2011 Graduate Student Research Conference  
Saturday, March 26  
Holmes Student Center

8:00 - 9:00 a.m.  
Continental Breakfast Chat: Lisa Freeman  
Vice President for Research and Graduate Studies, NIU  
Capitol Room

9:15 - 11:00 a.m.  
Poster Fair  
Regency Room

Poster 1:  
**Computation of common normal for singular configuration of wheel and rail surfaces**  
Vahid Bateni (Department of Mechanical Engineering)

Poster 2:  
**Capacitive gas sensor using platinum nano wires**  
Suresh Babu Vunnam (Department of Electrical Engineering)

Poster 3:  
**Babel-17: The role of language in forming identity**  
Andrea Fryling (Department of English)

Poster 4:  
**Metacognition: An exploratory study on the relationship to comprehension at the postsecondary level**  
Rebecca L. Vaughn (Department of Curriculum and Instruction)

Poster 5:  
**Multiple-channel hybrid active noise control system with infant cry detection for infant incubators**  
Kapila Devi Beemanpally (Department of Electrical Engineering)

Poster 6:  
**Improvement upon 3-D iterative methodology using commercial CFD code for flow scour around circular bridge piers**  
Chris Edwards (Department of Mechanical Engineering)

Poster 7:  
**Synthesis of six-bar mechanism for rectilinear motion**  
Perla Arjun Kumar (Department of Mechanical Engineering)

Poster 8:  
**Transmitting the Ramayana epic from India to Southeast Asia and the west through shadow puppetry and visual art**  
Siew Lian Lim (School of Art)

Poster 9:  
**Study of some entropy-based preprocessing techniques for automatic epileptic seizure detection using neural networks**  
Pooya Eslami & Mansour Tahernezhadi (Department of Electrical Engineering)

Poster 10:  
**Elementary school students’ emotions and motivation towards high-stakes tests**  
Lauren Story & Cedrick Dortch (Department of Leadership, Educational Psychology and Foundations)

Poster 11:  
**Fully automated pneumatic conveying system for biomass reactor**  
Matthew E. DiCianni (Department of Mechanical Engineering)

Poster 12:  
**Investigating fiber-coupled diode laser-assisted machining of silicon nitride: A brief review of current progress**  
Michael J. Matusky & Federico M. Sciammarella (Department of Mechanical Engineering)

Poster 13:  
**Experimental development of a micro scale forming limit model for stainless steel 439**  
Kevin Yahiro (Department of Mechanical Engineering)

Poster 14:  
**Snore ANC systems using pillow setup with obstructive sleep apnea detection**  
Karunakar Reddy Pottim (Department of Electrical Engineering)

Poster 15:  
**An investigation of the heat transfer of rotating jets impinging inside a cylinder**  
William J. Damhoff (Department of Mechanical Engineering)

Poster 16:  
**Ego and racial Identity development and counselors’ professional identity and recognition of racial microaggressions: Implications of multiculturalism and social justice**  
Malik Raheem (Department of Counseling and Adult Higher Education)
Poster 17: Measuring adolescents’ perceptions of sibling social support
Molly McDade & Dr. Christine Malecki (Department of Psychology)

Poster 18: EPIC muon cooling simulations using COSY INFINITY
James A. Maloney (Department of Physics)

Poster 19: Human-canine attachment and freshmen student perception of college adjustment
Camille King (College of Education)

Poster 20: Theory of transitional learning in HRD: Why adult learning styles are important among a multi-generational workforce
Larry D. Weas (Department of Counseling, Adult & Higher Education)

Poster 21: An implementation of the fast multipole method for high accuracy particle tracking of intense beams
Edward Nissen & Bela Erdelyi (Department of Physics)

Poster 22: Literacy instruction for students with significant cognitive disabilities: What two special educators know and do
Denise Thrasher (Department of Teaching and Learning)

Poster 23: Predicting college aspirations of high school students
Tawanda D. Gipson (Department of Educational Technology, Research, and Assessment)

Poster 24: Comparing the efficiency and effectiveness of two video fading procedures for teaching students with developmental disabilities daily living skills
Anna Brady, Toni Van Laarhoven, Jesse Johnson, & Lynette Chandler (Department of Teaching and Learning)

Poster 25: Cross-linguistic generalization in treatment of bilingual aphasia
Christina T. Padilla (School of Allied Health and Communicative Disorders)

Poster 26: Using technology to study task-oriented reading comprehension
Karyn Higgs, Joe Magliano, Eduardo Vidal-Abcar, & Danielle S. McNamara (Department Psychology)

Poster 27: Investigation of the thermal characteristics of batteries for use in hybrid locomotives
Andrew J. Arendas & Jalaj Bidwai (Department of Mechanical Engineering)

Poster 28: Expected vs. actual outcomes of dating violence: Perspectives from female perpetrators
Andrew M. Sherrill, Nicole Wynnarden, & Kathryn M. Bell (Department of Psychology)

Poster 29: Relationship between occupational identity and sex on fear of success: Among Iranian university students
Beheshteh Abdi & Mehrnaz Shahararay (Department of Leadership, Educational Psychology and Foundations)

Poster 30: Gender differences in social skills, problem behaviors and academic competence of Iranian kindergarten children based on their parent and teacher rating
Beheshteh Abdi (Department of Leadership, Educational Psychology and Foundations)

Poster 31: Filling in the gaps: Processing ellipsis in visual narratives
Kristopher J. Kopp, Joseph P. Magliano, & David N. Rapp (Department of Psychology)

10:45 - 12:00 Paper Sessions

Linear Room

Paper session 1A: Science education and student learning experiences
Chair: Professor Stephen Tonks, Program in Educational Psychology

Papers:
- Instructor initiated humor and the cognitive engagement of high school science students
  Diana J. Zaleski & Elena Lyutykh (Department of Leadership, Educational Psychology and Foundations)
- The indirect effect of National Board certified teachers on the cognitive engagement of high school science students using a multilevel mediation model
  Diana J. Zaleski (Department of Leadership, Educational Psychology and Foundations)
- Exploring the role of teacher support on students’ academic engagement, success, and anxiety in science
  Anna D. Strati (Department of Leadership, Educational Psychology and Foundations)

Respondent: Brett Anderson, Program in Educational Psychology

Paper session 1B: Humanities and the arts — Musical meanings
Chair: Kristopher Kopp, Program in Cognitive Psychology

Illinois Room South

Papers:
- Examining conceptions of self and musical meaning in trance ritual
  Joseph M. Kinzer (Department of Music)
- When a tornado meets a volcano: Eminem, Rihanna, and the cycle of domestic violence
  Renee M. Powers (Department of Communication Studies)
- Musical identity and biography: The cases of Fanny Mendelssohn Hensel and Clara Wieck Schumann
  Jennifer Griffin (Department of Music)

Respondent: Janet Hathaway, School of Music
Noon - 1:00 p.m. Lunch
(Note: Limited to the first 100 online registrants -- check your badge!) Sky Room 16th Floor

1:15 - 2:15 p.m. Keynote Address
Daniel Gebo, Board of Trustees’ Professor & Presidential Research Professor
Department of Anthropology, NIU
“A Career in Science” Capitol Room

2:30 - 3:45 p.m. Paper sessions
Paper Session 2A: Public policy and law
Chair: Pavi Walker, College of Law
Lincoln Room

Papers:
- Social capital and the college campus: An examination of the effects of group membership on participation in a student organization
  Ben Gross (Department of Political Science)
- The global warming nuisance: Why a climate change action predicated on a public nuisance theory would survive the pleading stages under Illinois nuisance law
  Bryan Thompson (College of Law)
- In search of science: The democratic peace as a general law of political science
  Joseph Scanlon (Department of Political Science)

Respondent: Professor Therese Clarke Arado, College of Law

Paper session 2B: Culture and language
Chair: Diana Zaleski, Program in Educational Psychology

Papers:
- Hispanic sense of self: A study focusing on the relationship between the educational experience of a bilingual (Spanish/English) bicultural student and sense of self
  Pamela C. Bolinger (Department of Leadership, Educational Psychology & Foundations)
- Cross-continental collaboration activity systems analysis
  LanHui Ryder (Department of Educational Technology, Research & Assessment)
- The interaction between bilingual (Spanish/English) program assistants and bilingual (Spanish/English) special needs children
  Pamela C. Bolinger (Department of Educational Psychology)
- The role of visual complexity and semantic radicals in the acquisition of Chinese characters among young children
  Ying Li & Li-Jen Kuo (Department of Leadership, Educational Psychology and Foundations)

Respondent: Julia Spears, Provost’s Office

Paper session 2C: Special populations, unique problems
Chair: Liz Rex, Art Education

Papers:
- Implementation analysis for multimedia training in child welfare agencies
  Robin Wyatt (Department of Educational Technology, Research & Assessment)
- Damned if you do, damned if you don’t: The perceived effects of the double bind on female head coaches and coaching efficacy of masculine and feminine sports
  Heather N. Samariniotis & Thomas J. Aicher (Department of Kinesiology & Physical Education and Women’s Studies)
- Survey of sex education programs in American residential schools for students who are blind or visually impaired
  Meghan Fredel (Department of Teaching and Learning)

Respondent: Professor Carolyn Vander Schee, Program in Educational Foundations

4:00 - 5:00 p.m. Workshop 1: Grant-writing to find funding for graduate study
Andrea Buford, Office of Sponsored Projects, NIU Illinois Room North

Workshop 2: Popular ways of online communication and their incorporation into teaching ESL/EFL: Ideas for using Skype and Facebook
Elena Doludenko & Tatiana Kaledina, English Department Illinois Room South
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Take your Conference program or show your Conference badge and get a discount on a sandwich and drink for lunch at the HSC Subway location, downstairs, on the day of the Conference.

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Conference Planning & Budget
Martí Jernberg, Office of External Programs, College of Education

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