

PROGRAM

8:00-9:30 AM
SESSION 1

OP 2111

PAPERS: BUSINESS AND ACCOUNTANCY DIVISION

Presiding: Dr. Jason Lin, Professor of Business Administration

- 8:00** **1-1** ALICIA M. BUSSE
Dr. John Perrachione, Faculty Mentor
Generalizability and Representativeness of Probability and Nonprobability
Samples: A Content Analysis of Marketing Research Textbooks and Survey
Results from Marketing Research Practitioners
- 8:15** **1-2** BRIAN D. KRUPICH
Dr. Andrew Mun, Faculty Mentor
International Stock Market Correlations before and after September 11: A Case
Study of the DJIA, FTSE, DAX and NIKKEI
- 8:30** **1-3** CHI N. LE
Dr. Jason Lin, Faculty Mentor
The Vietnamese Stock Market: An Essential Move toward An Open Economy
- 8:45** **1-4** NICHOLAS J. SCHANDLER
Dr. Jason Lin, Faculty Mentor
A Test of the "Efficient Market Hypothesis" - Some Evidence from Stock
Market Crashes
- 9:00** **1-5** IMRAN K. JAMAL
Dr. Jason Lin, Faculty Mentor
The Unification of Europe and its Effects on the U.S., Europe and World
Economy
- 9:15** **1-6** JANETA TAKHTAMISHEVA
Dr. Pyung Han, Faculty Mentor
E-commerce Development Issues in Russia: Consumer's Perspective

8:00-9:30 AM
SESSION 2

OP 2113

PAPERS: EDUCATION DIVISION –
Counseling

Presiding: Dr. Christopher J. Maglio, Associate Professor of Counseling

- 8:00** **2-1** JOHN T. SONDERMAN^
 Dr. Christopher J. Maglio, Dr. Michael Mann, and Dr. William M. Ashcraft,
 Faculty Mentors
 Athletic Retirement after High School and its Effects on Self-Esteem
- 8:15** **2-2** PEGGY J. ORCHARD^
 Dr. Christopher J. Maglio, Faculty Mentor
 Children's Development of Explanatory Style and Perceptions of Persona
 Control
- 8:30** **2-3** MALLORI L. MCGILL^
 Dr. Tricia K. Brown, Faculty Mentor
 Effects of Childhood Sexual Abuse on Parenting Style
- 8:45** **2-4** MELISSA J. HANEWINKEL^
 Dr. Christopher J. Maglio, Faculty Mentor
 The Impact of Religiosity on the Attitudes, Behaviors, and Emotional Outcomes
 of Premarital Sex among College Students
- 9:00** **2-5** KELLI R. HUTCHERSON^
 Dr. Christopher J. Maglio, Faculty Mentor
 White College Students' Racial Identity Development at a Public Liberal Arts
 University
- 9:15** **2-6** NATHANIEL C. THWING^
 Dr. Tricia K. Brown, Faculty Mentor
 Predicting Students' Satisfaction with Peer Helpers: An Examination of Three
 Factors

<p>8:00-9:00 AM SESSION 3</p> <p>PERFORMANCES: FINE ARTS DIVISION – Undergraduate Performances in Music</p>	<p>OP 1393, Performance Hall</p>
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Presiding: Dr. Randy Smith, Associate Professor of Music

- 8:00** **3-1** JOSE A. ZAYAS-CABAN* and LAUREN SAPPINGTON
 Dr. Randy Smith, Faculty Mentor
 Eugene Bozza's *Concertino for Alto Saxophone and Orchestra*: A Short Lecture
 and a Performance by Jose A. Zayas-Caban, saxophone, and Lauren
 Sappington, piano
- 8:20** **3-2** CASSIE FOX

Dr. Randy Smith, Faculty Mentor
Georg Phillip Telemann's Sonata No. 4 for Two Violins, Flutes or Recorders: A Short Lecture on Baroque Performance Practice and a Performance of the Duet on Alto Saxophone by Cassie Fox and Dr. Randall Smith

8:40 **3-3** ALFREDO SANTA ANA
Dr. Warren Gooch, Faculty Mentor
Refreshing Sound: A Contemporary Approach to Compositional Techniques of Electronic Music

8:00-9:30 AM
SESSION 4

OP 2210

PAPERS: FINE ARTS DIVISION –
Contemporary Issues in Art and Art History

Presiding: Dr. Sara Orel, Associate Professor of Art

8:00 **4-1** MELISSA A. WHITWAM*, KIT L. NEUMANN
Dr. Susan Shoaff, Faculty Mentor
The Collaborative Process in Art

8:15 **4-2** MARILYN ROSA CYRIAC
Dr. Julia DeLancey and Dr. Sara Orel, Faculty Mentors
The Relation of Past and Present Truman State University Architecture and its Various Institutional Missions

8:30 **4-3** CATHERINE M. PERRINE
Dr. Julia Delancey and Dr. Sara Orel, Faculty Mentors
On the Cover: Images of Women in Popular Magazines during the Ratification of the Nineteenth Amendment in America

8:45 **4-4** KELLI D. LUZADER
Dr. Julia DeLancey and Dr. Sara Orel, Faculty Mentors
Hagia Sophia: An Architectural Treasure

9:00 **4-5** MARGARET N. CLARK
Dr. Julia DeLancey and Dr. Sara Orel, Faculty Mentors
Classical Greek Female Virtue: Expressions and Interactions of an Ideal

9:15 **4-6** MATTHEW E. IRISH
Dr. Julia DeLancey and Dr. Sara Orel, Faculty Mentors
The Price of Painting the Bourgeoisie: Sargent's Madame X

8:00-9:30 AM
SESSION 5

VH 1224

**PAPERS: HUMAN POTENTIAL AND PERFORMANCE DIVISION –
Body Composition**

Presiding: Dr. Jerry Mayhew, Associate Professor of Health and Exercise Science

- 8:00** **5-1** ANNA M. UHLRICH* and MEGAN R. HAFHEY
Dr. Jerry Mayhew, Faculty Mentor
Differences in Percent Fat Estimates as Determined by Various Skinfold Equations
- 8:15** **5-2** LEAH C. ZIDON
Dr. Jerry Mayhew, Faculty Mentor
Reliability of Skinfold Measurements for Female Track Athletes
- 8:30** **5-3** SEAN R. WILSON
Dr. Jerry Mayhew, Faculty Mentor
Inter-tester Reliability for Skinfolds in the Prediction of Percent Fat
- 8:45** **5-4** ERIC D. O'BRIEN
Mrs. Mary Lou Cole and Dr. Jerry Mayhew, Faculty Mentors
Body Mass Index and Percent Fat Trends Over the Last 25 Years
- 9:00** **5-5** ABBIE E. SMITH
Ms. Evonne Bird and Dr. Jerry Mayhew, Faculty Mentors
Skinfold Reliability Investigation on Large Male Athletes
- 9:15** **5-6** KRISTEN P. WARGIN* and MARY MEYER
Dr. Beverly Tremain (KCOM), Faculty Mentor
Survey of Body Fat Assessment in Missouri Colleges

8:00-9:30 AM
SESSION 6

VH 1228

**PAPERS: HUMAN POTENTIAL AND PERFORMANCE DIVISION –
Exercise Physiology**

Presiding: Dr. Alexander Koch, Assistant Professor of Health and Exercise Science

- 8:00** **6-1** BRITNI N. BUFORD
Dr. Alex J. Koch, Faculty Mentor
The Effects of "GAKIC" (Amino-Keto Acid Blend) on Repeated Sets of Anaerobic Cycling

- 8:15** **6-2** ALISON M. BLYTH* and NICHOLAS A. GREINER
 Dr. Alex J. Koch, Faculty Mentor
 Carbohydrate Ingestion does not Influence Lymphocyte Blastogenesis following Acute Resistance Exercise
- 8:30** **6-3** AMANDA D. WHERRY^
 Dr. Alex J. Koch, Faculty Mentor
 Decreased Salivary Immunoglobulin A Levels after a Collegiate Rugby Game
- 8:45** **6-4** REBECCA KUDRNA*, NICOLE J. GANDY, MELISSA A. LINDEN and MONICA R. MARLOWE
 Dr. Alex J. Koch, Faculty Mentor
 A Comparison of Caloric Expenditure Estimations from a Commercial Stationary Bicycle and Indirect Calorimetry
- 9:00** **6-5** MIRIAM BLOCK*, COREY CRANDALL and DERRICK ROHR
 Dr. James Padfield, Faculty Mentor
 Proposed Use of Navigation Technology to Quantify Exercise Workload
- 9:15** **6-6** TARA L. SEELIG* and MEGAN PARKHURST^
 Dr. Jerry Mayhew, Faculty Mentor
 The Effect of Different Pedal Revolutions at a Constant Workload on Metabolic and Cardiovascular Parameters

8:00-9:15 AM
SESSION 7

OP 2115

**PAPERS: INTERDISCIPLINARY –
 Understanding Genetics and Disease**

Presiding: Dr. Dean de Cock, Assistant Professor of Mathematics

- 8:00** **7-1** JEFFREY J. NEPPLE
 Dr. David A. Henderson (Iowa State University) and Dr. Dean de Cock, Faculty Mentors
 The Determination of Differential Gene Expression Using cDNA Microarrays and Statistical Analysis
- 8:15** **7-2** JOHN BISGES
 Dr. Kenneth N. Carter, Faculty Mentor
 Predicting the Spread of Disease: A Comparison of Selected Mathematical Approaches to Epidemiology
- 8:30** **7-3** NATHANIEL J. GREEN
 Dr. Kenneth N. Carter, Faculty Mentor

Epidemiological Modeling: Implementation Strategies

- 8:45** **7-4** ALEC THOMAS PAWLING
Dr. Kenneth N. Carter, Faculty Mentor
Micropopulation Modeling with SIMEX: Bringing Back a Powerful Tool
- 9:00** **7-5** MAYA E. SUFFERN
Dr. Kenneth N. Carter, Faculty Mentor
Vaccine Risk Communication: Implications of Ethical Priorities and Herd
Immunity

8:00-9:30 AM
SESSION 8

VH 1010

**PAPERS: LANGUAGE AND LITERATURE DIVISION –
Communication**

Presiding: Dr. Keri Bodensteiner, Assistant Professor of Communication

- 8:00** **8-1** SARA L. SWENSON
Dr. Keri Bodensteiner, Faculty Mentor
Ronald Reagan: His Style and Ability to Communicate
- 8:15** **8-2** KATHERINE A. STOVERINK
Dr. Elizabeth Clark, Faculty Mentor
A Womanist Critique of Whoopi Goldberg and Her Non-traditional Roles
- 8:30** **8-3** ANGELA SYBIL BALLARD
Dr. Keri Bodensteiner, Faculty Mentor
Feminism and the Black Family
- 8:45** **8-4** SALLY L. NOEDEL
Dr. Barry Poyner, Faculty Mentor
Women's Suffrage in Stages
- 9:00** **8-5** STACI J. IMES
Dr. Todd Holm, Faculty Mentor
A City Without Men: Using Women to Exemplify Nonviolence
- 9:15** **8-6** JACLYN R. DEVINE
Dr. Janet Davis, Faculty Mentor
Bakhtin on the Web

8:00-9:30 AM

VH 1212

SESSION 9

**PAPERS: LANGUAGE AND LITERATURE DIVISION –
World Literature**

Presiding: Dr. Hena Ahmad, Assistant Professor of English

- 8:00** **9-1** HANNAH SCHREIBER
Dr. Hena Ahmad, Faculty Mentor
PH Balanced Assimilation: Cultural Blending in Tsitsi Dangarembga's *Nervous Conditions*
- 8:15** **9-2** MICHELLE E. MARTIN
Dr. Hena Ahmad, Faculty Mentor
Building a Story: The Structural Frame of Arundhati Roy's *The God of Small Things*
- 8:30** **9-3** SAMUEL EDEH
Dr. Hena Ahmad, Faculty Mentor
Rethinking Gender Roles in *Things Fall Apart*
- 8:45** **9-4** SARAH MCDUFF
Dr. Hena Ahmad, Faculty Mentor
Tambudzai's Discovery of Self in Tsitsi Dangarembga's *Nervous Conditions*
- 9:00** **9-5** STEPHANIE A. MALIN
Dr. Hena Ahmad, Faculty Mentor
Ecofeminism and the Work of Mahasweta Devi: The Interconnections of Socioeconomic, Religious and Literary Realms in India
- 9:15** **9-6** TY K. FAGAN
Dr. Hena Ahmad, Faculty Mentor
Living Words: Premchand and the Politics of Language

8:00-9:30 AM
SESSION 10

OP 2117

**PAPERS: SCIENCE DIVISION –
Zoology**

Presiding: Dr. M. Scott Burt, Assistant Professor of Biology

- 8:00** **10-1** AUDREY M. GILMORE* and REBECCA S. BLUE
Dr. Michael Baumann (National Institute on Drug Abuse) and Dr. John Rutter,
Faculty Mentors

Effect of Repeated Methamphetamine Treatment on Indices of Central Nervous System Serotonin Function

- 8:15** **10-2** TAMMY R. BRAGG and KATHRYN M. SMITH*
Dr. Charlie Apter, Faculty Mentor
Allometric Scaling in Two Sizes of Equids (*Equus caballus*)
- 8:30** **10-3** JENNIFER R. STONE*, JEREMIAH SCHISLER and HAYSAM TAWFIK^
Dr. George J. Schulte, Faculty Mentor
Characterization of Transepithelial L-leucine Absorption in Pyloric Caeca Associated with the Gastrointestinal Tract of the Black Bass, *Micropterus salmoides*
- 8:45** **10-4** JACQUELINE E. WEISS* and WILLIAM G. ALEXANDER
Dr. Cynthia L. Cooper, Faculty Mentor
Evaluation of a Novel Mixed Culture System
- 9:00** **10-5** KEVIN G. EULINGER^
Dr. M. Scott Burt, Faculty Mentor
Small Mammal Community Structure at Swan Lake National Wildlife Refuge
- 9:15** **10-6** POLLY M. HIGGINS^
Dr. M. Scott Burt, Faculty Mentor
Small Mammal Responses to Oak-Savannah Restoration

8:00-9:30 AM
SESSION 11

OP 2121

PAPERS: SCIENCE DIVISION –
Physics

Presiding: Dr. Matt Beaky, Assistant Professor of Physics

- 8:00** **11-1** KEVIN J. HAWORTH
Dr. Michael Goggin, Faculty Mentor
Plotting Semi-Classical Trajectories for Simple Quantum Mechanical Systems with the Wigner Quasi-Distribution Function
- 8:15** **11-2** CORMAC M. SMITH
Dr. Ian Lindevald, Faculty Mentor
Acoustic Bandgap Tunneling
- 8:30** **11-3** JARRETT L. JOHNSON*, MICHAEL MOLITORIS, MATTHEW WRIGHT, and MICHELLE A. HANNON

Dr. Taner Edis, Faculty Mentor
Approximate Symmetries on a Discrete Spacetime

8:45 **11-4** AMENYEDU ADOVOR* and LANCE HART
Dr. Ian Lindevald, Faculty Mentor
Area-Time Measurement for the Trombone Player's Lip Reed

9:00 **11-5** HEATHER M. MOLLE
Dr. Michael Goggin, Faculty Mentor
Exploring Phase Space Using Short Term Lyapunov Exponents

9:15 **11-6** MICHELLE A. HANNON
Dr. Michael Goggin, Faculty Mentor
Simulating Quantum Photon Communication through Free Space

8:00-9:30 AM
SESSION 12

VH 1320

PAPERS: SOCIAL SCIENCE DIVISION –
Sociology and Anthropology

Presiding: Dr. Robert Graber, Professor of Anthropology

8:00 **12-1** CHARLOTTE K. COOPER
Dr. Amber Johnson, Faculty Mentor
Archaic Hunting Camps: An Archaeological Study of Faunal Remains

8:15 **12-2** JACOB C. FREEMAN
Dr. Amber Johnson, Faculty Mentor
From Hunting and Gathering to Agriculture: Three Generalizations About
Hunting and Gathering Phase Durations in the Archaeological Record

8:30 **12-3** WILFRED J. KRENN JR.
Dr. Robert B. Graber, Faculty Mentor
Social Growth and Cultural Evolution: An Inductive Cross-Cultural
Investigation

8:45 **12-4** AMY L. BRYCHTA
Dr. Robert B. Graber, Faculty Mentor
Social Growth and Cultural Evolution: An Inductive Global Investigation Using
MicroCase

9:00 **12-5** DAVID C. CAPPS
Dr. Robert B. Graber, Faculty Mentor
Social Growth and Cultural Evolution: An Inductive Cross-Polity Investigation

9:15 **12-6** COURTNEY M. CARTER* and DAVID HOLBERT
Dr. Robert B. Graber, Faculty Mentor
Estimates of the Percentage Americans Who Are African American: An
Inductive Search for Causes and Correlates

8:00-9:15 AM
SESSION 13

VH 1000

**PAPERS: SOCIAL SCIENCE DIVISION –
Race and Religion**

Presiding: Dr. William Ashcraft, Associate Professor of Religion

8:00 **13-1** COURTNEY M. CARTER
Dr. William M. Ashcraft, Faculty Mentor
The Color of Their Faith: An Analysis of Black Theology

8:15 **13-2** KATE M. CHRISTMAN
Dr. William M. Ashcraft, Faculty Mentor
African American Spirituals: A Question of Origin

8:30 **13-3** LASHÉA NIESHA HELENA DAVIS
Dr. William M. Ashcraft, Faculty Mentor
The Political Black Church

8:45 **13-4** MELISSA A. VANOST
Dr. William M. Ashcraft, Faculty Mentor
The African American Catholic Experience

9:00 **13-5** CABELL H. GATHMAN
Dr. Derek Daschke, Faculty Mentor
Mizuko Kuyô: Dealing with Undeath in a Nuclear World

9:30-9:45 AM
BREAK

OP Atrium & VH Atrium

9:45-10:45 AM
SESSION 14

OP 2113

**PAPERS: EDUCATION DIVISION –
History**

Presiding: Dr. Jeffrey L. Gall, Associate Professor of History

- 9:45** **14-1** KEVIN BECKNER^
Dr. Jeffrey L. Gall, Faculty Mentor
Ronald Reagan: An Historiography
- 10:00** **14-2** LISA D. MOTLEY^
Dr. Jeffrey L. Gall, Faculty Mentor
Simulations in Secondary Social Studies Classrooms
- 10:15** **14-3** NICOLE M. SCHMITZ^
Dr. Jeffrey L. Gall, Faculty Mentor
Incorporating Drama into a High School History Classroom
- 10:30** **14-4** EMILY B. STONE^
Dr. Jeffrey L. Gall, Faculty Mentor
Motivations behind President Harry S. Truman's Executive Order 9981

9:45-10:45 AM
SESSION 15

OP 1393, Performance Hall

**PERFORMANCES: FINE ARTS DIVISION –
Graduate Performances in Music**

Presiding: Dr. Michael Bump, Assistant Professor of Music

- 9:45** **15-1** AMIE E. WALTER*^, TIM LINSENBARDT, BECCA BRIGUGLIO,
RYAN MILLIGAN
Dr. Michael Bump, Faculty Mentor
A Marimba Experience: Omphalo Centric Lecture by Nigel Westlake
- 10:05** **15-2** MEGAN M. IVERSON^
Dr. Thomas Hueber, Faculty Mentor
Auf dem Strom by Franz Schubert: Megan Iverson, soprano; Russ Bachman,
horn; Patrice Ewoldt, piano
- 10:25** **15-3** BRADLEY M. FOWLER^
Dr. Warren Gooch, Faculty Mentor
Composing with Twelve Tones: Manipulating the Rules of a System

9:45-10:45 AM
SESSION 16

OP 2302, 'Black Box' Theater

PERFORMANCES: FINE ARTS DIVISION –

Issues in Theatrical Performance

Presiding: Dr. Dana Smith, Assistant Professor of Theater

9:45 16-1 JOE A. KLOCEK
Dr. Dana Smith, Faculty Mentor
Theatre in Service

10:15 16-2 SEAN T. O'NEIL
Dr. Becky Becker, Faculty Mentor
State Street State of Mind: A Crack at Representing High School Life Onstage

9:45-10:45 AM
SESSION 17

VH 1224

PAPERS: HUMAN POTENTIAL AND PERFORMANCE DIVISION –
Sport Psychology

Presiding: Dr. Chris Lantz, Associate Professor of Health and Exercise Science

9:45 17-1 HOLLY E. BAUCH* and KRISTIN N. MCFARLAND
Dr. Chris Lantz, Faculty Mentor
Determining the Motivational Differences Among Collegiate Varsity and
Intramural Athletes

10:00 17-2 LEAH C. ZIDON
Dr. Chris Lantz, Faculty Mentor
Mirror, Mirror on the Wall: Using Body Mass Index, Social Physique Anxiety
and Self-esteem to Predict Eating Attitudes in Rural Northeast Missouri High
School Students

10:15 17-3 NICOLE J. GANDY* and JACOB J. KINGERY
Dr. Chris Lantz, Faculty Mentor
A Study of Motivation in Task Orientated Individuals

10:30 17-4 ROSE BUZA
Dr. Chris Lantz, Faculty Mentor
The Influence of Multi-ethnicity on Psychological Factors Associated with
Exercise Among High School Students

9:45-10:45 AM
SESSION 18

OP 2115

PAPERS: INTERDISCIPLINARY –

Culture and Music

Presiding: Dr. Thomas Zoumaras, Associate Professor of History

- 9:45** **18-1** RICHARD K. GOERING
Dr. Robert Mielke, Faculty Mentor
Cultural Reflection and Impact of a Common Candy: Ferrara Pan's Atomic FireBall®
- 10:00** **18-2** JOHN D. BISGES
Dr. Robert Mielke, Faculty Mentor
Turtle Power! How Four Mutant Teenagers Nuked the Entertainment Industry
- 10:15** **18-3** ANDREW R. LEWIS
Dr. Arnold Preussner and Dr. Thomas Zoumaras, Faculty Mentors
Baseball and Music: Combining to Transform Baseball into America's National Pastime
- 10:30** **18-4** COLEY P. LEWIS
Dr. Marc Rice, Faculty Mentor
Guiding the Message of the Soul: The Record Producer's Influence over Musicians

9:45-10:45 AM
SESSION 19

VH 1010

PAPERS: LANGUAGE AND LITERATURE DIVISION – English

Presiding: Dr. Cole Woodcox, Professor of English

- 9:45** **19-1** KATHRYN M. WIDITZ
Dr. Cole Woodcox, Faculty Mentor
A Little Bit of Sex in Dhalgren
- 10:00** **19-2** THOMAS A. USETED
Dr. Cole Woodcox, Faculty Mentor
A Queer Reading of the Work of David Bowie, 1970-1973
- 10:15** **19-3** NICHOLAS G. KUNTZ^
Dr. Cole Woodcox, Faculty Mentor
From Blackface to Painted Face
- 10:30** **19-4** JENNIFER A. STRICKLAND
Dr. Cole Woodcox, Faculty Mentor

F***ing Punk Up the Ass or The Carnival of Queercore

9:45-10:45 AM
SESSION 20

VH 1212

**PAPERS: LANGUAGE AND LITERATURE DIVISION –
Memoir, Creative Fiction, Creative Nonfiction and Essay**

Presiding: Dr. Royce Kallerud, Assistant Professor of English

- 9:45** **20-1** JESSICA L. FORD
Dr. Hena Ahmad, Faculty Mentor
Finding Our Truths: The Elusive Definition of Documentary Work
- 10:00** **20-2** NEIL P. STRANSKY
Dr. Hena Ahmad, Faculty Mentor
1974 Cadillac Sedan DeVille
- 10:15** **20-3** ADNAN SELIMOVIC
Dr. Hena Ahmad, Faculty Mentor
The Hardest Paper I Have Ever Written
- 10:30** **20-4** ANTHONY ALBRECHT
Dr. Hena Ahmad, Faculty Mentor
The Illusion of a United America and Mary Louise Pratt's *Arts of the Contact Zone*

9:45-10:30 AM
SESSION 21

VH 1228

**PAPERS: LANGUAGE AND LITERATURE DIVISION –
English and German**

Presiding: Dr. Rodney Taylor, Associate Professor of German

- 9:45** **21-1** DANA L. KUHNLINE
Dr. Patricia Gately, Faculty Mentor
Learning to Love Corn: A Midwestern Poetry Project
- 10:00** **21-2** SHAWNA R. ARCHER*, ANNE E. SCHONHARDT, SHANNON M. CLARKIN, and LAURA J. JORDAHL
Dr. Mary Shapiro, Faculty Mentor
Who Are 'you'? : The Danger of Pseudo-Generic 2nd Person Pronouns

10:15 21-3 KELLEN C. STEPHENS
Dr. Rodney Taylor, Faculty Mentor
Die Philosophie der Kraft des Universums

9:45-10:45 AM
SESSION 22

OP 2121

PAPERS: SCIENCE DIVISION –
Agriculture

Presiding: Dr. Glenn Wehner, Professor of Agriculture

9:45 22-1 CARY L. RIVARD* and **DAVID L. TROTT**
Dr. Thomas E. Marshall and Dr. Frank Louws (North Carolina State University), Faculty Mentors
Growth Rates in Organic and Conventional Treatments of *Cucumis sativa*

10:00 22-2 DAVID L. TROTT, JOY L. CHISHOLM, and MARK VOGEL
Dr. Theo Clark, Dr. Sara Madsen, and Dr. Michael Seipel, Faculty Mentors
Nutritional Analysis of Poultry Reared in Controlled Pasture Conditions versus Poultry Reared Conventionally

10:15 22-3 JOY L. CHISHOLM*, **DAVID L. TROTT, JEFF G. COX** and **CATHERINE E. ZIVNUSKA**
Dr. Michael Seipel, Faculty Mentor
Feed Efficiency of Pastured Poultry Systems

10:30 22-4 CATHERINE E. ZIVNUSKA
Dr. Michael Seipel, Faculty Mentor
Foraging Behavior of Chickens in Day-Range Pastured Poultry Systems

9:45-10:45 AM
SESSION 23

OP 2117

PAPERS: SCIENCE DIVISION –
Insect Biology

Presiding: Dr. Steven Carroll, Associate Professor of Biology

9:45 23-1 TARA C. THIEMANN^
Dr. Laura J. Fielden, Faculty Mentor
Water Uptake in the Cat Flea *Ctenocephalides felis*

10:00 23-2 KATHERINE H. FREDERICK

Dr. Jon C. Gering, Faculty Mentor
Effects of Forest Attributes, Host Tree Identity, and Phenology on the
Abundance of an Exotic Beetle Species, the Asiatic Oak Weevil (*Crytepistomus
castaneus* Roleofs)

10:15 23-3 KELLY A. MCGRATH
Dr. Jon C. Gering, Faculty Mentor
Scale Dependence of Effective Specialization: Implications for Estimates of
Global Insect Species Richness

10:30 23-4 JAMES A. ROSS
Dr. Stephen F. Matter, Faculty Mentor
The Effects of Forest Barriers on the Movement of Butterfly *Parnassius
smintheus*

**9:45-10:45 AM
SESSION 24**

VH 1000

**PAPERS: SOCIAL SCIENCE DIVISION –
Psychology and Gender**

Presiding: Dr. Jeffrey Vittengl, Assistant Professor of Psychology

**9:45 24-1 JESSALYN L. ARNOLD*, LISA M. SCHLERETH, SAMANTHA K.
FIDLER, SANDI M. BISZANTZ, and BRYNN E. WEIMER**
Dr. Teresa M. Heckert, Faculty Mentor
Gender Differences in Perceived Roles of Men and Women

**10:00 24-2 MEGAN E. COSTELLO*, LATISHA J. MEYER^, and WILLIAM A.
STONE**
Dr. Jeffrey R. Vittengl, Faculty Mentor
Gender Differences in Social Support: A Comparison of Psychotherapy Styles

10:15 24-3 ANDREA BULLERDIECK*^ and CASSANDRA M. DOMINICK^
Dr. Michelle Breault, Faculty Mentor
Gendered Language and its Effects on Persuasiveness

10:30 24-4 ELIZABETH G. KLUESNER* and CASSANDRA M. DOMINICK^
Dr. Robert Tigner, Faculty Mentor
Personality Attributions and Projected Self-Esteem Based on Body Type and
Gender

**9:45-10:30 AM
SESSION 25**

VH 1320

**PAPERS: SOCIAL SCIENCE DIVISION –
Philosophy**

Presiding: Dr. Patricia Burton, Professor of Philosophy

9:45 25-1 COLMAN D. MCCARTHY
Dr. David Gruber, Faculty Mentor
Legal Ethics: The Question of the Perjurious Client

10:00 25-2 EMILY J. BURNS
Dr. Patricia Burton, Faculty Mentor
Could You Persuade Us if We Do Not Listen?

10:15 25-3 TY K. FAGAN
Dr. Patricia Burton, Faculty Mentor
Aletheia and Unforgetting

11:00 AM -12:00 PM

OP 1393, Performance Hall

**KEYNOTE ADDRESS – ALL DIVISIONS
Undergraduate Research is Hot!**

Presiding: Garry L. Gordon, Vice President for Academic Affairs

Speaker: Dr. Joseph Gallian, University of Minnesota-Duluth

**12:00 -1:15 PM
SESSION D-1**

Union, Conference Room

**ROUNDTABLE DISCUSSION (Student-oriented) –
How to get started on a research, scholarly, or creative project**

Presiding: Ms. Tiffany Lucas, Senior Biology Major and a faculty member (TBA)

**12:00 -1:15 PM
SESSION D-2**

Union, 309

**ROUNDTABLE DISCUSSION (Student-oriented) –
Tips for delivering excellent presentations**

Presiding: Dr. Frederic Shaffer, Professor of Psychology, Ms. Nancy Majewski,
Instructor of Communication, and Ms. Shawna Cooper, Senior Biology Major

12:00 -1:15 PM
SESSION D-3

Union, Spanish Room

ROUNDTABLE DISCUSSION (Faculty-oriented) –
Integrating research and teaching: Using your classes to feed your scholarship

Presiding: Dr. Brent Buckner, Associate Professor of Biology and Dr. Sara Orel,
Associate Professor of Art

12:00 -1:15 PM
SESSION D-4

Union, Governors' Room

ROUNDTABLE DISCUSSION (Faculty-oriented) –
Enhancing the teacher-scholar faculty model at Truman

Presiding: Dr. Jeffrey Osborn, Chair, Undergraduate Research Committee and other
members of the Committee

1:15-2:15 PM
SESSION 26

OP Atrium

POSTERS, TECHNOLOGY DEMONSTRATIONS, & STUDIO ARTS:
ALL DIVISIONS

EDUCATION DIVISION

- 26-1** DAVID J. SALVATIERRA[^]
Dr. Christopher J. Maglio, Dr. Maria DiStefano, and Dr. Cavit Cooley, Faculty
Mentors
Academic Self-Concept and Academic Achievement in Rural Hispanic Students

FINE ARTS DIVISION

- 26-2** KYLE ANDREW SCHELLINGER
Joan Mather, Faculty Mentor
The robe à la française: Extreme Costume for an Opulent Era

HUMAN POTENTIAL AND PERFORMANCE DIVISION

- 26-3** SARAH M. DANCE* AND DAVID L. MAYHEW[^]

Dr. Alex J. Koch, Faculty Mentor
Rest Interval Length During Heavy Resistance Exercise Does Not Affect
Concentrations Of Soluble Intercellular Adhesion Molecule-1 (sICAM-1)

- 26-4** KATIE CARNELIA* and JESSICA A. RADINSKY^
Dr. Alex J. Koch, Ms. Michelle Boyd, ATC and Dr. Jerry Mayhew, Faculty Mentors
A Comparison of Urinary Osmometer and Refractometer Readings of Hydration Among College Football Players
- 26-5** JONATHAN A. STEWART
Dr. Jerry Mayhew, Faculty Mentor
Prediction Equation for Max Bench Press in College Football Players from NFL-225 Test
- 26-6** MONICA R. MARLOWE
Dr. Jerry Mayhew, Faculty Mentor
Comparison of the Effects of Active Ankle Braces and Ankle Taping on Jump Performance and Agility in Collegiate Volleyball Players
- 26-7** JAMIE M. POHLMAN
Mrs. Liz Jorn and Dr. Jerry Mayhew, Faculty Mentors
How Should We Determine if Our Client Is Obese? An Examination of the Body Mass Index, Percent Fat and the Overweight Index
- 26-8** JILL M. MEYER* and SAMI L. RUNNELS
Mrs. Liz Jorn, Faculty Mentor
Are You an Athlete or a Non-athlete? Body Composition Assessment Using the Tanita Bioelectrical Impedance Scale
- 26-9** JILL M. MEYER
Mrs. Liz Jorn, Faculty Mentor
Sportsmanship Attitude Differences between English and American Collegiate Rugby Players
- 26-10** ADAM BLILEY
Mrs. Liz Jorn, Faculty Mentor
The Elimination of Cheerleading at Truman State University: The Effect on Our Athletes
- 26-11** CATHY DIERKER*, BEN WILSON, KATIE CARNELIA and JASON BELSHER
Mrs. Liz Jorn, Faculty Mentor
An Examination of Student Attendance at Truman State University Athletic Events

- 26-12** DANIEL J. BOYLE and PATRICK T. BOYLE*
Mrs. Liz Jorn, Faculty Mentor
Fitness Attitudes and Motives of First-year College Students
- 26-13** ROBIN L. LOFT*, ASHLEA WOOD, and BETH L. TIMMERMAN
Mrs. Liz Jorn, Faculty Mentor
Exercise Patterns of Faculty and Staff at Truman State University
- 26-14** SARA A. CLOUSE*, ALAN M. TOIGO and MAGEN A. HEMBREE
Dr. Carolyn C. Cox, Faculty Mentor
The Student Ombudsmen Model: Increasing the Number of Long Term Care Ombudsmen in Northeast Missouri
- 26-15** ELIZABETH CARPENTER* and CHRISTINA DEGENHARDT
Dr. Carolyn C. Cox, Faculty Mentor
Safe Brake II
- 26-16** MAUREEN K. LONERGAN* and ERIK A. JUDSON
Dr. Carolyn C. Cox, Faculty Mentor
Health Promotion Program Offerings in Large and Extra-Large Colorado Worksites: A Comparison to 1999 National Survey Findings
- 26-17** SARAH C. SHELTON* and ERIN C. CAHILL
Dr. Carolyn C. Cox, Faculty Mentor
The West Nile Virus: What Health Educators Need to Know
- 26-18** KARRISA A. WEIDINGER* and JACQUE S. NEUWOEHNER
Dr. Carolyn C. Cox, Faculty Mentor
A Four-Phase Needs Assessment for a Rural Free Medical Clinic
- 26-19** SARA R. LANGENFELD
Dr. Rebecca McClanahan, Faculty Mentor
Life in the Fast Lane: The Lived Experience of Mental Illness
- 26-20** BRANDI CRISTINE SWEIGER
Dr. Rebecca McClanahan, Faculty Mentor
The Trip into His World: The Lived Experience of Mental Illness
- 26-21** TERESA A. ROTH
Dr. Rebecca McClanahan, Faculty Mentor
A Life of Grays: The Lived Experience of Mental Illness
- 26-22** HATTIE M. MCDOWELL
Dr. Stephanie A. Powelson, Faculty Mentor
Prenatal Screening for HIV in Northeast Missouri

- 26-23** AMANDA V. FRITZ
Dr. Stephen C. Hadwiger, Faculty Mentor
Comparing Explanatory Models Between Practitioners and Mexican-Americans with Type II Diabetes
- 26-24** ANDREA L. SMITH
Dr. Stephen C. Hadwiger, Faculty Mentor
The Effect of Behavioral Interventions on Stress Urinary Incontinence in Postpartum Women
- 26-25** JENNY L. GARVIN*, COLIN ALEC NIES, HEATHER D. CRAIG^, KATIE ULDALL, KELLY L. BECK and SHANA M. DOERR^
Dr. Paula S. Cochran, Faculty Mentor
Multi-media Development for Communication Disorders: Digital Movie Library
- 26-26** KIERIN N. ELLMAN*, REGAN A. FUEMMELER^, STACI J. IMES, KATE A. KELLY and CARLA L. YOUNGDAHL
Dr. Paula S. Cochran, Faculty Mentor
Multi-media Development for Communication Disorders: Simplifying Civics

LANGUAGE AND LITERATURE DIVISION

- 26-27** TERI L. PATTERSON
Dr. Cole Woodcox, Faculty Mentor
Thinking Outside the Box
- 26-28** HILARY WRIGHT*, KATIE HERMESMEYER^
Dr. Steven Stepanek, Faculty Mentor
Hazard to Ya Booty: A Study of the Integrated Elements and Execution of a Promotional Campaign for a Local Funk Band

MATHEMATICS AND COMPUTER SCIENCE DIVISION

- 26-29** CHRISTOPHER C. BAY
Dr. Jason Miller, Faculty Mentor
Characterizing Bat Species via Their Echolocation Call's Wavelet Transform

SCIENCE DIVISION

- 26-30** KURT W. HOEMAN* and NATHANIEL L. WOODRUM
Dr. David McCurdy and Mr. T.W. Sorrell, Faculty Mentors
Construction of an Evanescent Wave Spectrometer

- 26-31** KATHLEEN M. SPEARS
Dr. Karen C. Cone (University of Missouri, Columbia) and Dr. Brent Buckner,
Faculty Mentors
From Clone to Chromosome: Integrating the Genetic and Physical Maps of the
Maize Genome
- 26-32** SHAWNA A. COOPER
Dr. Andrew D. McClellan (University of Missouri-Columbia) and Dr. Brent
Buckner, Faculty Mentors
Organization of Sensory and Motor Components of the Trigeminal System in
the Larval Sea Lamprey, *Petromyzon marinus*
- 26-33** ELIZABETH A. HAHN*, KATHERINE C. KRUEGER and KERRY L.
MASSMAN
Dr. Brent Buckner, Faculty Mentor
Sequence Diversity at the *y1* Locus of Maize
- 26-34** REBECCA T. TAGUE
Dr. Stephanie A. Fore, Faculty Mentor
Analysis of the Spatial Distribution of Genetic Relationships within and
Echinacea laevigata Population
- 26-35** ALEXIS N. SCHOENEKASE
Dr. Jeffrey M. Osborn, Faculty Mentor
Comparative Pollen Morphology of the Giant Water Lily *Victoria*
(Nymphaeaceae)
- 26-36** JESSICA L. MENKE
Dr. Eric V. Patterson, Faculty Mentor
Computational Chemical Studies of Pherhydrolysis of Nerve Agent VX
- 26-37** MYCHEL E. VARNER*, and AMANDA E. COMBS
Dr. Maria Nagan, Faculty Mentor
Computational Simulation of a Human tRNA Molecule
- 26-38** AMANDA WOOD
Dr. Mark Campbell, Faculty Mentor
Continued Screening of Exotic Maize Germplasm for High Starch-Amylose
- 26-39** OWEN S. FORCK
Dr. Glenn Wehner and Dr. David McCurdy, Faculty Mentors
Determination of Mineral Fluctuations in Cervical Mucus in the Cow
- 26-40** KATHLEEN M. SPEARS*, MORGAN REUTER and LINDSAY WAGER
Dr. George Shinn, Faculty Mentor

Diversity of Freshwater Clams in Northeastern Missouri

- 26-41** ALISON M. DWYER
Dr. Matthew M. Beaky, Faculty Mentor
Improving the Identification Rate of Free-flying Bats as an Aid to Bat Conservation
- 26-42** JEFFREY R. SKINNER^
Dr. Stephanie A. Fore, Dr. Michael I. Kelrick, Dr. Lisa Hooper, Dr. Scott Alberts and Dr. Dean de Cock, Faculty Mentors
Influence of Burning on Changes in the Size, Shape and Random Amplified Polymorphic DNA (RAPD) Profile Composition of *Vaccinium Stamineum L. Patches*
- 26-43** SARAH J. WELCH
Dr. Peter J. Ramberg, Faculty Mentor
Isaac Newton and the Alchemical Tradition
- 26-44** MICHAEL T. CONE*, TODD J. LANSFORD, LISA S. LESLIE and LUCAS D. WARD
Dr. Michael Goggin, Faculty Mentor
Laser Cooling and Trapping of Rubidium Atoms
- 26-45** MELISSA J. DAVIS
Dr. Michael S. Burt, Faculty Mentor
Preliminary Analyses of the Character Displacement Theory of Two Northeast Missouri Shrews
- 26-46** JULIE A. SCHWARTZ
Dr. Rui-Hong Wang (National Institutes of Health), Dr. Jeffrey M. Osborn, Faculty Mentors
Studies of a Cancer-Related Gene: Brca1's Role in Mitotic Spindle Assembly Checkpoint
- 26-47** NOELLE E. HUNT, SUCHETA S. JAWALKAR and DAVID T. SHANE*
Dr. Matthew M. Beaky, Faculty Mentor
Two-Dimensional Photonic Crystal Research in the Microwave Region

SOCIAL SCIENCE DIVISION

- 26-48** CHEYLYNNE Y. BOSLEY*, SIERRA A. BRESCIA, ELIZABETH A. ECKARDT, JENNIFER M. NEIDIG, KRISTEN S. SHELVER, and LAURA A. SAPENOFF
Dr. Jeffrey R. Vittengl, Faculty Mentor
Do Academic Achievement, Post-Undergraduate Plans, and Personality Predict

Undergraduate Psychology Students' Interest in Research?

- 26-49** GLORIA DIRNBECK*, SARA WALKENBACH, TISHA R. WILEY, and ERIKA B. VAN TUYL
Dr. Karen Smith, Faculty Mentor
Test-Retest Reliability in Three Implicit Learning Tasks
- 26-50** LOGAN BANKS^, ADAM LIPPS^, SUSAN JACOBSMEYER*, KATHRYN RUMORA, and IAN LYNAM
Dr. Fred Shaffer, Faculty Mentor
The Effects of Instructions, Sitting Position, and Task on Baseline Measurements
- 26-51** SUSAN JACOBSMEYER*, LYNN GIDDINGS, STEVE SASFAI, BRIDGET LUEBERING, and MELISSA SCHLERETH
Dr. Fred Shaffer, Faculty Mentor
Validation of an Infrared Temperature Scanning Procedure for the Hands

2:15-3:15 PM
SESSION 27

VH 1300

**PAPERS: EDUCATION DIVISION –
Elementary Education, Middle School, and Special Education**

Presiding: Dr. Donna Rhinesmith, Associate Professor of Elementary Education

- 2:15** **27-1** AMANDA D. FINN^
Dr. Wendy S. Miner, Faculty Mentor
Differentiation Strategies for English Language Learner (ELL) Middle School Students
- 2:30** **27-2** ANDREA C. KATOLIN^
Dr. Wendy S. Miner, Faculty Mentor
Investigating the Use of Differentiation to Better Serve High-Ability Mathematics Students
- 2:45** **27-3** CYNTHIA L. CASON^
Dr. Dale P. Blesz, Faculty Mentor
A Qualitative Study of Families of Students with Special Needs
- 3:00** **27-4** CORY D. MILLES^
Dr. Patricia Smiser, Faculty Mentor
Incorporating the SmartBoard in the Classroom to Increase Student Achievement

2:15-2:45 PM
SESSION 28

OP 2210

**PAPERS: FINE ARTS DIVISION –
Graduate Student Research in Music**

Presiding: Dr. Warren Gooch, Associate Professor of Music

- 2:15** **28-1** ANDREA L. BATES^
Dr. Warren Gooch, Faculty Mentor
Structure and Text in Carl Phillip Emmanuel Bach's "Passionslied"
- 2:30** **28-2** KATHLEEN M. ANSELMO^
Dr. Warren Gooch, Faculty Mentor
Kurt Weill's Use of Parody in the 'Overture' of Little Threepenny Music

2:15-3:30 PM
SESSION 29

VH 1224

**PAPERS: HUMAN POTENTIAL AND PERFORMANCE DIVISION –
Health and Hearing**

Presiding: Dr. James Padfield, Assistant Professor of Health and Exercise Science

- 2:15** **29-1** ALLISON DOUGHERTY
Dr. James Padfield, Faculty Mentor
LDL and HDL Subfractions as Markers for Cardiovascular Disease Risk
- 2:30** **29-2** CARMINA L. MARASIGAN
Dr. James Padfield, Faculty Mentor
C-Reactive Protein as a Marker for Cardiac Disease Risk
- 2:45** **29-3** ALAN M. TOIGO*, SARA A. CLOUSE, MAGEN A. HEMBREE and
ERIK A. JUDSON
Dr. Carolyn C. Cox, Faculty Mentor
Long Term Care Administrators' Perceptions of the Ombudsmen Program in
the State of Missouri
- 3:00** **29-4** C. DANIELLE FARRAR
Dr. Janet Gooch, Faculty Mentor
A Comparison of the Hearing Levels of Two Populations: Urban and Rural
Citizens
- 3:15** **29-5** JENNIFER J. MAIN

Dr. John Ishiyama (Social Science) and Dr. L. Kent Hawkins (Northeastern State University), Faculty Mentors
Musicians and Non-Musicians: An Examination of Phonemic Awareness

2:15-3:00 PM
SESSION 30

VH 1228

**PAPERS: HUMAN POTENTIAL AND PERFORMANCE DIVISION –
Biomechanics**

Presiding: Dr. Michael Bird, Associate Professor of Health and Exercise Science

- 2:15** **30-1** MATT W. CRAINE* and KELLI RICHARDSON
Dr. Jerry Mayhew, Faculty Mentor
Differences in Vertical Jump Measurements Between VERTEC and an Automated Jump Pad
- 2:30** **30-2** MEGHAN K. HUTTON
Dr. Jerry Mayhew, Faculty Mentor
Relationships Among Stress Fractures, Bone Density, Body Fat, and Other Contributing Factors in Female Cross Country/Track Athletes and Swimmers
- 2:45** **30-3** ADAM M. JOHNSON* and JEREMY R. CRENSHAW
Dr. Michael Bird, Faculty Mentor
Characteristics and Variability Between Low and High Goalkeeper Dives

2:15-3:00 PM
SESSION 31

OP 2115

**PAPERS: INTERDISCIPLINARY –
Phi Kappa Phi Session**

Presiding: Dr. Mary Shapiro, Assistant Professor of Linguistics

- 2:15** **31-1** TEDDY K. KURTH
Dr. Charlie Apter, Dr. David Christiansen, and Dr. Sara Orel, Faculty Mentors
Contrasts between Ancient Greek and Native American Views on Horsemanship
- 2:30** **31-2** GREG S. OBERBECK
Dr. Charlie Apter and Dr. Julia DeLancey, Faculty Mentors
Native American and European Cultural Differences Reflected in the Type of Learning Principles Utilized in Horse Training

2:45 31-3 KRISTIN WALSTROM
Dr. Michael Seipel, Faculty Mentor
“Barefoot, In the Snow, Uphill Both Ways:” An Interdisciplinary Look at One-Room Schoolhouses

3:00-3:30 PM
SESSION 32

OP 2302, ‘Black Box’ Theater

PERFORMANCES: INTERDISCIPLINARY –
Phi Kappa Phi Session

Presiding: Dr. William Ashcraft, Associate Professor of Religion

3:00 32-1 KATIE GAMBACH, JENNY SCHACKMANN*, MICHELLE C. LILLY
Dr. Sara Orel, Faculty Mentor
I Am... Images of Women in the Middle East

2:15-3:30 PM
SESSION 33

VH 1010

PAPERS: LANGUAGE AND LITERATURE DIVISION –
Communication

Presiding: Steven Chappell, Assistant Professor of Communication

2:15 33-1 KENDRA S. ANTONY
Steven Chappell, Faculty Mentor
Closing the Achievement Gap with Technology

2:30 33-2 REBECCA A. OJILE
Steven Chappell, Faculty Mentor
Cyberstalking: A Growing Trend in the 21st Century

2:45 33-3 JENNIFER L. MONTGOMERY
Steven Chappell, Faculty Mentor
Electronic Medical Records: Patient Information in the Internet Age

3:00 33-4 ALISON B. HANNON
Steven Chappell, Faculty Mentor
Media Bringing Us Closer to War

3:15 33-5 JENNIFER E. OHLENDORF
Steven Chappell, Faculty Mentor

Online Education: Taking Learning Out of the Classroom

2:15-3:30 PM
SESSION 34

VH 1212

PAPERS: LANGUAGE AND LITERATURE DIVISION –
English and Communication

Presiding: Dr. Robert Mielke, Professor of English

- 2:15** **34-1** KATHERINE B. VOLIN
Dr. Robert Mielke, Faculty Mentor
Langston Hughes and his Madam: Voicing the African American Female in the Search for Equality
- 2:30** **34-2** MATTHEW L. CARLYLE
Dr. Robert Mielke, Faculty Mentor
The Quest for Counter-Hegemony: Post-Colonialism in Spike Lee's *Do the Right Thing* and Julie Dash's *Daughters of the Dust*
- 2:45** **34-3** RYAN W. HEGGS
Dr. Matthew Killmeier, Faculty Mentor
The Sopranos Puts a Hit Out on Masculine Consumption
- 3:00** **34-4** AMY L. CARMACK
Dr. Todd Holm, Faculty Mentor
Whatcha Gonna Do when the TV Crew Comes for You: A Rhetorical Analysis of *JohnsTV*
- 3:15** **34-5** JOHN D. BISGES
Dr. Adam Davis, Faculty Mentor
How the Legend of Zelda Rots Your Brain and Why It Feels So Good: A Biogenetic Structuralist Look at the Mythology of a Video Game

2:15-3:30 PM
SESSION 35

OP 2111

PAPERS: MATHEMATICS & COMPUTER SCIENCE DIVISION –
Mathematics

Presiding: Dr. Suren Fernando, Associate Professor of Mathematics

- 2:15** **35-1** NAOMI L. WEISBROOK
Dr. Pamela J. Ryan, Faculty Mentor

Boolean Algebra and the Representation Theorem

- 2:30** **35-2** KEVIN EUGENE SCHLERETH
Dr. Pamela J. Ryan, Faculty Mentor
On the Solubility of the General Quintic Equation
- 2:45** **35-3** RAY M. SHELL
Dr. David Garth, Faculty Mentor
Continued Fractions as an Approximation of Real Numbers
- 3:00** **35-4** HEATH M. COLES
Dr. David Neel, Faculty Mentor
The Collapse of the Tacoma Narrows Bridge
- 3:15** **35-5** CHRISTOPHER C. BAY
Dr. Jason Miller, Faculty Mentor
Characterizing Bat Species via Their Echolocation Call's Wavelet Transform

2:15-3:30 AM
SESSION 36

OP 2117

**PAPERS: SCIENCE DIVISION –
Plant & Animal Genetics**

Presiding: Dr. Thomas Marshall, Professor of Agriculture

- 2:15** **36-1** CARRIE M. PUCKETT
Dr. Nancy Sanders, Faculty Mentor
Science Education in Northeast Missouri: A Look into Teaching Perspectives
on the Topic of Evolution
- 2:30** **36-2** EJKEMENWA I. ANIH
Dr. Mark R. Campbell, Faculty Mentor
Development of a Core Subset of Chilean Maize Populations by Near Infrared
Transmittance Spectroscopy
- 2:45** **36-3** MEGHANA R. KUNKALA
Dr. Mark R. Campbell, Faculty Mentor
Identification of High-Amylose Modifying Genes from a Maize Backcrossing
Project
- 3:00** **36-4** BENJAMIN P. MILLETT
Dr. Daniel Hite and Dr. Yiji Xia (Donald Danforth Plant Science Center),
Faculty Mentors
Isolation of Genes Involved in Disease Resistance Response by Screening

CDRI Suppressor Mutations

- 3:15 36-5** BRENDAN L. DUEDE*, KERRY J. BURD, RACHEL L. TRAVERS, SARAH M. HOBBS and ERIN K. ROTTINGHAUS
Dr. Janna McLean, Faculty Mentor
Targeting Various Suppressor Mutations of *Segregation Distorter* in *Drosophila melanogaster*

2:15-3:30 PM
SESSION 37

VH 1000

PAPERS: SOCIAL SCIENCE DIVISION –
Sensation, Perception and Physiological psychology

Presiding: Dr. Chad Mohler, Assistant Professor of Philosophy

- 2:15 37-1** DAVID C. CAPPS
Dr. Chad Mohler, Faculty Mentor
A Functionalist Account of Sensory Illusion
- 2:30 37-2** SATOMI MAEDA
Dr. Terry Palmer, Faculty Mentor
Local Allocation of Visual Attention in Facial Expressions
- 2:45 37-3** JOANNA R. HOAG
Dr. Terry Palmer, Faculty Mentor
Featural Processing Determined by Reaction Times in Facial Attention: Eye vs. Mouth Dominance
- 3:00 37-4** TRAVIS SMITH*, BRYAN HOTUJEC, and CALLISTA WEBB
Dr. Fred Shaffer, Faculty Mentor
Effects of Music Tempo on Heart Rate
- 3:15 37-5** LOGAN BANKS^, ADAM LIPPS^, FREDERICK FRANKEN, LYNN GIDDINGS*, ASHLEY BURDEN, and JENNIFER SCHWYHART
Dr. Fred Shaffer, Faculty Mentor
The Comparative Effects of Position and Cordless Phone Equipment on Upper Trapezius and Cervical Paraspinal Surface EMG

2:15-3:15 PM
SESSION 38

VH 1320

PAPERS: SOCIAL SCIENCE DIVISION –
World History

Presiding: Dr. David Robinson, Professor of History

- 2:15 38-1 EMILY F. WEIDHAAS**
Dr. David Robinson, Faculty Mentor
Two Germanies, Two Histories: Interpretations of History in East and West Germany
- 2:30 38-2 MICHAEL T. CONE**
Dr. David Robinson, Faculty Mentor
The Failure of the German Atomic Bomb Program
- 2:45 38-3 ELIZABETH M. SEVERS**
Dr. Sally West, Faculty Mentor
Stalin's Purges: One Event, Many Lives
- 3:00 38-4 STEPHANIE L. RUSSELL**
Dr. Steven D. Reschly, Faculty Mentor
From Entertainment to Entertained: The Transformation and Development of Leisure Among Chinese Immigrant Populations, 1850-1930

3:30-3:45 PM
BREAK

OP Atrium & VH Atrium

3:45-5:00 PM
SESSION 39

OP 2210

PAPERS: FINE ARTS DIVISION –
Issues in Musicology and Music Theory

Presiding: Dr. Marc Rice, Assistant Professor of Music

- 3:45 39-1 C. RENEE PARVIZ**
Dr. Warren Gooch, Faculty Mentor
The Development of the French Baroque Suite
- 4:00 39-2 VINCENT T. CHANDLER**
Dr. Marc Rice, Faculty Mentor
The Evolution of Progressive Rock: Dream Theater and Classical Influences
- 4:15 39-3 CHERAYLA J. DAVIS**
Dr. Marc Rice, Faculty Mentor
The Role of Spirituals in the Freedom of Slaves

- 4:30** **39-4** KATE M. CHRISTMAN
 Dr. Marc Rice, Faculty Mentor
 Brazilian Nationalism: An Analysis of Guarnieri's Sonatina for Flute and Piano
- 4:45** **39-5** KIRSTEN M. URICK
 Dr. Sherri Mattson, Faculty Mentor
 Stage Fright: Coping with Performance Anxiety from the Vocalist's Perspective

3:45-5:00 PM
SESSION 40

VH 1228

**PAPERS: HUMAN POTENTIAL AND PERFORMANCE DIVISION –
 Exercise Physiology - Anaerobic**

Presiding: Dr. Jerry Mayhew, Associate Professor of Health and Exercise Science

- 3:45** **40-1** ELIZABETH A. WELSCH
 Dr. Jerry Mayhew, Faculty Mentor
 Electromyographical Activity of the Pectoralis Major and Anterior Deltoid
 Muscles During Three Upper Body Lifts
- 4:00** **40-2** MARC L. HEINECKE*, JASON WAGGONER and ZAC COOPER
 Dr. Jerry Mayhew and Dr. Alex Koch, Faculty Mentors
 Comparison of Force Curves in Variable Resistance Bench Press and Isotonic
 Bench Press
- 4:15** **40-3** CALIE M. FULMER*, DIANA L. BETSWORTH and SARA A.
 HATCHER
 Dr. Jerry Mayhew and Dr. Chris Lantz, Faculty Mentors
 Contributing Factors to Gender Differences in Anaerobic Power as Measured by
 the Margaria-Kalamian Stair Run
- 4:30** **40-4** AARON B. ARMSTRONG
 Mrs. Mary Lou Cole and Dr. Jerry Mayhew, Faculty Mentors
 Repetitions in a Bench Press Workout

3:45-5:00 PM
SESSION 41

OP 2113

**PAPERS: INTERDISCIPLINARY –
 University issues & The Horse**

Presiding: Dr. David Christiansen, Associate Professor of Classics

- 3:45** **41-1** **JAKE CZESCHIN**
 Dr. James Padfield and Dr. Dean DeCock, Faculty Mentors
 Athletics Publicity and Freshman Recruitment at Truman State University and
 University of Missouri - Columbia
- 4:00** **41-2** **ADAM M. JOHNSON*, DEVIN WEISHUHN, MEGAN WIESE, and
 JENNA ZELLER**
 Dr. James Padfield, Faculty Mentor
 Availability of Desired Commercial Enterprises between Truman State
 University, Missouri Public Universities, and CoPLAC Institutions
- 4:15** **41-3** **KARI J. HOEBING**
 Dr. Charlie Apter and Dr. Julia DeLancey, Faculty Mentors
 A Comparison of the Value of the Horse in the Cowboy Era and Modern Times
- 4:30** **41-4** **ALEXIS N. SCHOENEKASE**
 Dr. Charlie Apter and Dr. James Harmon, Faculty Mentors
 Perspectives of the Horse during Times of War
- 4:45** **41-5** **LAUREN E. STRANGE**
 Dr. Charlie Apter, Dr. David Christiansen, and Dr. Sara Orel, Faculty Mentors
 Postures of Horses in Classical Artworks Reflect Stallion Sexual Behavior

3:45-4:45 PM
SESSION 42

OP 2115

**PAPERS: INTERDISCIPLINARY –
 Phi Kappa Phi Session**

Presiding: Dr. Martha Bartter, Professor of English

- 3:45** **42-1** **JOSHUA M. SHIVE**
 Dr. Terry Palmer, Faculty Mentor
 A Rhythm-Contingent Pitch Illusion
- 4:00** **42-2** **SHAWN M. DOYLE**
 Dr. Shirley McKamie, Faculty Mentor
 Topics in Ethnomusicology: Can Copyright Law Protect Tribal Music?
- 4:15** **42-3** **LESLIE NICOLE BLANCHARD**
 Dr. Joan Mather, Faculty Mentor
 Makeup: What's On Your Face?
- 4:30** **42-4** **TISHA R. WILEY* and ERIKA B. VAN TUYL**
 Dr. Karen L. Smith and Dr. John Perrachione, Faculty Mentors

Targeting Sexual Advertisements: The Impact of Model, Product,
Suggestiveness, and Consumer Age

3:45-5:00 PM
SESSION 43

VH 1212

PAPERS: LANGUAGE AND LITERATURE DIVISION –
Communication

Presiding: Dr. Todd Holm, Assistant Professor of Communication and Assistant Director
of Forensics

- 3:45** **43-1** JACLYN R. DEVINE
Dr. Todd Holm, Faculty Mentor
Online Fear Appeal: You Could Get Scammed!
- 4:00** **43-2** HEATHER J. CARMACK
Dr. Todd Holm, Faculty Mentor
Everything's Gonna Be All White: A Rhetorical Analysis of "The Fightin'
Whities"
- 4:15** **43-3** JULIE A. ANDERSON
Dr. Todd Holm, Faculty Mentor
The Adrian Dominican Sisters
- 4:30** **43-4** ROBERT L. STOKES, II
Dr. Andrew Klyukovski, Faculty Mentor
Critical Analysis of Hitler's and Ezekiel's Vision of the Apocalypse
- 4:45** **43-5** HEATHER J. CARMACK
Dr. Janet Davis, Faculty Mentor
Does Slushy Mix Make a Narrative? An Examination of Narrative and
Incongruity Theories in *Josh and the Big Wall*

3:45-5:00 PM
SESSION 44

VH 1010

PAPERS: LANGUAGE AND LITERATURE DIVISION –
Communication

Presiding: Diane Johnson, Assistant Professor of Communication

- 3:45** **44-1** AMY L. CARMACK
Diane Johnson, Faculty Mentor

Let's Go to the Movies: An Examination of Cinema Therapy in Contemporary Society

- 4:00** **44-2** **SARA L. BATTY**
Diane Johnson, Faculty Mentor
Women's Body Image and the Media: The Negative Influence of Media on Women
- 4:15** **44-3** **FADZAI SMOUT**
Dr. Bob Tobia, Faculty Mentor
Media Representation as an Indicator of Social Change in South Africa and Cuba
- 4:30** **44-4** **ERIN M. ABELN**
Dr. Barry Poyner, Faculty Mentor
Musical Influence in Social Movements
- 4:45** **44-5** **SARAH STRULL**
Nancy Majewski, Faculty Mentor
Burke and the Beatles: Identification and Consubstantiality Shed Light on an Old Favorite

3:45-4:15 PM
SESSION 45

OP 2111

**PAPERS: MATHEMATICS & COMPUTER SCIENCE DIVISION –
Statistics**

Presiding: Dr. Jay Belanger, Associate Professor of Mathematics

- 3:45** **45-1** **LEVI J. GIOVANETTO**
Dr. Scott Alberts, Faculty Mentor
Total Deviation: A New Statistic
- 4:00** **45-2** **JESSICA L. CHAPMAN**
Dr. Hyun-Joo Kim, Faculty Mentor
Analysis of Covariance

3:45-5:00 PM
SESSION 46

OP 2117

**PAPERS: SCIENCE DIVISION –
Chemistry and Biochemistry**

Presiding: Dr. Theo Clark, Assistant Professor of Chemistry

- 3:45** **46-1** JOLITA SECKUTE
Dr. Eric V. Patterson, Faculty Mentor
Computational Chemistry Study on the Neutralization of Chemical Warfare Agent VX via Perhydrolysis
- 4:00** **46-2** PHILIP R. SCHIFF
Dr. Michael Goggin, Faculty Mentor
Experiments in Atomic and Molecular Spectroscopy
- 4:15** **46-3** NATE POLASKE
Dr. Mark R. Campbell, Faculty Mentor
Screening for High-Amylose Corn Genotypes Using Differential Scanning Calorimetry of Native Starches
- 4:30** **46-4** CORINNE R. VOKOUN
Dr. Daniel Vaughan M. Pultz, Faculty Mentor
Molecular Orbital Calculations Applied to the Interpretation of Vibrational Circular Dichroism Spectra
- 4:45** **46-5** ANDREA J. KAHLER[^]
Dr. Jose Herrera, Faculty Mentor
Assessing Deoxynivalenol Binding Specificity by Lactic Acid Bacteria

3:45-4:45 PM
SESSION 47

VH 1000

PAPERS: SOCIAL SCIENCE DIVISION –
Psychology and the College Student

Presiding: Dr. Judi Misale, Associate Professor of Psychology

- 3:45** **47-1** SARAH E. SCHACK* and CATHERINE F. MARGAVIO
Dr. Judi M. Misale, Faculty Mentor
College Students and Politics: The Effects of Age
- 4:00** **47-2** KIM WINTON*, SARA LITTLE, STEFANIE DREW and CYNTHIA KHAN
Dr. David Conner, Faculty Mentor
Assessing the Relationship between Adolescent Development and Self-Esteem/Body Image
- 4:15** **47-3** JONATHAN S. THACKER and EMILY R. HOLEKAMP
Dr. Robert Tigner, Faculty Mentor

What versus Where: An Examination of Memory for the Identity and Location of Objects

- 4:30** **47-4** LEVI J. GIOVANETTO
Dr. Robert Tigner, Faculty Mentor
Room Attribution of Greek Life and Smoking on College Campuses

3:45-4:45 PM
SESSION 48

VH 1320

**PAPERS: SOCIAL SCIENCE DIVISION –
U. S. History and Economics**

Presiding: Dr. Jane Sung, Professor of Economics

- 3:45** **48-1** ZACHARY W. BURDEN
Dr. Thomas Zoumaras, Faculty Mentor
What Happens When Johnny Comes Marching Home: A Look at Postwar
Growth at the Northeast Missouri State Teachers College
- 4:00** **48-2** ANDREW R. LEWIS
Dr. Thomas Zoumaras, Faculty Mentor
Allied in Depression and Allied in War: How Baseball and America Overcame
Fifteen Difficult Years from 1930 to 1945
- 4:15** **48-3** AMANDA C. TAUCHER* and MELANIE M. NOLKER
Dr. Jane Sung, Faculty Mentor
Economic Determinants of Unemployment: An Empirical Analysis
- 4:30** **48-4** MATTHEW R. WALCZEWSKI* and SHUANG LI
Dr. Jane Sung, Faculty Mentor
Empirical Analysis of Consumer Confidence Index, Index of Consumer
Sentiment: Explanation of Driving Factors

5:00-6:00 PM

OP Atrium

RECEPTION: ALL DIVISIONS