

TRUMAN STATE UNIVERSITY

2013 SUMMER RESEARCH SYMPOSIUM

Saturday, August 24, 2013
Georgian Rooms, Student Union

SESSION I 8:30 - 9:30 AM

Opening Remarks

Michael Goggin, Director for the Office of Student Research

Home Range, Movement Rate, and Habitat Use of *Terrapene ornata* at the Northern Edge of Its Range

Katie Caragher

Faculty Mentor: Chad Montgomery

Byzantium: The Decline of the Eastern Roman Empire

Nicholas Rupel

Faculty Mentor: Sally West

The Relationship between Phonological Processing, Working Memory, and Phonetic Transcription

Hannah Farnsworth

Faculty Mentor: Janet Gooch

Relation between Academic Summer Camp Involvement and Ratings of Self-Concept in Gifted Adolescents

Anthony Roberson

Faculty Mentor: Jeffrey Vittengl

BREAK 9:30 AM - 9:45 AM

SESSION II 9:45 AM - 10:45 AM

Macrocyclic Molecules

Belinda Sell

Faculty Mentor: Dawood Afzal

Charles Finney: An Analysis of the Connection between his Theology and Social Reform

Jeremy Bone

Faculty Mentor: Mark Hanley

Development of an On-Farm Measure of Equine Temperament

Josephine Foley

Faculty Mentor: Kelly Walter

The In-Between Lincoln: Republican Party Formation in Illinois, 1846-1856

Jennifer Marks

Faculty Mentor: Mark Hanley

BREAK 10:45 AM - 11:00 AM

SESSION III 11:00 AM - 12 NOON

Incidence of *Ehrlichia chaffeensis* in Lone Star Ticks (*Amblyomma americanum*) in Kirksville, MO from 2008-2012

Dianna Long
Faculty Mentor Carolina Sempertegui

Art and Craft: The Debate Explored Through Textiles

Emma Roeder
Faculty Mentor: Kelsey Wiskirchen

Tax Exemption in the U.S. and Selected Foreign Jurisdictions

Anh Nguyen
Faculty Mentor: Alan Davis

Effects of Seasonal Change on Chytrid Fungus Infections in Amphibians

Jessica Plaggenberg
Faculty Mentor: Chad Montgomery

LUNCH 12 NOON

POSTER SESSION 1:00 PM -1:45 PM

Educational Effects on Dental Hygiene

Ashley Anderson
Faculty Mentor: Janice Clark

The Construction of an Atomic Force Microscope

Matthew Evers
Faculty Mentor: Mohammad Samiullah

Effect of an Arthritis Foundation Exercise Program on Arthritis Pain and Sleep Quality/Sleep Disturbance in Adults with Arthritis

Kaitlyn McManus
Faculty Mentor: Carol Cox

Effects of Sampling without Replacement on Populations of Lone Star Ticks (*Amblyomma americanum*)

Alex Volstromer
Faculty Mentor: Stephanie Foré

Characterization of New Developmental Mutant of Maize

Singha Dhungana
Faculty Mentor: Diane Janick-Buckner

Continued studies in optimizing and implementing an in vitro method for determining genetic variation in maize starch digestion rate

Sushma Shrestha
Faculty Mentor: Mark Campbell

Mechanistic Roles of Novel Genes Involved in UV Radiation Survival of *Escherichia coli*

Quynh Duong
Faculty Mentor: Neil Sargentini and D.A. Hudman

A Generational Difference of Memory: Women Writing the Spanish Civil War

Sarah Glenski

Faculty Mentor: Carol Marshall

Grip Strength Predicts Tongue Strength and Swallow Ability

Rachel Krauss and Brandon Stewart

Faculty Mentors: Carol Cox and Julia Edgar

Domestication of Cereal Grains: Effects on Root-Associated Fungal Communities

Deepak Bokati

Faculty Mentor: Jose Herrera

BREAK 1:45 PM - 2:00 PM

SESSION IV 2:00 PM - 3:15 PM

Is He Dead? A new musical

Joshua Reinhardt and Shelley Washington

Faculty Mentors: Charles Gran and David Charles Goyette

Finnegan's Wake: James Joyan and the Public

Nathan Sandbothe

Faculty Mentor: Hena Ahmad

Effect of Atypical Antipsychotics on Quality of Life in Individuals with Bipolar Disorder

David Schultz

Faculty Mentor: Jeffrey Vittengl

Self-Fashioning of James McNeill Whistler

Mamie Cox

Faculty Mentor: Julia DeLancey

Service Employment and Labor Productivity in OECD Countries

Anurag Pant

Faculty Mentor: Terry Olson

BREAK 3:15 PM - 3:30 PM

SESSION V 3:30 PM - 4:30 PM

Effects of Acute Dietary Nitrate Consumption on Running Performance Assessed in "Real-World" Environment

Andrew Sheets

Faculty Mentor: Brian Snyder

The Rhetoric of the Emerging Movement

Shelby Raper

Faculty Mentor: James Cianciola

Study of Bone Mineral Density in Experienced Minimalist Runners Compared to Experienced Traditionally Shod Runners

Kathryn Bollman

Faculty Mentor: Michael Bird

Detection of *Rickettsia rickettsii* Infecting American Dog tick (*Dermacentor variabilis*) Populations Inhabiting Northeastern Missouri and Southeastern Iowa's Forests

Chase Hobbs
Faculty Mentor: Carolina Sempertegui

CLOSING RECEPTION
SOUTH ATRIUM OPHELIA PARRISH 4:30 PM
