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

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

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 Tahernejadhi (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. Matsuy & 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 Roarhoven, 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-Abarca, & 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 Wyngarden, & Kathryn M. Bell [Department of Psychology]

Poster 29: Relationship between occupational identity and sex on fear of success: Among Iranian university students
Behesteh Abdi & Mehrnaz Shahrawray [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
Behesteh 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  Lincoln 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**  Illinois Room South
Chair: Kristopher Kopp, Program in Cognitive Psychology

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  
(Skay 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  
(Illinois Room North)  

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  
(Illinois Room South)  

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)
Graduate Student Research Association

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

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