

# 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



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 2<sup>nd</sup> 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<sup>^</sup>  
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<sup>^</sup>

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 21<sup>st</sup> 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<sup>^</sup>  
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**