Sixth Annual UNI Graduate Student Symposium [Program], 2013

University of Northern Iowa

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Thursday, April 4, 2013
Maucker Union & Gallagher Bluedorn Performing Arts Center

Poster Presentations
12:00 - 3:00 pm
Maucker Union, Ballroom

Oral Presentations
12:00 - 3:00 pm
Maucker Union, Lower Level

Creative Performances
6:30 - 9:00 pm
Davis Hall - GBPAC
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Greetings from the Graduate College,

It is my great pleasure to welcome you to the Sixth Annual Graduate Student Symposium at the University of Northern Iowa. This event showcases the depth, breadth, and quality of graduate students’ research, scholarship, and creativity. Graduate education at UNI is recognized for preparing students to be leaders in professional work and further graduate study. UNI’s graduate faculty members are recognized for outstanding teaching, distinguished research, and service to their professions and the worldwide community.

We are proud to offer students a world-class education in a personalized graduate environment. Our programs provide students with amazing opportunities. I know this, as I have seen my sister (M.A. ’97) do wonderful things after earning her graduate degree from UNI. To students performing and presenting their work in this year’s Symposium, I wish you the best as you continue your education or start your careers. And to our graduate faculty and administrators, I thank you for your commitment to quality graduate education at the University of Northern Iowa.

Michael J. Licari, Ph.D.
Dean, Graduate College
Associate Provost for Academic Affairs
2012 Award Recipients (continued)

Poster Presentations (cont.)
- Research

1st Place • Cassie Nieman
Psychology: Clinical Science (M.A.)
Advisor: Dr. M. Kimberly MacLin
Self-defeating Behaviors in Sexual Offenders: Exploring Factors of Social Support and Motivation to Change

2nd Place • Wayva Lyons
Social Psychology (M.A.)
Advisor: Dr. Cathy DeSoto
Testosterone, Intercultural Communication Apprehension, and Prestige

Oral Presentations
- Oak Room
1st Place • Clair Williams
Communication Studies (M.A.)
Advisor: Dr. April Chatham-Carpenter
To Age, or Not to Age - That is the Question: Analyzing and Debunking the Cultural Fetish and Youth Obsessed Societal Construction Known as Anti-Aging

- Presidential Room
1st Place • Goerkem Yesilnur
Communication Studies (M.A.)
Advisor: Dr. April Chatham-Carpenter
The Perception of Public Relations in Academia Among Communication Scholars

- State College Room
1st Place • Kevin O'Connor
Chemistry (M.S.)
Advisor: Dr. Curtiss Hanson
Development of a Axially Harmonic Ion Trap Mass Spectrometer

Judges

Oral Presentation Judges
Dr. Dale Cyphert, Associate Professor
Department of Management

Dr. Mike Gasser, Professor
Department of Psychology

Dr. Tom Hall, Associate Professor
Department of Communication Studies

Dr. C. Scott Peters, Associate Professor
Department of Political Science

Dr. Gayle Pohl, Associate Professor
Department of Communication Studies

Dr. Tim Strauss, Associate Professor
Department of Geography

Poster Presentation Judges
Dr. C. Cliff Chancey, Department Head and Professor
Department of Physics

Dr. Alan Czarnetzki, Professor
Department of Earth Science

Dr. Gary Gute, Associate Professor
School of Applied Human Sciences

Dr. David Saunders, Department Head and Professor
Department of Biology

Dr. Stephanie Schmitz, Assistant Professor
Department Educational Psychology & Foundations
2012 Award Recipients

Creative Performances

- Original Work
1st Place (tie) • Holly Botzum
Performance: Tuba (M.M.)
Advisor: Dr. Jeff Funderburk
“OhiOwa” The Integration of Electric Techniques in Tuba Performance

1st Place (tie) • Jason Bradford
English: Creative Writing (M.A.)
Advisor: Dr. Jeremy D. Schraffenberger
The Inhabitants: A Poetry Reading by Jason Bradford

- Performance
1st Place • Kaethe Henning
Performance: Voice (M.M.)
Advisors: Dr. Jean McDonald and Dr. Korey Barrett
“Sing Seele, Gott Zum Preise” (HWV 206) from Georg Friedrich Händel’s Neun Deutsche Arien

Poster Presentations

- Project
1st Place (tie) • Amy Buckendahl
Ecosystem Management (P.S.M.)
Advisor: Dr. Mark Myers and Dr. Laura L. Jackson
Stormwater Management for MS4 Polluting Entities

1st Place (tie) • Michelle Sabatini
Ecosystem Management (P.S.M.)
Advisor: Dr. Mark Myers and Dr. Laura L. Jackson
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Attendees of Oral Presentations
Please enter only between presentations.

Attendees of Creative Performances:
Please enter only between performances.
Photography and recording are prohibited.

All descriptions are the original work of the presenters.
Capitalization of titles was standardized for inclusion here.

Notes
Acknowledgements

Event Organizers

Susie Schwieger, Director of Graduate Student Life
Brittany Funke, Graduate Assistant
Anthony Roth, Graduate Assistant

Graduate College Staff

Dr. Michael Licari, Associate Provost for Academic Affairs and Dean of the Graduate College; Associate Professor, Department of Political Science
Dr. Shoshanna Coon, Associate Dean for Graduate Academic Affairs; Associate Professor, Department of Chemistry
Lisa Steimel, Assistantships & Scholarships
Janet Witt, Thesis/Dissertation Reviewer
Cheryl Nedrow, Secretary II

Special Thanks

Tom Barry, Assistant Professor, School of Music
Caroline Boehner, Administrative Assistant, School of Music
Sandi Ingles, Secretary III, Department of Biology
Chuck Pugh, Technical Director and Performance Facilities Manager, School of Music
Bart Schmitz, Event Coordinator, Maucker Union

Oral Presentations

Oak Room
12:00 p.m. • Katherine Beane
Music History (M.M.)
A Question of Sex: The Modern Woman and Schumann’s Frauenliebe und –leben
- Dr. Alison Altstatt
Some scholars argue that Robert Schumann’s song cycle Frauenliebe und –leben perpetuates a nineteenth-century bourgeois movement to subjugate women. This presentation will examine the work and Schumann’s relationship with his fiancée Clara Wieck, offering an alternate analysis of this song cycle as a celebration of love and commitment.

12:20 p.m. • Corinithia Black
Biology (M.S.)
The Effect of Phylogeny on Morphological Characteristics of the Skeleton in Pleuronectiformes
- Dr. Peter Berendzen
Flatfishes are a highly specialized order of fishes that undergo a dramatic developmental change, causing them to have an obvious asymmetrical morphology. This study uses geometric morphometrics to examine morphological diversification of several skeletal characteristics across the phylogeny.

12:40 p.m. • Crystal Chariton
Physical Education: Kinesiology (M.A.)
Relationships Between Mindfulness and Flow Dispositions in Collegiate Athletes
- Dr. Jennifer Waldron
This proposed study will examine the relationships between mindfulness and flow dispositions of collegiate athletes. Specifically, this study will replicate a study by Ying Hwa Kee and C. K. John Wang (2008) that examined the relationships between mindfulness and flow dispositions.

1:00 – 1:20 p.m. • BREAK •

1:20 p.m. • Clair Williams
Mass Communication (M.A.)
Behind the Mask: A Wrinkle Free Analysis of Women’s Perceptions and Rational Toward the Purchase and Use of Anti-Aging Products
- Dr. April Chatham-Carpenter
In U.S. society, there is great emphasis on attaining and maintaining a youthful appearance. A qualitative study revolving around responses of 17 in-depth interviews of women was conducted to better understand perceptions and potential rational toward the purchase and application of various anti-aging products and services.
1:40 p.m. • Megan Wharff-Kavanaugh  Communication Studies (M.A.)  
*Heterosexual Christians and their Attitudes toward Lesbian, Gay and Bisexual Individuals*  
  - Dr. April Chatham-Carpenter  
As a Christian who supports marriage equality and the movement for social equality in general, I was interested in Christian attitudes toward LGB individuals and what factors contributed to those attitudes, specifically those related to positive attitudes toward LGB individuals. I surveyed 216 self-identified Christians to answer my questions.

2:00 p.m. • Dustin Graham  Biology (M.S.)  
*The Effect of Species Richness on Aboveground Biomass Production in Tallgrass Prairie Reconstructions*  
  - Dr. Daryl Smith  
Native perennials have been identified as a potential source of cellulose for second generation biofuels. We explore the field-level application of prairie plantings as feedstocks for bioenergy. We hypothesize that species rich plantings would produce more biomass and contain fewer weeds than less diverse plantings.

### State College Room

12:00 p.m. • Amy Hunzelman  Philanthropy and Nonprofit Development (M.A.)  
*Full STEAM Ahead: Integrating the Arts with the Common Core*  
  - Dr. Rodney Dieser  
America’s education system is adapting to the demands of the workplace and global competition. High expectations are set by businesses and the government for schools to perform better than good in the field of STEM (Science, Technology, Engineering, and Math) education. How are art strategies advancing STEM education and learning?

12:20 p.m. • Ben Hoksch  Biology (M.S.)  
*Bird and Butterfly Community Characteristics at a Heterogeneous Prairie Biofuel Research Site*  
  - Dr. Mark Myers  
The 2007 Energy Independence and Security Act created mandates on biofuel production from sources other than corn and soy. Diverse stands of native perennial plants provide abundant biomass, ecosystem services and wildlife habitat. This research explores long-term bird and butterfly community characteristics at UNI’s prairie biofuel research site.

7:30 p.m. • Tana Denning  Piano Pedagogy/Performance (M.M.)  
*Star of the Country Down*  
  - Dr. Dmitri Vorobiev  
This original arrangement of a traditional Irish melody is for solo piano. The melody is presented in three contrasting styles. Additionally, a free section will be heard that utilizes the harmonic accompaniment originally heard with the melody.

7:45 p.m. • Xingzimin Pan  Composition (M.M.)  
*Ensemble Member: Rocio Lima Guaman, Flute Kaidan*  
  - Dr. Jonathan Schwabe  
Kaidan is originally a Japanese word (怪談”), which generally means horror story or ghost story. The composer uses extended techniques for both flute and piano to evoke an atmosphere and emotional experience associated with stories of this type.

8:00 p.m. • Brittany Lensing  Piano Pedagogy/Performance (M.M.)  
*Sonata No. 7 in Bb major, Op. 83 mvt. II and III by Sergei Prokofiev*  
  - Dr. Dmitri Vorobiev  
Piano Sonata No. 7 in B flat major, Op. 83 (“Stalingrad”), movements II and III, by Sergei Prokofiev. This sonata was composed in 1942 and is the second of Prokofiev’s three “War Sonatas.”
6:30 p.m. • Nicholas Chizek  
**Spanish (M.A.)**  
*Fluid Bodies*  
- Dr. Danielle McGeough

Drawing on theories of the grotesque body, this performance embraces a carnivalesque mode of representation through the use of fluids to challenge the notion of community inclusivity and the abuse members endure to participate in marginalized groups.

6:45 p.m. • Alissa Cornick  
**English: Creative Writing (M.A.)**  
*“Hersch”*  
- Dr. Jim O’Loughlin

“Hersch” is a creative short fiction piece about the dilemma a woman faces when her best friend dies and leaves her with the uncomfortable knowledge that she does not know as much about him as she thought.

7:00 p.m. • Rachel Routier  
**English: Creative Writing (M.A.)**  
*“Go Ride the Glass Elevator”*  
- Dr. Grant Tracey

Listen to a man’s story while he tells of his adventures that led him to drop his alcoholic habits. See his strange encounters with a baby wearing an octopus hat, books that he feels he can “absorb” knowledge from via meditation instead of actually reading, and a strange old man who gives him offbeat advice.

7:15 p.m. • Stephanie Kenealy  
**English: Creative Writing (M.A.)**  
*“It Could Be Somebody Else”*  
- Dr. Jeremy Schraffenberger

*“It Could Be Somebody Else”* is an original short story about Tina and her life-long best friend, Danny, who goes missing in the spring of their second semester of college. The narrative goes back and forth in time, showing their lives together and Tina’s reactions to his disappearance.

12:40 p.m. • John Hanson  
**Educational Leadership (Ed.D.)**  
*OUTSIDE IS IN: Women, Special Education, and the Superintendency*  
- Dr. Nick Pace

This is a preliminary dissertation research project in which I interviewed six female public school superintendents who were prepared as special educators. I was seeking insight into how, if at all, being a woman and a special education teacher informed their paths towards and vision of the superintendency.

- **BREAK**

1:20 p.m. • Théophile Muhayimana  
**Educational Leadership (Ed.D.)**  
*Creating Interactive English Language Classroom*  
- Dr. Charles McNulty

This presentation discusses some strategies conducive to building interaction in the English language classroom. Based on the study findings, the minimal conditions to promote classroom engagement include learner-centered and participatory approaches, sitting arrangement of the class and the teachers’ supportive attitude in guiding learners in classroom activities.

1:40 p.m. • Megan Merner  
**Biology (M.S.)**  
*Hox Gene Evolution in North American Suckers (Cypriniformes: Catostomidae), a Tetraploid Family of Fishes*  
- Dr. Peter Berendzen

This study isolates and examines Hox genes in members of Catostomidae, a fifty million-year-old family comprising sucker fishes. Catostomids contain four copies of every gene as opposed to having two like most eukaryotic organisms. The aim of this study is to examine evolutionary fate of the duplicated genome.

**Presidential Room**

12:20 p.m. • Huyen Ngo  
**Business (MBA)**  
*Exploring the Role of Supply Chain Capabilities in Achieving Triple Bottom Line Performance*  
- Dr. Karthik Iyer

In today’s market environment, it is essential for supply chain partners to build appropriate capabilities as elements of sustainable supply chain strategies to achieve social, environmental and economic outcomes. This research brings together theoretical perspectives to explain the importance of developing critical supportive capabilities in building sustainability oriented supply chain partnerships to achieve the ‘triple bottom line’ performance outcomes.
12:40 p.m. • Kalmesh Niraula    Women’s and Gender Studies (M.A.)
   Witchcraft Accusation: Severity of Violence Against Women in Nepal
   - Dr. Gowri Gulwadi
This paper is an attempt to explore the issue of witchcraft accusation upon Nepalese women which is one of the severe cases of violence against women. The paper tries to create awareness about witchcraft issues and to develop an advocacy tool.

1:20 p.m. • Nicholas Chizek    Spanish (M.A.)
   The Feminist Community and Vindicación feminista
   - Dr. Haley O’Neil
This investigation analyzes Vindicación feminista, a magazine produced after the death of Spanish dictator Francisco Franco. In this presentation I explore the ways in which authors publishing in Vindicación feminista use rhetoric and intertextuality to encourage feminist action after Franco’s death.

• 1:00 – 1:20 p.m. • BREAK •

1:40 p.m. • Vincent Chukwuemeka    Public Policy (M.P.P.)
An Economic View and Analysis of Three Communities in Iowa
   - Dr. R. Allen Hays
The research project was on three communities in Iowa, namely, Charles City, Oelwein, and Ely and was conducted as part of the coursework for an applied research class. Recent data on these communities was used in targeting industries to locate in Charles City, do a community-wide strategic planning for Ely, and situation analysis for Oelwein.

2:00 p.m. • Eileen Hail    Postsecondary Education: Student Affairs (M.A.E)
   Not Your Mom’s Trans* 101: How to be an Educated Ally to Transgender Students on Campus
   - Dr. David Schmid
The number of students that self-identify as transgender is increasing, and higher education needs to be equipped to support these students in their unique challenges. Bilodeau and Renn’s (2005) Transgender Identity Development theory serves as a framework for understanding and supporting transgender students.

Katherine Lawrenz    School Psychology (M.A.E)
The DBR: Continuing to Study Teacher Acceptability and Validity
   - Dr. Nicole Skaar
This presentation addresses the acceptability and validity of Direct Behavior Rating (DBR) across elementary and secondary settings. Teacher DBR ratings were compared with systematic direct observation (SDO) data and with ratings from the Conner’s 3 behavior assessment. Teachers also rated their acceptability of the DBR as a classroom data-collection tool. Correlations with the Conner’s 3 compared with correlations with the SDO data suggest that teacher DBR ratings may be influenced by intensity of behavior.

Josh Mauldin    Biology (M.S.)
Evolution of Genome Size Within the Carnivorous Plant Family Lentibulariaceae
   - Dr. Theresa Spradling
Phylogenetic analysis of the carnivorous plant family Lentibulariaceae reveals that genome size is a quickly evolving, selectively neutral characteristic. Rapid genome expansion and minimalization have resulted in a large variation in genome size. The possibility that this plasticity resulted from a recently derived passive trapping strategy is discussed.

Cassandra Reilly-Boccia    Physical Education: Kinesiology (M.A.)
Bat Quickness and Bat Velocity in Division I Softball Players
   - Dr. Travis Ficklin
Video data were collected for all swings during a 15-game softball tournament in which six NCAA Division I teams played. Bat quickness and bat velocity measurements were calculated through digitization. These parameters and the relationships that exist between them were then analyzed and interpreted.

Junu Shrestha    Environmental Health (M.S.)
Long-term, Low-dose Exposure Residing in Arsenic Affected Areas in Iowa: A Cross-Sectional Analytical Study
   - Dr. Catherine Zemen
The study is a cross-sectional analytical study that focuses on biological monitoring of arsenic toxicity to the people consuming water from the private wells in Iowa. Water analysis, hair analysis, and questionnaire surveys were done to explore relationships between different health impacts due to arsenic consumption, at or below the regulatory level, via drinking water.
Asha Ganesan  Psychology: Social (M.A.)  
*The Effects of Numerical Anchoring and Cognitive Load on Social Issues Related Estimations Among Liberals and Conservatives*  
- Dr. Helen C. Harton  
This study applied numerical anchors and cognitive load to politically-relevant numerical estimations, such as estimating the percentage of American households with a gun against a high or low anchor. Results indicated that political orientation, anchor and cognitive load affected individual issues rather than overall composites of liberals and conservative issues.

Md Aminul Haque  Environmental Science (M.S.)  
*Distribution of Nutrients in Different Hydrologic Units in a Suburban Watershed of Iowa*  
- Dr. Mohammad Z. Iqbal  
I am working on a suburban watershed to compare between hydrologic units (Wetland, Prairie and Streams) and the corresponding land use practices (Urban and agricultural) in terms of nutrient flux. I am trying to understand how these units are interacting with each other to facilitate exchange of nutrients.

Kelsey Hunerdosse  School Psychology (M.A.E)  
*Organicist and Mechanist Influences on Reading Processes*  
- Dr. Benjamin Forsyth  
This study, which is currently in progress, aims to explore eye-gaze reading patterns and how they differ across mechanist and organicist texts in relation to individuals’ preexisting worldview schemas, content knowledge, and reading ability.

Chelsae Huot  Psychology: Social (M.A.)  
*Language as a Social Reality: The Infantilization of Women*  
- Dr. Helen C. Harton  
Participants were in one of three conditions where they rated a person (Erin) on characteristics. When Erin was described as a “girl” or “woman,” she was rated more positively than when she was described as a “person.” “Girl” is an appropriate term for an adult until the age of thirty.

**Poster Presentations**

**Literature Review**

Luci Dumas  Psychology: Clinical Science (M.A.)  
*The Influence of Locus of Control and Personality Traits on Life Goals in Offenders.*  
- Dr. Sunde Nesbit  
A review of the literature encompassing life goals and how they relate to the perspective of positive psychology as well as research on life goals, locus of control, and the big-five personality model in offender populations will also be included. Social and clinical implications of the research is discussed.

Abubakarr Jalloh  Allied Health, Recreation, and Community Services (Ed.D.)  

Kong Chen  Allied Health, Recreation, and Community Services (Ed.D.)  

Thomas Flack  Allied Health, Recreation, and Community Services (Ed.D.)  

Kristine Fleming  Allied Health, Recreation, and Community Services (Ed.D.)  

*Measuring Happiness: Examining Definitions and Instruments*  
- Dr. Samuel Lankford  
This project examines the literature on happiness. Specifically, the definitions of happiness as it relates to life satisfaction and well-being will be considered. Additionally, the instruments used to index the indicators of happiness will be explored.

**Project**

Kirstin Kramer  Psychology: Clinical Science (M.A.)  
*Testing Implications of the General Theory of Crime with Adult Male Offenders*  
- Dr. Elizabeth Lefler  
Understanding childhood risk factors of adult offenders can lead to more effective treatment programs, ideally reducing recidivism. The General Theory of Crime (GTC; Gottfredson & Hirschi, 1990) claims that ineffective parenting leads to criminal behavior through a manifestation of low self-control. This study explores those implications with male offenders.
Belinda Creighton-Smith  
Allied Health, Recreation, and Community Services (Ed.D.)

Theordora JN Baptiste  
Allied Health, Recreation, and Community Services (Ed.D.)

Noha Fadlalddin  
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Amani Al Rebeh  
Allied Health, Recreation, and Community Services (Ed.D.)

David Goodson  
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Expression of Driving Anger: A Look at Commuter Differences  
- Dr. Sunde Nesbit

The current study examines how a driver’s type of commute (e.g. urban to rural, rural to urban, etc.) affects how aggression is expressed. Using an online system, participants were asked to complete a measure of angry driving behavior (Deffenbacher et al., 2002), and report on their typical commute characteristics.

Research

Brooke Ammerman  
Psychology: Clinical Science (M.A.)
Positive and Negative Social Support: Are There Differences in Sexual Victimization and Re-Victimization  
- Dr. Helen C. Harton

Individuals reported unwanted sexual experiences and disclosure of these experiences. Although no differences on positive and negative social reactions were found between individuals who had been victimized once or more than once, the reactions received by those who had been re-victimized may have a greater influence on psychological outcomes.

Samuel Berg  
Biology (M.S.)
Does Sex Affect Temperature Regulation and Season Activity Patterns by Wood Turtles (Glyptemys insculpta) in a Suburban Population from Black Hawk County, Iowa?  
- Dr. Jeffrey Tamplin

Sex influenced seasonal activity patterns and distance to water, but not seasonal body temperatures, among male and female wood turtles (Glyptemys insculpta) in a suburban population in Black Hawk County, Iowa.

Darrina Bledsoe  
Psychology: Clinical Science (M.A.)
Predicting Commitment for Those in Military Relationships  
- Dr. Helen C. Harton

The study investigated military partners’ relational experiences during deployments and non-deployments. High satisfaction and investments, and low alternatives predicted commitment for those in military relationships, consistent with Rusbuldt’s (1998) investment model. Results expand romantic relationship and military research while establishing ways couples can promote commitment in their relationship.
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**Linkages to Social Capital and Well-Being**
- Dr. Samuel Lankford

This presentation will explore the level of social engagement/social capital and well-being amongst a cross section of UNI students from introductory courses to determine if students who demonstrate a greater level of social engagement perceive themselves to have a greater level of well-being.

Brittany Lewno  
Psychology: Clinical Science (M.A.)

**Attention Deficit/Hyperactivity Disorder and Borderline Personality Disorder: Examining the Co-occurrence, Overlapping Features, and Substance Use**
- Dr. Elizabeth Lefler

Due to increasing literature indicating high rates of co-occurrence, the current study examines the overlap between ADHD and BPD. Other commonalities like overlapping behavioral and sex-specific characteristics also act as evidence. Substance use/abuse will also be considered, since high comorbidity rates of Substance Use Disorders exist among ADHD and BPD.

Gina Sacchetti  
Psychology: Clinical Science (M.A.)

**Anger, Relationships, and Intimate Partner Violence in Emerging Adults with ADHD**
- Dr. Elizabeth Lefler

This presentation looks at Attention Deficit Hyperactivity Disorder (ADHD), social and romantic relationship satisfaction, state and trait anger, and intimate partner violence (IPV). This study focuses on emerging adults who, due to an executive functioning deficit, are expected to report greater impairment overall when compared to emerging adults without ADHD.

Amber Schramm  
Psychology: Clinical Science (M.A.)

Montgomery Lyons  
Psychology: Clinical Science (M.A.)

Brittany Lewno  
Psychology: Clinical Science (M.A.)

Gina Sacchetti  
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Project
Kirstin Kramer  Psychology: Clinical Science (M.A.)  
Testing Implications of the General Theory of Crime with Adult Male Offenders  
- Dr. Elizabeth Lefler  
Understanding childhood risk factors of adult offenders can lead to more effective treatment programs, ideally reducing recidivism. The General Theory of Crime (GTC; Gottfredson & Hirschi, 1990) claims that ineffective parenting leads to criminal behavior through a manifestation of low self-control. This study explores those implications with male offenders.
12:40 p.m. • Kalmesh Niraula  Women’s and Gender Studies (M.A.)
Witchcraft Accusation: Severity of Violence Against Women in Nepal
- Dr. Gowri Gulwadi
This paper is an attempt to explore the issue of witchcraft accusation upon Nepalese women which is one of the severe cases of violence against women. The paper tries to create awareness about witchcraft issues and to develop an advocacy tool.

1:20 p.m. • Nicholas Chizek  Spanish (M.A.)
The Feminist Community and Vindicación feminista
- Dr. Haley O’Neil
This investigation analyzes Vindicación feminista, a magazine produced after the death of Spanish dictator Francisco Franco. In this presentation I explore the ways in which authors publishing in Vindicación feminista use rhetoric and intertextuality to encourage feminist action after Franco’s death.

1:20 p.m. • BREAK •

1:40 p.m. • Vincent Chukwuemeka  Public Policy (M.P.P.)
An Economic View and Analysis of Three Communities in Iowa
- Dr. R. Allen Hays
The research project was on three communities in Iowa, namely, Charles City, Oelwein, and Ely and was conducted as part of the coursework for an applied research class. Recent data on these communities was used in targeting industries to locate in Charles City, do a community-wide strategic planning for Ely, and situation analysis for Oelwein.

2:00 p.m. • Eileen Hail  Postsecondary Education: Student Affairs (M.A.E)
Not Your Mom’s Trans* 101: How to be an Educated Ally to Transgender Students on Campus
- Dr. David Schmid
The number of students that self-identify as transgender is increasing, and higher education needs to be equipped to support these students in their unique challenges. Bilodeau and Renn’s (2005) Transgender Identity Development theory serves as a framework for understanding and supporting transgender students.

Katherine Lawrenz  School Psychology (M.A.E)
The DBR: Continuing to Study Teacher Acceptability and Validity
- Dr. Nicole Skaar
This presentation addresses the acceptability and validity of Direct Behavior Rating (DBR) across elementary and secondary settings. Teacher DBR ratings were compared with systematic direct observation (SDO) data and with ratings from the Conner’s 3 behavior assessment. Teachers also rated their acceptability of the DBR as a classroom data-collection tool. Correlations with the Conner’s 3 compared with correlations with the SDO data suggest that teacher DBR ratings may be influenced by intensity of behavior.

Josh Mauldin  Biology (M.S.)
Evolution of Genome Size Within the Carnivorous Plant Family Lentibulariaceae
- Dr. Theresa Spradling
Phylogenetic analysis of the carnivorous plant family Lentibulariaceae reveals that genome size is a quickly evolving, selectively neutral characteristic. Rapid genome expansion and minimalization have resulted in a large variation in genome size. The possibility that this plasticity resulted from a recently derived passive trapping strategy is discussed.

Cassandra Reilly-Boccia  Physical Education: Kinesiology (M.A.)
Bat Quickness and Bat Velocity in Division I Softball Players
- Dr. Travis Ficklin
Video data were collected for all swings during a 15-game softball tournament in which six NCAA Division I teams played. Bat quickness and bat velocity measurements were calculated through digitization. These parameters and the relationships that exist between them were then analyzed and interpreted.

Junu Shrestha  Environmental Health (M.S.)
Long-term, Low-dose Exposure Residing in Arsenic Affected Areas in Iowa: A Cross-Sectional Analytical Study
- Dr. Catherine Zemen
The study is a cross-sectional analytical study that focuses on biological monitoring of arsenic toxicity to the people consuming water from the private wells in Iowa. Water analysis, hair analysis, and questionnaire surveys were done to explore relationships between different health impacts due to arsenic consumption, at or below the regulatory level, via drinking water.
6:30 p.m. • Nicholas Chizek  
Spanish (M.A.)

*Fluid Bodies*

- Dr. Danielle McGeough

Drawing on theories of the grotesque body, this performance embraces a carnivalesque mode of representation through the use of fluids to challenge the notion of community inclusivity and the abuse members endure to participate in marginalized groups.

6:45 p.m. • Alissa Cornick  
English: Creative Writing (M.A.)

*“Hersch”*

- Dr. Jim O'Loughlin

“Hersch” is a creative short fiction piece about the dilemma a woman faces when her best friend dies and leaves her with the uncomfortable knowledge that she does not know as much about him as she thought.

7:00 p.m. • Rachel Routier  
English: Creative Writing (M.A.)

*“Go Ride the Glass Elevator”*

- Dr. Grant Tracey

Listen to a man’s story while he tells of his adventures that led him to drop his alcoholic habits. See his strange encounters with a baby wearing an octopus hat, books that he feels he can "absorb" knowledge from via meditation instead of actually reading, and a strange old man who gives him offbeat advice.

7:15 p.m. • Stephanie Kenealy  
English: Creative Writing (M.A.)

*“It Could Be Somebody Else”*

- Dr. Jeremy Schraffenberger

“It Could Be Somebody Else” is an original short story about Tina and her life-long best friend, Danny, who goes missing in the spring of their second semester of college. The narrative goes back and forth in time, showing their lives together and Tina’s reactions to his disappearance.

12:40 p.m. • John Hanson  
Educational Leadership (Ed.D.)

*OUTSIDE IS IN: Women, Special Education, and the Superintendency*

- Dr. Nick Pace

This is a preliminary dissertation research project in which I interviewed six female public school superintendents who were prepared as special educators. I was seeking insight into how, if at all, being a woman and a special education teacher informed their paths towards and vision of the superintendency.

- 1:00 – 1:20 p.m. • BREAK •

1:20 p.m. • Théophile Muhayimana  
Educational Leadership (Ed.D.)

*Creating Interactive English Language Classroom*

- Dr. Charles McNulty

This presentation discusses some strategies conducive to building interaction in the English language classroom. Based on the study findings, the minimal conditions to promote classroom engagement include learner-centered and participatory approaches, sitting arrangement of the class and the teachers' supportive attitude in guiding learners in classroom activities.

1:40 p.m. • Megan Merner  
Biology (M.S.)

*Hox Gene Evolution in North American Suckers (Cypriniformes: Catostomidae), a Tetraploid Family of Fishes*

- Dr. Peter Berendzen

This study isolates and examines Hox genes in members of Catostomidae, a fifty million-year-old family comprising sucker fishes. Catostomids contain four copies of every gene as opposed to having two like most eukaryotic organisms. The aim of this study is to examine evolutionary fate of the duplicated genome.

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**Presidential Room**

12:20 p.m. • Huyen Ngo  
Business (MBA)

*Exploring the Role of Supply Chain Capabilities in Achieving Triple Bottom Line Performance*

- Dr. Karthik Iyer

In today’s market environment, it is essential for supply chain partners to build appropriate capabilities as elements of sustainable supply chain strategies to achieve social, environmental and economic outcomes. This research brings together theoretical perspectives to explain the importance of developing critical supportive capabilities in building sustainability oriented supply chain partnerships to achieve the “triple bottom line” performance outcomes.
1:40 p.m. • Megan Wharff-Kavanaugh  Communication Studies (M.A.)  
*Heterosexual Christians and their Attitudes toward Lesbian, Gay and Bisexual Individuals*  
- Dr. April Chatham-Carpenter  
As a Christian who supports marriage equality and the movement for social equality in general, I was interested in Christian attitudes toward LGB individuals and what factors contributed to those attitudes, specifically those related to positive attitudes toward LGB individuals. I surveyed 216 self-identified Christians to answer my questions.

2:00 p.m. • Dustin Graham  Biology (M.S.)  
*The Effect of Species Richness on Aboveground Biomass Production in Tallgrass Prairie Reconstructions*  
- Dr. Daryl Smith  
Native perennials have been identified as a potential source of cellulose for second generation biofuels. We explore the field-level application of prairie plantings as feedstocks for bioenergy. We hypothesize that species rich plantings would produce more biomass and contain fewer weeds than less diverse plantings.

**State College Room**

12:00 p.m. • Amy Hunzelman  Philanthropy and Nonprofit Development (M.A.)  
*Full STEAM Ahead: Integrating the Arts with the Common Core*  
- Dr. Rodney Dieser  
America’s education system is adapting to the demands of the workplace and global competition. High expectations are set by businesses and the government for schools to perform better than good in the field of STEM (Science, Technology, Engineering, and Math) education. How are art strategies advancing STEM education and learning?

12:20 p.m. • Ben Hoksch  Biology (M.S.)  
*Bird and Butterfly Community Characteristics at a Heterogeneous Prairie Biofuel Research Site*  
- Dr. Mark Myers  
The 2007 Energy Independence and Security Act created mandates on biofuel production from sources other than corn and soy. Diverse stands of native perennial plants provide abundant biomass, ecosystem services and wildlife habitat. This research explores long-term bird and butterfly community characteristics at UNI’s prairie biofuel research site.

7:30 p.m. • Tana Denning  Piano Pedagogy/Performance (M.M.)  
*Star of the Country Down*  
- Dr. Dmitri Vorobiev  
This original arrangement of a traditional Irish melody is for solo piano. The melody is presented in three contrasting styles. Additionally, a free section will be heard that utilizes the harmonic accompaniment originally heard with the melody.

7:45 p.m. • Xingzimin Pan  Composition (M.M.)  
*Ensemble Member: Rocio Lima Guaman, Flute Kaidan*  
- Dr. Jonathan Schwabe  
Kaidan is originally a Japanese word (“怪談”), which generally means horror story or ghost story. The composer uses extended techniques for both flute and piano to evoke an atmosphere and emotional experience associated with stories of this type.

8:00 p.m. • Brittany Lensing  Piano Pedagogy/Performance (M.M.)  
*Sonata No. 7 in Bb major, Op. 83 mvt. II and III by Sergei Prokofiev*  
- Dr. Dmitri Vorobiev  
Piano Sonata No. 7 in B flat major, Op. 83 (“Stalingrad”), movements II and III, by Sergei Prokofiev. This sonata was composed in 1942 and is the second of Prokofiev’s three “War Sonatas.”
Event Organizers

Susie Schwieger, Director of Graduate Student Life
Brittany Funke, Graduate Assistant
Anthony Roth, Graduate Assistant

Graduate College Staff

Dr. Michael Licari, Associate Provost for Academic Affairs and Dean of the Graduate College; Associate Professor, Department of Political Science
Dr. Shoshanna Coon, Associate Dean for Graduate Academic Affairs; Associate Professor, Department of Chemistry
Lisa Steimel, Assistantships & Scholarships
Janet Witt, Thesis/Dissertation Reviewer
Cheryl Nedrow, Secretary II

Special Thanks

Tom Barry, Assistant Professor, School of Music
Caroline Boehmer, Administrative Assistant, School of Music
Sandi Ingles, Secretary III, Department of Biology
Chuck Pugh, Technical Director and Performance Facilities Manager, School of Music
Bart Schmitz, Event Coordinator, Maucker Union

Acknowledgements

Oral Presentations

Oak Room

12:00 p.m. • Katherine Beane
Performance (M.M.)
Music History (M.M.)
A Question of Sex: The Modern Woman and Schumann’s Frauenliebe und –leben
- Dr. Alison Altstatt
Some scholars argue that Robert Schumann’s song cycle Frauenliebe und –leben perpetuates a nineteenth-century bourgeois movement to subjugate women. This presentation will examine the work and Schumann’s relationship with his fiancée Clara Wieck, offering an alternate analysis of this song cycle as a celebration of love and commitment.

12:20 p.m. • Corinthish Black
Biology (M.S.)
The Effect of Phylogeny on Morphological Characteristics of the Skeleton in Pleuronectiformes
- Dr. Peter Berendzen
Flatfishes are a highly specialized order of fishes that undergo a dramatic developmental change, causing them to have an obvious asymmetrical morphology. This study uses geometric morphometrics to examine morphological diversification of several skeletal characteristics across the phylogeny.

12:40 p.m. • Crystal Chariton
Physical Education: Kinesiology (M.A.)
Relationships Between Mindfulness and Flow Dispositions in Collegiate Athletes
- Dr. Jennifer Waldron
This proposed study will examine the relationships between mindfulness and flow dispositions of collegiate athletes. Specifically, this study will replicate a study by Ying Hwa Kee and C. K. John Wang (2008) that examined the relationships between mindfulness and flow dispositions.

• 1:00 – 1:20 p.m. • BREAK •

1:20 p.m. • Clair Williams
Mass Communication (M.A.)
Behind the Mask: A Wrinkle Free Analysis of Women’s Perceptions and Rational Toward the Purchase and Use of Anti-Aging Products
- Dr. April Chatham-Carpenter
In U.S. society, there is great emphasis on attaining and maintaining a youthful appearance. A qualitative study revolving around responses of 17 in-depth interviews of women was conducted to better understand perceptions and potential rational toward the purchase and application of various anti-aging products and services.
Dr. Dwight Watson, Dean and Professor
College of Education

Creative Performance Judges
Dr. Rebecca Burkhardt, Professor
School of Music

Dr. Scott Cawelti, Professor Emeritus
Department of Languages and Literatures

Dr. Cynthia Goatley, Professor
Department of Theatre

Dr. Jeff Funderburk, Professor
School of Music

All descriptions are the original work of the presenters.
Capitalization of titles was standardized for inclusion here.

Attendees of Oral Presentations
Please enter only between presentations.

Attendees of Creative Performances:
Please enter only between performances.
Photography and recording are prohibited.

Notes

2012 Award Recipients

Creative Performances
- Original Work
1st Place (tie) • Holly Botzum
Performance: Tuba (M.M.)
Advisor: Dr. Jeff Funderburk
“OhIowa” The Integration of Electric Techniques in Tuba Performance

1st Place (tie) • Jason Bradford
English: Creative Writing (M.A.)
Advisor: Dr. Jeremy D. Schraffenberger
The Inhabitants: A Poetry Reading by Jason Bradford

- Performance
1st Place • Kaethe Henning
Performance: Voice (M.M.)
Advisors: Dr. Jean McDonald and Dr. Korey Barrett
“Sing Seele, Gott Zum Preise” (HWV 206) from Georg Friederich Händel's Neun Deutsche Arien

Poster Presentations
- Project
1st Place (tie) • Amy Buckendahl
Ecosystem Management (P.S.M.)
Advisor: Dr. Mark Myers and Dr. Laura L. Jackson
Stormwater Management for MS4 Polluting Entities

1st Place (tie) • Michelle Sabatini
Ecosystem Management (P.S.M.)
Advisor: Dr. Mark Myers and Dr. Laura L. Jackson
Stormwater Management for MS4 Polluting Entities
2012 Award Recipients (continued)

Poster Presentations (cont.)

- Research

1st Place • Cassie Nieman  
Psychology: Clinical Science (M.A.)  
Advisor: Dr. M. Kimberly MacLin  
*Self-defeating Behaviors in Sexual Offenders: Exploring Factors of Social Support and Motivation to Change*

2nd Place • Wayva Lyons  
Social Psychology (M.A.)  
Advisor: Dr. Cathy DeSoto  
*Testosterone, Intercultural Communication Apprehension, and Prestige*

Oral Presentations

- Oak Room

1st Place • Clair Williams  
Communication Studies (M.A.)  
Advisor: Dr. April Chatham-Carpenter  
*To Age, or Not to Age - That is the Question: Analyzing and Debunking the Cultural Fetish and Youth Obsessed Societal Construction Known as Anti-Aging*

- Presidential Room

1st Place • Goerkem Yesilnur  
Communication Studies (M.A.)  
Advisor: Dr. April Chatham-Carpenter  
*The Perception of Public Relations in Academia Among Communication Scholars*

- State College Room

1st Place • Kevin O’Connor  
Chemistry (M.S.)  
Advisor: Dr. Curtiss Hanson  
*Development of a Axially Harmonic Ion Trap Mass Spectrometer*

Judges

Oral Presentation Judges

- Dr. Dale Cyphert, Associate Professor  
  Department of Management

- Dr. Mike Gasser, Professor  
  Department of Psychology

- Dr. Tom Hall, Associate Professor  
  Department of Communication Studies

- Dr. C. Scott Peters, Associate Professor  
  Department of Political Science

- Dr. Gayle Pohl, Associate Professor  
  Department of Communication Studies

- Dr. Tim Strauss, Associate Professor  
  Department of Geography

Poster Presentation Judges

- Dr. C. Cliff Chancey, Department Head and Professor  
  Department of Physics

- Dr. Alan Czarnetzki, Professor  
  Department of Earth Science

- Dr. Gary Gute, Associate Professor  
  School of Applied Human Sciences

- Dr. David Saunders, Department Head and Professor  
  Department of Biology

- Dr. Stephanie Schmitz, Assistant Professor  
  Department Educational Psychology & Foundations
Greetings from the Graduate College,

It is my great pleasure to welcome you to the Sixth Annual Graduate Student Symposium at the University of Northern Iowa. This event showcases the depth, breadth, and quality of graduate students’ research, scholarship, and creativity. Graduate education at UNI is recognized for preparing students to be leaders in professional work and further graduate study. UNI’s graduate faculty members are recognized for outstanding teaching, distinguished research, and service to their professions and the worldwide community.

We are proud to offer students a world-class education in a personalized graduate environment. Our programs provide students with amazing opportunities. I know this, as I have seen my sister (M.A. ’97) do wonderful things after earning her graduate degree from UNI. To students performing and presenting their work in this year’s Symposium, I wish you the best as you continue your education or start your careers. And to our graduate faculty and administrators, I thank you for your commitment to quality graduate education at the University of Northern Iowa.

Michael J. Licari, Ph.D.
Dean, Graduate College
Associate Provost for Academic Affairs
The UNI Graduate College Presents

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