

5th ANNUAL
Student
Research and Creative Activity
Fair



Friday, March 8, 2013

**ALL EVENTS WILL TAKE PLACE IN
THE MILO BAIL STUDENT CENTER**

This event was made possible with support from the Office of Research and Creative Activity and the Office of Academic and Student Affairs.



WELCOME

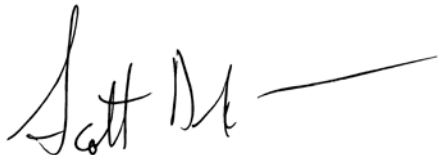
As a student-centered university, the University of Nebraska at Omaha provides diverse opportunities for students to become engaged scholars through research and creative activity. The 5th annual Student Research and Creative Activity Fair will introduce you to our dynamic undergraduate and graduate students. We hope you will enjoy the day-long showcase of their research and creative activity as oral presentations, performances, poster presentations, and exhibits.

Thank you to the faculty advisors for encouraging their students and sharing their time and expertise. They are numerous and represent all six of UNO's colleges, as well as UNL's College of Engineering.

We appreciate the willingness and time of those serving as judges for this event, our community colleagues and friends: Rhonda Ahrens, Physicians Mutual; Ellie Archer; Adam Case, University of Nebraska Medical Center; Lee Denker, University of Nebraska at Omaha Alumni Association; Charles D. Fritch, Fritch Eye Care Medical Center; Adam Haeder, AIM Institute; Matt Hammons, University of Nebraska; Kristina Haynie, Project Harmony; Brian Henkel, Papio-Missouri River Natural Resources District; Jef Johnston, Avenue Scholars Foundation; Tim McIvor, Omaha Public Power District; Todd Morris, PayPal; Wendy Patterson, The Salvation Army; Steven Schreiner, UNeMed—University of Nebraska Medical Center; Marty Skomal, Nebraska Arts Council; Bill Snyder; Grant Stanley, CAN (Contemporary Analysis); Paula Turpen, University of Nebraska Medical Center; and Scott Tylski, ConAgra Foods.

Enjoy your time on campus today. Thank you for supporting student research and creative activity at UNO.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott M." followed by a long horizontal line extending to the right.

Scott D. Snyder, Ph.D.

Associate Vice Chancellor for Research and Creative Activity

DAY-AT-A-GLANCE

TIME	ACTIVITY	LOCATION
7:00 AM	Poster set-up and install	Ballroom and Nebraska Room
8:30 AM	Check in	Ballroom
	Coffee and light breakfast	Ballroom
9:00 AM	Poster presentations	Ballroom and Nebraska Room
	Oral presentations (12 minutes each)	Council, Dodge, Gallery, and Omaha Rooms
10:30 AM	Coffee break	Ballroom and Council, Dodge, Gallery, and Omaha Rooms
12:00 NOON	Lunch	Ballroom, with additional seating in the Chancellor's Room
	Lunch seating and viewing of posters	Ballroom and Nebraska Room
12:30 PM	Poster set-up and install (if needed)	Ballroom and Nebraska Room
1:00 PM	Poster sessions	Ballroom and Nebraska Room
	Oral presentations (12 minutes each)	Council, Dodge, Gallery, and Omaha Rooms
2:30 PM	Coffee break	Ballroom and Council, Dodge, Gallery, and Omaha Rooms
4:00 PM	Removal of posters	Ballroom and Nebraska Room

The awards will be presented in a separate ceremony on Monday, March 11, 2013, at 5:00 PM at the W.H. Thompson Alumni Center. All are invited to attend.

Oral Presentations/Performances COUNCIL ROOM, 3RD FLOOR, MBSC

Faculty Moderator: Jeffrey French, Psychology

Time	STUDENT		Major	Degree Status	FACULTY ADVISOR		Title	Co-Authors (if applicable):
9:00	Alyssa	Steffen	BIOLOGY	Undergraduate	Karen	Murch-Shafer	Parasite, Pest, and Pathogen Monitoring in Three Newly Established Subspecies of <i>Apis mellifera</i>	
9:15	Justin	Barnes	PSYCHOLOGY	Undergraduate	Lisa	Scherer	Physical Activity as a Potential Moderator of Work-School Conflict on Incivility, Caffeine Intake and Sleep Quality	Lisa Scherer, Eric Faurote
9:30	Daniel	Casey	BIOTECHNOLOGY	Undergraduate	Paul	Davis	Toxicity and Efficacy of KG1 in clearing <i>Toxoplasma gondii</i> infection	Dr. Paul Davis and Joshua Larson
9:45	Giovanni	Consolino	SPEECH COMMUNICATION	Undergraduate	Chin-Chung	Chao	Cultural Values and Cohesiveness: Seeing through the Lived Experience of the Insiders in an Instructional Context	Dr. Chin-Chung Chao
10:00	April	Corbet	COMPUTER SCIENCE	Undergraduate	Parvathi	Chundi	Analyzing Sentiments from Street Harassment Stories	
10:15	Amy	Hester	BIOTECHNOLOGY	Undergraduate	William	Tapprich	Structural analysis of the Coxsackievirus B3 genome by in-line probing	

10:30 COFFEE BREAK

10:45	Danielle	Hoechner	TCH ENGL TO SPKRS OF OTHR LANG	Undergraduate	Sarah	Edwards	Open Minds: Enhancing Preteacher Diversity Experiences	
11:00	Kelsey	Palm	PSYCHOLOGY	Undergraduate	Lisa	Scherer	Empathetic Responding to those with Celiac Disease as a Function of Trait Empathy and Situational Factors: A Research Proposal	Lisa Scherer
11:15	Christopher	Molini	COMPUTER SCIENCE	Undergraduate	Haifeng	Guo	TABCAP - A Table-Based Computing Application	
11:30	Kimberly	Morss	ENVIRONMENTAL SCIENCES	Undergraduate	Dana	Richter-Egger	Distinguishing between Possible Sources of Lead Poisoning in Children in Omaha, NE	
11:45	Jerome	Prusa	BIOTECHNOLOGY	Undergraduate	William	Tapprich	A Comparison of Genome Structures in Naturally Occurring Virulent and Avirulent Coxsackieviruses	

12:00 LUNCH IN BALLROOM (2ND FLOOR OF MBSC)

Faculty Moderator: Christopher Decker, Economics

1:00	Steven	Hartman	THEATRE	Undergraduate	Amy	Lane	Annual FAUST Production : Reviving the Castle of Perseverance	
1:15	Hanna	Schleu	PSYCHOLOGY	Undergraduate	Lisa	Scherer	Coping Skills as a Moderator of Work-School Conflict on the Effects of Sleep Duration, Mood State, and General Well-Being	Lisa Scherer
1:30	Phillip	Smith	MUSIC	Undergraduate	Melissa	Berke	Rite, Recursion, and Rock & Roll: The Compositional Process in matryoshka	
1:45	Travis	Timm	BIOTECHNOLOGY	Undergraduate	Donald	Rowen	Localization of a Type III secretion chaperone SpcU within <i>Pseudomonas</i> Bacterial cells	
2:00	Brad	Woosley	COMPUTER ENGINEERING	Undergraduate	Prithviraj	Dasgupta	Dynamic Robotic Task Allocation using Real Time Path Planning with Field D*	Prithviraj Dasgupta
2:15	Lindsay	Brown	ENVIRONMENTAL SCIENCES	Undergraduate	Claudia	Rauter	Influence of density-dependent competition on the feeding behavior of burying beetles <i>Nicrophorus marginatus</i>	

2:30 COFFEE BREAK

**Oral Presentations/Performances
COUNCIL ROOM, 3RD FLOOR, MBSC (continued)**

Time	STUDENT	Major	Degree Status	FACULTY ADVISOR		Title	Co-Authors (if applicable):
2:45 Holly	Wilson	CREATIVE NONFICTION	Undergraduate	John	Price	Traversing the Interior Land of Chronic Pain	
3:00 Ali	Rezaeian	COMPUTER SCIENCE	Graduate: Masters	Azad	Azadmanesh	Sensor Area Coverage Analysis and Experimentation	
3:15 Sriram	Srinivasan	COMPUTER SCIENCE	Graduate: Masters	Sanjukta	Bhowmick	Detecting And Using Base Clusters For Modularity Maximization	
3:30 Vikas	Thotakuri	COMPUTER SCIENCE	Graduate: Masters	Sanjukta	Bhowmick	Evaluating the effectiveness of Network Centrality in the Context of Shakespeare's Plays	
3:45 Dhawal	Verma	COMPUTER SCIENCE	Graduate: Masters	Hesham	Ali	A Novel Approach for Integration of Association Rule Mining in the Analysis of GWAS for Cancer Networks	

**Oral Presentations/Performances
GALLERY ROOM, 3RD FLOOR, MBSC
Faculty Moderator: Alan Kolok, Biology**

Time	STUDENT	Major	Degree Status	FACULTY ADVISOR		Title	Co-Authors (if applicable):
9:00 Lulu	Ferdous	PSYCHOLOGY	Undergraduate	Jonathan	Santo	Circadian Dysrhythmia and Long Term Flight	
9:15 Luwam	Gebreslase	PSYCHOLOGY	Undergraduate	Lisa	Scherer	Psychological Capital and Dark Triad as a Moderator of Unfair Work Situation on Organizational Citizenship Behavior: A Research Proposal	Lisa Scherer
9:30 Matthew	Christenson	BIOTECHNOLOGY	Undergraduate	Paul	Davis	From Frog to Prince: The Transformation of the Sentinel Organism <i>Rana pipiens</i>	Andrew J. Trease, Lindsey A. Knight, Alan S. Kolok, Paul H. Davis
9:45 Dylan	Goodman	EXERCISE SCIENCE	Undergraduate	Shane	Wurdeman	Variability of Gait is Dependent on Direction of Motion	
10:00 Lucas	Harrison	BIOTECHNOLOGY	Undergraduate	Alan	Kolok	Agricultural Runoff in the Elkhorn River : Is Fate Bound to Vegetation?	Lindsey Knight, Racine Rangel
10:15 Colleen	Hochfelder	BIOLOGY	Undergraduate	Bruce	Chase	Survey of rodent Babesia infection in the Grand Teton National Park	

10:30 COFFEE BREAK

10:45 Andrew	Jezewski	BIOTECHNOLOGY	Undergraduate	Paul	Davis	Identification and characterization of a genetic motif that causes life-long infection of a brain liquefying parasite	
11:00 Nicholas	Kinkead	BIOTECHNOLOGY	Undergraduate	Donald	Rowen	Examination of Type III Toxin-Chaperone Interaction by Copurification	
11:15 Laura	Knapp	CIVIL ENGINEERING	Undergraduate	Shannon	Bartelt-Hunt	Influence of Lead Hyperaccumulators on Surrounding Vegetation	
11:30 Sarah	Lehn	BIOTECHNOLOGY	Undergraduate	Paul	Davis	Effects of <i>Toxoplasma gondii</i> growth in host cells that overexpress the gene CYP17	
11:45 Deborah	Gleich-Bope	EDUCATIONAL LEADERSHIP	Graduate: Doctoral	Connie	Schaffer	Urban Immersion Program	Cindy Copich

12:00 LUNCH IN BALLROOM

Oral Presentations/Performances GALLERY ROOM, 3RD FLOOR, MBSC (continued)

Faculty Moderator: Angela Eikenberry, Public Administration

Time	STUDENT	Major	Degree Status	FACULTY ADVISOR	Title	Co-Authors (if applicable):
1:00	Andrew Reinke	ARCHITECTURAL ENGINEERING	Undergraduate	Ece Erdogmus	Architectural Engineering Integration Characteristics of Compressed Stabilized Earth Blocks	
1:15	Steven Ready	BIOTECHNOLOGY	Undergraduate	Paul Davis	Abnormal Growth of the Parasite Toxoplasma Gondii in Human Cells	
1:30	Elizabeth Spartz	NEUROSCIENCE	Undergraduate	Paul Davis	Measuring Anxiety in Mice with Fragile X Syndrome	
1:45	Sheridan Trent	PSYCHOLOGY	Undergraduate	Lisa Scherer	Reviewing Resilience as a Possible Moderator of Work-School Conflict on Job Satisfaction, Excessive Daytime Sleepiness, and General Well-Being	Lisa Scherer
2:00	Amaya Bañuelos	ENGLISH	Undergraduate	Pamela Smith	Madness in African and African-American Feminist novel: A Journey of Reconciliation	
2:15	Cecilia Jensen	MUSIC PERFORMANCE-STRING	Undergraduate	Roger Foltz	Dreams or Dots: Reimagining the Coexistence of Text and Music	

2:30 COFFEE BREAK

2:45	Lydia Chavez	MUSIC INDUSTRIAL-ORGANIZATIONAL PSYCH	Undergraduate	Barry Ford	Music Theory in Five Easy Steps	
3:00	Stephanie Sands		Graduate: Masters	Lisa Scherer	Measuring Self-Perceived Idea Fluency	Lisa Scherer, Lee Ferrante
3:15	Sara Tangdall	ENGLISH	Graduate: Masters	Frank Bramlett	The Influence of Popular Culture on Women's Identities: A Diachronic Discourse Analysis of Vogue Magazine	
3:30	Matt Tucker	COMPUTER SCIENCE	Graduate: Masters	Parvathi Chundi	Survey of Sentiment Analysis Discourses of Masculinity: The New Man, The New Lad, and Maxim Magazine	
3:45	James Vnuk	ENGLISH	Graduate: Masters	Frank Bramlett		

Oral Presentations/Performances DODGE B ROOM, 3RD FLOOR, MBSC

Faculty Moderator: Neal Grandgenett, Teacher Education

Time	STUDENT	Major	Degree Status	FACULTY ADVISOR	Title	Co-Authors (if applicable):
9:00	Scott McGrath	BIOINFORMATICS	Graduate: Masters	Dhundy (Kir) Bastola	BioPerl: The fastest draw in the west?	
9:15	Ryan Anderson	ECONOMICS	Graduate: Masters	Catherine Co	The Principal-Agent Problem and Residential Energy Efficiency	
9:30	Heather Doering	COUNSELING/GER ONTOLOGY	Graduate: Masters	Paul Barnes	Environmental Influences on Career Choice Behavior: The Low-Income, First-Generation College Student Perspective	
9:45	Changsoo Song	PUBLIC ADMINISTRATION	Graduate: Doctoral	Kenneth Kriz	Factors Influencing Micro-enterprises' Information Technology Adoption	
10:00	Nargess Tahmasbi	INFO SYSTEMS & QUANTITATIVE ANALYSIS	Graduate: Doctoral	Deepak Khazanchi	Exploring Network Structure and Information Diffusion Pattern of Twitter- The Jan Lokpal Movement Case	Abhishek Tripathi
10:15	Robert Lytle	CRIMINOLOGY & CRIMINAL JUSTICE	Graduate: Doctoral	Lisa Sample	Variation in Criminal Justice Policy Making: An Exploratory Study Using Sex Offender Registration and Community Notification Laws	

10:30 COFFEE BREAK

Oral Presentations/Performances
DODGE B ROOM, 3RD FLOOR, MBSC (continued)

Time	STUDENT	Major	Degree Status	FACULTY ADVISOR		Title	Co-Authors (if applicable):
10:45	Naresh Padala	MANAGEMENT INFO SYSTEMS	Graduate: Masters	Douglas	Derrick	Biometric Video Surveillance Development NGOs in a changing Bolivia: What is their role in civic engagement in Cochabamba?	
11:00	Megan Edwards	PUBLIC ADMINISTRATION	Graduate: Masters	Angela	Eikenberry	Food Deserts as a Social Problem in Omaha	
11:15	Marcia Ghali Bergren	SOCIAL WORK	Graduate: Masters	Peter	Szto	Predicting Electronic Victimization Among Home School Youth: The Role of Technology use and Skill Level	
11:30	Heather Giles	PSYCHOLOGY MASS	Graduate: Masters	Juan	Casas	Social Network Uses of Newspaper Websites	
11:45	Farhod Rahmatov	COMMUNICATION	Graduate: Masters	Jeremy	Lipschultz		

12:00 LUNCH IN BALLROOM (2ND FLOOR OF MBSC)

Faculty Moderator: Jeanette Harder, Social Work

1:00	Heather Wills	BIOLOGY	Graduate: Masters	L. LaReesa	Wolfenbarger	Effects of an Established Wind Farm on Levels of Stress Hormones in Greater Prairie Chickens (<i>Tympanuchus cupido</i>) and Sharp-tailed Grouse (<i>Tympanuchus phasianellus</i>)	
1:15	David Grothen	BIOLOGY	Graduate: Masters	Paul	Davis	Molecular Detection of Pathogens in Human Surface Waters of Lima, Peru	
1:30	Charles Howell	ECONOMICS INFORMATION ASSURANCE	Graduate: Masters	Catherine	Co	Top-Shelf Price for Bottom-Shelf Goods: Transaction Related Price Factors	
1:45	Connie Jones	ASSURANCE	Graduate: Masters	Robin	Gandhi	Evaluating the Use of Assurance Cases for Digital Forensics	
2:00	Pamm Killeen	COMMUNICATION	Graduate: Masters	Chin-Chung	Chao	Gettin' Down Wit Da Talkin' Thang: Perception of Communicative Competence When Using Urban Vernacular in a Job Interview	
2:15	Lindsey Knight	BIOLOGY	Graduate: Masters	Alan	Kolok	A Tale of Two Species: The Fathead Minnow and Northern Leopard Frog as Environmental Sentinels of the Elkhorn River	Matthew Christenson, Andrew Trease, Paul Davis, Alan Kolok

2:30 COFFEE BREAK

2:45	Joshua Larson	BIOLOGY	Graduate: Masters	Paul	Davis	Evaluation of the therapeutic value of two drug-like compounds for clearing human infections using the mouse model	
3:00	Johannes Matschke	ECONOMICS	Graduate: Masters	Catherine	Co	The Impact of Performance Payments on Job Satisfaction-- Studied Over Time	
3:15	Frank Mitchell	ECONOMICS	Graduate: Masters	Christopher	Decker	Religion and Reconstruction: Religiosity and Manufacturing Investment and Efficiency during	
3:30	Madeleine Moody	SCHOOL PSYCHOLOGY INDUSTRIAL- ORGANIZATIONAL PSYCH	Graduate: Masters	Lisa	Kelly-Vance	A Relational Aggression Intervention in Early Childhood	Lisa Kelly-Vance, Juan F. Casas
3:45	Mackenzie Harms	PSYCH	Graduate: Masters	Gina	Ligon	Categorizing Violent Extremist Organizations	Gina Ligon, Pete Simi, Dan Harris

Oral Presentations/Performances OMAHA ROOM, 3RD FLOOR, MBSC

Faculty Moderator: Griff Elder, Mathematics

Time	STUDENT	Major	Degree Status	FACULTY ADVISOR		Title	Co-Authors (if applicable):
9:00	Daniel Harris	INDUSTRIAL-ORGANIZATIONAL PSYCH	Graduate: Masters	Gina	Ligon	What Business Leaders Can Learn from Terrorists	Doug Derrick, Pete Simi, Gina Ligon
9:15	Julia Warnke	BIOINFORMATICS	Graduate: Doctoral	Hesham	Ali	Scalable Graph Modeling of Next Generation Sequencing Reads	Hesham Ali
9:30	José Baca	INFORMATION TECHNOLOGY	Post Doctoral Fellow	Prithviraj	Dasgupta	Dynamic Gait Adaptation in fixed configuration for Modular Self-Reconfigurable Robots using Fuzzy Logic Control	Prithviraj Dasgupta, Ayan Dutta, Carl Nelson
9:45	Jasjit Banwait	INFORMATION TECHNOLOGY	Graduate: Doctoral	Dhundy (Kir: Bastola)		Enriching miRNA-mRNA relationship with miRNA binding site's sequence profiling and its surrounding environment	Hesham Ali
10:00	Oliver Bonham-Carter	BIOINFORMATICS	Graduate: Doctoral	Dhundy (Kir: Bastola)		A Meta-genome Sequencing and Assembly Preprocessing Algorithm Inspired by Restriction Site Base Composition	Hesham Ali Benjamin Steiner, Matthew Makarios, Lawrence Travis
10:15	H. Daniel Butler	CRIMINOLOGY & CRIMINAL JUSTICE	Graduate: Doctoral	Benjamin	Steiner	Assessing the Effects of Exposure to Different Prison Environments on Offender Recidivism	

10:30 COFFEE BREAK

10:45	Byungwoo Cho	PUBLIC ADMINISTRATION	Graduate: Doctoral	John	Bartle	A Sketch of Sustainable Development: Which Units of US City Budgets Focus on Sustainability?	
11:00	Sangil Choi	INFORMATION TECHNOLOGY	Graduate: Doctoral	Jong-hoon	Youn	On-board Processing of Acceleration Data for Real-time Activity Classification	
11:15	Jacquelyn Davis	NEUROSCIENCE	Graduate: Doctoral	Suzanne	Sollars	Chronic Oral Capsaicin Highlights the Relationship Between the Lingual and Chorda Tympani Nerves	
11:30	Kathryn Dempsey	BIOINFORMATICS	Graduate: Doctoral	Hesham	Ali	A Computational Model for Identifying Causative Genetic Relationships using Biological Networks and Gateway Nodes	
11:45	Janyl Jumadinova	INFORMATION TECHNOLOGY	Graduate: Doctoral	Prithviraj	Dasgupta	A Novel Distributed Prediction Market Model and Algorithm for Forecasting Outcomes of Related Events	Prithviraj Dasgupta

12:00 LUNCH IN BALLROOM (2ND FLOOR OF MBSC)

Faculty Moderator: Paul Davis, Biology

1:00	Sotirios Diamantas	INFORMATION TECHNOLOGY	Post Doctoral Fellow	Prithviraj	Dasgupta	Optical Flow based Velocity Estimation for a Mobile Robot	Prithviraj Dasgupta
1:15	Ayan Dutta	INFORMATION TECHNOLOGY	Graduate: Doctoral	Prithviraj	Dasgupta	Reconfiguration Planning of Modular Robot under Uncertainty	Prithviraj Dasgupta, Jose Baca, Carl Nelson
1:30	Danielle Bailey	CRIMINOLOGY & CRIMINAL JUSTICE	Graduate: Doctoral	Lisa	Sample	Variation in Sex Offender Parole Officer Relationships: Does Victim Age Matter?	
1:45	Anastasia Kyvelidou	HEALTH, PHYSICAL EDUCATION & RECREATION	Post Doctoral Fellow	Nick	Stergiou	Differences of COP variability between full and pre term infants in the sitting position	Regina T. Harbourne, Nicholas Stergiou
2:00	Jie Xiong	INFORMATION TECHNOLOGY	Graduate: Doctoral	Sajda	Qureshi	Cross Country and State Level Analysis of e-Commerce Adoption Between Small Businesses in China and the United States	Sajda Qureshi
2:15	Abhishek Tripathi	INFORMATION TECHNOLOGY	Graduate: Doctoral	Lotfollah	Najjar	Wisdom of Crowd: a survey and taxonomy of crowdsourced problems	Nargess Tahmasbi

2:30 COFFEE BREAK

**Oral Presentations/Performances
OMAHA ROOM, 3RD FLOOR, MBSC (continued)**

Time	STUDENT	Major	Degree Status	FACULTY ADVISOR		Title	Co-Authors (if applicable):
2:45	Aaryn Mustoe	PSYCHOLOGY	Graduate: Doctoral	Jeffrey	French	Care to share? Exploring the relationship between altruism and oxytocin in marmosets	
3:00	Daniel Leib	EXERCISE SCIENCE	Graduate: Doctoral	Sara	Myers	Acute Improvements in elderly gait with a structured auditory stimulus	
3:15	Yan Xiao	PUBLIC ADMINISTRATION	Graduate: Doctoral	Kenneth	Kriz	The Effect of Public Pension Funding on State Credit Ratings Effects of urbanization on the species richness and abundance of native grassland birds	
3:30	Melissa Mount	BIOLOGY	Graduate: Masters	L. LaReesa	Wolfenbarger	Transtibial amputee prosthesis preference is related to the change in stride-to-stride fluctuations	Sara Myers, Adam Jacobsen, Nicholas Stergiou
3:45	Shane Wurdeman	EXERCISE SCIENCE	Graduate: Doctoral	Nick	Stergiou		

Poster Presentations/Exhibits
BALL AND NEBRASKA ROOMS, 2ND FLOOR, MBSC
MORNING SESSION: 9:00 AM-12:00 Noon

Faculty Moderators: Kenneth Kriz, Public Administration, and Sara Myers, Health, Physical Education and Recreation

STUDENT		Major	Degree Status	FACULTY ADVISOR		Title	Co-Authors (if applicable):
Laura	Allen	BIOLOGY	Undergraduate	Tomas	Helikar	Systems Analysis of Signal Transduction Networks Through R-Based Programming	
Kristi	Apa	NEUROSCIENCE	Undergraduate	Suzanne	Sollars	Structural changes in the nucleus of the solitary tract following chorda tympani nerve cut in young rats	
Rosemary	Arrah	SPECIAL EDUCATION	Graduate: Masters	Kristine	Swain	Teachers' and principals' perceptions of students with special education needs in Cameroon Secondary Schools	
Rachel	Bailey	CHEMISTRY	Undergraduate	Alan	Gift	The Use of a Polymer Excipient to Inhibit the Hydrate Transformation of Carbamazepine	Alan Gift
Jung	Chien	PHYSICAL EDUCATION	Graduate: Doctoral	Nick	Stergiou	Suprathreshold mechanical vestibular stimulation affects postural control during standing	Mukul Mukherjee, Nick Stergiou
Sheila	Cornett	PSYCHOLOGY	Undergraduate	Roni	Reiter-Palmon	Team Dynamics: Understanding the Relationship Between Personality Traits and Perception of Reflexivity Behaviors	Teresa Queen
Lauren	Dahlquist	BIOLOGY	Undergraduate	Christine	Cutucache	Effects of implementing problem-based learning activities in an undergraduate setting	Dr. Christine Cutucache
Caroline	Day	BIOTECHNOLOGY	Undergraduate	Paul	Davis	Accurately Quantifying Stage Specific Enolase and GAPDH Transcripts in Toxoplasma gondii	
Triparna	de Vreede	PSYCHOLOGY	Graduate: Doctoral	Roni	Reiter-Palmon	Effect of Shared Mental Models on Consensus	
Alek	Diffendaffer	EXERCISE SCIENCE	Graduate: Masters	Sara	Myers	Patients with peripheral arterial disease exhibit greater toe clearance than healthy controls	Troy Rand
JoDee	Friedly	INDUSTRIAL-ORGANIZATIONAL PSYCH	Graduate: Masters	Gina	Ligon	Applying Historiometry to Terrorist Organizations	Dan Harris, Mackenzie Harms, Gina Ligon
Emiliano	Grassi	PSYCHOLOGY	Undergraduate	Jonathan	Santo	Social Competence as a Mediator of the Association between Positive Parent/Child Relationships and Peer Acceptance: An Examination of Early Adolescents from Montreal, Barranquilla, Bogota and Curitiba	Santo, J.B., da Cunha, J., Saldarriaga L.M., Velasquez, A.M., Felicia Meyer, Lopez, L.S., Carmago, G. William M. Bukowski
Emily	Hanigan	HEALTH, PHYSICAL EDUCATION & RECREATION	Graduate: Masters	Jennifer	Huberty	Translating research to the community: Can a community-based book club increase physical activity among women long-term?	Weddle, A., ¹ Ehlers, D. (MA) ² , Huberty, J. (Ph.D.) ² ¹ University of Nebraska-Omaha ² Arizona State University
Kiel	Hansen	PSYCHOLOGY	Undergraduate	Roni	Reiter-Palmon	The Influence of Task and Impulsivity on Malevolent Creativity	Daniel Harris Brad Hullsiek, Roni Reiter-Palmon, Nicholas Arreola, Ben Wigert, Erika Morral, Danielle Crough
Mackenzie	Harms	INDUSTRIAL-ORGANIZATIONAL PSYCH	Graduate: Masters	Roni	Reiter-Palmon	Team Creativity: An Exploratory Analysis of Creative Problem Solving in Teams	Lisa Scherer, University of Nebraska at Omaha, Joseph A. Allen, Ph.D., Creighton University
Elizabeth	Harp	INDUSTRIAL-ORGANIZATIONAL PSYCH	Graduate: Masters	Lisa	Scherer	Empathy and Burnout among Volunteers with Varying Degrees of Person-Organization Fit	Matt Heesch, William Goodenkauf, Landon Zuehlke, Dustin Slivka
Brent	Hassenstab	EXERCISE SCIENCE	Graduate: Masters	Dustin	Slivka	Proteolytic Gene Response to Exercise and Temperature	Wayne Fisher, Srikant Vallabhajosula, Nicholas Stergiou
Joshua	Haworth	HEALTH, PHYSICAL EDUCATION & RECREATION	Graduate: Doctoral	Nick	Stergiou	Perception of Motion Complexity is Deficient in Adults with Autism Spectrum Disorder	

Poster Presentations/Exhibits
BALL AND NEBRASKA ROOMS, 2ND FLOOR, MBSC
MORNING SESSION: 9:00 AM-12:00 Noon

STUDENT		Major	Degree Status	FACULTY ADVISOR		Title	Co-Authors (if applicable):
Chun-Kai	Huang	EXERCISE SCIENCE	Graduate: Doctoral	Ka-Chun	Siu	The Effect of Vibrotactile Stimulation on Long Range Correlation of Stride Interval Time Series Among Different Walking Speeds	Jung Hung Chien, Srikant Vallabhajosula, Mukul Mukherjee, Nick Stergiou, Ka-Chun Siu
Brittany	Judge	SCHOOL PSYCHOLOGY	Graduate: Masters	Brian	McKevitt	Positive Behavior Support for Individuals with Severe and Profound Disabilities	
Leanna	Keith	MUSIC-PERFORMANCE-WOODWIND	Undergraduate	Barry	Ford	The Themes of Rimsky-Korsakov's Russian Easter Festival Overture	
Victoria	Kennel	INDUSTRIAL-ORGANIZATIONAL PSYCH	Graduate: Doctoral	Roni	Reiter-Palmon	Creative Idea Evaluation and Selection: Effects of Process Structure and Individual Differences	Roni Reiter-Palmon
Sean	Kirker	ARCHITECTURAL ENGINEERING	Undergraduate	Ece	Erdogmus	Damage Detection on Historic Stone Masonry Using Non-Destructive Testing	
Richelle	LeMay	COMPUTER SCIENCE	Graduate: Masters	Jong-Hoon	Youn	Postural Transition Detection using a Wireless Sensor Activity Monitoring System	
Megan	Liken	POLITICAL SCIENCE	Undergraduate	Gregory	Petrow	International Trade and Public Opinion	
Andile	Mahlangeni-Byndon	NEUROSCIENCE	Undergraduate	Priscilla	Quinn	Improving the Likelihood of Effective Nutritional Intake among Residents of Long-term Care Facilities	
Louis	Martin	NEUROSCIENCE	Graduate: Masters	Suzanne	Sollars	Taste Activity in the Adult Glossopharyngeal Nerve Following Neonatal Chorda Tympani Nerve Injury in Rats	Suzanne Sollars
Hillary	McNeel	CRIMINAL JUSTICE	Graduate: Doctoral	Pete	Simi	I'm Just a Juggalo! Will Gangs Go On Without Me?	Dr. Gregg Etter, University of Central Missouri
Kristin	Micek	EDUCATIONAL SPECIALIST	Graduate: Masters	Brian	McKevitt	The Relationship Between Teachers' Self-Efficacy with Behavior Management and School-Wide Positive Behavior Supports	Brian McKevitt, Jonathan Santo
Annesha	Mitra	PSYCHOLOGY	Undergraduate	Jonathan	Santo	Depression, Self-Concept Anxiety and Academic Performance Effecting Self-Continuity on Early Adolescents	Jonathan Bruce Santo, William M. Bukowski
Stephanie	Mueller	INDUSTRIAL-ORGANIZATIONAL PSYCH	Graduate: Masters	Lisa	Scherer	Defining and Measuring Employee Organizational Resentment	Lisa Scherer, Christine Quick
Nguyen	Nguyen	CHEMISTRY	Undergraduate	Douglas	Stack	Cyclic Voltammograms of Estrogen Quinones	Douglas E. Stack
Jay	Pedersen	BIOINFORMATICS	Graduate: Doctoral	Dhundy (Kiran)	Bastola	Malware Analysis assisted by Bioinformatics Tools	Dhundy Bastola, Ken Dick, Robin Gandhi, William Mahoney
Marissa	Poe	NEUROSCIENCE	Undergraduate	Suzanne	Sollars	Changes in the Morphology of Tongue Tissue Resulting from Lingual Nerve Transection	
Amber	Reis	SCHOOL PSYCHOLOGY	Graduate: Masters	Lisa	Kelly-Vance	An Effective Reading Intervention for Elementary Students	Stephanie Scheer
Jessica	Renz	EXERCISE SCIENCE	Undergraduate	Nick	Stergiou	Long Range Correlations in the Stride Interval of Stair Climbing	Mukul Mukherjee
Josh	Ryan	THEATRE	Undergraduate	Steven	Williams	The Beautiful and Damned	
Brady	Sillman	BIOLOGY	Undergraduate	Mark	Schoenbeck	Molecular characterization of the Glechoma hederacea virescent-like mutant: Discovery of differentially expressed genes	P. Roxanne Kellar, Mark Schoenbeck
Heather	Tice	INDUSTRIAL-ORGANIZATIONAL PSYCH	Graduate: Masters	Lisa	Scherer	Development of a Family Affective Commitment Scale	Lisa Scherer, Rose Green
Nhi	Tran	MEDICINAL CHEMISTRY	Undergraduate	James	Hagen	Botulinum Neurotoxin Light Chain A Inhibitors	
Yawen	Yu	EXERCISE SCIENCE	Post Doctoral Fellow	Nick	Stergiou	Move more, learn better: Contribution of sway variability to achieving sitting milestone in infants with Cerebral Palsy	Yawen Yu, Joshua L. Haworth, Srikant Vallabhajosula, Regina T. Harbourne, Nicholas Stergiou

12:00 Noon

LUNCH IN BALLROOM (2ND FLOOR OF MBSC)

**Poster Presentations/Exhibits
BALL AND NEBRASKA ROOMS, 2ND FLOOR, MBSC
AFTERNOON SESSION: 1:00-4:00 PM**

Faculty Moderators: Harmon Maher, Geology/Geography, and Dana Richter-Egger, Chemistry

STUDENT	Major	Degree Status	FACULTY ADVISOR	Title	Co-Authors (if applicable):
Jacob Anderson	GEOLOGY	Undergraduate	George Engelmann	Using tracks to correlate the Nugget Sandstone Formation of Dinosaur National Monument, Utah	
Bryan Arnold	BIOLOGY	Undergraduate	Mukul Mukherjee	A Novel Elastic Loading-Based Exercise Program Improves Both Strength and Power at the Ankle	Carey, J.D., Rand, T.J., Myers, S.A.
Nicholas Arreola	PSYCHOLOGY	Graduate: Doctoral	Roni Reiter-Palmon	The Effect of Problem Construction on Solution Quality and Originality	Roni Reiter-Palmon
Aaron Brown	INDUSTRIAL-ORGANIZATIONAL PSYCH	Graduate: Masters	Lisa Scherer	The Decision to Stay or Leave: The Role of Spirituality in Attenuating Burnout	Lisa Scherer, UNO; Dr. Joseph Allen, Creighton University
Angela Burgett	GEOLOGY	Undergraduate	John Shroder	Evaluation of Meso-Scale Topographic Effects on Glaciers in the Western Himalaya of Pakistan	John Shroder, Michael Bishop
Erika Crawford	BIOTECHNOLOGY	Undergraduate	William Tappich	Investigation of 5' NTR Domain II Secondary Structure in Virulent Cocksackievirus B3/28	
Eric Cutler	EXERCISE SCIENCE	Graduate: Doctoral	Nick Stergiou	Margin of Stability as a Metric for Balance Impairment in Multiple Sclerosis	Shane R. Wurdeman, Denise McGrath, Sara A. Myers, Nicholas Stergiou, Jessie M. Huisinga
Austin Davidson	BIOLOGY	Undergraduate	Mukul Mukherjee	Impact of dual-tasking on lower joint dynamics during stair ascension	Srikant Vallabhajosula, Chi Wei Tan, Mukul Mukherjee, Ka-Chun Siu, Jennifer Yentes, Denise McGrath, Sara Myers
Benedict Fern	PSYCHOLOGY	Graduate: Doctoral	Lisa Scherer	School-life conflict and its relationship to student well-being	Lisa Scherer, Lauren Weivoda
Natasha Fields	NEUROSCIENCE	Undergraduate	Rosemary Strasser	The Effects of Stress Reduction Techniques on Stress Reactivity and Cortisol Levels	Christine Morrison
Kyle Fuller	COMPUTER SCIENCE	Graduate: Masters	Harvey Siy	MavAssist iPhone Application	
William Goodenkauf	EXERCISE SCIENCE	Graduate: Masters	Dustin Slivka	High Intensity Anaerobic Training	Matt Heesch, Brent Hassenstab
Theresa Halligan	GEOLOGY	Undergraduate	Robert Shuster	Stratigraphic Analysis of Smectite-Illite within the White River Group	Dr. Robert Shuster, Dr. Harmon Maher
Steven Hartman	THEATRE	Undergraduate	Amy Lane	Annual FAUST Production : Reviving the Castle of Perseverance	
Ryan Hasenkamp	EXERCISE SCIENCE	Graduate: Masters	Sara Myers	The Relationship Between Ambulatory Activity Patterns and Gait Kinematic Variability	Shane R. Wurdeman, Sara Myers
Matt Heesch	EXERCISE SCIENCE	Graduate: Doctoral	Dustin Slivka	The Performance Effect of Early Versus Late Carbohydrate Feedings During Prolonged Exercise	Molly Mieras, Dustin Slivka
Carlee Howe	EXERCISE SCIENCE	Undergraduate	Sara Myers	Metabolic Cost of Postural Control During a Perturbed Gait Task is Related to Gait Variability	
Brad Hullsiek	INDUSTRIAL-ORGANIZATIONAL PSYCH	Graduate: Doctoral	Roni Reiter-Palmon	The Effects of Ambiguity on Creativity: Comparative vs. Absolute Sedentary Lifestyle in Jefferson County, Nebraska: The Relationship Between Exercise Behaviors and Perceived Physical Health	
Erika Jacobson	SOCIAL WORK	Graduate: Masters	Kerry Beldin	Spoken novel word productions across 2-year-olds with varying language skill proficiencies	Jennifer Morris, Shari DeVeny
Amy Kile	PRE-SPEECH PATHOLOGY	Undergraduate	Shari DeVeny		

Poster Presentations/Exhibits
BALL AND NEBRASKA ROOMS, 2ND FLOOR, MBSC
AFTERNOON SESSION: 1:00-4:00 PM

STUDENT		Major	Degree Status	FACULTY ADVISOR		Title	Co-Authors (if applicable):
Whitney	Korgan	NEUROSCIENCE	Undergraduate	Nick	Stergiou	Similar Kinematics Between Flat and Curved Treadmills Confirm That Reduced Body Center of Mass Leads to Increased Energy Expenditure	Shane Wurdeman
Ryan	Korth	ENVIRONMENTAL SCIENCES	Undergraduate	Harmon	Maier	Fracture analysis of Cretaceous Rocks, Francis Case Lake, South Dakota	Jacob Anderson, Jace Cochran, Theresa Halligan, Anthony Maida, Samuel Nath, Andrew Schwab, Jennifer Stilmock, David Vanosdall, Harmon Maier
Allison	Lauritsen	SOCIAL WORK	Graduate: Masters	Jeanette	Harder	Motivating At-Risk High School Students to Achieve: The Relationship Between Race and Hope	
Derek	Leas	CHEMISTRY	Undergraduate	James	Hagen	Synthesis of novel potential inhibitors of botulinum neurotoxins	
William	Lenagh	COMPUTER SCIENCE	Graduate: Masters	Prithviraj	Dasgupta	Multi-Robot Task Allocation: A Stochastic Queuing Approach	
Alex	Madrahimov	MATHEMATICS	Undergraduate	Tomas	Helikar	Targeting signaling cascades for antiviral therapy against Influenza infection	
Shane	McFeely	INDUSTRIAL-ORGANIZATIONAL PSYCH HEALTH, PHYSICAL EDUCATION & RECREATION	Graduate: Masters	Carey	Ryan	Communication and Solution Generation in Functionally Diverse Problem-Solving Groups	Kelly Grant, Dr. Carey S. Ryan
Molly	Mieras	POLITICAL SCIENCE	Graduate: Masters	Dustin	Slivka	Physiological and Psychological Comparison of Indoor and Outdoor Cycling	Matt Heesch, Brent Hassenstab, Dustin Slivka
Jacklyn	Miller	INFORMATION TECHNOLOGY	Undergraduate	Gregory	Petrow	Puritan Behaviors of High School Students	
Christopher	Molini	COMPUTER SCIENCE	Undergraduate	Prithviraj	Dasgupta	Voronoi Partition-based Distributed Multi-robot Coverage	K. R. Guruprasad, Prithviraj Dasgupta
Joshua	Nelson	INFORMATION TECHNOLOGY	Undergraduate	William	Mahoney	Security of Programmable Logic Controllers	
Cuong	Nguyen	TECHNOLOGY	Graduate: Doctoral	Gert-Jan	de Vreede	An Exploration of Crowdsourcing Collaboration Processes	Onook Oh, Gert Jan de Vreede, David Kocsis
Kristina	Panzarella	BIOLOGY	Undergraduate	Paul	Davis	TaqMan Probe Design for Analysis of Stage-specific Genes in Toxoplasma gondii	
Mu	Qiao	EXERCISE SCIENCE	Post Doctoral Fellow	Mukul	Mukherjee	Visual Flow Affects Walking Kinetics during Split-belt Adaptation	Mukul Mukherjee, Jung Hung Chien, Nick Stergiou
Troy	Rand	EXERCISE SCIENCE	Graduate: Masters	Sara	Myers	Nonlinear mathematics detect subtle changes in center of pressure measures	
Racine	Rangel	BIOLOGY	Undergraduate	Alan	Kolok	Phytoremediation: Fish life saver? The Effect of Using an I-Pad as a Learning Tool to Improve Reading Fluency	Alan Kolok
Trevour	Schoeller	PSYCHOLOGY	Undergraduate	Brian	McKevitt		
Abigail	Stanger	BIOLOGY	Graduate: Masters	Paul	Davis	Investigation of novel drug therapy of KG4 for Toxoplasma gondii infections	
Shannon	Stoffel	CHEMISTRY	Undergraduate	Christine	Cutucache	A Pilot Study: The aquatic microbial landscape of Heron Haven Nature Center	Abraham A. Farhat, LeDawna M. Strathman
David	Vanosdall	GEOLOGY	Undergraduate	George	Engelmann	Microstratigraphy of a Upper Triassic-Lower Jurassic dinosaur quarry	
Kristin	VanWyngaarden	SPEECH-LANGUAGE PATHOLOGY	Graduate: Masters	Shari	DeVeney	Phonological profiles of 2-year-olds with expressive-only and expressive and receptive language delay	Dr. Shari DeVeney

FACULTY MODERATORS

Thank you to our faculty moderators for helping keep the schedule on track.

Christopher Decker, Economics

Paul Davis, Biology

Angela Eikenberry, Public Administration

Griff Elder, Mathematics

Jeffrey French, Psychology

Neal Grandgenett, Teacher Education

Jeanette Harder, Social Work

Alan Kolok, Biology

Kenneth Kriz, Public Administration

Harmon Maher, Geology/Geography

Sara Myers, HPER

Dana Richter-Egger, Chemistry and MSLC

