TUESDAY, APRIL 16
IOWA STATE UNIVERSITY MEMORIAL UNION

SCHEDULE

8:30 - 9:00  REGISTRATION AND REFRESHMENTS, PIONEER ROOM

9:00 - 9:30  OPENING REMARKS
             David Oliver, Interim Vice President, Research and Economic Development

RECOGNITION OF NATIONAL SCHOLARSHIP CANDIDATES

9:30 – 10:45:  PRESENTATION SESSION I

SESSION I.A  BIOLOGY, GENETICS & THE ENVIRONMENT
Room 3505    Moderator: James Colbert

I.A.1  Effect of Grassland Management Practices on Bee Nutrition and Abundance
       Nicole Scavo, Biology and Environmental Science (College of Liberal Arts & Sciences)
       Mentor: Amy Toth, Ecology, Evolution & Organismal Biology

I.A.2  Characterization and Analysis of Ecosystem Diversity Among Arthropods by Utilization of High
       Through-put Sequencing
       Steve Hernandez, Computer Science (College of Liberal Arts & Sciences)
       Mentor: Andrew Severin, Biotechnology

I.A.3  Environmental Triggers Help Regulate Hydrocarbon Biosynthesis in Maize Silks
       Samson Condon, Biochemistry (College of Liberal Arts & Sciences)
       Mentor: Basil Nikolau and Marna Yandeau-Nelson, Genetics, Development & Cell Biology

SESSION I.B  GENDER & SOCIAL ROLES
Room 3512    Moderator: Michael Goebel, Liberal Arts & Sciences Cross-Disciplinary Studies

I.B.1  Gender Differences in Aggressive Behavior and Norms in Two Cultures
       Zhihan Su, Psychology (College of Liberal Arts & Sciences); Madison West, Psychology (College of Liberal
       Arts & Sciences); Xuehan Liu, Statistics (College of Liberal Arts & Sciences); Logan Shannon, Psychology
       (College of Liberal Arts & Sciences)
       Mentor: Sara Prot, Psychology
I.B.2  From Blue and Pink to Green in the Red, White, and Blue: The Budding of a New Gen(d)eration Within the Paradigm Shift of Eco-Consumerism

  Kaitlin (K) Walker, Women's Studies (College of Liberal Arts & Sciences)
  Mentors: Michael Goebel and Dr. Gloria Jones-Johnson, Women's Studies

I.B.3  Who's Cooking? Gender Roles Portrayed

  Farica Lomas, Marketing and Supply Chain Management (College of Business)
  Mentor: Samantha Cross, Marketing

I.B.4  Racial Stress, Acculturation, and Social Support for Latino/as in PanHellenic Organizations Within Predominantly European American Collegiate Institutions

  Roberto Orozco, Marketing, International Business and Psychology (Colleges of Business and Liberal Arts & Sciences)
  Mentor: Loreto Prieto, LAS Cross-Disciplinary Studies

SESSION I.C  MATHEMATICS
Room 3534  Moderator: Wolfgang Kliemann, Mathematics

I.C.1  Cantor Set Sums

  Alphonso Lucero, Mathematics (College of Liberal Arts & Sciences)
  Mentor: Eric Weber, Mathematics

I.C.2  Flows in Networks

  Derek Young, Mathematics (College of Liberal Arts & Sciences)
  Mentor: Sung Yell Song, Mathematics

I.C.3  Isospectral Planar Manifolds and Cospectral Graphs

  Christopher Cox, Mathematics (College of Liberal Arts & Sciences)
  Mentor: Steve Butler, Mathematics

SESSION I.D  ADOLESCENTS, RELATIONSHIPS & SOCIETY
Room 3538  Moderator: Veronica Dark

I.D.1  Fledgling Psychopath

  Tamerria Dansby, Criminal Justice (College of Liberal Arts & Sciences)
  Mentor: Matthew Delisi, Sociology

I.D.2  The Influence of Father-Adolescent Relationship Quality on the Quality of Adolescent's Future Romantic Relationships

  Donnise Powell, Child, Adult & Family Services (College of Human Sciences)
  Mentor: Tricia Neppl, Human Development & Family Studies

I.D.3  What Goes Around Comes Around

  Huan Lu, Statistics and Mathematics (College of Liberal Arts & Sciences);
  Yiping Huang, Statistics and Mathematics ((College of Liberal Arts & Sciences)
  Mentor: Frederick Lorenz, Statistics

I.D.4  The Role of Parents and Peers in Shaping Media Violence Effects on Young Adults

  Jan Iversen, Biology and Psychology (Colleges of Agriculture & Life Sciences and Liberal Arts & Sciences)
  Mentor: Sara Prot, Psychology
SESSION I.E  HOW & WHERE WE LIVE
Room 3558  Moderator: Christina Gish-Hill, Anthropology

I.E.1  Power of the People: A Sample of Environmental Ethos in North Sumatra and Jakarta. 
Nicole Laurito, Animal Ecology, Anthropology and International Studies 
(Majors of Agriculture & Life Sciences and Liberal Arts & Sciences) 
Mentor: Rebecca Christoffel, Natural Resource Ecology and Management

I.E.2  Abrader Technology at the Howard Goodhue Site, Polk County, Iowa 
Matthew Neff, Anthropology and History (College of Liberal Arts & Sciences) 
Mentor: Matthew Hill, Anthropology

I.E.3  Breakage and Discard of Ceramic Vessels in a Late Prehistoric Village 
Katherine Peake, Anthropology (College of Liberal Arts & Sciences) 
Mentor: Matthew Hill, Anthropology

I.E.4  Vitality Assisted Living Facility 
Erica Riha, Interior Design (College of Design) 
Mentor: Lee Cagley, Interior Design

10:45 - 11:00  BREAK & REFRESHMENTS, PIONEER ROOM

11:00 – 12:15 PRESENTATION SESSION II

SESSION II.A  SCIENCE & MEDICINE
Room 3505  Moderator: Catherine Logue, Veterinary Microbiology and Preventive Medicine

II.A.1  Biofeedback as a Potential Prophylactic Treatment for Blast-Induced Tinnitus 
Kelly Patchett, Biology (College of Agriculture & Life Sciences and Liberal Arts & Sciences) 
Mentor: Diana Peterson, Biomedical Sciences

II.A.2  Blast-induced Tinnitus: Description of a Novel Rodent Model 
Bailey Koch, Psychology (College of Liberal Arts & Sciences) 
Mentor: Diana Peterson, Biomedical Sciences

II.A.3  Development of a FRET Assay for MP1-p14 Binding Interaction 
Raean Shimak, Biochemistry and Genetics (College of Liberal Arts & Sciences) 
Mentor: Christine Petersen, Veterinary Pathology

II.A.4  Characterizing Candidate Breast Cancer Tumor Suppressor Genes: MTUS2 and LHX8 
Diane Fru, Psychology (College of Liberal Arts & Sciences) 
Mentor: Michael Green, University of Massachusetts

SESSION II.B  METEOROLOGY
Room 3512  Moderator: William Gutowski, Geological and Atmospheric Sciences

II.B.1  Weather Patterns for Significant Snowfall Events in Prince William Sound, AK 
Kristy Carter, Meteorology (College of Liberal Arts & Sciences) 
Mentor: Tsing-Chang Chen and James Nelson, Geological and Atmospheric Sciences

II.B.2  An Analysis of Low-Level Shear Vectors for Tornado Environments in Iowa
II.B.3  Wind Ramp Events at Turbine Height: Spatial Consistency and Causes at Two Iowa Wind Farms
*Renee Walton, Meteorology (College of Liberal Arts & Sciences)*
Mentor: William Gallus, Geological and Atmospheric Sciences

II.B.4  Effect of Urban Heat Island on Minimum and Maximum Temperatures of a Metropolitan Area in Central Iowa
*Benjamin Walton, Meteorology (College of Liberal Arts & Sciences)*
Mentor: Tsing-Chang Chen, Geological and Atmospheric Sciences

SESSION II.C  AEROSPACE & MATERIALS ENGINEERING
Room 3534  Moderator: Jonathan Regele, Aerospace Engineering

II.C.1  The Effectiveness of Silanes in the Coating of Carbon Nanotubes for Polymer Composites
*Ryan Hall, Materials Engineering (College of Engineering)*
Mentor: Michael Kessler, Materials Science & Engineering

II.C.2  Understanding and Exploiting the Effects of 3D Surface Disturbances on Boundary Layer Flow
*Prasad Raman, Aerospace Engineering and Economics (College of Engineering)*
Mentor: Alric Rothmayer, Aerospace Engineering

II.C.3  Particle Object Generation for Disruption of Asteroids Modeled Using Smoothed Particle Hydrodynamics
*Christian Setzer, Aerospace Engineering, and Mathematics (College of Engineering)*
Mentor: Bong Wie, Aerospace Engineering

SESSION II.D  ENGINEERING APPLICATIONS
Room 3538  Moderator: Laura Jarboe, Chemical & Biological Engineering

II.D.1  Transcranial Magnetic Stimulation
*Rachana Kaul, Electrical Engineering (College of Engineering)*
Mentor: David Jiles, Electrical and Computer Engineering

II.D.2  Slow-Release Systems for Bacteriophages using Polycaprolactone and Castor Oil based Polymers
*Kara Lind, Chemical Engineering (College of Engineering)*
Mentor: Rebecca Cademartiri, Materials Science & Engineering

II.D.3  Promoting E. Coli Tolerance to Acid Products
*Emily Rickenbach, Chemical Engineering and Mathematics (College of Engineering)*
Mentor: Laura Jarboe, Chemical & Biological Engineering

SESSION II.E  COMMUNICATION & PSYCHOLOGY
Room 3558  Moderator: Shana Carpenter, Psychology

II.E.1  Self-focus and Silence: Pronoun Use and Silence as Markers of Depression
*Courtney Lenz, Psychology (College of Liberal Arts & Sciences)*
Mentor: Dawn Sweet, Psychology
II.E.2 The Impersonal Use of “You” in Depressed Speech
Megan Snyder, Psychology (College of Liberal Arts & Sciences)
Mentor: Dawn Sweet, Psychology

II.E.3 Men’s Attitudes Towards Seeking Couple’s Counseling
Margaret Shirley, Psychology (College of Liberal Arts & Sciences)
Mentor: David Vogel, Psychology

II.E.4 Pre-stimulus Indicators of Distinct Encoding Strategies in Ancestral Scenarios
Kaci McCleary, Psychology (College of Liberal Arts & Sciences)
Mentor: Robert West, Psychology

12:15 – 12:45 BREAK & REFRESHMENTS FEATURING 2012 FOCUS EXHIBIT & ARTISTS
PIONEER ROOM

12:45 – 2:00 PRESENTATION SESSION III

SESSION III.A HEALTH & SAFETY
Room 3505 Moderator: Tim Derrick, Kinesiology

III.A.1 Parental Impulsivity Predicts Obesogenic Home Environment
Samantha Eldridge, Kinesiology (College of Human Sciences)
Mentor: Kira Werstein, Kinesiology

III.A.2 The Role of Interferon Alpha on Influenza Infection in Young vs. Aged Mice
Michael Ellerman, Kinesiology & Health (College of Human Sciences)
Mentor: Marian Kohut, Kinesiology

III.A.3 Safety for Emergency Response Team Employees
Steven Johnson, Industrial & Manufacturing Systems Engineering
(College of Engineering)
Mentor: Richard Stone, Industrial & Manufacturing Systems Engineering

SESSION III.B ART, DESIGN & TECHNOLOGY
Room 3512 Moderator: Steven Herrnstadt, Industrial Design

III.B.1 Meta!Blast: 3D Visualization of the Plant Cell
Drishti Kaul, Bioinformatics and Computational Biology (College of Liberal Arts & Sciences)
Mentor: Eve Wurtele, Genetics, Development & Cell Biology

III.B.2 Dancing with Light
Guillermo Thompson, Integrated Studio Arts (College of Design)
Mentor: Mark Chidister, Integrated Studio Arts

III.B.3 Exploration of Gestural Parameter Mapping in Virtual Musical Instrument Design
Curtis Ullerich, Computer Engineering (College of Engineering);
Darren Hushak, Electrical Engineering (College of Engineering)
Mentor: Christopher Hopkins, Music

SESSION III.C WATER & THE ENVIRONMENT
Room 3534 Moderator: Lori Biederman, Ecology, Evolution & Organismal Biology
III.C.1 Applications of Polymerase Chain Reaction Analysis in the Detection of Antibiotic Resistant Bacteria
Conrad Brendel, Environmental Engineering (College of Engineering);
Nick Terhall, Aerospace Engineering (College of Engineering)
Mentor: Michelle Soupir, Agricultural & Biosystems Engineering

III.C.2 Effect of the 2012 Drought on the Hydrologic Cycle in Central Iowa: Evidence from the Isotopic Composition of Precipitation and Surface Water
Jamie Harrington, Environmental Science and Geology (College of Liberal Arts & Sciences)
Mentor: William Simpkins, Geological and Atmospheric Sciences

III.C.3 The Effect of the Drought on Lake/Groundwater Interaction at Clear Lake
Kimberly Scherber, Civil Engineering (College of Engineering)
Mentor: William Simpkins, Geological and Atmospheric Sciences

SESSION III.D THE BUILT ENVIRONMENT
Room 3538 Moderator: James Alleman, Civil, Construction & Environmental Engineering

III.D.1 Victory Connector: A New Solution for Low Damage Floor-to-Wall Connection
Zhao Cheng, Civil Engineering (College of Engineering)
Mentor: Sri Sritharan, Civil, Construction & Environmental Engineering

III.D.2 Deicer Scaling Resistance of Concrete Mixtures Containing Slag Cement
Xin Wang, Civil Engineering (College of Engineering)
Mentor: Kejin Wang, Civil, Construction & Environmental Engineering

III.D.3 Fallow: Reconstructed Space
John Kerner, Architecture (College of Design); Justin Wang, Architecture (College of Design)
Mentor: Peter P. Goche', Architecture

III.D.4 Desiccant-Supported Cooling: Testing Feasibility For Residential Application
Nicholas Hulstrom, Architecture (College of Design)
Mentor: Ulrike Passe, Architecture

SESSION III.E BIOLOGY & DISEASE
Room 3558 Moderator: Amy Andreotti, Biochemistry, Biophysics & Molecular Biology

III.E.1 Effect of a Disease-associated Mutation of TIA1 on Pre-mRNA Splicing
Jennifer Kaczynski, Biochemistry (College of Liberal Arts & Sciences)
Mentor: Ravindra Singh, Biomedical Sciences

III.E.2 Analysis of Proliferation and Cellular Differentiation in a Zebrafish Model for Retinoblastoma
Deborah Lincow, Biochemistry (College of Liberal Arts & Sciences)
Mentor: Donald Sakaguchi, Genetics, Development & Cell Biology

III.E.3 Oriented Growth of Bone Marrow-Derived Stem Cells on Micropatterned Polymer Substrates for Nerve Regeneration Strategies
Emma Petersen, Biology (College of Liberal Arts & Sciences)
Mentor: Donald Sakaguchi, Genetics, Development & Cell Biology

III.E.4 Cell Death of the Primordial Germ Cells in Drosophila melanogaster
SESSION III.F  GENETICS & BIOCHEMISTRY  
Room 3219  
Moderator: JoAnne Powell-Coffman, Genetics, Development & Cell Biology

III.F.1  Targeted Deletion of Zebrafish IncRNAcbx1a with TALENs  
Crystal Jones, Genetics (College of Agriculture & Life Sciences)  
Mentor: Maura McGrail, Genetics, Development & Cell Biology

III.F.2  Phenotypic Characterization of Long Noncoding RNA Mutation in Zebrafish  
Catherine Lawrence, Biochemistry (College of Liberal Arts & Sciences)  
Mentor: Maura McGrail, Genetics, Development & Cell Biology

III.F.3  Exploring Ganglion Cell Development at Single Cell Resolution  
Kallie Weinand, Genetics (College of Liberal Arts & Sciences)  
Mentor: Jeff Trimarchi, Genetics, Development & Cell Biology

III.F.4  Behavioral Similarities Compared to Genetic Relatedness in the Common Garter Snake (Thamnophis sirtalis)  
Alexander Wendt, Genetics (College of Agriculture & Life Sciences)  
Mentor: Anne Bronikowski, Ecology, Evolution & Organismal Biology

2:00 – 2:15  BREAK & REFRESHMENTS, PIONEER ROOM

2:15 – 3:30  PRESENTATION SESSION IV

SESSION IV.A  MECHANICAL ENGINEERING  
Room 3505  
Moderator: Ted Heindel, Mechanical Engineering

IV.A.1  A Paper-Based Microfluidic Microbial Fuel Cell  
Luke Wagner, Aerospace Engineering (College of Engineering)  
Mentor: Nastaran Hashemi, Mechanical Engineering

IV.A.2  A 3-D Paper Microfluidic Diagnostic Device Utilizing Color Change with Protein & Glucose Levels  
Brady Greer, Mechanical Engineering (College of Engineering)  
Mentor: Nastaran Hashemi, Mechanical Engineering

IV.A.3  Ionic Electroactive Polymer (IEAP) Actuators for On-Chip Sample Processing Integrated with Microflow Cytometer  
Catherine Meis, Engineering (College of Engineering)  
Mentor: Nastaran Hashemi, Mechanical Engineering

IV.A.4  Diesel Particulate Filter Surface Temperature Measurements using Near-Infrared Spectroscopy-Based Optical Fiber Detection  
Daniel Diaz, Mechanical Engineering (College of Engineering)  
Mentor: R. Maggie Connatser, Oak Ridge National Laboratory
SESSION IV.B  PSYCHOLOGY & LAW  
Room 3512  Moderator: Kristi Costabile, Psychology

IV.B.1  The Legal Engine That Couldn’t: Cross-examination Fails to Correct for Feedback Effects on Eyewitness Testimony  
Tiffany Casaccio, Psychology and Criminal Justice Studies (College of Liberal Arts & Sciences)  
Mentor: Laura Smalarz, Psychology

IV.B.2  The Effects of Stress on Susceptibility to Social Influence in Interrogation Situations  
Emily Johnson, Psychology (College of Liberal Arts & Sciences)  
Mentor: Stephanie Madon, Psychology

IV.B.3  Political Orientation and Attitudes Towards Harsh Interrogation Tactics  
Katelyn McDonald, Psychology and Biology (College of Liberal Arts & Sciences); Jennifer Pawlowski, Psychology (College of Liberal Arts & Sciences)  
Mentor: Sara Prot, Psychology

IV.B.4  How The Inherent Uncertainty Of Future Events Influences the Confession Decisions of Criminal Suspects  
Ruby Murillo, Psychology (College of Liberal Arts & Sciences)  
Mentor: Stephanie Madon, Psychology

SESSION IV.C  BIOLOGY, ECOLOGY & EVOLUTION  
Room 3534  Moderator: Stephen Dinsmore, Natural Resource Ecology and Management

IV.C.1  Factors Affecting Burrowing Owl (Athene cunicularia) Occupancy of Prairie Dog Colonies  
Kristen Alverson, Animal Ecology (College of Agriculture & Life Sciences)  
Mentor: Stephen Dinsmore, Natural Resource Ecology and Management

IV.C.2  Do Hydric Conditions During Embryonic Development in the Field Influence Phenotypes Of Neonatal Reptiles?  
Brooke Bodensteiner, Biology (College of Agriculture & Life Sciences)  
Mentor: Fredric Janzen, Ecology/Evolution & Organismal Biology

IV.C.3  Factors Affecting Nesting Times in the Painted Turtle Chrysemys picta in Western Nebraska  
Aubrey Brouillette, Animal Ecology (College of Agriculture & Life Sciences)  
Mentor: Fredric Janzen, Ecology/Evolution & Organismal Biology

IV.C.4  Personality in Zebra Finches  
Anne Patterson, Biology (College of Agriculture & Life Sciences)  
Mentor: Katharina Riebel, Universiteit Leiden

SESSION IV.D  FOOD & HEALTH  
Room 3538  Moderator: Diane Birt, Food Science & Human Nutrition

IV.D.1  Physical Properties of Extruded Corn and Corn Coproducts  
Jordan Foley, Biological Systems Engineering (College of Engineering)  
Mentor: Kurt Rosentrater, Agricultural & Biosystems Engineering
IV.D.2  Effects of AOM Dosage on Pre-Cancerous Colorectal Lesions in an A/J Mouse Model
Kylie Thompson, Dietetics (College of Human Sciences); Reed Faldet, Kinesiology and Health (College of Human Sciences); Kelsi Bauermeister, Dietetics and Global Resource Systems (College of Agriculture & Life Sciences); Catie Mullen, Biology (College of Liberal Arts & Sciences)
Mentor: Diane Birt, Food Science & Human Nutrition

IV.D.3  Impact of Dairy Goat Milk on Childhood Undernutrition
Sean Lundy, Global Resource Systems and Nutritional Sciences (College of Agriculture & Life Sciences); Brian Castro, Nutrition and Wellness and Global Resource Systems (College of Agriculture & Life Sciences)
Mentor: Ted MacDonald, Horticulture

IV.D.4  Children’s Cookbook: During and After Cancer Treatment
Kelly Wagner, Dietetics (College of Human Sciences)
Mentor: Ruth MacDonald, Food Science & Human Nutrition

SESSION IV.E  SOCIETY & CULTURE
Room 3558  Moderator: Paul Lasley, Sociology and Anthropology

IV.E.1  Do Adolescent Drug Users Fare the Worst? Onset Type, Juvenile Delinquency, and Criminal Careers
Alexia Angton, Criminal Justice (College of Liberal Arts & Sciences)
Mentor: Matthew Delisi, Sociology

Emilyne Ranch, Anthropology and Political Science (College of Liberal Arts & Sciences)
Mentor: Christina Gish-Hill, Anthropology

IV.E.3  “Half In, Half Out:” Gang Families, Gang Affiliation, and Gang Misconduct
James Spruill, Interdisciplinary Studies (College of Liberal Arts & Sciences)
Mentor: Matthew Delisi, Sociology

SESSION IV.F  ANIMAL SCIENCE & MEDICINE
Room 3219  Moderator: Annette O’Connor, Veterinary Diagnostic & Production Animal Medicine

IV.F.1  IL-12 Production as a Result of Leishmania Lipophosphoglycan Cap Sugar Coated Bead Exposure to Macrophages
Laura Russey, Animal Science (College of Agriculture & Life Sciences)
Mentor: Christine Petersen, Veterinary Pathology

IV.F.2  Comparison of Methods to Identify Bacterial Pathogens from Normal and Diarrheic Marmoset Monkeys
Katie Stueck, Animal Science (College of Agriculture & Life Sciences)
Mentor: Tim Frana, Veterinary Diagnostic & Production Animal Medicine

IV.F.3  Impact of Oral Meloxicam on Circulating Physiological Parameters in Beef Steers After Long Distance Transportation
Nicholas Van Engen, Biology (College of Agriculture & Life Sciences)
Mentor: Johann Coetzee, Veterinary Diagnostic & Production Animal Medicine
3:30 – 3:45  BREAK & REFRESHMENTS, PIONEER ROOM

3:45 – 5:00  PRESENTATION SESSION V

SESSION V.A  SUSTAINABILITY IN BUSINESS & INDUSTRY
Room 3505  Moderator: Merry Rankin, Sustainability

V.A.1  Saving the Customer from Themselves: Mass Customization in Children’s Wear
Molly Charipar, Apparel, Merchandising & Design (College of Human Sciences)
Mentor: Sarah Bennett, Apparel, Events & Hospitality Management

V.A.2  Real Savings with Real Ice
William Emory, Software Engineering (College of Engineering); Tucker Carrell,
Pre-Business (College of Business)
Mentor: Dr. Alan Murdoch, Kinesiology

V.A.3  In Living Color: Natural Dyeing in Textiles
Ashlyn White, Apparel Merchandising and Design and International Studies
(College of Human Sciences)
Mentor: Sarah Bennett, Apparel, Events & Hospitality Management

V.A.4  Department of Residence Recycling Program
Casey Fangmann, Industrial Engineering (College of Engineering)
Mentor: Mary Beth Golemo, Dept. of Residence

SESSION V.B  ECONOMICS, POLICY & ADVOCACY
Room 3512  Moderator: Wally Huffman, Economics

V.B.1  The Debt Effect: Is Student Debt Creating Ex-Iowans?
Jared Knight, Political Science (College of Liberal Arts & Sciences)
Mentor: Peter Orazem, Economics

V.B.2  Techno-Economic Modeling of a Degummed Soybean Oil
Biorefinery in 2005 & 2012
Bailley Richardson, Biological Systems Engineering (College of Engineering)
Mentor: Kurt Rosentrater, Agricultural & Biosystems Engineering

V.B.3  Geospatial Analysis of Resource Access Influences on Livelihood Outcomes
Deepak Premkumar, Economics and Global Resources Systems (College of
Liberal Arts & Sciences and Agriculture & Life Sciences
Mentor: Dorothy Masinde, Agricultural Education & Studies

SESSION V.C  CULTURE & BEHAVIOR
Room 3534  Moderator: Dawn Sweet, Psychology

V.C.1  The Relationship Between the Big Five Personalities and Willingness
to Participate in Genetic Research
Marisol Aguero, Psychology (College of Liberal Arts & Sciences)
Mentor: Norman Scott, Psychology
V.C.2 Exploitation of Birds by Late Prehistoric Forager-Farmers Along the Central Des Moines River  
Amanda Bernemann, Anthropology (College of Liberal Arts & Sciences)  
Mentor: Matthew Hill, Anthropology  

V.C.3 "Mike's Bones": Taphonomy of Faunal Remains Recovered from a Missouri River Sandbar  
Danny Garges, Anthropology (College of Liberal Arts & Sciences)  
Mentor: Matthew Hill, Anthropology  

V.C.4 “Did You Already Get Started?": Reactions to Expectancy Violations in Interaction  
Amanda Hale, Communication Studies (College of Liberal Arts & Sciences)  
Mentor: Dawn Sweet, Psychology  

SESSION V.D AGRICULTURE & THE ENVIRONMENT  
Room 3538 Moderator: Michael Castellano, Agronomy  

V.D.1 Greenhouse Gas Emissions from Land-Applied Swine Manure: Development of Method Based on Static Flux Chambers  
Kelsey Bruning, Civil Engineering (College of Engineering)  
Mentor: Jacek Koziel, Agricultural & Biosystems Engineering  

V.D.2 Effects of Tree Cover on Soil Salinity and Sodium Absorption Ratios  
Melissa Irizarry, Horticulture (College of Agriculture & Life Sciences)  
Mentor: Thomas Sauer, National Laboratory for Agriculture and the Environment  

V.D.3 Preparing for the Advance of White Noise Syndrome in Iowa  
Heather Sanders, Animal Ecology (College of Agriculture & Life Sciences)  
Mentor: Julie Blanchong, Natural Resource Ecology and Management  

V.D.4 Soil Organic Matter Nitrogen Mineralization as Affected by Nitrogen Fertilizer Fates and Aggregate Protection  
Steven Ward, Environmental Science (College of Agriculture & Life Sciences)  
Mentor: Michael Castellano, Agronomy  

SESSION V.E COMMUNICATION ANALYSIS  
Moderator: Greta Levis, English  

V.E.1 Disambiguation of Relevant Mentions in Tweets  
Curtis Ullerich, Computer Engineering (College of Engineering); Dan Stiner, Computer Engineering (College of Engineering)  
Mentor: Joseph Zambreno, Electrical and Computer Engineering  

V.E.2 Visual Communication of Research  
Suncica Jasarevic, Architecture (College of Design)  
Mentor: Ulrike Passe, Architecture  

V.E.3 Quantitative Analysis of Interdisciplinary Discourse: Collocations of Closed-Class Keywords  
Kyle Miller, Materials Engineer (College of Engineering)  
Mentor: David Oakey, English
V.E.4  Automated Analysis of Android Malware

*Curtis Ullerich*, Computer Engineering (College of Engineering);  
*Dan Stiner*, Computer Engineering (College of Engineering)  
Mentor:  Suraj Kothari, Electrical and Computer Engineering