

POSTER SESSION CATEGORIES

Art and Music

Musical Passion

Marquis Lewis, Media Arts, Senior
Prof. Jeff Salter, Art
Prof. Walter Clissen, Theatre/Dance

A Golden Jubilee Initiative Program Presents: Ali to Karim: a Tribute to the Shia Ismaili Imams

Noren Panjwani, Biological Sciences, Freshman

Music, Performance, and Interactive Parallel Computing Networks

Alex Wroten, Music, Senior
Dr. Reginald Bain, Music

Biology and Environmental Sciences

Depth Localization of Seismicity on Strike-Slip Faults in California

Christiann Boutwell, Geology, Senior
Dr. Tom Owens, Geological Sciences

Backscatter of Acoustical Waves by Natural Sediment

Nicole Hembree-Caldwell, Marine Science, Senior
Dr. Jeff Morin, Geological Sciences

Discrimination of West African Ethnic Groups using Y-SNPS

Sidney Jarido, Biological Sciences, Sophomore
Dr. Bert Ely, Biological Sciences

Environmental controls of steppe-forest transitions in Lava Beds National Monument

Ian Johnson, Geography, Senior
Dr. John Cupfer, Geography

Subcuticular Bacteria in the Brittle Star *Amphipholis gracillima*

Emily Kasl, Marine Science, Senior
Kathleen Marston, Marine Science, Senior
Dr. Richard Long, Biological Sciences

Detection of *Karenia brevis* on the West Florida Shelf

Preston Kendrick, Marine Science, Senior
Dr. Tammi Richardson, Biological Sciences

Hybridization of *M. edulis* and *M. galloprovincialis* along the Eastern British Coast: Comparison of Recent and Historical Data

James Knox, Biological Sciences, Junior
Dr. Jerry Hilbish, Biological Sciences

One or Two Species of Cownose Ray (genus *Rhinoptera*) in the Western Atlantic and Gulf of Mexico?

Justin Lewandowski, Marine Science, Senior
Dr. Joseph Quattro, Biological Sciences

Sequencing the Subcuticular Bacterial Community in the Brittle Star *Amphipholis gracillima*

Kathleen Marston, Marine Science, Senior

Dr. Richard Long, Biological Sciences

The Effect of Defense Proteins in Plants against Insects and Bacteria

Azka Nazir, Biological Sciences, Sophomore

Dr. Johannes Stratmann, Biological Sciences

The Effects of CSN5 Silencing on *Manduca sexta* Herbivory in Tomato Plants

Sarah Pulliam, Biological Sciences, Junior

Dr. Johannes Stratmann, Biological Sciences

The Effects of the Sumer Wastewater Treatment Plant on the Survival and Reproduction of *Ceriodaphnia dubia* in 7-day Chronic Toxicity Tests

Erin Worley, Nursing, Sophomore

USC Sumter

Dr. Pearl Fernandes, Biology; USC Sumter

Dr. Michele Harmon, Biology/Geology; USC Aiken

Biomedical 1

Identification of Transcriptional Control Elements of a Novel Bi-directional Promoter Associated with the p53 Gene

Emily Ferguson, Biological Sciences, Senior

Dr. David Reisman, Biological Sciences

Effect of the Angiogenic Inhibitor Tumorstatin on Suppression of Tumor Growth

Rebecca Krygiel, Biological Sciences, Senior

Dr. Maria Marjorette Pena, Biological Sciences

Horizontal Gene Transfer and the Evolution of Enterobacteria Phage Lambda

Andrew Moeller, Biological Sciences, Senior

Dr. Robert Friedman, Biological Sciences

Effect of Gold Nanoparticles on Amyloid- β Self-assembly in Alzheimer's Disease

Stephanie Paolini, Chemical Engineering, Senior

Dr. Melissa Moss, Chemical Engineering

Impact of Myeloperoxidase Exposure on IL-1 Beta Expression in Human Blood Platelets

Ashleigh Quick, Biological Sciences, Senior

Dr. Mary Forman, Biological Sciences

Flow Cytometric Analysis of T cells In Adverse Myocardial Remodeling

Will Spencer, Biological Sciences, Senior

Dr. Greg Brower, Cell and Developmental Biology and Anatomy

Identification of Gonadal Biomarkers of Low Dose Polybrominated Diphenyl Ether (PBDE) Exposure

Roopa Varadarajan, Biological Sciences, Junior

Dr. Holly LaVoie, Cell and Developmental Biology and Anatomy

Regulation of Nuclear Factor-kappa B Phosphorylation in Lean Control and Zucker Diabetic Fatty Rat Cardiac Fibroblasts

Daniel Weinberg, Biological Sciences, Sophomore

Dr. Chandrashekhar Patel, Cell and Developmental Biology and Anatomy

Biomedical 2

Development of a Fluorescent Bioassay for Measuring cAMP in Neonatal Myocytes

Zachary Coffman, Chemistry, Senior

Dr. Kenneth Walsh, Pharmacology, Physiology and Neuroscience

Over-expression of HOXA9 Leads to Differential Regulation of NF- κ B Dependent Transcription

Huley Dru S. Dickert, Political Science, Senior

Dr. Chandrashekhar Patel, Cell and Developmental Biology and Anatomy

Anti-HIV-1 vif Activity by a Hammerhead Ribozyme Expressed from a Retroviral Vector

Audrey Hendley, Biological Sciences, Senior

USC Aiken

Dr. William Jackson, Other; USC Aiken

NonO: A Candidate for Repairing DNA Damage Produced by Cancer Chemotherapeutic Drugs

Cedric Johnson, Biological Sciences, Sophomore

Dr. Douglas Pittman, Biological Sciences

Role of P-glycoprotein in the Transport of Amyloid- β Protein in Cerebral Amyloid Angiopathy

Emily Matherly, Biomedical Engineering, Sophomore

Dr. Melissa Moss, Chemical Engineering

P53 The Tumor Suppressor Gene

Heather McKerrow, Biological Sciences, Senior

Dr. David Reisman, Biological Sciences

The Effect of Wasting on Glucose Tolerance in the ApcMin/+ Mouse.

Jewel Sheehan, Exercise Science, Junior

Dr. James Carson, Exercise Science

Cultured Ventricular Tissue Slices as a Model of Myocardial Remodeling

Apoorva Srivastava, Baccalaureus Artium et Scientiae, Sophomore

Dr. Greg Brower, Cell and Developmental Biology and Anatomy

Chemistry and Physics

Structure and Morphology of Virus-Composite Fibers Fabricated via Electrospinning Method

Vaughn Braxton, Chemistry, Senior

Dr. Qian Wang, Chemistry and Biochemistry

Capillary Electrophoresis of Dyes and Fluorescent Brighteners for the Forensic Discrimination of Trace Evidence Fibers

Micheline Goulart, Chemistry, Junior

Rocio Pellerano, Chemistry, Freshman

Dr. Stephen Morgan, Chemistry and Biochemistry

Synthesis of Kainic Acid

Lisa James, Biological Sciences, Senior

USC Aiken

Courtney Rabun, Biological Sciences, Senior

Dr. Nandeo Choony, Chemistry; USC Aiken

Higgs Boson Decay Simulation

Alexander Lesov, Physics, Senior

Dr. Milind Purohit, Physics and Astronomy

Extraction of SWNT from Estuarine Sediment by Surfactants

Amber Moore, Chemistry, Senior

Dr. Lee Ferguson, Chemistry and Biochemistry

Analysis of the Accuracy of Linearized Quantum Force for Quantum Mechanical Tunneling

Mallory Mueller, Chemistry, Senior

Dr. Sophia Garashchuk, Chemistry and Biochemistry

A Supramolecular Colorimetric System to Measure Diastereomeric Ratios

Samir Patel, Chemistry, Senior

Dr. Ken Shimizu, Chemistry and Biochemistry

Computer Science and Engineering

Malware Detection: Are Our Computer Systems Secure?

Dwayne Bates, Computer Science, Junior

Dr. Csilla Farkas, Computer Science and Engineering

Security in Service Orchestration

Brandon Bush, Computer Science and Engineering, Senior

Dr. Csilla Farkas, Computer Science and Engineering

Inexpensive Mobile Robotic Platform for Computer Vision Applications

Benjamin Fine, Computer Science, Senior

Dr. Jason O'Kane, Computer Science and Engineering

Feasibility of Systematic Analysis on Botnet Malware Distribution Techniques

Everett Hite, Computer Science, Senior

Dr. Chin-Tser Huang, Computer Science and Engineering

Scalable Routing Schemes for Wireless Mesh Networks

Dylan Kane, Computer Science, Senior

Dr. Srihari Nelakuditi, Computer Science and Engineering

Study on Data Management for Open Source Mobile Applications

Maliek Mcknight, Computer Science, Freshman

Dr. Srihari Nelakuditi, Computer Science and Engineering

Structural Characterization of FXVD Protein Using REDCRAFT

Elizabeth Timko, Computer Science, Junior

Dr. Homayoun Valafar, Computer Science and Engineering

Engineering and Math

Progress on Design and Development of a Bi-leaflet Mitral Bioprosthesis Valve

Jason Burnside, Mechanical Engineering, Senior

Dr. Arash Kheradvar, Mechanical Engineering

Investigation of Schottky Barrier Diode Performance on Morphological Defects in 4H-SiC 4° off cut Si Face Epilayers

Kevin Daniels, Electrical Engineering, Senior

Dr. Tangali Sudarshan, Electrical Engineering

Dr. Peter Muzykov, Electrical Engineering

Portable Water Purification Implementing Ultra Violet Light

Charles Daniels, Electrical Engineering, Sophomore
Dr. Tangali Sudarshan, Electrical Engineering
Mr. David Metts, Electrical Engineering

Fuel-Independent Transportation

Anthony James, Mechanical Engineering, Senior
Bronsen Harding, Mechanical Engineering, Senior
Dr. Kenneth Reifsnider, Mechanical Engineering

Ground Response to Projectiles Created During Extreme Weather Events

Lesley Joseph, Civil Engineering, Sophomore
Dr. Charles Pierce, Civil and Environmental Engineering

On Graham`s Tree Reconstruction Problem

William Kay, Mathematics, Senior
Dr. Joshua Cooper, Mathematics

Development of High Quality Oxide for High Inversion Channel Mobility SiC MOSFETs

Zegilor Laney, Electrical Engineering, Junior
Dr. Tangali Sudarshan, Electrical Engineering
Dr. Peter Muzykov, Electrical Engineering

Splittable Coverings

Andrew Mamroth, Mathematics, Senior
Dr. Joshua Cooper, Mathematics

An Assessment of Ground Resilience to Projectiles Generated During Extreme Weather Events

Rodrick Tucker, Civil Engineering, Junior
Dr. Charles Pierce, Civil and Environmental Engineering

Health Sciences

Human Papillomavirus (HPV) and Its Relation to Oral Cancer: An Epidemiological Secondary Data Analysis

Katherine (Katie) Carpenter, Exercise Science, Senior
Dr. Heather Brandt, Health Promotion Education and Behavior
Dr. Swann Arp-Adams, Epidemiology and Biostatistics

The Effects of Eszopiclone on Adenomatous polyposis Development in APCMin +/- Mice

David Elliott, Biological Sciences, Senior
Dr. Shawn Youngstedt, Exercise Science

Review of Pharmacist Management of Dyslipidemia and Anticoagulation in a Pharmacotherapy/Anticoagulation Clinic

Mollie Gowan, Pharmacy, Senior
Dr. Julie Sease, Pharmacy
Dr. Elizabeth Blake, Pharmacy

Evaluation of Vancomycin Prescribing Practices on a Nephrology Ward in a Community Teaching Hospital

Jennifer McPhail, Pharmacy, Senior
Dr. Celeste Rudisill, Pharmacy
Dr. Brandon Bookstaver, Pharmacy

Evaluation of Diabetes, Hypertension and Anticoagulation in a Pharmacotherapy/Anticoagulation Clinic

Kayce Shealy, Pharmacy, Senior

Dr. Julie Sease, Pharmacy

Dr. Elizabeth Blake, Pharmacy

Humanities

The Changing Way That Scientists Communicate – Images in the Journal of the American Chemical Society

Alan Clamp, Physics, Senior

Dr. Ann Johnson, History

The Mind and Mission of Dr. Andrew Billingsley

Kharimah Dessow, History, Senior

Dr. Bobby Donaldson, History

Woman: An Exploration of Li Xiaojiang's Essentialism in the New Era

Sarah Kelsey Hipp, Interdisciplinary Studies, Senior

Dr. Krista Van Fleit Hang, Languages, Literatures, and Cultures

Faces from Prison: Sergei Paradjanov's "My Friends" Series

Jennifer Holcombe, Russian, Senior

Dr. Alexander Ogden, Languages, Literatures, and Cultures

Dream Big: Capstone Scholars Maymester in Greece

Meredith Smith, Public Relations, Sophomore

Emily Ko, Public Relations, Sophomore

From Pen to Print: Discovering the Intricacies of Publication

Jenny Thompson, English, Junior

Dr. Janette Turner Hospital, English Language and Literatures

Analysis of Numeracy in Early 19th-Century America

Yujing Zhao, Business Economics, Sophomore

Dr. Ann Johnson, History

Neuroscience 1

KA2 and GluR6 Subunit Expression Changes Two Weeks After Status Epilepticus

Sarah Barrett, Baccalaureus Artium et Scientiae, Senior

Dr. David Mott, Pharmacology, Physiology and Neuroscience

Lobeline Decreases Methamphetamine-Induced Hyperactivity in Male and Female Periadolescent Rats

Alexandra Basilakos, Experimental Psychology, Senior

Dr. Steven Harrod, Psychology

Altered Peripheral and Spinal Innervation Patterns in a Rodent Model of Fetal Alcohol Exposure

Jeet Guram, Baccalaureus Artium et Scientiae, Junior

Dr. Sarah Sweitzer, Pharmacology, Physiology and Neuroscience

The Role of Impulsivity as a Predictor of Methamphetamine Self-Administration and Effects of Methamphetamine on Impulsivity

Callan Hazelbaker, Experimental Psychology, Senior USC Beaufort
Dr. William Boggan, Psychology, USC Beaufort

Selectivity of SB-205384 on the α -subunits of the GABA(A) Receptor

Laura Heidelberg, Biological Sciences, Junior
Dr. Janet Fisher, Pharmacology, Physiology and Neuroscience

Protein Kinase C Epsilon Inhibition Decreases Enodthelin-1 Induced Nociception and Neuronal Activation

Isiasha Mark, Biological Sciences, Senior
Dr. Sarah Sweitzer, Pharmacology, Physiology and Neuroscience

The Rewarding Properties of Sugar in an Animal Model Fetal Alcohol Spectrum Disorders

Casey O'Neill, Experimental Psychology, Senior
Dr. Sandra Kelly, Psychology

Sex Differences in Nicotine Self-administration and Relapse Using an Animal Model

Fiorela Ruiz, Environmental Science, Senior USC Beaufort
Dr. Ronald See, Biological Sciences; USC Beaufort

Neuroscience 2

Using Herpes Simplex Virus-1 To Over-express the Endogenous Opioid System

Rabiah Ali, Biological Sciences, Senior
Dr. Sarah Sweitzer, Pharmacology, Physiology and Neuroscience

Novel GABAA Receptor Mutations Exhibit Subunit-Selective Effects on GABA Sensitivity

Shana Dykema, French, Senior
Dr. Janet Fisher, Pharmacology, Physiology and Neuroscience

The Effects of Pentobarbital as an Agonist on the K289M mutation of the Alpha-1 and Alpha-6 Subunits of the GABA-A Receptor

Matthew Fisher, Biological Sciences, Sophomore
Dr. Janet Fisher, Pharmacology, Physiology and Neuroscience

Nociceptive threshold is altered during epileptogenesis in the pilocarpine model of temporal lobe epilepsy in rats

Natasha Juneja, Biological Sciences, Junior
Dr. David Mott, Pharmacology, Physiology and Neuroscience

The Inverse Typicality Effect in the Brain

Jeremy May, Experimental Psychology, Senior
Dr. Amit Almor, Psychology

Audiospatial Attention Evokes Similar Brain Activation Pattern to Visuospatial Attention

Kathy Niu, Interdisciplinary Studies, Senior
Dr. Chris Rorden, Communication Sciences and Disorders

Role of the Delta Opioid Receptor in the Regulation of Chronic Neuropathic Pain

William Spears, Finance, Junior
Dr. Sarah Sweitzer, Pharmacology, Physiology and Neuroscience

Psychology, General

Changing Carolina: Violence Prevention Through College Students

Quinyana Brown, Experimental Psychology, Senior
Dr. Suzanne Swan, Psychology; USC Beaufort

Place Memory in a Virtual Environment Task

John Dunn, Experimental Psychology, Senior
Dr. Doug Wedell, Psychology

The Association Between Age, Sex, And Social Support For Diet And Physical Activity In Overweight Adolescents

Kassandra Kugler, Experimental Psychology, Senior
Dr. Heather Kitzman-Ulrich, Psychology
Dr. Dawn Wilson, Psychology
Ms. Michelle Segal, Psychology

ADHD as a Predictor of Adolescent Peer Crowd Affiliation

Heather Langley, Experimental Psychology, Senior
Dr. Kate Flory, Psychology

The Contextual Dependence of Happiness for Everyday Events in a College Student's Life

Holley Pitts, Experimental Psychology, Junior
Dr. Douglas Wedell, Psychology

Attention and Conversing

Afotey Quaye, Experimental Psychology, Junior
Dr. Amit Almor, Psychology

The Relationship between Parent and Child Beliefs about Physical Activity and Diet in Underserved Communities

Sarah Refvem, Experimental Psychology, Sophomore
Dr. Dawn Wilson, Psychology

Gender Differences in University of South Carolina Student Perceptions of Campus Sexual Assault

Rebecca Ridgeway, Experimental Psychology, Junior
Dr. Suzanne Swan, Psychology

The Question of Torture: The Effects of Affective Disturbance, the Risk of Disaster and Uncertain Success on Moral Decision-Making

Thomas Smith, Experimental Psychology, Junior
Dr. Douglas Wedell, Psychology

Effect of Context on Policy Endorsement: How Impressionable Are We?

Ruthellen Thompson, Experimental Psychology, Sophomore
Dr. Douglas Wedell, Psychology

Adolescent Sex Differences in Cognitive Vulnerabilities to Depression: A Longitudinal Study

Jennifer Yehl, Experimental Psychology, Senior
Dr. Benjamin Hankin, Psychology

Social Sciences and Business

How do Transnational Integration Regimes Shape Financial Regulatory Institutions in Latin America?

Brian Blasser, International Business, Senior

Dr. Gerald McDermott, International Business

Dubai's Academic Cluster

Ryan Burke, International Business, Junior

Dr. Douglas Woodward, Economics

The Ethical Risk Management of Nanotechnology

Joshua Call, Interdisciplinary Studies, Junior

Dr. Kevin Elliott, Philosophy

International Law and the Illicit Trade of Small Arms and Light Weapons

Amanda Ghessie, International Studies, Senior

Dr. Katherine Barberi, Political Science

Shades of Gray

Christina McClelland, Sociology, Senior

Dr. Shane Thye, Sociology

Historical Antecedents of a Contemporary Rivalry: The Evolution of Ideologies of Real Madrid and FC Barcelona

Megan Robers, International Business, Senior

Dr. David Crockett, Marketing

Ethics Roadmaps in Nanotechnology

Travis Roberts, Biological Sciences, Senior

Dr. Ann Johnson, History

Risk Management Perceptions of Collegiate Sport Venue Managers in Accommodating Spectators with Disabilities

Adam Shuman, Sport and Entertainment Management, Senior

Dr. John Grady, Sport and Entertainment Management

Sustainability of the Emerging Middle Class in Johannesburg, South Africa and the Investment Opportunities Created

Erin Turner, International Business, Junior

Duggan MacDonald, Finance, Junior

Dr. Edward Carr, Geography

The Impact of Youth Participation on the 2008 Elections and Beyond

Chenwei Zhang, Political Science, Senior

Dr. Donald Fowler, Political Science

Social Sciences and Education

Comprehensive and Innovative Writing and Reading Achievement Program (WRAP) for Primary School students

Jason Bird, Experimental Psychology, Senior

Tyler Greer, Experimental Psychology, Senior

Dr. Bradley Smith, Psychology

The Use and Function of Botanicas in Santiago, Dominican Republic

Puja Dalal, Exercise Science, Senior

Elaine Kao, Baccalaureus Artium et Scientiae, Senior

Dr. David Simmons, Anthropology

Exploring the Effects of Budget-Cuts within Teachers

Arthur Dunn, Experimental Psychology, Senior

Dr. Leslie Bessellieu, Psychology

Mrs. Annie Wright, Psychology

Perceptions of Health Care by the Deaf Community and by the Health Providers who Serve Them

Elaine Kao, Baccalaureus Artium et Scientiae, Senior

Dr. Daniela Friedman, Health Promotion Education and Behavior

Impact of an Evidence Based Medicine Course on Student Performance in Advanced Pharmacy Practice Experiences (APPE)

Catherine McAbee, Pharmacy, Junior

Rebecca Bickley, Pharmacy, Senior

Dr. Brandon Bookstaver, Pharmacy

Who Are The Best Teachers for Young African-American Males?

Alanda McKinney, Early Childhood Education, Senior

Dr. Elizabeth Powers-Costello, Instruction and Teacher Education

Plant a Row for the Hungry

Kathryn Mulligan, International Studies, Senior

Kaitlin Duffey, Chemistry, Senior

Dr. Kevin Elliott, Philosophy

An Analysis of Services for Orphaned Children in Yaroslavl, Russia

Kaitlyn Pruitt, Russian, Senior

Dr. Kara Montgomery, Health Promotion Education and Behavior

Influences on School Climate

Sommers Sims, Experimental Psychology, Junior

Dr. Leslie Bessellieu, Psychology

Student Projects Help Local Health Clinics Increase their Capacity to Better Serve the Hispanic Population

Anna Walton, Biological Sciences, Junior

Prof. Lizette Laughlin, Languages, Literatures, and Cultures