Students learn to apply the theories and methods they have mastered in the classroom to real problems in the community and communities gain access to the rich research resources of the university. The result is a powerful learning experience for students and faculty as well as a valuable research product for communities.

2. Starting an undergraduate CBR program.

3. The challenges of an undergraduate CBR program for faculty, students, community partners.
4. The rewards of an undergraduate CBR program for faculty, students, community partners.

The session will conclude with an open discussion of the use of CBR in developing undergraduate research skills and competencies.

POSTERS SESSION C 1:45-4:15 Hollis Rinker Fieldhouse A

C1: **Jaclyn Irwin** (UF), Genetic Analysis of Captive and Released Perdido Key Beach Mice

C2: **Elizabeth Kowalski, Elizabeth A. Staiger, and Samantha Brooks** (U Tampa), A Genome-Wide Association Study Identifies Locus for Eye Color Variation in Puerto Rican Paso Fino Horses

C3: **Stephen Lee** (Stetson U), Insights: Sonifying Search Data

C4: **Timothy Roberts and Alicia Schultheis** (Stetson U), Effects of Different Algal Diets on Growth in Florida Freshwater Snail *Floridobia floridana*

C5: **Virginia Triplett** (UNF), Transcriptional Repression of the RING Finger/SPRY Domain Containing 1 (Rspry1) gene by Muscle-specific RING Finger 1 (MuRF1)

C6: **Joel Johnson and Christopher Williams** (UNF), “Your halfalogue is making me feel out of the loop”: Overhearing partial conversations leads to feeling excluded and ignored.

C7: **Stephanie Klages** (UNF), The Inclusivity and Exclusivity of Laughter

C8: **Herrick Smith** (UNF): A Geospatial analysis of the Osprey Fountains Residence Hall

C9: **Bhargav Kondeti** (UF), Rational Drug Design of Carbonic Anhydrase IX inhibitors.

C10: **Angel China** (U Tampa), A Comparative Study on the Dysmorphological Features of FAS Across Various Animal Models

C11: **Geoffry Laufersky** (FSU), Microwave Synthesis of Nanocrystals

C12: **John Correa** (FIU), Can a color-sound synesthetic experience be induced through classical conditioning?

C13: **Omar Leon** (FIU), Geometric Structures on Lie algebras Associated with Simple Graphs

C14: **Jie Liang** (UCF), Approximation by Bernstein Polynomials at the Point of Discontinuity

C15: **Jane Han** (UNF), Antibacterial and antidiabetic natural products from Florida marine bacteria

C16: **Yinting Lo and Jennifer Maier** (UF), Role of *Foxa* Genes in Intervertebral Disc Development

C17: **Kendall McCollough** (UCF), Determining the Sex of Juvenile Skeletal Remains via Dentition

C18: **Chad McDaniel** (UNF), Single-Molecule Magnets: A Playground for Magnetochemists, Physicists, and Spectroscopists

C19: **Katherine Mejia** (UCF) Marital Expectations Questionnaire: Examining congruence scores in low to moderate income couples with children

C20: **Nicole Millan**, Patricio Lau and Michael Hann (FIU), Genome Organization in the Human Sperm Cell

C21: **Teddy Moumouris** (UCF), The Change in Relationship Satisfaction Scores for Low-Income Couples Participating in Marriage and Relationship Education Workshops

C22: **Nicole Nagrani** (Stetson U), The effect of lateral hypothalamic stimulation on taste-related behaviors and neural activity in the gustatory brainstem

C23: **Tyler Huber**, (UNF), Design and Synthesis of a Chelation-Inducible-Turn Mimic

C24: **Janine Lloyd** (Stetson U), Use of dark repair to reform ultra violet damaged DNA by *Chlamydomonas reinhardtii* after exposure to ultra violet light

C25: **Rachel Peck** (Stetson U), Plant gender is affected by genotype but not environment in *Passiflora incarnata*: potential for evolution of a sexual system

C26: **Alejandra Toro and Gunjan Gahkar** (Barry U), Localization of Dex-propylamine-1X in PC-3 and RWPE-1 prostate cells

C27: **Christopher Ramirez and Zheng Shi** (UCF), Fundamental Study of Polyaniline with Reversible Photoacids

C28: **Christopher Riley** (Stetson U), The neural and behavioral responses to an umami taste solution in conscious rats.

C29: **Anabetsy Rivero** (U Miami), What makes viral recombination host specific?

C30: **Violeta Rodriguez** (FIU), Gender Differences in Alcohol Use and Depressive Symptoms Among College Students: A Reflection of Different Coping Styles

C31: **Cristian Rubiano, Emmeth Duran, and Jarod Weckwerth** (St. Petersburg College), Building-Integrated Photovoltaics

C32: **Kaitlyn Schmutz, C. M. Leonard, S. M. Crawford, M. Behnke, F. D. Eyer** (UF), Orbitofrontal sulcal structure, executive functioning, and prenatal cocaine exposure

C33: **Stephen Schoen** (UWF), The Effects of Fire on Groundwater Chemistry: Initial Observations

C34: **Yasmin Serajfar and Mason Meers** (U Tampa), The effect of dietary divergence and founder populations on tooth curvature and sharpness in two closely related monitor lizards.

C35: **Rachel Sewell** (UCF), What is Appealing?: Sex and Racial Differences in Perceptions of the Physical Attractiveness of Women

C36: **Howard Smart** (Florida A&M U), Practical Investigations on Platform as a Service (PaaS)

C37: **Lauren Smith and Sara Bolivar-Wagers** (UCF), Measuring the genetic effects of a recent population bottleneck of the keystone urchin species, *Diadema antillarum*

C38: **Monica Thomas** (UCF), The Effect of Kinase Inhibitors on Junin Virus Entry

C39: **Kelly Pyle and Terence Farrell (Stetson U)**, The effects of incubation temperature on developmental period and hatchling performance in Ball Pythons (*Python regius*)

C40: **Raphael Benaksas** (FGCU), The Effects of Human Tears on Aid Giving and Bonding Behavior

C41: **Joshua Utter** (Jacksonville U), The Synthesis, Purification, and Characterization of $K[Co_3Ru(CO)_{12}]$ and $K[Co_3Fe(CO)_{12}]$ and Their Potential Applications

C42: **Jeremiah Wadley** (Florida A&M U), Practical Investigation of Security Apps for Smartphones

C43: **Samantha Wootan and Juliana Leding** (UNF), Need for Cognition and memory: Can one's natural processing style be influenced by external factors?

POSTERS SESSION D 1:45-4:15 J. Ollie Edmunds Center

D1: **Rachel Miles** (UCF), Half-Bloods, Heritage, and Narratives of Passing in the World of Harry Potter

D2: **Gabrielle Poon** (UNF), How a coach's gender and expertise level affect an athlete's performance and satisfaction

D3: **Ayman Elyasin** (FIU), Determinants of Consumers' Willingness to Buy Locally Grown Produce in Greater Miami

D4: **Stephen Shiveley, Samara Clarke, Amber Macchia, and Lou McNally** (ERAU), Hurricane Irene Coverage

D5: **Genee Glascoe** (UCF), Parolees' Perceived Deterrence of Graduated Sanctions: Developing a questionnaire for the CDCR Hope Pilot Program

D6: **Mandy Zamore and Christopher Leone** (UNF), Pro-Labor or Pro-Management? Social Dominance Orientation and Thought-Induced Attitude Change

D7: **John Horton** (UNF), Does Facebook Make You Smarter?

D8: **Alexis Harris and Christopher Leone** (UNF), Making a Good Impression or Being True to Ourselves: Which is More Important?

D9: **Amy Leone** (Eckerd College), Roe v. Wade: Increasing Individuals Rights or Enhancing Federal Powers?

D10: **Adria Llerena** (FIU), The Effect of Deployment on the Families of Iraqi and Afghanistan War Veterans

D11: **Kane Magnuson** (St. Petersburg College), The Ascent of the Red Dragon: The Dangers of China Becoming #1

D12: : **Max Gelber** (UF), Blogging and Uyghur Culture in the People's Republic of China (PRC)

D13: **Michelle Martin, Cynthia LaCoe, Linda Wray, Marianne Hillemeier, and Oralía Garcia-Dominic** (UF), The Issue of Misclassification: Self-Reported vs. Clinical Measures of BMI in Younger and Middle-Aged Adults

D14: **Lilian Milanes** (UCF), Health Care Providers Perspectives on Male Involvement in Sexual and Reproductive Health Care Needs

D15: **Felicia Becker** (St. Petersburg College), Social Media, Your Health, and Your Well-being

D16: **Kierstan Monahan, Caroline Silva and Thomas Joiner** (FSU), The Relationship Between Sexual Orientation and Suicide Risk: The Mediating Role of Belongingness

D17: **Krystal Christopher** (UCF), Representation of Breastfeeding in the United States: An Analysis of American Newspaper Articles

D18: **Robert Moulder, David A. Beane, and Christopher Leone** (UNF), Social Capital - As Plain as the Nose on Your Face(book): Self-Monitoring and Facebook Usage

D19: **Bianca Navarrete, Charlotte E. Gallagher, Aaron D. Leedy, and Michael P. Togli**a (UNF), Social Factors May Impact Survival Memory

D20: **Rebecca Panayiotou** (Stetson U), European Culture and its influence on Classical Music: A focused study on the works of Mozart, Bach, and Lalo

D21: **Micah Pastula and Christine Stopka** (UF), The effect of moderate-intensity exercise training on the cognitive function of young adults with intellectual disabilities

D22: **Paige Perez** (UNF), I Buy, Therefore, I Am: Zombification, Abjection, and Consumerism in Paule Marshall's Praisesong for the Widow

D23: **Steven Berry** (UNF), Religiosity and Prejudice: Bringing Allport and Ross into the 21st Century

D24: **Erik Torstensson** (UF), Political Islam in the 21th Century: Towards an Understanding of the Muslim Brotherhood in post-Mubarak Egypt

D25: **Lucie Rincher** (UCF), Preparing Future Communication Disorders and Sciences Scholars: The UCF McNair Scholars Program

D26: **Jason Ritchie** (UNF), The Effects of Time Pressure on Basketball Free Throw Shooting

D27: **Drew Fedorka** (UCF), Projecting Grandeur: President de Gaulle's State Visits of April 1960 in Historical Perspective

D28: **Christine Jacobson** (Stetson U), Protest Voting in Post-Soviet Elections: An Examination of the 'Against All' Vote in the 2010 Kyrgyz Parliamentary Elections

D29: **Laura Tinoco** (UF), Youth Evolutions: From Communist to Post Communist East Central Europe

D30: **Alicia Schrenk** (UNF), The Effects of High Infant Mortality on Juvenile Mortuary Practices

D31: **Nicholas Smith and Michael Reeves** (UCF), Does This Job Make Me Look Old? Theoretical Implications of Age Type on Discrimination

D32: **Chas Stikeleather** (Stetson U), Curbing Academic Dishonesty

D33: **Daniel Tapanes** (FIU), Peruvian Healthcare Reform

D34: **Esteban Santis** (UCF), Deus ex Machina and Manipulation of time in “A New Refutation of Time,” “The Secret Miracle” and “The Other Death”

D35: **Genesys Santana** (UCF), A Case of Double Consciousness: Americo-Liberians and Indigenous Liberian Relations 1840-1920.

D36: **Mueez Qureshi, George Kemp, and Rachel Runac** (UNF), Is Facebook Making us More Selfish?

D37: **Paul Turchan** (UNF), Aches and Pains: The Aversive Consequences of Working with a Burdensome Group Member

D38: **Maria Wrabel** (Stetson U), Achieving Food Security: Food Aid, Government Policy, and the Ties That Bind

D39: Benjamin Kendall , Heather Glass, Mohammad Muhrji, and Joseph Perrotta
(Lynn U), Advertising, Media Literacy, and Sustainability

D40: Jillian Masucci (Stetson U), The Oracle of Omaha

D41: Brian Matilla (FIU), Analysis of the 2011 Tornado Super Outbreak in the
Southeast US via Computer Models

D42: Samantha Schroeder (UCF), The Nature of Love: A Phenomenological
Approach

PRESENTERS AND SESSIONS

Brett Abraham	A30
Nicole Allen	B16
Juan Alonso	B24
Jeanne Ambrose, Sarah J. Keane, Iqra Javed	A10
Rokeshia Ashley	B30
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Chris Freire	B3
Christopher Frye	A22
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Jennifer Griffis	A41
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Santiago Guisasola	A29
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John Horton, Samantha Wootan	B35
Tyler Huber	C23
Jaclyn Irwin	C1
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Joel Johnson, Christopher Williams	C6
Benjamin Kendall, Heather Glass, Mohammad Muhrji, Joseph Perrotta	D39
Stephanie Klages	C7
Bhargav Kondeti	C9
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Marina Lauck, Evelyn Frazier	B37
Geoffry Laufersky	C11
Stephen Lee	C3
Gregory Leighton	B4
Omar Leon	C13
Amy Leone	D9
Jie Liang	C14
Adria Llerena	D10
Janine Lloyd	A8
Yinting Lo, Jennifer Maier	C16

Kane Magnuson	B42, D11
Michelle Martin, Cynthia LaCoe, Marianne Hillemeier, Oralia Garcia-Dominic	D13
Jillian Masucci	D40
Brian Matilla	D41
Kendall McCollough	C17
Chad McDaniel	C18
Ray McClain, April Pearson, Toan Nguyen, Jasmine Herbert	A26
Katherine Mejia	C19
Lilian Milanés	D14
Rachel Miles	D1
Nicole Millan, Patricio Lau and Michael Hann	C20
Kierstan Monahan	D16
Paola Moore	B6
Robert Moulder, David A. Beane,	D18
Teddy Moumouris	C21
Nicole Nagrani	C22
Bianca Navarrete, Charlotte E. Gallagher, Aaron D. Leedy	D19
Harrison Neal	A6
Rebecca Panayiotou	D20
Micah Pastula, Christine Stopka	D21
Vishal Patel	C24
Paige Perez	D22
Ashley Phillips, Todd Osborne	A42
Gabrielle Poon	D2
Kelly Pyle	C39
Mueez Qureshi, George Kemp, Rachel Runac	D36
Christopher Ramirez and Zheng Shi	C27
Christopher Riley	C28
Lucie Rincher	D25
Jason Ritchie	D26
Anabetsy Rivero	C29
Timothy Roberts	C4
Violeta Rodriguez	C30
Cristian Rubiano, Emmeth Duran, Jarod Weckwerth	C31
Genesys Santana	D35
Esteban Santis	D34
Kaitlyn Schmutz	C32
Stephen Schoen	C33
Alecia Schrenk	D30

Samantha Schroeder	D42
Yasmin Serajfar	C34
Rachel Sewell	C35
Stephen Shiveley	D4
Howard Smart	C36
Herrick Smith	C8
Lauren Smith, Sara Bolivar	C37
Nicholas Smith, Michael Reeves	D31
Chas Stikeleather	D32
Daniel Tapanes	B39, D33
Monica Thomas	C38
Rachel Thome	A3
Laura Tinoco	D29
Sasha Tittel	B27
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Alejandra Toro, Gunjan Gahkar	C26
Marcela Toro, Sandra Richardson, Dana Brierre, Nella Delva, Christine Lynch, Anna-Gaye Nicholson	A34
Erik Torstensson	D24
Virginia Triplett	C5
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Chris Vanderslice, Emilija McNulty	A36
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Michael Whiteside	B36
Travis Williams	A39
Samantha Wootan	C43
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Gabriella Wuyke, Sonia Duchesne, Sophia Lakhdar	B40
Erika Young	A4
Mandy Zamore	D6
Zachary Zermay	B41

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- David Hill, Ph.D., Associate Professor of Political Science
- Sidney Johnston, Foundation Relations Officer, Corporate and Foundation Relations
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- Christopher Tobler, Ph.D. Assistant Professor of Finance
- Jean Wald, Assistant Professor and Music Librarian
- John York, Ph.D., Assistant Professor of Chemistry

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- Larry Ramsey, Physics Department Machine Shop Technician and Dr. Kevin Riggs for poster easels.
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- Stetson Catering for the fine job in hassled circumstances
- Most especially, the FURC interns Anjelica Johnston, Cayman Calabro and Christopher King, without whom all would have fallen apart.

