2010 BRIGHT IDEAS CONFERENCE

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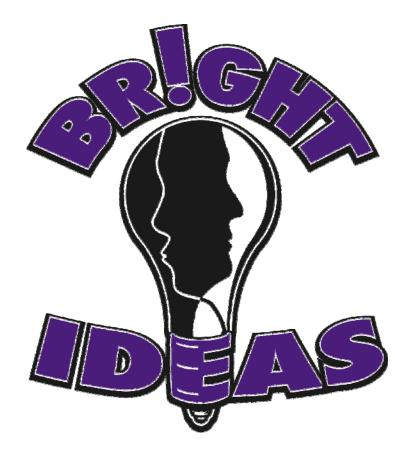
TEACHING EXCELLENCE CENTER

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BRIGHT IDEAS CONFERENCE



A showcase spotlighting faculty research, scholarship and artistry

Thursday, April 8, 2010 Pattillo Student Center, 2nd Floor Stephen F. Austin State University

SCHEDULE OF EVENTS

Research Posters and Scholarly Exhibits

10:00 a.m. - 5:00 p.m. Grand Ballroom Featuring more than 100 posters & exhibits

Opening Session & Speaker Award Presentations

12 noon - 1:00 p.m. Twilight Ballroom Reception at 11:30 a.m.

Spotlight Presentations

1:00 p.m. - 4:30 p.m. Regents' Suites A & B

Spotlight Speaker	Regents'	Time
Ryan Phelps <i>Nelson Rusche College of Business</i>	В	1:00- 1:25 p.m.
Odutayo O. Odunuga College of Sciences & Mathematics	Α	1:30- 1:55 p.m.
Erin Brown College of Forestry & Agriculture	В	2:00-2:25 p.m.
Marc Guidry & Charles Jones College of Liberal & Applied Arts	А	2:30-2:55 p.m.
M.E. McWilliams Steen Library	В	3:00-3:25 p.m.
Dean Kniss & DawnElla Rust <i>College of Education</i>	Α	3:30-3:55 p.m.
John Cotner <i>College of Fine Arts</i>	В	4:00-4:25 p.m.

Free Admission - Cole Auditorium

7:30 p.m. Costa Rica's Minister of Culture, Manual Obregón Performing *Symbiosis: piano & rainforest* Khamadaliev R, Martynova-Van Kley A, Nalian A, Bray J Productivity and extent of Maxon formation, Bell and Knox Counties, KY Logan B, Maxey B, Brown W

treated with coccidiostat using real-time PCR

Induction of programmed cell death in colon cancer cells by doxorubicin Mall S, Clack B

Monitoring Eimeria maxima, tenella and acervulina in challenged broilers

- A model for identifying and intervening with at-risk nursing students Miller G, Putnam T, Glymph D
- High throughput sequencing provides insight on diversity of intestinal microflora in broilers Monoharan M, Martynova-Van Kley A, Nalian A, Bray J

Expression, purification and biochemical characterization of a gene implicated in dwarfism and polydacty Odunuga O, Monsivais A

Experimental and DFT investigation of the structure and infrared vibrational spectra of 9, 10-dihydrobenzo(a)pyren-7(8H)-one and 7,8,9,10-tetrahydrobenzo (a)pyrene

Onchoke K, Nolan A, Parks M

- Affect of seasonal changes in Arbuscular mycorrhizal communities Patnaik S, Martynova-Van Kley A, Van Kley J
- Nursing leadership and ROTC: a collaborative teaching strategy Powell R, Migl K

Wetland vegetation changes at Caddo Lake, Texas, resulting from multiple exotic plant invasions Van Kley J

Cloning of the enzyme responsible for damaging wheat in Syria Yendamuri R, Clack B



SPOTLIGHT SPEAKERS

The gods are coming! Globalization, religion and religiosity in the United States Segady T

The communicative constitution of organizational practices in changing environments: contributions of practice-based CCO literature to questions of sustainability

Spradley R

Why local weather conditions are a slow indicator of climate change Szafran B, Williams J, Roth J

Representing the Ralph W. Steen Library

Videos for classes (VFC) Reynolds R

Connecting with distance education students: the embedded librarian Wright B, Oswald T, Turnage M

Representing the College of Sciences & Mathematics

Windbelt, cheap generator alternative, set to power third world Bruton D, Myers E

The Gauss radon transform Chang C, Becnel J

Combustion analysis of fatty acid alkyl ester mixtures Franks R, Molino R, Frantzen A

The preteatment of montmorillonite clays: step-by-step effects of treatment Frantzen A, Perry J

Characterization of black shale using DSC and combustion calorimetry Frantzen A, Poe C

The evolution of facial stripes in New World pitvipers: testing ecophysiological and signaling hypotheses Kwiatkowski M, Burt B



Ryan Phelps, Ph.D. Assistant Professor of Economics & Finance *Nelson Rusche College of Business* 1:00 - 1:25 p.m. Regents' Suite B

Bringing data to life in the classroom

Gapminder World (http://www.gapminder.org/world) is a free, simple and engaging Internet-based resource for illustrating relationships between a host of variables at national and sub-national levels. The format instantly and intuitively conveys a great deal of information. Gapminder

World is an online motion chart. A motion chart displays the relationship between two variables and animates the changes in that relationship over time. This tool can be readily used to energize students' natural curiosity regarding real world events, converting it into genuine motivation to understand content in a variety of courses. Faculty, whose courses may not relate to the many variables that can be illustrated in Gapminder World, will also learn how to build custom motion charts using course relevant data and Google Documents spread-sheets. I will demonstrate both the use of Gapminder World towards motivating course content and the process of developing a custom motion chart.



Odutayo O. Odunuga, Ph.D. Assistant Professor of Chemistry *College of Sciences and Mathematics* 1:30 - 1:55 p.m. Regents' Suite A

Expression, purification and biochemical characterization of a gene implicated in dwarfism and polydactyly

Ellis van Creveld (EvC) syndrome is a rare human genetic disorder resulting from abnormal bone and muscle development, and is characterized by

mild short stature, postaxial polydactyly, dysplastic nail and teeth and heart defects. Genetic studies demonstrated that mutations in a gene known as EvC caused phenotypes that were clinically similar to EvC syndrome. The EvC gene encodes a novel protein with putative transmembrane, nuclear localization signal, and leucine-zipper structures; otherwise it shares no major similarities with other proteins to give clues to its functions. Recent experiments using a mouse model suggested that EvC is a regulator of the hedgehog signal transduction pathway that controls the development and growth of bones during embryogenesis. Bioinformatics analysis in our laboratory indicated the presence of a putative enzymatic region in the protein sequence. As a first step towards elucidating the function of the EvC protein, we have successfully cloned the EvC genes that encode fragments and full-length protein products into bacterial protein expression vectors. We have expressed these proteins and are developing strategies to isolate and purify them to homogeneity for structural and enzymatic studies. Our studies provide the first attempt to unravel the functions of this gene using biochemical techniques.

SPOTLIGHT SPEAKERS



Erin G. Brown, Ph.D. Assistant Professor of Animal Science *Arthur Temple College of Forestry* & Agriculture

Influence of weaning strategy on animal welfare

The prevailing method of weaning livestock involves abrupt separation from the dam resulting in change in feed and living environment. These changes result in behavioral and physiological responses indicative of

2:00 - 2:25 p.m.

Regents' Suite B

distress that are unfavorable to livestock production and animal welfare. Dams naturally wean offspring by reducing nursing. Newly weaned animals will have an increase in vocalization and pacing while spending less time eating, drinking and resting. Weaning stress can also be associated with attenuation of immune function and an increase in disease susceptibility. Although abrupt weaning in livestock has occurred for many years, evidence suggests that other weaning strategies should be examined. A more "natural" approach to weaning is needed. In one study, three alternative weaning strategies to abrupt separation were evaluated in beef calves. Beef calves were fitted with anti-suckling devices prior to weaning and/ or after weaning they were placed in a pasture adjacent to their dams. In a second study, piglets were temporary separated from their dams each day for a week prior to weaning. The studies evaluated growth and immune function in the neonate and dam. Results suggest that there are alternative weaning strategies that would promote favorable livestock production and animal welfare.



Marc Guidry, Ph.D.2:30 - 2:55 p.m.Associate Professor of EnglishRegents' Suite ACharles Jones, Ph.D.Professor of ArtCollege of Liberal & Applied Arts

The Knight's Tale book or Chaucer at SFA Slides will be presented of the illustrated and handcrafted edition of Chaucer's *Knight's Tale*, forthcom-

ing from the LaNana Creek Press. They will compare it to previous illustrated editions, such as the famous 19th c. Kelmscott *Chaucer* printed by William Morris, and discuss how their edition reinterprets the tale for a 21st century audience. In particular, they will demonstrate how their edition engages the dark undercurrents of the narrative anew. Written in the 1380s during a particularly demoralizing phase for England of the Hundred Years' War with France, the *Knight's Tale* reflects on the chivalric tendency to turn love into war and war into a way of life. Nevertheless, prior illustrated editions have glamorized its subject matter, depicting war as a romantic extension of the courtier-soldier's love life. In contrast, Jones's wood prints, done in conjunction with Guidry's commentary on the tale, depict the most disturbing images of love and war in Chaucer's story in the gritty and naturalistic light in which the poet describes them. They will also present a sample of passages of the tale performed by Guidry in Chaucer's Middle English dialect for a CD accompanying the book. A trade edition of the book is forthcoming from the SFASU Press, and Jones and Guidry will present on their book at the International Medieval Congress in Leeds, England this July. Evaluating forest volume estimation at Barksdale Air Force Base using LiDAR and multispectral imagery Unger D, Brooks R, Williams H, Hung I

Landscape ecological processes of constructed wetlands Ward W, McBroom M, Kulhavy D

Evaluation of rapid methods for determining lime requirement using east Texas soils

Young L, Dlamini H

Research capabilities of the SFASU Soil, Plant & Water Analysis Laboratory Young L, Weatherford W

Development of an ArcGIS extension: urban watershed management assistance

Zhang Y, Hung I, Farrish K

Effects of salt sources and rates on three Taxodium genotypes Zhou L, Yunlong Y, Creech D, Farrish K, Kulhavy D, Young, L

Representing the College of Liberal & Applied Arts

Guide to east Texas gravestones Beisel P

Ancient Maya food processing as evident through grater bowls Cecil L

From the big screen to the big picture: connecting beginning and advanced language

Johnston J

Building social capital in rural communities through service learning Oliphant E, Templeman S, Cordova W, Belanger K, Galan R

Massaging the message? Editorial commentary on terrorism in the U.S., India, and Scotland

Roy S

Quoting the unspoken: an analysis of quotations in spoken discourse Sams J

Restoring the role of fire in the longleaf pine ecosystem of Upland Island Wilderness

Oswald B. McWhorter I. Whisenant P

Nacogdoches Fire Department: service call location and density analysis Page K, Westbrook J, Hung I

Life at the edge: forest pathology as art Rozic M, Kulhavy D, Peterson C, Robinson S

Nesting ecology and hatchling survival of American alligators in inland wetlands of east Texas

Saalfeld D, Conway W, Calkins G

Snowy Plover nest site selection in saline lakes of the Southern High Plains of Texas

Saalfeld S, Conway W, Haukos D, Johnson W

Ecological importance of Spicebush in the landscape Schroeder A, Adkins J, Kulhavy D

Subpopulation structure and genetic diversity in Eastern Wild Turkeys in east Texas

Seidel S, Comer C, Conway W

Changing roles to change the nature of future natural resource professionals: providing tools to teach the public about fire Stephens-Williams P, Kulhavy D, Stafford K, Jones J, Oswald B

Habitat associations of the Rafinesque's big-eared bat (Corynorhinus rafinesquii) and the Southeastern Myotis (Myotis austroriparius) in northeast Texas Stuemke L, Comer C

Natural gas development compared with silviculture at the Alto experimental watersheds in east Texas Thomas T. McBroom M

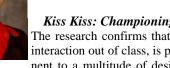
Estimating the value of non-market services: visits to the SFASU gardens Thompson L, Green L

Advanced digital image processing techniques for natural resource assessment at Stephen F. Austin State University Unger D



M.E. McWilliams Academic Assistance and Resource Center (AARC). Director Ralph W. Steen Library

3:00 - 3:25 p.m. **Regents' Suite B**



Kiss Kiss: Championing faculty-student interaction out of class The research confirms that student interaction with faculty, particularly interaction out of class, is perhaps more important than any other component to a multitude of desired student outcomes including student suc-

cess, satisfaction, and retention. The most commonly used measure of an institution's success is improved retention. Our strategic plan calls for an increase of 70% freshmen retained for one year by 2012. The Academic Assistance Center (AARC) contributes to retention efforts with workshops and a variety of tutoring venues for our students. A university's learning center plays a leading role in creating a positive first-year experience; nonetheless, the AARC concedes that faculty-student interaction is the number one resource for retention. Therefore, AARC staff is unabashedly "kissing up" to our faculty. Our goal is to support and recognize the interaction between students and faculty out of class, thereby concurrently championing our university's strategic initiative #2: "Improve faculty . . . recognition, and support" (SFASU, 2008). This presentation will explore the value and nature of facultystudent interaction out of class and share some of the initiatives of our learning center that have stimulated this critical relationship.



Dean Kniss, Ph.D. Assistant Professor of Health Science

3:30 - 3:55 p.m. **Regents' Suite A**

DawnElla M. Rust, Ed.D. Professor of Health Science James I. Perkins College of Education

Collaboration to ACHIEVE a healthier Nacogdoches The presentation will introduce the audience to Action

Communities for Health, Innovation & EnVironmental Change (ACHIEVE). ACHIEVE is an initiative funded by the Centers for Disease Control and Prevention's Healthy Communities Program and seeks to build local partnerships that will drive policy and environmental change to improve health. The ACHIEVE process begins with a community assessment utilizing a research based tool. The Change Tool investigates health policy components already in place and identifies key areas for improvement in a variety of domains within the defined community. Through an established coalition of community representatives, the ACHIEVE process facilitates changes in policy and the physical environment. It is through the ACHIEVE process that policy and environmental changes seek to improve the overall health of the community. In the past, health promotion and intervention often focused on individual behavior change in order to elicit healthier outcomes. While this practice is still a major component of health intervention, more attention is being focused on the built environment and policy promotion. As a part of the Nacogdoches community, Health Science faculty members have taken an active role in the Healthy Nacogdoches Coalition and provide support in a variety of ways.

SPOTLIGHT SPEAKERS



John S. Cotner, Ph.D. Assistant Professor of Music Theory College of Fine Arts 4:00 - 4:25 p.m. Regents' Suite B

Teaching online graduate music theory: special problems and new solutions

In an age of deficits, budgetary cuts, and dwindling federal and state funding for higher education, increasingly institutions are relying on distance learning as a means of generating and sustaining academic programs. De-

spite the fact that distance education offers exciting pedagogical possibilities, the online environment itself imposes unique obstacles of both a practical and technical nature. Music, as a complex cultural artform, poses additional instructional challenges. The purpose of this presentation is to address pedagogical problems and solutions related to the design and delivery of quality online graduate music theory and analysis. First, my discourse outlines explicit challenges delivering advanced music-theoretical subject matter in an online environment. Second, I demonstrate specific ways that Camtasia screen recording, tablet PC, Skype, and Blackboard tools enable me to effectively communicate concepts and demonstrate skills with a level of precision similar to that obtained in face-to-face classroom settings. Third, I frame this presentation within the context of ongoing educational-philosophical debate concerning online instruction. My argument is two-fold: 1) In order for online courses in graduate music theory to sustain academic benchmarks, instructors are compelled to use technology which simulates a high degree of immediacy, enabling detailed communication of skills, and close interaction with students; and 2) If graduate students are going to successfully meet the requirements of an advanced degree, then these courses must address the problem of remediation through enhanced teaching methods.

POSTERS & EXHIBITS

Representing the Teaching Excellence Center

Teaching team skills in ten minutes Bayless M, Austin T

Cross-campus collaboration: art, communication and contemporary culture and marketing Bond L, Tubbs M, Kahla M

Using avatars to build an online community of learners Chauvin W, Witherspoon E

Helping students reach their academic potential through effective learning Foster P Historic trails analysis: the Ghost Trail of Nacogdoches Kulhavy D, Unger D, Clanahan M, Braman D

Hurricane Rita impact on red-cockaded woodpecker clusters Kulhavy D, Unger D, Hung I, Gonzales J

Abundance and occupancy of songbirds on post oak savannah habitat in Texas

Lundberg E, Comer C

Assessing the efficacy of MODIS satellite-derived start of growing season for jurisdictional determination of east Texas bottomland hardwood wetlands Malone K, Williams H

Effects of organic rooting treatments on Vaccinium darrowii 'Native Blue' blueberry cuttings

Martin C, Maurer M, Creech D

Forest characteristics and large woody debris loadings in the lower Sabine River, Texas

McBroom M, Ringer M

Assessing ecological functions of bottomland hardwood wetlands using remote sensing and geographic information systems McNamee R, Williams H, Farrish K, Hung I, Unger D

A comparison of soil and plant characteristics between abandoned natural gas drill pads and adjacent areas, Barksdale Air Force Base, Bossier City, Louisiana

Miller A, Williams H, Farrish K, Oswald B, Unger D

The Sabine River riparian area: a definition and methodology for delineation Miller A, Williams H, McNamee R, Brown M

Avian occupancy and abundance in restored longleaf pine savannahs in east Texas

Novak L, Comer C, Conway W, Scognamillo D

Protecting San Augustine County communities from the impacts of wildfire in east Texas

Oswald B, Stafford K

Come to the rug Gresham J

- Evaluation of sodium bisulfate toxicity in diets of broiler chickens Bray J, Post P
- Long-term effects of feeding ractopamine on reproductive performance in replacement show-type gilts Brown E, Krebs L
- Assessing LiDAR accuracy for forest measurement Chapman J, Hung I, Unger D, Kulhavy D, Tippen J
- Teacher's Conservation Institute: linking educators, kids and nature Conway T, Kulhavy D, Shannon J, Legg M, Harris C

Distributional records of tiger beetles (Coleoptera:Cicindelidae) in saline lakes of the Southern High Plains of Texas Conway W, Haukos D, Saalfeld S, Saalfeld D, Kulhavy D

The identification and correlation of the competitive influence of Chinese Tallow on morphological and physiological attributes of artificially regenerated hardwood species

Dailey K, Gibson L, Williams H

Estimating relative seasonal abundance of bobcats (Lynx rufus) and coyotes (Canis latrans) in east Texas using a photographic mark-recapture model Davis A, Comer C, Conway W

Planted bur oak and pecan survival and growth in relation to canopy gap size and orientation Gibson L, Williams H, Dailey K

Evaluation of super-stocking as a restoration approach for Eastern Wild Turkeys in east Texas

Isabelle J, Conway W, Comer C, Calkins G, Hardin J

Control and management of deep-rooted sedge in coastal prairies King J, Conway W, Rosen D

Seed bank response by the exotic invasive deep-rooted sedge (Cyperus entrerianus) to prescribed fire in Texas coastal prairie King J, Conway W, Rosen D, Oswald B

A forest insect alphabet book and song cycle Kulhavy D, Jones C Not your mother's PowerPoint Markworth N

Service learning: a tool towards teaching excellence in social work Oliphant E, Templeman S, Cordova W, Belanger K

Barnga: simulation in the study of intercultural communication in the classroom Roy S

On leaving college Seaman M

Representing the Nelson Rusche College of Business

Gerald W. Schlief School of Accountancy and Aeronautics Bunn E, Holcombe C

Caution -- danger -- beware: electronic communication and social networking challenges

Clipson T, Wilson A

Exploring marketing's 'environmentally friendly' assertions Elliott-Howard F, Grubbs J, Ballenger J

A comparison of compact robotics platforms for model teaching Eubanks A, Strader R, Dunn D

Applications of time varying spectral analysis to examine the dynamics of equity markets Giudici E

Random diversification Giudici E, Ferguson A

Communicating in education and business through virtual worlds Jennings S, Sutherlin M

The local decision to ban smoking Phelps R

Activities associated with an introductory managerial accounting course Rogers V

Representing the James I. Perkins College of Education

Research update on preschool Head Start English language learning Abel C, Becker J, Nerren J, Wilson H, Gottshall D

Comparing individual creativity to the tendencies of the ideally academic educated

Austin K

Creating political frames: the use of political theory to improve policy and practice

Ballenger J, Bush S, Porter D, Lindley C, Amonett C, Rogers L, Nichol B, Myers D, Vargas O

Examining the effectiveness of shared reading strategies within families of Hispanic pre-kindergarten students Covington-Hasbun T

The digital divide: examining technology in the early childhood setting Dillard E, Covington-Hasbun T

Comparison of two lower-body modes of endurance training on lower-body strength development while concurrently training Gergley J

Hand in hand, side by side: investigating, integrating, and interacting (I^3) in science content Gresham J. Sowards A. Welsh K

Greshall 5, Sowards 74, Weish K

Metamotivational profiles of eating characteristics and body image in athletes Jevas S, Kato K

Effects of bolus vs. metered rehydration rates on fluid retention and hydration efficiency using 150% fluid replacement Jones E, Graham J, Newcomb T, Frischman N

Transition to Teaching scholarship opportunity Porter S, Corley J, Crenshaw J

Interpreting the Alaska National Park experience: an exploration of adventure and authenticity as key components of an interpretive marketing strategy Runnels C, Coble T Texas superintendent perceptions: principals as curriculum leaders Stewart S, Tareilo J

The caged bird finally sings Tareilo J, Black L

Representing the College of Fine Arts

Piano evolution: expanding piano pedagogical possibilities with the Yamaha Disklavier piano Ajero M

Musico-textual relationships in Lee Hoiby's "Three French Songs" LaGraff S, Petti R

The armchair grand tour Marquis A

How to use YouTube in your classroom Midgley H

Pedameters: measuring feminity by the foot Rosenfeld J, Finkenberg J

Open source, do-it-yourself, hacker, and maker-based interactive art Tubbs M

Long distance (musical) relationships Utley B

Representing the Arthur Temple College of Forestry & Agriculture

Effects of rofenaid 40 and tylan 40 on immunity development in broiler chickens vaccinated with a coccidiosis vaccine Bray J, Post P

Evaluation of multi-aged coccidiosis vaccine serials on immunogenicity in broilers challenged with Eimeria spp. Bray J, Post P