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Research in the Capitol [Program], February 28, 2006

University of Northern Iowa. University Honors Program.

Iowa State University. Honors Program.

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Authors

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Research in the Capitol

February 28, 2006

Poster Display

10:30 a.m. – 2:00 p.m.

Remarks

11:00 a.m. – 11:15 a.m.

MICHAEL GARTNER

President, Board of Regents, State of Iowa

MEREDITH HAY

Vice President for Research, University of Iowa

CLIFF CHANCEY

Chair, Department of Physics, University of Northern Iowa

JOHN BRIGHTON

Vice Provost for Research, Iowa State University



IOWA STATE UNIVERSITY
OF SCIENCE AND TECHNOLOGY

The Honors Programs at Iowa State University, the University of Iowa, and the University of Northern Iowa have collaborated to create a new event—Research in the Capitol—dedicated to celebrating student learning through undergraduate research.

The following students from the three Regents universities were chosen to present their research findings, discuss how research has enriched their education, and share how their work contributes to Iowa with state legislators, state officials, and the public.

Jacqueline Alcántar, Chicago, Illinois
University of Iowa

Hybrid photopolymerization: Effects of light intensity and temperature

Chemical Engineering

Mentor: Julie Jessop

jacqueline-alcantar@uiowa.edu

Drew Cookman, Mason City, Iowa
Iowa State University

Recovering Proteins from Plant Hosts (high value products for corn)

Chemical Engineering

Mentor: Charles Glatz

dcookman@iastate.edu

Trevor Bibler, Cedar Falls, Iowa
University of Northern Iowa

Why would one of history's greatest thinkers believe we live in a perfect world?

Philosophy

Mentor: Margaret Holland

trevmb@uni.edu

Edward Erickson, Dike, Iowa

Katie Hughes, Chicago, Illinois

Michael McElhinney, Morning Sun, Iowa

University of Northern Iowa

The effects of polyphasic electrical stimulation on muscle force production and function

Athletic Training

Mentor: Todd Evans

eddiee60@uni.edu

kh529389@uni.edu

mm523198@uni.edu

Osman Chowdhry, Independence, Iowa

Ibrahim Cisse, Bamako, Mali

Kelley Clapp, Marion, Iowa

Isaac DeLong, San Antonio, Texas

DeShauna Jones, Waterloo, Iowa

John Jones, Urbandale, Iowa

Jennifer Younie, Fort Dodge, Iowa

University of Northern Iowa

A Mental Health Assessment of Low-Income African

American Evacuees from Hurricane Katrina

Project Export Center of Excellence on Health Disparities

Mentor: Michele Yehieli

project-export@uni.edu

Jason Haegele, Davenport, Iowa

Iowa State University

Pollen Flow in an Iowa Cornfield

Agricultural Engineering

Mentor: Peter Peterson

jhaegele@iastate.edu

Kimberly Cordray, Nevada, Iowa

University of Northern Iowa

The Calming Effect of Oil on Capillary Waves Measurement of Extinction Length by Laser Interferometry

Physics

Mentor: Fred Behroozi

kcordray@uni.edu

Evan Herrnstadt, Ames, Iowa

University of Iowa

Do legislators act as delegates or trustees in setting the legislative agenda

Political Science

Mentor: Tom Rice

evan-herrnstadt@uiowa.edu

Mark Jacobson, Ames, Iowa
Iowa State University
Characterization on integrin receptors on adult neural stem cells
Zoology
Mentor: Donald Sakaguchi
marklj@iastate.edu

Gayle Johnson, Eddyville, Iowa
Iowa State University
Effects of exogenous glucagons on blood metabolites in Holstein dairy cattle affected by fatty liver disease
Chemistry
Mentor: Donald Beitz
johnsong@iastate.edu

Matthew Keller, Iowa City, Iowa
University of Northern Iowa
Microhabitat selection by free-ranging wood turtles in Butler County, Iowa
Biology/Chemistry
Mentor: Jeff Tamplin
mkeller@uni.edu

Stephanie Law, Marion, Iowa
Iowa State University
Investigation of deGennes Scaling in (RR')Ni₂Ge₂ Compounds
Physics
Mentor: Paul Canfield
salaw@iastate.edu

Andrea LeClere, Cedar Rapids, Iowa
Iowa State University
Genetic Structure of Increasingly Isolated Populations of the Imperiled Blanding's Turtle in the Midwest
Genetics
Mentor: Fredric Janzen
aleclere@iastate.edu

Lindsey Letcher, Anoka, Minnesota
University of Northern Iowa
Striking Out: The All-American Girls Professional Baseball League and Gender Ideologies of the World War II and Cold War Eras
History Education
Mentor: John Johnson
lletch27@uni.edu

Tony Morse, Spirit Lake, Iowa
University of Northern Iowa
How does mowing effect light intensity, ground litter, and seedling emergence in mature prairie restoration?
Biology
Mentor: Laura Jackson
tmorse@uni.edu

Sarah Nichols, Grand Mound, Iowa
University of Northern Iowa
"My Father Made Me" and Other Theories about Gender Roles in Procreation in Ancient Egypt
Art History
Mentor: Charles Adelman
muses9@uni.edu

Tara Olds, Bettendorf, Iowa
University of Iowa
Minimizing home energy use through wood-soy foam insulation
Civil Engineering
Mentor: Craig Just
tolds@engineering.uiowa.edu

Erin Powell, Eden Prairie, Minnesota
University of Northern Iowa
Inhibition of liver cell growth by the pesticide atrazine
Biology/Chemistry
Mentor: Kavita Dhanwada
epowell@uni.edu

Andrew Powers, Dubuque, Iowa
Stephanie Streit, Monticello, Iowa
University of Northern Iowa
College Student Employment and Alcohol Consumption
Psychology
Mentor: Adam Butler
apowers@uni.edu
sstreit@uni.edu

Lindsey Reighard, Marion, Iowa
University of Iowa
Sexual harassment coverage by the media
Marketing
Mentor: Nancy Hauserman
lindsey-reighard@uiowa.edu

Megan Roy, Iowa City, Iowa
University of Iowa
Architecture and the elite in colonial Virginia houses
History
Mentor: Barbara Mooney
megan-roy@uiowa.edu

Jessica Russell, Des Moines, Iowa
Iowa State University
Stability of Gait in Persons with Parkinson's Disease Under Normal Conditions and With Visual or Verbal Clues
Exercise and Sports Science
Mentor: Ann Smiley-Oyen
russellj@iastate.edu

Jennifer Scaccianoce, Hoffman Estates, Illinois
Iowa State University
The Relationship Between the Escherichia Coli Infecting Poultry and the E.Coli Causing Human Urinary Tract Infection
Animal Science (Pre Vet)
Mentor: Lisa Nolan
scacc08@iastate.edu

Melanie Simet, Cedar Falls, Iowa
University of Iowa
Examining X-ray flares from an intermediate-mass black hole at the Very Large Array radio telescope
Physics and Astronomy
Mentor: Phil Kaaret
melanie-simet@uiowa.edu

Sara Snyder, Sibley, Iowa
Iowa State University
Anti-inflammatory activity in hypericum (St. John's Wort)
Biochemistry
Mentor: Diane Birt
sesnyder@iastate.edu

Addison Killean Stark, Sabula, Iowa
University of Iowa
Magnetically modified fuel cells
Chemistry
Mentor: Johna Leddy
addison-stark@uiowa.edu

Christian Urrutia, Hudson, New Hampshire
University of Iowa
Comparing corruption and its perception in mid and large-sized cities
Political Science
Mentor: David Redlawsk
christian-urrutia@uiowa.edu

Nathan Willis, Omaha, Nebraska
Iowa State University
Using Digital Video Analysis to Monitor Driver Behavior at Intersections
Aerospace Engineering
Mentor: Derrick Parkhurst
nwillia@iastate.edu

Travis Witt, Spencer, Iowa
University of Iowa
Use of X-ray crystallography to determine potassium influence on Calmodulin binding of calcium
Biochemistry
Mentor: Madeline Shea
travis-witt@uiowa.edu