ORAL PRESENTATIONS - SCHEDULE

SESSION 1: MOLECULAR PHYSIOLOGY AND BIOPHYSICS --- BALLROOM B CHAIR: FIONA HARRISON

- **9:00 AM --- Generating a mouse model for oxidative stress**Marquicia Pierce --- Molecular Physiology and Biophysics
- **9:20 AM --- Determining the Role of the Melanocortin 3 Receptor in Reward**Rachel Lippert --- Molecular Physiology and Biophysics
- 9:40 AM --- Role of the Melanocortin-4 Receptor in Macronutrient Sensing
 Independent of Metabolism
 Brandon Panaro --- Molecular Physiology and Biophysics
- **10:00 AM --- Effects of Low Vitamin C During Development in Gulo-/- Mice** Elizabeth Meredith --- Molecular Physiology and Biophysics

SESSION 2: TRENDS AND TRADEOFFS UNDER NO CHILD LEFT BEHIND: LESSONS FROM FIVE STATES --- BALLROOM C CHAIR: TOBY PARK

- 9:00 AM --- Eras of Accountability: Student Achievement in Colorado
 Maida A. Finch --- Leadership, Policy & Organizations
- **9:20 AM --- Can we make our kids proficient? NCLB effects in Minnesota**Jungmin Lee --- Leadership, Policy & Organizations
- 9:40 AM --- Trends and Tradeoffs: The Effects of No Child Left Behind in Georgia
 Ryan Balch --- Leadership, Policy & Organizations
- **10:00 AM --- Eras of Accountability: Student Achievement in Illinois** Peter T. Goff --- Leadership, Policy & Organizations
- **10:20 AM --- Low Stakes Subjects in West Virginia during the NCLB Years** Amanda Ochoa --- Leadership, Policy & Organizations

SESSION 3: CELL SIGNALING IN NORMAL AND DISEASED CONDITION --LOWER LEVEL ROOM 1

CHAIR: HAITING MA

9:00 AM --- Functional characterization of zebrafish homolog of placenta specific 8 (plac8).

Haiting Ma --- Biological Sciences

- **9:20 AM --- Pro-apoptotic Bid facilitates ATR function to replicative stress**Yang Liu --- Cell and Developmental Biology
- 9:40 AM --- The Role of Wnt Signaling in Progenitor Cells During Cardiac

 Homeostasis and Repair

 Bryan Fioret --- Pharmacology

SESSION 4: METHODS FOR PROTEIN STRUCTURE DETERMINATION AND DRUG

DESIGN --- LOWER LEVEL ROOM 2

CHAIR: STEFFEN LINDERT

9:00 AM --- Small molecule docking and design with flexible proteins and ligands using Rosetta software

Gordon Lemmon --- Chemistry

- **9:20 AM --- Paramagnetic restraints as novel NMR restraints for Membrane Proteins**Julia Koehler --- Chemistry
- 9:40 AM --- Quantitative Structure Activity Relationships of Allosteric Metabotropic Glutamate Receptor Modulators studied by Machine Learning Techniques

Mariusz Butkiewicz --- Chemistry

10:00 AM --- Prediction of carbon chemical shifts implementing machine learning techniques

Ralf Mueller --- Chemistry

10:20 AM --- Spin label structure and dynamics determined by Rosetta rotamer libraries

Nathan Alexander --- Chemistry

SESSION 5: MICROECONOMIC THEORY --- BOARD OF TRUST ROOM

CHAIR: GREGORY NIEMESH

8:45 AM --- Strategic Network Interdiction

Sunghoon Hong --- Economics

9:05 AM --- Relying on Experts for Decision under Uncertainty

Alper Nakkas --- Economics

9:25 AM --- Front of Package Information under Mandatory Disclosure

Roger Crawford --- Economics

SESSION 6: RELIGION, ECOLOGY AND BODIES IN AMERICAN POPULAR

CULTURE --- BALLROOM B

CHAIR: ANDREW C. SMITH

10:40 AM --- No One Ever Really Leaves Here: Reassessin Joss Whedon on Desire, the Body and Subjectivity after "Dollhouse"

Travis Ables --- Graduate Department of Religion

11:00 AM --- Environmentalism Goes Blue

T.L. Gray --- Graduate Department of Religion

11:20 AM --- Incarnation as Transgression in Werner Herzog's "Grizzly Man"

Andrew C. Smith --- Graduate Department of Religion

11:40 AM --- Ajira Flights and Avatars: How Pop Culture is Repairing Cartesian

Dualism in the Popular Imagination

Natalie Wigg --- Graduate Department of Religion

SESSION 7: PSYCHOLOGY AND HUMAN DEVELOPMENT --- BALLROOM C

CHAIR: GREGORY PARK

11:00 AM --- Bivariate Non-normality and the Assessment of Correlation: An

Overview

Miriam Kraatz --- Psychology and Human Development

11:20 AM --- Content Areas Addressed During Post Deployment Health Reassessment

(PDHRA) Interviews

Corinne Lapare --- Psychology and Human Development

11:40 AM --- Creativity and Exceptional Promise: Findings from the Study of

Mathematically Precocious Youth

Gregory Park --- Psychology and Human Development

SESSION 8: HUMAN GENETICS --- LOWER LEVEL ROOM 1 CHAIR: MARYLYN RITCHIE

- **10:20 AM --- Family-Specific Linkage Analysis of Multiple Sclerosis**Mary F Davis --- Center for Human Genetics Research
- 10:40 AM --- ATHENA parameter sweep: optimizing neural networks to detect genegene interactions

Emily Rose Holzinger --- Center for Human Genetics Research

11:00 AM --- Assessing the accuracy of reported ancestry in a biorepository linked to electronic medical records

Logan Dumitrescu --- Center for Human Genetics Research

11:20 AM --- Using a biobank linked to an electronic medical record to study genetic underpinnings of complex disease.

Stephen Turner --- Center for Human Genetics Research

11:40 AM --- Examining Host Genetics Associated with Response to Drug Treatment For HIV Infection

Ben Grady --- Molecular Physiology and Biophysics

SESSION 9: MARX AND CRITICAL THEORY --- LOWER LEVEL ROOM 2 CHAIR: MELINDA HALL AND JESSICA POLISH

- 11:00 AM --- Possibilities for Progress? Adorno and the Jugenstil Movement Melinda C. Hall --- Philosophy
- 11:40 AM --- Getting to Know Objects through Marx, Husserl and Heidegger Jessica Polish --- Philosophy
- 11:20 AM --- The Results of 'Experimenta in Corpore Vili': Marx's Das Kapital and Metaphors for Worker Bodies

 Melinda C. Hall --- Philosophy

SESSION 10: APPLIED MICROECONOMICS --- BOARD OF TRUST ROOM CHAIR: P.J. GLANDON

- 10:00 AM --- A Financial Picture of Bankruptcy Filers after they File for Bankruptcy
 Susan Carter --- Economics
- 10:20 AM --- Information Release and Bidding Behavior: The Nevada Natural

 Experiment

 Matthew Gentry --- Economics

10:40 AM --- Yellow Magic: Quantifying the Effects of Penicillin on Population Mortality

Gregory Niemesh --- Economics

11:00 AM --- A Multidimensional Approach to Chronic Poverty Shabana Singh --- Economics

SESSION 11: ALL WIRED UP: IN AND OUT OF SCHOOL DIGITAL LITERACY PRACTICES AMONG TODAY'S YOUTH --- BALLROOM B

CHAIR: EMILY BIGELOW

- 1:20 PM --- MultiREADia: Frameworks for Understanding Multimodal Texts
 Blaine Smith & Tara Alvey --- Teaching and Learning
- 1:40 PM --- Social organization and participation structures of multimedia composition
 Tara Alvey --- Teaching and Learning
- **2:00 PM --- Technokids: Digital Literacy Practices Among Young Children** Emily C. Bigelow --- Teaching and Learning
- 2:20 PM --- The Designs of Meaning: Analyzing the Multimodal Composition of Adolescent Bloggers

 Christian Ehret --- Teaching and Learning

SESSION 12: APPLICATIONS OF ITEM RESPONSE THEORY (IRT) IN EDUCATION AND PSYCHOLOGY --- BALLROOM C

CHAIR: KARIN KATTERFELD

- 1:00 PM --- Development of a Valid Measure of Teachers' Perception of Principal Press for Instruction Using Item Response Theory

 Karin Katterfeld --- Leadership, Policy, & Organizations
- 1:20 PM --- Modeling & Assessing Children's Understanding of Functional Thinking
 Katherine McEldoon --- Psychology and Human Development
- 1:40 PM --- An Item Response Theory Analysis of the Symptoms and Functioning Severity Scale (SFSS) used with Clinically Referred Youth

 Michele Athay --- Psychology and Human Development
- 2:00 PM --- Measuring Third Grade Students' Basic Algebraic Thinking: What Can Item Response Theory Tell Us?

 Eunsoo Cho --- Special Education
- 2:20 PM --- IRT Modeling of Student Theory of Linear Measurement
 Wenyan Zhou --- Teaching and Learning

SESSION 13: THE VANDERBILT BIBLE AND SEXUALITY SYMPOSIUM --- LOWER LEVEL ROOM 1

CHAIR: BRANDON SIMONSON

1:00 PM --- Gregory of Nyssa and Virginity

Derek Axelson --- Divinity

1:20 PM --- Was Sarai a nadītum? Examining the Sexuality of Sarai in an Ancient Near Eastern Milieu

Brandon Simonson --- Divinity

1:40 PM --- From Ineligible Betrothal to Birthing Offspring as a Female Disciple: A Study of the Term "Well" in John 4:4-42

Mary Beth McSwain --- Divinity

- 2:00 PM --- Paul's "Unnatural and Deadly Passions": A Black Church Hermeneutic Tadhi Coulter --- Divinity
- 2:20 PM --- No Longer Male and Female: Paul on Gender, Sexuality, and the Freedom of Christ

Jacquie Hauth --- Divinity

SESSION 14: RELIGION AND RITUAL --- LOWER LEVEL ROOM 2

CHAIR: CHRIS PARIS

- 1:00 PM --- Translating Shiloh: Why Ken Burns and Alex Trebek Are Wrong
 Chris Paris --- Graduate Department of Religion
- 1:20 PM --- "Ladies Day in the House:" Gender and Church-State Dynamics in America

Alyson Dickson --- Graduate Department of Religion

1:40 PM --- Ethnoarchaeology of symbolic power: Ninam shamans and sacred spaces in Amazon

Gerson Levi-Lazzaris --- Anthropology

SESSION 15: ECONOMETRIC THEORY AND MACROECONOMICS --- BOARD OF TRUST ROOM

CHAIR: TAMARA TRAFTON

- 12:30 PM --- A Wavelet Analysis of Regression Discontinuity Design (with Yanqin Fan)
 Heng Chen --- Economics
- **12:50 PM --- The Macroeconomic Importance of Sales** P.J. Glandon --- Economics

SESSION 16: SELECT TOPICS IN EDUCATION --- BALLROOM B

CHAIR: JIM SEGEDY

3:00 PM --- Incorporating Intelligent Learning Environments into ClassroomsJim Segedy --- Electrical Engineering and Computer Science

3:20 PM --- Student retention of knowledge: SoTL methods in a lab courseJeremy Federman --- Hearing and Speech Sciences

3:40 PM --- Emigration and the education/health of children in UzbekistanBakh Mirkasimov --- Economics (GPED)

SESSION 17: CULTURAL ASPECTS OF THE TRANSATLANTIC SLAVE TRADE --- BALLROOM C – 3:00-4:00 PM

CHAIR: WILLIAM F. ROBINSON

The Importation Adaption, and Creolization of Slave Leisure Forms in the Americas: 1600 to 1865

Stephen M. Doster --- Liberal Arts and Science

Rice Plantations in the Palmetto State: Redefining Chattel Slavery in South Carolina
Kerek Frierson --- Liberal Arts and Science

The Effects of "Cloth Politics" in the Trans-Atlantic Slave Trade: Cause, Cash, Commodity, and Comfort

Cricket Harmer --- Liberal Arts and Science

Going Home

Maxine Kelly --- Liberal Arts and Science

Singing for Strength: Enslaved Africans and Community Building in the Transatlantic Slave Trade

J. Hunter Moore --- Liberal Arts and Science

SESSION 18: MATERIALS SCIENCE --- LOWER LEVEL ROOM 1 CHAIR:

3:00 PM --- An efficient approach to characterize the mode-II fracture toughness of brittle and composite materials

Arun Krishnan --- Civil and Environmental Engineering

3:20 PM --- Ultrafast compact silicon-based ring resonator modulators using metalinsulator switching of vanadium dioxide

Michael Hertkorn --- Physics and Astronomy

3:40 PM --- Novel Lubrication Schemes for Silicon-Based Microelectromechanical Devices

Ben Lewis --- Chemical Engineering

SESSION 19: NARRATIVE BREAKDOWNS IN 19TH CENTURY LITERATURE --LOWER LEVEL ROOM 2

CHAIR: ELIZABETH BARNETT

- 2:20 PM --- Constructing the Gothic Body in Edgar Allan Poe's American Tales

 Donika Ross --- English
- 2:40 PM --- "The Last of the Ancient Race": transatlanticism and the construction of whiteness in Edgar Allan Poe's Southern Gothic

 Amanda Johnson --- English
- 3:00 PM --- "The very image of them": Female Relationships and Competing
 Narratives in the Illustrations of Bleak House
 Heather Freeman --- English
- 3:20 PM --- Fossils and Fragments: The Discontinuous Histories of Charles Darwin and Walter Pater

 Caroline Hovanec --- English
- 3:40 PM --- "Putting the Sun Back in the Sky": Temporality and Translation in D'Arcy McNickle's *Wind From an Enemy Sky*

 Christopher Pexa --- English

SESSION 20: INTERNATIONAL TRADE --- BOARD OF TRUST ROOM CHAIR: AYSE SAPCI

- 1:20 PM --- Pollution Abatement and Export Dynamics (with Joel Rodrigue)
 Omolola Soumonni --- Economics
- **1:40 PM --- The Opportunity Cost of Exporting (with Joel Rodrigue)**Youngwoo Rho --- Economics
- 2:00 PM --- Information and Mergers: Theory and Evidence on the Effect of Executive
 Overlap on the Incidence of Mergers
 Caleb Stroup --- Economics
- 2:20 PM --- Offshoring and the Skill Premium in U.S.: Evidence from Individual Workers' Data

Tommaso Tempesti --- Economics

POSTER PRESENTATIONS - BALLROOM A - 11:30pm - 1:20pm

1 --- Evolutionary Conservation of the Human Fragile X Mental Retardation Gene Family

Lane Coffee --- Biological Sciences

2 --- Regulation of Synaptic Transmission by miR-153

Elizabeth Thatcher --- Biological Sciences

3 --- A Defect in Pain Processing (Nociception) in a Genetic Model of Fragile X Syndrome.

Neil Dani --- Biological Sciences

4 --- Validation of Diffusion Tensor MRI in the Central Nervous System using Light Microscopy

Ann Choe --- Biomedical Engineering

5 --- A "Label-Free" Method for the Determination of Polyethylene Glycol Functionalization Efficiency on Gold Monolayer Protected Clusters

Charleson S. Bell --- Biomedical Engineering

6 --- The Role of TGF-β During in vivo Migration

Lauren Matise --- Cancer Biology

7 --- The canonical wnt signaling pathway is activated in response to myocardial infarction: possible role in endothelial-to-mesenchymal transitions

Omonigho Aisagbonhi --- Cell and Developmental Biology

8 --- Student Attitudes Toward Science: Majors and Non-majors

Katherine Moynihan --- Cell and Developmental Biology

9 --- Lecture vs Laboratory Learning in Developmental Biology

Hillary Hager Carter --- Cell and Developmental Biology

10 --- Association of HTR3a with Autism

Olivia J. Veatch --- Center for Human Genetics Research

11 --- Genome-wide association study in the Amish indicates non-APOE genetic effects for dementia

Anna Cummings --- Center for Human Genetics Research

12 --- Lubrication stratergies for Microelectromechanical Systems

Steven Vilt --- Chemical and Biomolecular Engineering

13 --- Improvement of Interfacial Compatibility in Polyurethane/Tricalcium Phosphate Composite Bone Cements Through Filler Surface Modification

Margarita Prieto --- Chemical and Biomolecular Engineering

14 --- A Computational Study of the Dynamic Formation of Au-BDT-Au
Nanoelectronic Junctions

William French --- Chemical and Biomolecular Engineering

15 --- Nanofiber Composite Proton Exchange Membranes

Jason Ballengee --- Chemical and Biomolecular Engineering

16 --- Free Energy Calculation for Lennard-Jones Solid

Li Wan --- Chemical and Biomolecular Engineering

17 --- BCL::EM-Fold: Protein Folding tool for medium resolution density maps

Steffen Lindert --- Chemical and Physical Biology

18 --- Improve fold recognition by using a word-based alignment algorithm in BCL::Align

Sten Heinze --- Chemistry

19 --- BCL::Align—Sequence alignment and fold recognition with a custom scoring function online

Elizabeth Dong --- Chemistry

20 --- Novel tools for membrane protein structure determination: Application to Diacylglycerolkinase

Julia Koehler --- Chemistry

21 --- Experimental Performance of a Cheminformatics Framework in Virtual Screens for Modulators of Metabotropic Glutamate Receptors

Ralf Mueller --- Chemistry

22 --- Investigating the role of alpha-actinin in modulating CaMKII-dependent regulation of NMDA receptors

Nidhi Jalan-Sakrikar --- Molecular Physiology and Biophysics

23 --- Unisensory temporal performance is predictive of the size of the temporal window of multisensory integration

Leslie Kwakye --- Neuroscience

24 --- A Comparison of Spatial Receptive Field Architecture of Multisensory Neurons in Subcortex and Cortex

Juliane Krueger --- Neuroscience

25 --- Disrupted PKC and Amphetamine-Induced Trafficking Associated with an ADHD-Associated Dopamine Transporter Protein Variant.

Dhananjay Sakrikar --- Neuroscience

26 --- Tetracyline-regulated CRH expression in Transgenic Mice as a Model for Isolating Brain-Region Specific Function in the Stress Response.

Gloria Laryea --- Neuroscience

27 --- Loss of the α2β1 Integrin Decreases Squamous Cell Carcinoma Metastasis by Altering Lymphatic Vessel Morphology and Integrity

Thuy Tran --- Pathology

28 --- sFRP2 suppression of BMP and Wnt promotes mesenchymal stem cell selfrenewal, ameliorating ectopic myocardial calcification

Maria P Alfaro --- Pathology

29 --- Manganese and Mutant Huntingtin Affect Stratial Medium Spiny Neuron Morphology

Jennifer Madison --- Pharmacology

30 --- Fava Beans (FB), Catecholamines, and Natriuresis

Tericka Smith Cesar RN, MSN, Emily Garland PhD, David Robertson MD --- School of Nursing

31 --- Performance of Carbon Nanofiber/Cement Composites

Catherine S. Gay --- Civil and Environmental Engineering

32 --- Control of an Internal Target Point of a Deformable Object

Jadav Das --- Mechanical Engineering

33 --- Using the EGS5 Monte Carlo code system to investigate Coherent Scatter Computed Tomography (CSCT)

Kenneth Lewis --- Physics / Radiology & Radiological Sciences

34 --- The difference between experts and novices in approaching/reading scientific journal articles and how to teach undergraduate biology majors how to approach/read a scientific journal article

Allison Atwood, David Vaught, and Alisha Russell --- Center for Teaching

35 --- Assessing Graduate Student Conceptual Understanding Using Concept Maps: The Necessity of Understanding the Assessment Tool

Eve Proper --- Leadership, Policy, & Organizations

36 --- Picture perfect: The training of visual imagery

Rosanne Rademaker --- Psychology

37 --- Visuospatial memory and Absent Reference Comprehension in 12-month-old Infants

Maria Osina --- Psychology and Human Development

38 --- Relations Between Anger Expression and Aggression Among Vietnamese Adolescents

Ngoc-Quynh Nguyen --- Psychology and Human Development

39 --- Response Properties and Environmental Features Alter the Effects of Action Observation on Action Production

Stephen Killingsworth --- Psychology and Human Development