

TRUSCHOLARS RESEARCH SYMPOSIUM

SATURDAY, AUGUST 28, 2010
MAGRUDER HALL 1000
9:00 AM–3:00 PM

Sponsored by the Truman State University
Office of Student Research



SESSION 1 9:00 AM
Moderator: Dr. José Herrera

CUT AND PROJECT TILINGS OF ONE- AND TWO-DIMENSIONAL SPACE
Maximilian Ernst

Faculty Mentor: Dr. David Garth, Department of Mathematics & Computer Science

**CONTINUED STUDIES FOR OPTIMIZING A MOLECULAR MARKER ASSISTED SELECTION (MAS)
BACKCROSS TECHNIQUE FOR INTROGRESSION OF A NOVEL ALLELE INVOLVED IN STARCH SYNTHESIS
INTO GENETICALLY DIVERSE MAIZE LINES OF LATIN AMERICAN ORIGIN**

Avinash Karn

Faculty Mentor: Dr. Mark Campbell
Department of Agricultural Sciences

A PHOTOMETRIC STUDY OF THE O'CONNELL EFFECT IN ECLIPSING BINARY SYSTEMS

Vijay Koju

Faculty Mentor: Dr. Matthew Beaky, Department of Physics

THE MATERNAL EFFECT IN POPULATION MODELING

Ujwal Sapkota

Faculty Mentor: Dr. Peter Rolnick, Department of Physics

**SURVEY OF AMPHIBIAN AND REPTILE SPECIES OF WAKONDA STATE PARK AND INVESTIGATION OF
BATRACHOCHYTRIUM DENDROBATIDIS INFECTION IN THE AMPHIBIAN POPULATIONS PRESENT IN WAKONDA STATE PARK**

Corissa Lennon

Faculty Mentor: Dr. Chad Montgomery, Department of Biology

**MOLECULAR CHARACTERIZATION OF COPROPHILOUS FUNGAL COMMUNITIES
REVEALS EVIDENCE OF ROOT-ASSOCIATED ENDOPHYTES**

Ravin Poudel

Faculty Mentor: Dr. José Herrera, Department of Biology

SESSION 2 10:20 AM
Moderator: Dr. Michael Kelrick

**PRESS FREEDOM AS A DETERMINANT OF CORRUPTION AND
ECONOMIC GROWTH IN DEVELOPING COUNTRIES**

Ngan Bui
Faculty Mentor: Dr. Terry Olson, Department of Economics

HERBERT HOOVER: RESTORING A LEGACY

Peter Johnson
Faculty Mentor: Dr. Mark Hanley, Department of History

THE ST. LOUIS CYCLONE OF 1896 AS A PROGRESSIVE REFORM DETERRENT

Joseph Rogers
Faculty Mentor: Dr. Jeff Gall, Department of History

MISSOURI'S AFRICAN AMERICAN HISTORIC SITES: RESEARCH AND FIELD STUDY

Sara Clark
Faculty Mentor: Dr. Michael Kelrick, Interdisciplinary Studies

SESSION 3 11:15 AM
Moderator: Dr. Jason Lin

STATISTICAL MODELING IN FINANCE: PREDICTIONS OF FINANCIAL BUBBLES

Kazuyuki Hashimoto
Faculty Mentor: Dr. Jason Lin, Department of Business Administration

EQUITY INVESTMENT IN EMERGING MARKETS

Huong Nguyen
Faculty Mentor: Dr. Andrew Mun, Department of Business Administration

**A STUDY ON MICROFINANCE IN CHINA: TRENDS,
IMPACT, CHALLENGES AND OPPORTUNITIES**

Zhiqiang Zhang
Faculty Mentor: Dr. Jason Lin, Department of Business Administration

**REMOVING FEDERAL COAL SUBSIDIES AND
REVEALING THE TRUE COST OF ENERGY**

Jennifer Wilborn
Faculty Mentor: Xiaofen Chen, Department of Economics

SESSION 4 1:00 PM
Moderator: Dr. Hena Ahmad

MASCULINE IDENTITY IN POST 9/11 LITERATURE AND ART

Luke Icenogle
Faculty Mentor: Dr. Bob Meilke, Department of English & Linguistics

THE EXPANSION OF PETER BOYD-BOWMAN'S SOUND CHARTS FOR ROMANIAN

Anthony Baldwin
Faculty Mentor: Dr. Thomas Capuano, Department of Classical and Modern Languages

**UNSETTLING THE BINARIES: MAKING ROOM FOR FEMALE AGENCY
IN THE GENDERED SPACES OF *SUNLIGHT ON A BROKEN COLUMN***

Madison March

Faculty Mentor: Dr. Hena Ahmad, Department of English & Linguistics

AN ANALYSIS OF THE STYLE AND TONE OF DEWEY REDMAN

Drew Williams

Faculty Mentor: Prof. Tim AuBuchon, Department of Music

SESSION 5 2:00 PM

Moderator: Dr. Peter Rolnick

COMPUTATIONAL STUDIES OF BIOMOLECULAR RECOGNITION IN VIRAL LEUKEMIA

Shane Bernard

Faculty Mentor: Dr. Maria Nagan, Department of Chemistry

**QUANTITATIVE DETERMINATION OF CHROMIUM(VI)
USING SOL-GEL ENCAPSULATED REDOX CHEMISTRY**

Blake Mueller

Faculty Mentor: Dr. David McCurdy, Department of Chemistry

**STRENGTHS AND WEAKNESSES IN TEST-TAKING: IN WHAT WAYS
DO ANXIETY AND IMPULSIVITY IMPAIR TEST PERFORMANCE?**

Nicholas Jacobsen

Faculty Mentor: Dr. Jeffery Vittengl, Department of Psychology

THE EFFECT OF PERSONALITY ON ATTRACTIVENESS IN THE ULTIMATUM GAME

Igor Korenfeld

Faculty Mentor: Dr. Mark Hatala, Department of Psychology

DO SELF-REFLECTION EXERCISES IMPROVE WELL-BEING?

Peter Ruberton

Faculty Mentor: Dr. Jeffery Vittengl, Department of Psychology
