

*NCA Self Study*  
*Criterion 3 Documents*

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Eastern Illinois University

*Year 2014*

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2014 Showcase EIU Program

Honors College

This paper is posted at The Keep.  
[http://thekeep.eiu.edu/eiunca\\_teachinglearning\\_docs/8](http://thekeep.eiu.edu/eiunca_teachinglearning_docs/8)

**STUDENTS! Want to get involved...? What YOU can do  
to be in Showcase EIU in the future ...**

There are lots of opportunities to engage your brain, connect with practitioners in the field you want to work in, and to build your resume. Break new ground and become an undergraduate contributor to the field you are studying in the classroom.

- ⇒ Fuel your Imagination! Go to Departmental and College On-campus Research events, Student Art Shows, Musical Productions.
- ⇒ Talk to Faculty—Ask their advice about what you could do to engage with research, internships, or creative activity.
- ⇒ Check out information on Undergraduate Research, Scholarship and Creative Activity (URSCA grants), [www.eiu.edu/honors/URSCA.php](http://www.eiu.edu/honors/URSCA.php)
- ⇒ NCUR (National Conference on Undergraduate Research) [www.eiu.edu/honors/EIU\\_goes\\_to\\_NCUR.php](http://www.eiu.edu/honors/EIU_goes_to_NCUR.php)
- ⇒ Talk to your peers who are already involved in the kind of work you would like to see yourself doing.

THE 6TH ANNUAL  
**SHOWCASE EIU**

**2014**

**EXPLORATION & INQUIRY BY  
UNDERGRADUATES**

**DOUDNA RECITAL HALL**

**ORAL PRESENTATIONS 1- 4 PM,  
POSTERS & BUFFET DINNER, 4- 5:30 PM**

***ANNOUNCEMENT OF THE  
PROVOST'S UNDERGRADUATE  
RESEARCH MENTOR AWARDS, 4:30 PM***

**The Honors College**   
EASTERN ILLINOIS UNIVERSITY™

Showcase EIU was started in 2009 as a multi-disciplinary conference for Exploration and Inquiry by Undergraduates. The Honors College is happy to host this event and to help celebrate the achievement of undergraduates who are ready to take their research beyond the regular classroom and to excel and explore as they engage in research, practice, and creative work that helps them learn while creating knowledge and art, and practicing their skills to help others.

### ***Thanks to***

The faculty who mentor students in their research, scholarly, and creative work. They give students the confidence to stretch as they grow as scholars, artists, researchers, and practitioners.

Dean Bonnie Irwin (Arts and Humanities), Dean Mahyar Izadi (Lumpkin College of Business and Applied Sciences), Dean Diane Jackman (Education and Professional Studies), and Dean Harold Ornes (Sciences) for their help and leadership. Thanks also to Dean Allen Lanham of the Library, and our librarians, without whose support, little of this student work would be possible, and to Dean Robert Augustine of the Graduate School, for his support (and the loan of the easels).

President William Perry and Provost Blair Lord, who provide the leadership that makes it possible for EIU to be an Illinois leader in undergraduate research, scholarship, and creativity.

Thanks finally to the many EIU staff who have helped with this event, and most of all to YOU the students— Keep up the excellent work!

#### **How Does Culture Influence the Housing Choices and Behaviors of Residents of the Pine Ridge Reservation**

*Dana Tell*

Honors Council of the Illinois Region (HCIR) Joliet, IL      February, 2014  
Family and Consumer Sciences

#### **Long-term channel recovery upstream of a spillway failure: a case study of Lake Charleston, Illinois**

*Jacob Vesper*

Illinois State Academy of Science Annual Meeting, University Park, IL  
April 1, 2014  
Faculty Mentor: Dr. James Riley      Geography

#### **A Voice for Change**

*Jessi Walker*

Honors Council of the Illinois Region (HCIR) Joliet, IL      February, 2014  
Faculty Mentor: Dr. Olga Abella      English

#### **Modality Switch and Conditional Reasoning**

*Nathan Young*

33rd Annual MAUPRC, Crestview Hills, Kentucky      April 5, 2014  
Faculty Mentor: Dr. Sri Dandotkar      Psychology

*(Again, if you know of other presentations or would like to make suggestions for improvements to this list, please feel free to contact us at [honors@eiu.edu](mailto:honors@eiu.edu))*

*Answer to Trivia Question on p. 11: Figure it out. Do some exploring and inquiring already!*

**First Impressions and Perceived Like-ability***Abbigail Shackleton*

33rd Annual MAUPRC, Crestview Hills, Kentucky April 5, 2014

Faculty Mentor: Dr. Sri Dandotkar Psychology

**The President and the Supreme Court***Ashley Shula*

EIU Political Science Review

Faculty Mentor: Dr. Melinda Mueller Political Science

**Keynesian Economics and the Financial Crisis of 2008***Michael Spencer*

Honors Council of the Illinois Region (HCIR) Joliet, IL February, 2014

Faculty Mentor: Dr. Julie Campbell English

**“I carry War in my right hand and in my left Peace”: George Rogers Clark and the Illinois Country Middle Ground during the American Revolution***Mark Stanford*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. Charles Foy History

**Biomimetic Approaches in Cryopreservation***Blake Stokich*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. Michael Menze Biological Sciences

**Bullying: Different types of Defending Behaviors and Social Skills***Chloe Suchy, Erin Tomasino*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014 **AND**

33rd Annual MAUPRC, Crestview Hills, Kentucky

Faculty Mentor: Dr. Lyndsay Jenkins Psychology

**6th Annual Showcase EIU****Exploration & Inquiry by Undergraduates****Friday March 28th, 2013****Doudna Recital Hall****Schedule****Doudna Lecture Hall****1:00 pm Welcome - Richard England, Dean of the Honors College****1:15 -1:35 pm There and Back Again: A Chemist's Tale of Studying Molecular Shape and Reactivity***Megan Schutzbach*

Faculty Mentor: Dr. Kraig Wheeler Chemistry

**1:35-1:55 pm Margaret Brundage: The Pulp Pin-Up Illustrator***Alexandra Beetz*

Faculty Mentor: Dr. Caroline Simpson Art History

**Break****Doudna Lecture Hall****2:10-2:30 pm Mental Health Status of EMS Providers***Jasmine Wendt-Ballard*

Faculty Mentor: Dr. Misty Rhoads Health Studies

**2:30-2:50 pm Effects of Attention on Memory for Emotional Faces and Events***Ashley Lamb*

Faculty Mentor: Dr. Jeffrey Stowell Psychology

**(Oral Presentations Continued...)**

**2:50-3:10 pm** **Effects of Physical Attractiveness on the Perception of Mental Illness**  
*Caitlin Garstkiewicz*  
 Faculty Mentor: Dr. Jeffrey Stowell Psychology

**Break** **Doudna Room 1524**

**3:20-3:40 pm** **Interpersonal Communication and the Digital Era**  
*Yasmine Lozano*  
 Faculty Mentor: Dr. Rodney Marshall  
 Communication Studies

**3:40-4:00 pm** **Patients of Alzheimer's and Their Families: Effects on Communication and Personal Well-Being**  
*Amanda Loehr*  
 Faculty Mentor: Dr. Melanie Mills  
 Communication Studies

**Doudna Lecture Hall**

**3:20-3:40 pm** **The Historical Representation of Abraham Lincoln in Children's Literature**  
*Valerie Metz*  
 Faculty Mentor: Dr. John H. Bickford III  
 Early Childhood, Elementary, and Middle Level Education

**3:40-4:00 pm** **Scenes from GOOD BOYS AND TRUE and BOY'S LIFE, and Monologue from MASS APPEAL**  
*Jacob Cole, Alexander Truccano*  
 Faculty Mentor: Dr. Kevin Doolen Theatre Arts

**Synthesis of cinnamaldehyde semicarbazones and their photochromicity**  
*John Saathoff, Xiao Xiao*  
 247th National Meeting of the American Chemical Society (ACS), Dallas, TX  
 March 16-20, 2014  
 Faculty Mentor: Dr. Edward M. Treadwell Chemistry

**Brand Attachment and the Compulsive Buyer**  
*Devon Sacramento*  
 2014 Marketing Management Association Conference  
 March 26-28, 2014  
 Faculty Mentor: Dr. Richard Flight School of Business

**Selective [2+2] Photodimerization Reactions in Molecular Crystals**  
*Megan Schutzbach*  
 National Meeting of the American Chemical Society (ACS), Indianapolis, IN  
 September 8-12, 2013  
 Faculty Mentor: Dr. Kraig Wheeler Chemistry

**There and Back Again: A Chemist's Tale of Studying Molecular Shape and Reactivity**  
*Megan Schutzbach*  
 National Council of Undergraduate Research (NCUR) Conference  
 April 3-5, 2014  
 Faculty Mentor: Dr. Kraig Wheeler Chemistry

**Executive Compensation in Higher Education: Effects of Institutional Characteristics and Performance on President' Compensation**  
*Elizabeth Schwinderhammer*  
 2014 Society of Business, Industry and Economics Conference  
 April 8-11, 2014  
 Faculty Mentor: Dr. Michael Dobbs School of Business

**Impact of Late Embryogenesis Abundant (LEA) Proteins on Osmotic Stress Tolerance in Mammalian Cells**

*Benjamin Poznic*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. Michael Menze          Biological Sciences

**Synthesis of "clip" molecules involving Diels-Alder reaction of dienes with electron-withdrawing/donating groups**

*Zachary Price, Tamara Bowen*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. Zhiqing Yan          Chemistry

**Youth Politics and Motivation**

*John Proffitt*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. Melinda Mueller          Political Science

**The Influence of Gender on College Students' Career Preferences**

*Emily Rardin*

33rd Annual MAUPRC, Crestview Hills, Kentucky

April 5, 2014

Faculty Mentor: Dr. Bill Addison          Psychology

**Churning the Melting Pot: An Analysis of Immigration News Coverage in the U.S. Newspapers**

*Bryce Ricketts*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. Eunseong Kim          Journalism

**Showcase - Exploration & Inquiry by Undergraduates**

**Poster Session— 4-5:30 pm**

**Doudna Concourse**

**4:30— Presentation of the Provost's Undergraduate Research Mentor Awards— Provost Blair Lord**

 **Posters** 

**Resistance Vest**

*Nick Anderson*

Faculty Mentor: Ms. Lee Ann Price

Kinesiology Sports Studies

**A Comparison of Coral Zones from Within the Devonian Lingle (St. Laurent) Formation from the Illinois Basin**

*Brandon Bobal*

Faculty Mentor: Dr. Katie Lewandowski

Geology

**Speaking at Appropriate Times: Increasing Speaking when it's Appropriate of a 3<sup>rd</sup> Grade Student**

*Amy Britton*

Faculty Mentors: Dr. Jennifer Stringfellow, Ms. Stephanie Woodley

Special Education

**Textbook Drive for Salahaddin University**

*Kelsey Brooke*

Faculty Mentor: Dr. Marko Grunhagen

School of Business

**Blackhawk Trail Needs Assessment**

*Mollie Brown, Alexis Gooch, Michelle Mark, Taylor Gross*

Faculty Mentor: Dr. Michael Mulvaney

Recreation Administration

**An Analysis of Media Use and Public Opinion toward the Affordable Care Act****Act***Matthew Cain*

Faculty Mentor: Dr. Richard Wandling

Political Science

**When Students switch Instruments: Techniques for Successful****Embouchure Change***Rose Cloud, Jaime Escatel*

Faculty Mentor: Dr. Danielle Larson

Music, Music Education

**Abortion Among Women Attending College***Emily Cook*

Faculty Mentor: Dr. Misty Rhoads

Health Studies

**The Psychology of a Sugar Addiction***Alexandra Curtis*

Faculty Mentor: Dr. Jeffrey Stowell

Psychology

**Keep Calm and Cope on: How Families Cope with Childhood Cancer***Christine Czapek*

Faculty Mentor: Dr. Lisa Moyer

Family and Consumer Sciences

**Internship Experiences of EIU Management Majors***Ellie Dakhoul, Megan Silke*

Faculty Mentor: Ms. Renee Stroud

School of Business

**A CVPA for an Indoor Rock Climbing Wall at EIU***Sean Diamond*

Faculty Mentor: Dr. Michael Mulvaney

Recreation Administration

**Structure Determination of H<sub>2</sub>C=CHF···H<sub>2</sub>C=CF<sub>2</sub> by Fourier-Transform Microwave Spectroscopy***Rachel Dorris*

Faculty Mentor: Dr. Rebecca Peebles

Chemistry

**The Combined Influence of Stereotype Threat and Attitude Toward Women on Math Performance***Bethany Oxford*

33rd Annual MAUPRC, Crestview Hills, Kentucky April 5, 2014

Faculty Mentor: Dr. Bill Addison Psychology

**Double Stops from the Beginning to Bach***Lisa Perfors*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. Anna Cromwell Music

**Augmentative and Alternative Communication and Parent Training***Jessica Phillips*

Illinois Speech-Language-Hearing Association Convention, Rosemont, IL,

February 1, 2014

Faculty Mentors: Mrs. Trina Becker &amp; Mrs. Beth Bergstrom

Communication Disorders and Sciences

**Effects of Communication Partner Training on AAC Users***Jessica Phillips*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentors: Mrs. Trina Becker &amp; Mrs. Beth Bergstrom

Communication Disorders and Sciences

**Beliefs/philosophies of special education teacher candidates***Erin Potter, Geena Anselmo, Catherine Roy*

Illinois Council for Exceptional Children, Lisle, IL November, 2013

Faculty Mentors: Dr. Jennifer Stringfellow &amp; Dr. Christina Edmonds-Behrend

Special Education

**Interpersonal Communication and the Digital Era***Yasmine Lozano*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. Rodney Marshall          Communication Studies

**Pre-teachers + Rebecca Caudill list = Reading fun!***Anthony Madonia, Geena Anselmo*

Illinois Reading Council, Springfield, IL          March, 2014

Faculty Mentors: Dr. Christina Edmonds-Behrend &amp; Dr. Jennifer Stringfellow

Special Education

**Accuracy of and Representation within the Historical Content of Children's Literature***Valerie Metz*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. John Bickford

Early Childhood, Elementary, and Middle Level Education

**Genetic Diversity of *Monilinia vaccinii-corymbosi*, a fungal pathogen of blueberry***Megan Miller*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. Marc Cubeta          Biological Sciences

**Women Reading in the Works of Virginia Woolf***Jill Monroe*

International Virginia Woolf Society Conference, Chicago, IL          June 1, 2014

Faculty Mentor: Dr. Ruth Hoberman          English

**Factors Influencing Eating Behaviors of College Students: Dining Out vs. Eating at Home***Emily Dupuis*

Faculty Mentor: Dr. Melanie Tracy Burns

Family and Consumer Sciences

**Physique Profile of NCAA Division I NCAA Women's Rugby Athletes***Molly Dyer*

Faculty Mentor: Dr. John Emmett

Kinesiology Sports Studies

**Rates of Teacher's Behavior Specific Praise and Relation to Disruptive Behavior***Morgan Eldridge, Sawyer Howe*

Faculty Mentor: Dr. Lyndsay Jenkins

Psychology

**Performance Testing of a New Knot for Life Safety and Rope Access Applications***Stephany Fonseca*

Faculty Mentor: Dr. Isaac Slaven

School of Technology

**Morphological Shape Change of the Jaw between Sand Shiner (*Notropis stramineus*) and Silverjaw (*Notropis bucatatus*) Minnows over the Ontogeny***Colby Gerth*

Faculty Mentor: Dr. Anabela Resende da Maia

Biological Sciences

**Effects of Pioglitazone on Liver Cell Bioenergetics***David Grimm, Leo Altamirano*

Faculty Mentor: Dr. Michael Menze

Biological Sciences

**Women's Role in South East Asian Politics***Courtney Harfmann*

Faculty Mentor: Dr. Lilian Barria

Political Science



**Five Step Spelling Strategy***Jessica Howse*

Faculty Mentor: Dr. Jennifer L. Stringfellow  
Special Education

**An Investigation of Chemical Interferences in Two Different Methods of Vehicle Arson Accelerant Identification***Lauren Humphrey*

Faculty Mentor: Dr. Doug Klarup  
Chemistry

**A Case Study of Attachment and Resilience Variance in a Midwestern Family***Kelly Inda*

Faculty Mentor: Dr. Crystal Duncan Lane  
Family and Consumer Sciences

**Personal Roots of Representation: Applying Burden's Model to Female Leaders in State Legislatures***Lindsey Juszcak*

Faculty Mentor: Dr. Melinda Mueller  
Political Science

**Synthesis and Evaluation of a New Dye Molecule For Use in Dye-Sensitized Solar (DSS) Cells***Savannah Kapper*

Faculty Mentor: Dr. Mark McGuire  
Chemistry

**Decreasing Latency of Following Directions by Changing Seating Arrangement***Mallory Kowaleski*

Faculty Mentors: Mrs. Stephanie Woodley & Dr. Jennifer Stringfellow  
Special Education

**Reading Comprehension: Using Repeated Readings as an Effective Intervention***Ally Kupersmith*

Faculty Mentors: Mrs. Stephanie Woodley & Dr. Jennifer Stringfellow  
Special Education

**MitoNEET: Reduction in Insulin Resistance through Ameliorated Oxidative Stress?***Megan Laffoon, Nicolas Ferry*

National Council of Undergraduate Research (NCUR) Conference,  
April 3-5, 2014

Faculty Mentors: Dr. Mary Konkle, Michael Menze  
Chemistry, Biological Sciences

**Expression, purification, and chemical modification of MitoNEET: A novel diabetes drug target***Megan Laffoon, Morgan Roberts*

National Meeting of the American Chemical Society (ACS), Indianapolis, IN  
September 8-12, 2013

Faculty Mentor: Dr. Mary Konkle                      Chemistry

**Attentional Effects on Memory for Emotional Faces and Events***Ashley Lamb*

National Council of Undergraduate Research (NCUR) Conference  
April 3-5, 2014

Faculty Mentor: Dr. Jeffrey Stowell                      Psychology

**The Reign of Deitch***Jenna Linder*

National Council of Undergraduate Research (NCUR) Conference  
April 3-5, 2014

Faculty Mentor: Dr. Mary Caroline Simpson                      Art

**Alkynyl versions of cinnamaldehyde semicarbazone and their photochromicity***Olga Livshits*

247th National Meeting of the American Chemical Society (ACS), Dallas, TX  
March 16-20, 2014

Faculty Mentor: Dr. Edward M. Treadwell                      Chemistry

**Let's Get Personal: Using Burden's Roots of Representation Model to Analyze Women Leadership Roles in State Legislatures**

*Lindsey Juszczak*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. Melinda Mueller          Political Science

**Ligand-Centered Absorptions as a Means of Enhancing the Visible Absorption Spectra of Ruthenium(II) Polypyridyl Complexes Used in Dye-Sensitized Solar Cells.**

*Savannah Kapper*

National Meeting of the American Chemical Society (ACS), Indianapolis, IN

September 8-12, 2013 **AND**

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. Mark McGuire          Chemistry

**Preimplantation Genetic Diagnosis: Helpful or Harmful?**

*Kristina Kastl*

Honors Council of the Illinois Region (HCIR) Joliet, IL          February, 2014

Faculty Mentor: Dr. Ruth Chesnut          Biological Sciences

**Epistemology Belief System Affect on Argument Evaluation**

*Nicole Kulis*

33rd Annual MAUPRC, Crestview Hills, Kentucky          April 5, 2014

Faculty Mentor: Dr. Sri Dandotkar          Psychology

**Chemical Modification of MitoNEET: A Novel Diabetes Drug Target**

*Megan Laffoon*

National Council of Undergraduate Research (NCUR) Conference,

April 3-5, 2014

Faculty Mentors: Dr. Mary Konkle, Dr. Michael Menze

Chemistry, Biological Sciences

**Women Readers in Virginia Woolf**

*Jill Monroe*

Faculty Mentor: Dr. Ruth Hoberman

English

**Wrist Range of Motion Rehab Tool**

*Whitney Odom*

Faculty Mentor: Dr. Lee Ann Price

Kinesiology and Sports Studies

**The Market for Corn Stover: A Brief Economic Analysis**

*Ross Olson*

Faculty Mentor: Dr. Ali Moshtagh

Economics

**Double Stops from Beginning to Bach**

*Lisa Perfors*

Faculty Mentor: Dr. Anna Cromwell

Music

**The Effects of Communication Partner Training on AAC Users**

*Jessica Phillips*

Faculty Mentors: Mrs. Trina Becker, Mrs. Beth Bergstrom

Communication Disorders and Science

**Role of Late Embryogenesis Abundant Proteins in Desiccation-Induced Apoptosis**

*Benjamin Poznic*

Faculty Mentor: Dr. Michael Menze

Biological Sciences

**Languages for Young Learners**

*Shana Sanchez, Katherine Eckberg, Jaime Escatel, Maureen Ofiara, Veronica Skidmore, Aaron Thompson, Mary Beth Xenakis*

Faculty Mentor: Dr. Christiane Eydt-Beebe          Modern Languages

**Archery Rehab Bow**

*Jordan Schertz*

Faculty Mentor: Dr. Lee Ann Price

Kinesiology and Sports Studies

**Increasing Positive Social Behaviors in Students***Kim Shambo*

Faculty Mentor: Dr. Jennifer L. Stringfellow  
Special Education

**The President and the Supreme Court***Ashley Shula*

Faculty Mentor: Dr. Melinda Mueller  
Political Science

**Acceptability and Preference of Whole Grain Pasta by College Students***Cecilia Smith*

Faculty Mentor: Dr. Melanie Tracy Burns  
Family and Consumer Sciences

**“I carry War in my right hand and in my left Peace”: George Rogers Clark and the Illinois Country Middle Ground during the American Revolution***Mark Stanford*

Faculty Mentor: Dr. Charles R. Foy  
History

**Biomimetic Approaches in Cryopreservation***Blake Stokich*

Faculty Mentor: Dr. Michael Menze  
Biological Sciences

**A Financial Plan for an Archery Club***Nathaniel Talley*

Faculty Mentor: Dr. Michael Mulvaney  
Recreation Administration

**Bullying: Different types of Defending Behaviors and Social Skills***Erin Tomasino, Chloe Suchy*

Faculty Mentor: Dr. Lyndsay Jenkins  
Psychology

**Myanmar: A Correlation between Education and Democracy?***Ciara Wagoner*

Faculty Mentor: Dr. Lilian Barria  
Political Science

**Synthetic Marijuana Abuse in a College Athlete - A Case Study****Rates of Teacher Praise and Effect on Student Behavior***Sawyer Howe, Morgan Eldridge*

National Council of Undergraduate Research (NCUR) Conference  
April 3-5, 2014

**AND**

33rd Annual MAUPRC, Crestview Hills, Kentucky April 5, 2014

Faculty Mentor: Dr. Lyndsay Jenkins Psychology

**An Investigation of Chemical Interferences in Two Different Methods of Vehicle Arson Accelerant Identification***Lauren Humphrey*

National Council of Undergraduate Research (NCUR) Conference  
April 3-5, 2014

Faculty Mentor: Dr. Doug Klarup Chemistry

**Bilingual Narrative Assessment: Evaluation of the Kindergarten Language Benchmark Assessment in Native Spanish-Speaking Children***Rebecca Hunt*

National Council of Undergraduate Research (NCUR) Conference  
April 3-5, 2014

Faculty Mentor: Dr. Angela Anthony Communication Disorders & Sciences

**Patterns of Bed Morphology at a side channel reservoir***Lauren Hutton*

Association of American Geographers (AAG) Annual Meeting, Tampa, FL  
April 1, 2014

Faculty Mentor: Dr. James Riley Geography

**The Northern Lights***Megan Ivey*

Honors Council of the Illinois Region (HCIR) Joliet, IL February, 2014

Faculty Mentor: Dr. David Raybin English

**Molecular shape directed crystal transformations**

*Cody Gass, Rajan Giri\*, Mihiri Weerasinghe\**

48th Midwest Regional Meeting of the American Chemical Society,  
Springfield, MO      October 16-19, 2013

Faculty Mentor: Dr. Kraig Wheeler      Chemistry

**How personality influences the Relationship between Intensity of Facebook Use and Well-Being**

*Timothy Geiselman*

33rd Annual MAUPRC, Crestview Hills, Kentucky      April 5, 2014

Faculty Mentor: Dr. Ronon Bernas      Psychology

**Weather Broadcast Critique by National Weather Association**

*Valerie Goodwin*

National Weather Association Conference, Charleston, SC      October, 2013

Faculty Mentor: Dr. Cameron Craig      Geography

**Effects of Pioglitazone on Liver Cell Bioenergetics**

*David Grimm, Leo Altamirano*

National Council of Undergraduate Research (NCUR) Conference  
April 3-5, 2014

Faculty Mentor: Dr. Michael Menze      Biological Sciences

**Increasing Student Engagement Using Social Media**

*Mitchell Gurick, Cameron Stone*

Illinois Business Education Association's Annual Conference  
November 13-15, 2013      School of Business

**Weather Broadcast Critique by National Weather Association**

*Braden Harp*

National Weather Association Conference, Charleston, SC      October 2013

Faculty Mentor: Dr. Cameron Craig      Geography

\* = Graduate students

*Connor Webster*

Faculty Mentor: Dr. John Storsved  
Kinesiology and Sports Studies

**Hot Dog Shop**

*Carla Weschenfelder, Kasandra Wick*

Faculty Mentor: Mr. Jeff Oetting  
School of Business

**Healthy Eating on a Budget: A Grocery Cart Display**

*Kara Wilcoxon*

Faculty Mentor: Dr. Melanie Tracy Burns  
Family and Consumer Sciences

**Trivia Moment—**

**What famous man of science (pictured above in a cartoon by his friend Albert Way) got his start in undergraduate research? (see p. 27 for the answer)**

## ***Off-campus Research Presentations by EIU Undergraduates (2013-14)***

In addition to many on-campus research, scholarly, and creative presentations, scores of EIU undergraduate students presented at many conferences off-campus. This list comes from information sent to the Honors College by Deans and Chairs. *If you know of other off-campus presentations or publications by undergraduates not represented here, please send them to [honors@eiu.edu](mailto:honors@eiu.edu) and we will be sure to add them to the online version of this list.*

### **Margaret Brundage: The Pulp Pin-Up Illustrator**

*Alexandra Beetz*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. Mary Caroline Simpson      Art

### **Efficacy of Social Stories with Typically Developing Pre-school Children**

*Loni Berbaum*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

AND

Illinois Speech-Language-Hearing Association Convention, Rosemont, IL,

February 1, 2014

Faculty Mentors: Dr. Tena McNamara & Dr. Angela Anthony

Communication Disorders and Sciences

### **Holding a Corpse, Dreaming of a Ghost**

*Kena Bocek*

Honors Council of the Illinois Region (HCIR) Joliet, IL

February, 2014

Faculty Mentor: Dr. David Raybin      English

### **On the host-guest of benzobis (imidazolium) salts and crown ethers: Exploring the path toward carbene based interlocked molecules**

*Matthew Foster, Ben T. Mehl, Edward Treadwell*

National Meeting of the American Chemical Society (ACS), Indianapolis, IN  
September 8-12, 2013

Faculty Mentors: Dr. Kraig Wheeler, Dr. Radu Semeniuc      Chemistry

### **Biochemical and Genetic Characterization of Aromatic Hydrocarbon Metabolism by *Caulobacter Crescentus***

*Denise Funk, Landry Umbu*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. Gopal Periyannan      Chemistry

### **Aromatic Hydrocarbon Metabolism by *Caulobacter Crescentus***

*Denise Funk, Suzanne Walker, Landry Umbu, Brandon Martin*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. Gopal Periyannan      Chemistry

### **Deep Probing of DNA Microarrays to identify master regulators of liver function**

*Olivia Garrett*

106th Illinois State Academy of Sciences Conference,

Governors State University      April 25-26, 2014

Faculty Mentor: Dr. Gary Bulla      Biological Sciences

### **Effects of Physical Attractiveness on the Perception of Mental Illness**

*Caitlin Garstkiewicz*

National Council of Undergraduate Research Conference      April 3-5, 2014

**AND**

33rd Annual MAUPRC, Crestview Hills, Kentucky      April 5, 2014

Faculty Mentor: Dr. Jeffrey Stowell      Psychology

**Rates of Teacher's Behavior Specific Praise and Relations to Disruptive Behavior**

*Morgan Eldridge*

33rd Annual MAUPRC, Crestview Hills, Kentucky April 5, 2014

Faculty Mentor: Dr. Lyndsay Jenkins Psychology

**The Influence of Gender and Emotional Intelligence on the Recognition of Facial Expression of Emotion**

*Kaylee Ernst*

33rd Annual MAUPRC, Crestview Hills, Kentucky April 5, 2014

Faculty Mentor: Dr. Bill Addison Psychology

**Does Gender Matter?: Writing Strategy Differences in Male and Female Sports Journalists**

*Natalie Fedder*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. Eunseong Kim Journalism

**MitoNEET: Reduction in Insulin Resistance through Ameliorated Oxidative Stress?**

*Nicolas Ferry*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. Michael Menze Biological Sciences

**Performance Testing of a New Knot for Life Safety and Rope Access Applications**

*Stephany Fonseca*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. Isaac Slaven School of Technology

**Teacher Praise in General Education Classroom**

*Christina Bounds*

33rd Annual MAUPRC, Crestview Hills, Kentucky April 5, 2014

Faculty Mentor: Dr. Margaret Floress Psychology

**Kindergarten Teacher Praise in General Education Classrooms**

*Christina Bounds*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. Margaret Floress Psychology

**Examining and Supplementing the Historical Representation of the Civil Rights Movement within Children's Literature**

*Meghan Briscoe*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. John Bickford

Early Childhood, Elementary, and Middle Level Education

**How On-Campus Involvement Impacts Student Satisfaction and Retention for First Generation College Students**

*Elizabeth Burbatt*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. Michael Gillespie Sociology

**When Students Switch Instruments: Techniques for Successful Embouchure Change**

*Rose Cloud, Jaime Escatel*

National Council of Undergraduate Research (NCUR) Conference

April 3-5, 2014

Faculty Mentor: Dr. Danelle Larson

Music, Music Education

**New frontiers in desymmetrized molecular crystal reactions**

*Teage Collett, Cody A. Gass, Rajan Giri, Mihiri Weerasinghe,  
Megan Schutzbach*

National Meeting of the American Chemical Society (ACS), Indianapolis, IN  
September 8-12, 2013

Faculty Mentor: Dr. Kraig A. Wheeler      Chemistry

**Analysis of the Oligomeric State of MitoNEET: A Novel Type-2 Diabetes****Drug Target**

*Jacquelyn Crail*

National Council of Undergraduate Research (NCUR) Conference,  
April 3-5, 2014

Faculty Mentors: Dr. Mary Konkle, Dr. Michael Menze  
Chemistry, Biological Sciences

**Characterizing protein binding partners of MitoNEET**

*Jacquelyn Crail, Morgan E. Roberts, William Fernandez*

National Meeting of the American Chemical Society (ACS), Indianapolis, IN  
September 8-12, 2013

Faculty Mentors: Dr. Michael Menze, Dr. Mary Konkle  
Biological Sciences, Chemistry

**Very Varying Viewpoints: A Review of American Foreign Policy with Syria in September 2013**

*Jack Cruikshank*

Honors Council of the Illinois Region (HCIR) Joliet, IL      February, 2014

Faculty Mentor: Dr. Melinda Mueller      Political Science

**Keep Calm and Cope on: How Families Cope with Childhood Cancer**

*Christine Czapek*

National Council of Undergraduate Research (NCUR) Conference  
April 3-5, 2014

Faculty Mentor: Dr. Moyer      School of Family & Consumer Sciences (FCS)

**Nightmares and Kindergarten-Aged Children**

*Megan Dandurand*

33rd Annual MAUPRC, Crestview Hills, Kentucky      April 5, 2014

Faculty Mentor: Dr. Margaret Floress      Psychology

**Teacher Praise in General Education Classroom**

*Brianne Dennis-Gary*

33rd Annual MAUPRC, Crestview Hills, Kentucky      April 5, 2014

Faculty Mentor: Dr. Margaret Floress      Psychology

**Historical (Mis)Representations of Amelia Earhart within Children's Literature**

*Dylan Dilley*

National Council of Undergraduate Research (NCUR) Conference  
April 3-5, 2014

Faculty Mentor: Dr. John Bickford  
Early Childhood, Elementary, and Middle Level Education

**Weather Broadcast Critique by National Weather Association**

*Jessica Dixon*

National Weather Association Conference, Charleston, SC      October 2013

Faculty Mentor: Dr. Cameron Craig      Geography

**The Effect of Listening to Music on Extraverted and Introverted Students while Performing College Level Cognitive Tasks**

*Kyle Dombrowski*

33rd Annual MAUPRC, Crestview Hills, Kentucky      April 5, 2014

Faculty Mentor: Dr. Ronon Bernas      Psychology

**Structure Determination of H<sub>2</sub>C=CHF···H<sub>2</sub>C=CF<sub>2</sub> by Fourier-Transform Microwave Spectroscopy**

*Rachel Dorris, Cori L. Christenholz*

National Conference on Undergraduate Research (NCUR) Conference, April  
3-5, 2014

Faculty Mentors: Dr. Rebecca Peebles, Dr. Sean Peebles      Chemistry