

**Northeastern Illinois University and
The College of Arts and Sciences**

Present

**NINETEENTH ANNUAL
STUDENT RESEARCH AND
CREATIVE ACTIVITIES SYMPOSIUM**

April 15, 2011



SYMPOSIUM PROGRAM

8:00 – 8:30 AM Registration/Coffee
Student Union, Second Floor

8:30 – 8:50 AM Program Commencement
Alumni Hall

Welcome and Introduction
Dr. John Albazi, Symposium Coordinator

Greetings
Dr. Sharon K. Hahs, President
Northeastern Illinois University

Participants

College of Arts and Sciences
College of Business and Management
College of Education
Graduate College
University Honors Program
McNair Scholars Program
Student Center for Science Engagement

Symposium Steering Committee Members

Rachel Adeodu, College of Education
John Albazi, College of Arts and Sciences
Stephanie Levi, Student Center for Science Engagement
Kristen Over, Honors Program
David Rutschman, College of Arts and Sciences
Kimberly Sanborn, Graduate College and McNair Scholars Program
Rose Sperrazza, Creative Activities
Sundaram Dorai, College of Business & Management

This year's Symposium is sponsored by the Office of Academic Affairs, the College of Arts and Sciences, and the NEIU Foundation.

CREATIVE ACTIVITIES

Student Union 115 (Alumni Hall)

Presiding: Rose Sperrazza, Music and Dance

**Discussants: Dr. Kimberly Ambriz, Art, Dr. Peter Chang, Music,
Dr. Robert Heitzinger, Music, and Dr. Vida Sacic, Art**

- 9:00 AM "THE DEVELOPMENT OF A CONCEPT: INTERPRETING GIOTTO'S VIRTUES AND VICES", Juan P. Montesinos (Art), Dr. Kimberly Ambriz*, Art, Dr. William B. Sieger*, Art
- 9:20 AM "EXPRESSIVE MAPPING: EXPLORING THE INTERSECTION BETWEEN PRINTMAKING AND URBAN GEOGRAPHY", Todd Irwin (Art), Dr. Kimberly Ambriz*, Art
- 9:40 AM "THE RISE AND FALL OF HELIOCENTRIC LABS: An Interdisciplinary Approach to Utilizing Culture Jamming as a Means for Social Criticism", Emily Claire Tamblyn (Art), Dr. Kimberly Ambriz*, Art, Dr. Kristin Over*, University Honors Program
- 10:00 AM "COMPASSION – THE PSYCHOLOGY OF SOCIAL EMOTION EXPRESSED IN A WORK OF ART", Marta Jelen (Psychology), Dr. Linda Rueckert*, Psychology
- 10:20 AM "THE POLITICS OF OPERA: THE *VIRGIL CAINE* OPERA PROJECT", Edward A. Voci (Political Science), Dr. Frank Brooks*, Political Science
- 10:40 AM "REGARDING THE MOUTHS OF MONSTERS: FROM SOFT SCULPTURE TO SCREENPRINT," Victor K. Huang (Art), Dr. Kimberly Ambriz*, Art
- 11:00 AM "STYLE TRANSFORMATION," Miguel A. Del Real (Art), Dr. Kimberly Ambriz*, Art
- 11:20 AM "SELF-EVOLUTION IN ART," Jacqueline Hochbaum (Art), Dr. Kimberly Ambriz*, Art
- 11:40 PM "VIRTUOSO INSTRUMENTAL MUSIC OF THE 16TH – 17TH CENTURIES: ADAPTING "BASTARDA" TECHNIQUE TO THE CLARINET," Kurt Bjorling (Music), Dr. Rose Sperrazza*, Music

RESEARCH PRESENTATIONS

Section 1

Student Union 003

Presiding Before Break: Dr. Sundaram Dorai, College of Business & Management

**Discussants: Dr. Chunwei Xian, Accounting Business Law Finance, and
Dr. Marie-Elene Roberge, Management and Marketing**

- 9:00 AM "THE EFFECT OF SARBANES–OXLEY SECTION 302 ON THE ACCOUNTING EARNINGS QUALITY", Yibo Li (Accounting), Dr. Essam Elshafie*, Accounting Business Law Finance
- 9:20 AM "A NATIONAL CONFIGURATION APPROACH TO CROSS-BORDER NON-EQUITY ALLIANCE FORMATION", Paul S. Baltrusaitis (Management and Marketing), Erin E. Malloy (Management and Marketing), Dr. Charles A. Funk*, Management and Marketing
- 9:40 AM "NATIONAL DEBT AND EFFECT OF GOVERNMENT POLICIES ON HOUSEHOLDS", Aijana B. Abdyldeaeva (MBA), Dr. Alireza Dorestani*, Accounting, Business Law and Finance
- 10:00 AM "THE LEARNING STYLES THAT ARE IMPACTED BY CULTURAL BACKGROUND", Odontsetseg Sosorburam (MBA), Dr. Marie-Elene Roberge*, Management and Marketing
- 10:20 AM "THE EFFECT OF FINANCIAL AID TYPE ON STUDENT RETENTION AND ACADEMIC PERFORMANCE AT NORTHEASTERN ILLINOIS UNIVERSITY", Ralph Gozun (Economics), Vincent Thomas (Economics), Ronald Yuen (Economics), Dr. Michael Wenz*, Economics, Dr. Ryan Gallagher*, Economics

Section 2

Student Union 003

Presiding: Dr. Netiva Caftori, Computer Science

Discussants: Dr. Marcelo Sztainberg, Computer Science, Dr. Peter Kimmel, Computer Science

- 11:00 AM "ONLINE ADVERTISING AT ITS "BEST", Plamen Patarinski (Computer Science), Dr. Peter Kimmel*, Computer Science
- 11:20 PM GAINING LOCAL ACCESS TO WIRELESS NETWORKS: VULNERABILITIES IN THE WEP RC4 STREAM CIPHER", Jonathan Zevallos (Computer Science), Dr. Netiva Caftori*, Computer Science
- 11:40 PM "PROTECTING AGAINST IDENTITY THEFT", Relu I. Jianu (Computer Science), Dr. Christina Georgakis*, Computer Science

- 12:00 PM “COMPUTER VIRUS EVOLUTION AS A PEDAGOGUE: Evolution of Computer Viruses Enabling the Co-evolution of Antivirus and Other Beneficial Applications”, Thiruchelvan Selvanayagam (Computer Science), Dr.K.Sotak*, Computer Science, Dr. Kristen Over* (University Honors Program)
- 12:20 PM “COMPUTERS, CYBER-CRIMES AND WOMEN IN LAW ENFORCEMENT”, Marco La Puma, (Computer Science), Dr. Netiva Caftori*, Computer Science

Section 3

Student Union 103 (Golden Eagles Room)

Presiding: Dr. Saba Ayman-Nolley, Psychology

Discussants before break: Dr. Chris Merchant, Psychology, and Dr. Greg Dam, Psychology (NU-START Fellow from Northwestern University)

Discussants after break: Dr. Lisa Hollis-Sawyer, Psychology, and Dr. Kevin A. Corcoran, Psychiatry and Behavioral Sciences (NU-START Fellow from Northwestern University)

- 9:00 AM “DISCRIMINATIVE PROCESSES INVOLVED IN EMPATHY”, Marta Jelen (Psychology), Dr. Linda Rueckert*, Psychology
- 9:20 AM “ATTRACTIVENESS AND GENDER DIFFERENCES IN JEALOUSY”, Crystal Ann Kusnierz (Psychology), Dr. Linda Rueckert*, Psychology
- 9:40 AM “VARIATION IN CHILDREN’S GRAPHIC PORTRAYAL OF FRIENDSHIP ACROSS AUTISM SEVERITY AND MAINSTREAMING”, Ramon W. Viera (Psychology/University Honors Program), Resney Gugwor (Psychology), Dr. Saba Ayman-Nolley*, Psychology, Dr. Kimberly Sanborn*, McNair Scholars Program
- 10:00 AM “EFFECTS OF INSTRUCTION TYPE ON CHILDREN’S FRUSTRATION LEVEL DURING LEARNING”, Lisa M. Emmons (Psychology), Luis G. San Roman (Psychology), Regina R. Hale (Psychology), Diana Hernandez (Psychology), Dr. Breckie Church*, Psychology
- 10:20 AM “THE EFFECTS OF GESTURE ON LEARNING AND IMITATION”, Christine Cusack (Psychology/University Honors Program), Brittany Lingen (Psychology), Ninos Khnanisho (Psychology), Daron Teske (Psychology), Dr. Breckie Church*, Psychology
- 10:40 AM “HOW LEARNING MATH EFFECTS SELF-ESTEEM OF CHILDREN”, Jaclyn R. Lee (Psychology), Gloria Ramos (Psychology), Monica K. Glass (Psychology), Dr. Breckie Church*, Psychology
- 11:00 AM Break
- 11:20 AM “LENDING A HELPING HAND: THE INFLUENCE OF GESTURE ON MATH INSTRUCTION IN CHILDREN”, Mary Breunig (Psychology/Philosophy), Jessica Mendez (Psychology), James Poyhonen (Psychology/Anthropology), Jenn Ross

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- (Psychology/Philosophy), Dr. Breckie Church*, Psychology
- 11:40 AM “ESL: A RESTROSPECTIVE STUDY”, Susan M. Balsitis (Psychology), Raymond L. Ilagan (Psychology), Dr. Maureen Erber*, Psychology, Dr. Therese Schuepfer*, Psychology
- 12:00 PM “VERBAL AND NONVERBAL COMMUNICATION: WHICH TELLS THE RICHER STORY?”, Christopher M. Bennett (Psychology), Dr. Saba Ayman-Nolley*, Psychology
- 12:20 PM “INFLUENCE OF THE GROUP SETTING ON INDIVIDUAL DECISION MAKING PROCESSES”, Stacey M. Feeley (Psychology), Dr. Amanda Dykema-Engblade* (Psychology), Dr. Kristen Over*, University Honors Program

Section 4
Student Union 123
Mandan Nominal Structure
Presiding: Dr. Lewis Gebhardt, Linguistics

- 11:20 AM RELATIVE MARKERS: THE DISTRIBUTION OF ko-, ka- AND NOMINALIZING o-” Osama A. Mohamed (Masters Program in Linguistics), Dr. John P. Boyle*, Linguistics
- 11:40 AM “ALTERNATE NOUN INCORPORATION IN MANDAN” Christina A. Warren (Linguistics), Dr. John P. Boyle*, Linguistics
- 12:00 PM “POSITIONALS AS NOMINAL MODIFIERS” Ashley B. Carter (Masters Program in Linguistics), Dr. John P. Boyle*, Linguistics
- 12:20 PM “THE SYNTAX OF PRONOMINAL PREFIXES IN MANDAN” George Wilmes (Masters Program in Linguistics), Dr. John P. Boyle*, Linguistics
- 12:40 PM “NEGATION IN MANDAN” Emily J. Lee (Masters Program in Linguistics), Dr. John P. Boyle*, Linguistics

Section 5
Student Union 124
Presiding: Dr. Kristen Over, English and University Honors Program
Discussants before break: Dr. Marit Vamarasi, TESL, Dr. Teddy Bofman, English Language Program, Dr. Timothy Barnett, English
Discussants after break: Dr. Ryan Poll, English, Dr. Sarah Hoagland, Philosophy

- 9:00 AM “TIBETAN USE OF FORMAL & INFORMAL LEXICONS IN AMERICA”, Susan L. Berkman (TESL), Dr. Lawrence Berlin*, Anthropology, Philosophy, and TESL

- 9:20 AM "THE IMPACT OF FIRST LANGUAGE LITERACY ON GENERATION 1.5 ACADEMIC WRITING AND ITS IMPLICATIONS FOR TEACHING WRITING", Kum Young Lee (TESL), Dr. Jeanine Ntihirageza*, English Language Program
- 9:40 AM "BRIDGING THE GAP: THE IMPORTANCE OF MEETING THE "MILLENNIAL" IN THEIR ARENA", Matthew M. Corbin (English), Dr. Marcia Buell*, English
- 10:00 AM "THE PRAGMATIC ACT OF SELLING: ADAPTING THE NEW SCRIPT", Denitsa Gencheva (TESL), Dr. Lawrence N. Berlin*, Anthropology, Philosophy and TESL
- 10:20 AM "THE DANTEAN EPIC'S RELEVANCE TO *BATTLESTAR GALACTICA*", Carolyn S. Aquila (Interdisciplinary Studies), Dr. Bradley Greenburg*, English, Dr. Kristen Over*, University Honors Program
- 10:40 AM "VISIONS OF MARITAL SLAVERY IN WILLIAM BLAKE'S *THE VISIONS OF THE DAUGHTERS OF ALBION*", Don Carroll (English), Dr. Thomas Hoberg*, English
- 11:00 AM Break
- 11:20 AM "THE EVOLUTION OF LITERARY ETHICS", Aaron J. Leiva (English), Dr. Ryan Poll*, English
- 11:40 AM "THE ILLUSIVE STORY", David J. Czarnecki II (Philosophy/Political Science), Dr. John Casey*, Philosophy
- 12:00 PM "WHO IS MY NEIGHBOR? A LITERARY PRAGMATIC READING OF LUKE 10: 25-37", Boaliang (Stephen) Wang (TESL), Dr. Lawrence N. Berlin*, Anthropology, Philosophy, and TESL
- 12:20 PM "BODIES, TEXTS, AND CONTEXTS: DIAGNOSING DISSENT & WRITING REVOLUTIONS", Amanda S. Respass [University Without Walls (Women's Health Communications)], Dr. Tracy Luedke*, Anthropology, Dr. Kristin Over*, University Honors Program

Section 6

Student Union 214

Discourse and Identity

Presiding: Dr. Judith Kaplan-Weinger, Linguistics

Discussants: Dr. Richard Hallett, Linguistics, and Dr. Shahrzad Mahootian, Linguistics

- 9:00 AM "ADDRESSING LOSS IN THE URBAN CLASSROOM THROUGH STUDENT NARRATIVES" Stacey L. Krueger (Masters Program in Linguistics), Dr. Judith Kaplan-Weinger*, Linguistics
- 9:20 AM "FEAR OF UNRAVELING: THE SWEATER CURSE OF MODERN FOLKLORE" Luke Herman (Masters Program in Linguistics), Dr. Judith Kaplan-Weinger*, Linguistics

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- 9:40 AM "SOCIAL AND PRAGMATIC FUNCTIONS OF CODESWITCHING IN A WINE TASTING COMMUNITY" Julienne M. Ricker (Masters Program in Linguistics), Dr. Judith Kaplan-Weinger*, Linguistics
- 10:00 AM "BILINGUAL LINGUISTIC IDENTITY: THE CONNECTION BETWEEN FLUENCY, LANGUAGE CHOICE AND IDENTITY PREFERENCE" Sarah A. Konet (Masters Program in Linguistics), Dr. Richard Hallett*, Linguistics, Dr. Shahrzad Mahootian*, Linguistics
- 10:20 AM "AN ETHNOGRAPHIC ANALYSIS OF KALIARDA: THE GREEK GAY VARIETY" Galini V. Gkartzonika (Masters Program in Linguistics), Dr. Judith Kaplan-Weinger*, Linguistics
- 10:40 AM "POLISH IN A WESTERN WORLD: THE EFFECT OF ENGLISH ON THE POLISH LANGUAGE" Tomas Mocon (Masters Program in Linguistics), Dr. Richard Hallett*, Linguistics
- 11:00 AM Break
- 11:20 AM "EMBEDDED SOFTWARE ENGINEER SPEECH COMMUNITIE'S USE OF PROVERBS" Liz Tello (Masters Program in Linguistics), Dr. Judith Kaplan-Weinger*, Linguistics
- 11:40 AM "HOW TO PLAY: TABOO AND EUPHEMISM IN A COMMUNITY OF GAMERS" Claire T. Wuellner (Masters Program in Linguistics), Dr. Judith Kaplan-Weinger*, Linguistics
- 12:00 PM "THE APPLICATION OF LINGUISTIC THEORY TO BRAND MARKETING" Sean Smith (Masters Program in Linguistics), Dr. Judith Kaplan-Weinger*, Linguistics
- 12:20 PM "IDENTITY CONSTRUCTION IN COLLEGE WRITING AND FACEBOOK: A COMPARATIVE CASE STUDY OF LITERACY AND IDENTITY" Abby Lee Foster (Masters Program in English), Dr. Richard Hallett*, Linguistics
- 12:40 PM "PRAY WHAT YOU MEAN: BALANCING INTEGRITY OF BELIEF AND CONTINUITY OF TRADITION IN A SECULAR HUMANISTIC JEWISH CONGREGATION" Zachary N. Gordon and Erica Sosa (Linguistics and Masters Program in Linguistics), Dr. Judith Kaplan-Weinger*, Linguistics

Section 7
Student Union 215
Mandan Verbal Morphemes and Narrative Structure
Presiding: Dr. John P. Boyle, Linguistics
Discussant: Dr. Lewis Gebhardt, Linguistics

- 9:00 AM "IDENTIFICATION AND POSITION OF MODAL SUFFIXES IN MANDAN" Philip C. Alley (Masters Program in Linguistics), Dr. John P. Boyle*, Linguistics

- 9:20 AM "THE DISTRIBUTION OF FUTURE TENSE IN MANDAN" Charamphorn Preedee (Masters Program in Linguistics), Dr. John P. Boyle*, Linguistics
- 9:40 AM "THREE PUZZLING MANDAN SUFFIXES" Silvana K. Torres (Masters Program in Linguistics), Dr. John P. Boyle*, Linguistics
- 10:00 AM "EVIDENTIALS, ILLOCUTIONARY FORCE, AND THE COMPLEMENTIZER PHRASE IN MANDAN" Zachary N. Gordon (Linguistics), Dr. John P. Boyle*, Linguistics
- 10:20 AM "DIFFERENTIATED USAGE OF THE NARRATIVE PAST MORPHEME IN MANDAN" Elizabeth Papanastasopoulous (Masters Program in Linguistics), Dr. John P. Boyle*, Linguistics
- 10:40 AM "THE KEY TO *-ki-*: VERTITIVITY IN MANDAN VERBS" Ryan M. Kasak (Masters Program in Linguistics), Dr. John P. Boyle*, Linguistics
- 11:00 AM Break
- 11:20 AM "SENTENCE CONNECTIVES FROM KENNARD'S MANDAN TEXTS" Amanda Walz (Masters Program in Linguistics), Dr. John P. Boyle*, Linguistics
- 11:40 AM "THE SEMANTICS OF CONNECTIVES IN MANDAN MORPHO-DISOURSE" Alexandrina G. Danis (Masters Program in Linguistics), Dr. John P. Boyle*, Linguistics
- 12:00 PM "THE SEMANTICS OF SR BEARING MORPHEMES IN MANDAN SENTENCE CONNECTIVES" Mark C. Gunter (Linguistics), Dr. John P. Boyle*, Linguistics
- 12:20 PM "MANDAN NARRATIVE STRUCTURE AND THE LABOVIAN MODEL" Tania D. Moaton (Linguistics), Dr. John P. Boyle*, Linguistics
- 12:40 PM "A GRAMMATICAL AND SOCIOLINGUISTIC ANALYSIS OF THE F-WORD" Ashley E. Beyer (Linguistics), Dr. John P. Boyle, Linguistics, Dr. Kristen Over*, University Honors Program

Section 8

Student Union 216

Presiding: Dr. Rachel Adeodu, College of Education

Discussants: Dr. Eleni Makris, Educational Inquiry and Curriculum Studies Department, and Dr. Selina Mushi, Teacher Education Department

- 9:00 AM "AN ASSESSMENT OF THE IMPACT OF LEARNING ENVIRONMENTS AND LEARNING STYLES ON GIFTED STUDENTS' LEVELS OF PERFORMANCE", Amy J. Sosnowski (Gifted Education), Dr. Michele Kane* Special Education, Dr. Rima Binder*, Special Education
- 9:20 AM "ADA LOVELACE AND "POETICAL SCIENCE": EFFECT OF THE COGNITIVE/AFFECTIVE DICHOTOMY ON THE DEVELOPMENT OF A

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CREATIVELY GIFTED INDIVIDUAL”, Elina P. Hayosh (Gifted Education), Dr. Michele Kane*, Ed. D., Special Education

- 9:40 AM “THE EFFECTS OF VIDEO GAME PLAYING ON LEARNING”, Robert L. Colbert (Psychology), Sandra Duran (Psychology), Anny K. Suarez (Psychology), Laura J. Quiros (Psychology), Michael D. Weinstein, (Psychology), Dr. Breckie B. Church*, Psychology
- 10:00 AM “LUNCH AND LEARNING”, Michelle M. Negrillo (Psychology), Kimberley J. Louis (Psychology), Daniel Dorenbos (Psychology), Jessica C. Urbina (Psychology), Dr. Breckie Church*, Psychology
- 10:20 AM “CHICAGO LATINO’S ATTAINMENT OF HIGHER EDUCATION POST INCARCERATION; THE CHICAGO LOCKDOWN”, Pearl Martinez (Bi-lingual / Bi-Cultural Elementary Education), Dr. Gabriel Cortez*, ELAD, Dr. Kristen Over* (University Honors Program), Dr. Kim Sanborn*, McNair Scholars Program
- 10:40 AM “INTERNATIONAL EXPERIENCES; RECRUITMENT, APPLICATIONS, ORIENTATION, EXPERIENCE ABROAD, REFLECTION AFTER RETURNING”, Elsy Guerra (Early Childhood Education), Fatima Alvi (Early Childhood Education), Hayriye Guzin Kaptan (Early Childhood Education), Dr. Elizabeth Landerholm*, Teacher Education, Early Childhood Education Program
- 11:00 AM Break
- 11:20 AM “ADVANCING HIGH SCHOOL BIOLOGY CURRICULUM THROUGH RECOMBINANT DNA TECHNOLOGY”, Selina A. Phan (Biology and Secondary Education), Neelima A. Kurian (Biology and Secondary Education), Dr. Aaron E. Schirmer*, Biology
- 11:40 AM “GENDER-NEUTRAL LANGUAGE ACROSS THE AGES”, Mary J. Ramirez (TESL), Dr. Marit Vamarasi*, TESL
- 12:00 PM “TEACHER ATTITUDES TOWARD MULTILINGUALISM IN THE CLASSROOM”, Ryan M. Kasak (Masters Program in Linguistics), Dr. Shahrzad Mahootian*, Linguistics

Section 9

Student Union 217

Presiding: Dr. Kimberly Sanborn, McNair Scholars Program

Discussants before break: Dr. Chris Toffolo, Justice Studies, and

Ms. Alejandra Prieto-Mendoza, McNair Scholars Program

Discussants after break: Dr. Jade Stanley, Social Work, and Dr. Durene Wheeler, Women’s Studies

- 9:00 AM “SURVEILLANCE IN THE POST 9/11 AMERICAN NATIONAL SECURITY STATE: A HISTORIOGRAPHICAL STUDY OF THE CHANGES IN SURVEILLANCE LAW AND PRACTICE IN THE WAR ON TERROR”, Steven M. Roseman (Secondary Education, History), Dr. Leo Bacino*, History, Dr. Kristin Over*, University Honors Program

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- 9:20 AM "IS THERE A TIME DEPENDENT PATTERN IN THE FREQUENCY OF RELIGIOUS WORDS IN AL-QAEDA MESSAGES AND PRESS RELEASES?", Sotirios T. (Sam) Kolontouros (Physics), Dr. Karen Duchaj*, Linguistics
- 9:40 AM "ELIMINATION OF CRIME", Sylvia A Myslinski (Justice Studies and Philosophy), Dr. Dragan Milovanovic*, Justice Studies
- 10:00 AM "QUINNEY, LACAN AND CRIMINAL DISCOURSE", Michelle N. Cardiel (Justice Studies), Dr. Dragan Milovanovic*, Justice Studies, Dr. Kristen Over*, University Honors Program
- 10:20 AM "PROTECTION, PROFIT AND POWER: AN ARENDTIAN FRAMEWORK FOR UNDERSTANDING SECURITY IN COLOMBIA", Jeanette M. Hernandez (Philosophy and Political Science), Dr. Sophia Mihic*, Political Science, Dr. David Leaman*, Political Science
- 10:40 AM "ZERO-TOLERANCE AND IDENTITIES OF GANG AFFILIATION THROUGH ADOLESCENT NARRATIVES", Nicholas Georgopoulos (Linguistics), Dr. Judith Kaplan-Weinger*, Linguistics
- 11:00 AM Break
- 11:20 AM "THE IMPACT OF GANG VIOLENCE ON LATINAS", Julia Gutierrez (Women's Studies), Dr. Erica Meiners*, Women's Studies, Dr. Kim Sanborn*, McNair Scholars Program
- 11:40 AM "OUT OF FAITH: LGBTQ AFRICAN AMERICANS AND THEIR BARRIERS TO FAITH BASED COMMUNITY SERVICE", Lakeesha J. Harris (Women's Studies), Dr. Cynthia Barnes-Boyd*, UIC College of Urban Planning and Public Affairs, Dr. Laurie Fuller, Women's Studies, Dr. Kim Sanborn*, McNair Scholars Program
- 12:00 PM "AFRICAN-AMERICAN VERNACULAR ENGLISH AND ITS IMPLICATIONS FOR COLLEGE ACADEMIC WRITING", Courtney L. Francis (Linguistics), Dr. Jeanine Ntahirageza*, English Language Program
- 12:20 PM "NEGOTIATING SEXUALITY IN THE SECONDARY EDUCATION CLASSROOM", Mark C. Sujak (Sociology / Secondary Education – English), Dr. Erica Meiners*, Educational Inquiry and Curriculum Studies

Section 10
Student Union 218

Presiding: Dr. David Rutschman, College of Arts & Sciences

Discussants: Dr. Dennis Grammenos, Geography and Environmental Studies, Dr. Genet Ide Duke, Earth Science, Dr. Tom Weaver, Chemistry, and Dr. Javier Sanchez, Chemistry/Biology (NU-START Fellow from Northwestern University)

- 9:00 AM "A GREENHOUSE GAS INVENTORY OF NORTHEASTERN ILLINOIS UNIVERSITY, CHICAGO, ILLINOIS", Kate A. Ekman, Geography and Environmental Studies, Dr. Abhijit Banerjee*, Geography and Environmental Studies, Dr. Kristen Over*, University Honors Program
- 9:20 AM "ASSESSING PUBLIC AWARENESS AND GRASSROOTS OF LOCAL COAL PLANTS IN LITTLE VILLAGE", Brittany A. Harthan, Environmental Studies, Dr. David W. Jones*, Geography and Environmental Studies
- 9:40 AM "EFFECTS OF GASOLINE ADDITIVES ON AQUATIC SYSTEMS IN LAKE MICHIGAN HARBORS: A BIOGEOCHEMICAL STUDY", Matthew Deisinger (Biology), J. J. Mulliken (Earth Science), Sumitra Gurung (Biology), Steve Ryan (Chemistry), Jeny Semoon (Biology), Kristen Veldman (Chemistry), Dr. Pamela Geddes*, Biology, Dr. Kenneth T. Nicholson*, Chemistry, Dr. Aaron Schirmer*, Biology, Dr. Ken M. Voglesonger*, Earth Science
- 10:00 AM "SYNTHESIS AND CHARACTERIZATION OF NICKEL CATALYZED BORON NANOSTRUCTURES", Blair Sorenson (Chemistry), Francisco Lagunas (Chemistry), Dr. Michael Trenary (Department of Chemistry, University of Illinois at Chicago), Dr. Panchatapa Jash*, University of Illinois at Chicago
- 10:20 AM "METHOD DEVELOPMENT FOR THE ASSAY OF GATIFLOXACIN IN TEQUIN INJECTABLE PHARMACEUTICAL USING REVERSED-PHASE LIQUID CHROMATOGRAPHY", Adelf Alvarado (Chemistry), Dr. John Albazi*, Chemistry, Dr. Kimberly Sanborn*, McNair Scholars Program
- 10:40 AM "STABILITY-INDICATING METHOD DEVELOPMENT AND VALIDATION FOR THE DETERMINATION OF MILRINONE LACTATE IN RAW MATERIALS AND PHARMACEUTICAL DRUG PRODUCTS", Muhammad Hameed (Chemistry), Dr. John Albazi*, Chemistry
- 11:00 AM Break
- 11:20 AM "THE MOST DIVERSE PLACE IN CHICAGO", Jason LaBrosse (Geography and Environmental Studies), Nicholas Salender (Geography and Environmental Studies), Salvador Montes (Geography and Environmental Studies), Dr. Monika Mihir*, Geography and Environmental Studies
- 11:40 AM "A NUMERICAL APPROACH TO TEACHING THE FUNDAMENTAL THEOREM OF CALCULUS," Andrew J. Kaim (Mathematics), Dr. Lidia Filus, Mathematics
- 12:00 PM "PREDICTING TIPPING POINTS IN COMPLEX DYNAMICAL SYSTEMS: ESTIMATING STABILITY FROM TIME SERIES DATA", Rebecca M. Jones (Mathematics), Dr. Marian Gidea*, Mathematics

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**Section 11
Student Union 219**

**Presiding: Dr. Stephanie Levi, Student Center for Science Engagement
Discussants: Dr. Jon Hageman, Anthropology, Dr. Mary Kimble, Biology, Dr. Pamela Geddes, Biology, and Dr. Claire Honeycutt, Biology (NU-START Fellow from Northwestern University)**

- 9:00 AM "MOLECULAR AND MORPHOLOGICAL CHANGES IN DEVELOPMENT ASSOCIATED WITH ALTERATIONS IN 1-CARBON METABOLISM DURING THREE STAGES OF PREGNANCY (DAY 12, DAY 14, DAY 17) IN ICR MICE", Holly Hattaway (Biology), Adrian Zamora (Biology), Todd St. Hill (Biology), Rachel Brunner (Biology), Dragan Makovic (Biology), Sarada Abraham (Biology), Javier Davila (Biology), Rodrigo Javier (Biology), Dr. Mary Kimble*, Biology, Dr. T.K. Puryear*, Biology
- 9:20 AM "NOVEL MICROSATELLITE DNA PRIMER IN ENDANGERED LEEDY'S ROSEROOT PLANT", Agnieszka Kielar (Biology/University Honors Program), Adnan Ejupovic (Biology), Olivia Choi (Biology), Dr. Joe Olfelt*, Biology
- 9:40 AM "MOLECULAR AND BEHAVIORAL LINKS BETWEEN CIRCADIAN RHYTHMS AND ANXIETY DISORDERS", Nicole C. Woitowich (Biology), Dr. Aaron E. Schirmer*, Biology
- 10:00 AM "CIRCADIAN RHYTHMICITY OF LOCOMOTOR AND PREDATORY BEHAVIOR IN MANTIS, *SPHODROMANTIS LINEOLA*", Jessica M. Dominguez (Biology), Sarah M. Vorpahl (Chemistry), Dr. Frederick R. Prete*, Biology, Dr. Aaron Schirmer*, Biology
- 10:20 AM "FOLIC ACID SUPPLEMENTATION DURING PREGNANCY: BEHAVIORAL ALTERATIONS AND AUTISM SPECTRUM DISORDERS IN ICR MICE", Adrian Zamora (Biology), Holly Hattaway (Biology), Rachel Brunner (Biology), Dragan Makovic (Biology), Sarada Abraham (Biology), Todd St. Hill (Biology), Javier Davila (Biology), Rodrigo Javier (Biology), Dr. Mary Kimble* Biology, Dr. T.K. Puryear* Biology
- 10:40 AM "THE FIRST ANALYSIS OF BRAIN NEUROANATOMY IN THE PRAYING MANTIS", Sarah M. Vorpahl (Chemistry), Jessica M. Dominguez (Biology), Damien Laudier (Biology), Dr. Frederick R. Prete*, Biology
- 11:00 AM Break
- 11:20 AM "POPULATION DYNAMICS OF LEEDY'S ROSEROOT USING MOLECULAR MARKER DATA", Adnan Ejupović (Biology), Agnieszka Kielar (Biology/University Honors Program), Dr. Joel P. Olfelt*, Biology
- 11:40 AM "STABILITY-INDICATING METHOD DEVELOPMENT AND VALIDATION FOR DETERMINATION OF AMIODARONE HCl IN PHARMACEUTICAL DRUG PRODUCTS", Maria Wahab (Chemistry), Dr. John Albazi*, Chemistry
- 12:00 PM "DETERMINING LIGHT-INDUCED QUATERNARY STRUCTURAL CHANGES IN PHOTORECEPTORS", Alexandra C. Sakols (Chemistry), Sarah M. Vorpahl (Chemistry), Max S. Goldmeier (Chemistry), Dr. Emina A. Stojković*, Biology, Dr. Stefan Tsonchev*, Chemistry, Dr. Kenneth T. Nicholson*, Chemistry

POSTER PRESENTATIONS

LOBBY IN FRONT OF AUDITORIUM

10:00 to 11:00 am (Set-Up Period)

11:00 to 1:20 pm (Presentation Period)

Presiding: Dr. John Albazi, Chemistry and Dr. Paul Dolan, Physics

1. "RELATIONSHIP OF PARENTAL INVOLVEMENT AND STRESS ON CHILD'S BEHAVIOR AND SOCIAL COMPETENCY", Victoria A. Tullock (Psychology), Dr. Alvin Farmer*, Psychology
2. "INFLUENCE OF SHARED AND UNSHARED INFORMATION ON GROUP DECISION MAKING PROCESSES", Ana K. Gaytan (Psychology), Danielle Gallagher (Psychology), Stacey Feeley (Psychology), Dr. Amanda Dykema-Engblade* Psychology
3. "ARTISTS IN COMMUNITY ORGANIZING", Rehana S. Bukhari (Psychology), Vanessa Ogaldez (Psychology), Dr. Maureen W. Erber*, Psychology, Dr. Therese Schuepfer*, Psychology
4. "TEMPORAL SYNCHRONY IN GESTURE AND SPEECH", David A. Holcombe (Psychology), Dr. Breckie Church*, Psychology
5. "EFFECTS OF NICOTINE ON ZEBRAFISH OFFSPRING DEVELOPMENT", Bojan Slavnic (Psychology), Danielle Gallagher (Psychology), Kristen Graff (Psychology), Catherine Jurek (Psychology), Sarah Kosmin (Psychology /Philosophy), Dave Ryan (Psychology), Dr. Shannon Saszik*, Psychology
6. "EFFECTS OF CAFFEINE AND TAURINE IN ADULT ZEBRAFISH", Aleksandar Ostojic (Psychology), Curtis B. Hanawalt (Psychology), Omobolanle B. Martins (Psychology), Dr. Shannon Saszik*, Psychology
7. "EXPOSURE TO ETHANOL CREATES CHANGES IN THE EMBRYONIC DEVELOPMENT OF ZEBRAFISH", Jonathan Sacks (Psychology), Jenn Maciuba (Psychology), Christopher Mathis (Psychology), Stefanie Miller (Psychology), Aroma Jamal (Psychology), Netiva James (Psychology), Dr. Shannon Saszik*, Psychology
8. "PSYCHOLOGICALLY MOTIVATED PERCEPTION OF SCARCITY AS A FACTOR IN ZEBRAFISH DECISION MAKING", Eric Cesar (Psychology), Marta Jelen (Psychology), Wendy Ortiz (Psychology), Gloria Otero (Psychology), Leida A. Woodham (Psychology), Dr. Shannon Saszik*, Psychology
9. "IDENTIFYING NOVEL FLOURESCENT BIO-MARKERS", Rachael M. St. Peter (Biology), Cynthia N. Hernández (Biology), Dr. Emina A. Stojković, Biology
10. "STRUCTURAL AND SEQUENCE ANALYSES OF AN INFRARED FLUORESCENT TISSUE MARKER", Anna W. Baker (Biology), Daniel Salgado (Biology), John T. M. Kennis*, Biophysics Group, VU University, Amsterdam, the Netherlands, Dr. Emina A. Stojković*, Biology

11. "QUARTERNARY ARCHITECTURE OF A BACTERIAL PHOTORECEPTOR AS REVEALED BY SCANNING PROBE MICROSCOPY", Max S. Goldmeier (Chemistry), Alexandra C. Sakols (Chemistry), Huong Le (Chemistry), Anna Gawedzka (Chemistry/University Honors Program), Dr. Kenneth T. Nicholson*, Chemistry, Dr. Stefan Tsonchev*, Chemistry, Dr. Emina A. Stojković*, Biology
12. "FIRST NANOSCALE CHARACTERIZATION OF UNIQUE BACTERIAL PHOTORECEPTOR IN THE LIGHT-ADAPTED STATE", Sarah M. Vorpahl (Chemistry), Alexandra C. Sakols (Chemistry), Max S. Goldmeier (Chemistry), Dr. Emina A. Stojković*, Biology, Dr. Stefan Tsonchev*, Chemistry, Dr. Kenneth T. Nicholson*, Chemistry
13. "METHYLGLYOXAL CAUSES APOPTOSIS OF PC12 CELLS VIA OXIDATIVE DAMAGE", Nawaf Habib (Biology), Ganesh Sitarampalli (Chemistry), Dr. John Albazi*, Chemistry, Dr. Sue Mungre*, Biology
14. "DETERMINATION OF GLUTATHIONE IN PC-12 CELLS UNDER OXIDATIVE STRESS CONDITIONS USING A VALIDATED LIQUID CHROMATOGRAPHIC METHOD", Steven Ocampo (Chemistry), Ganesh K. Sittampalli (Chemistry), Nawaf Habid (Biology), Dr. John J. Albazi*, Chemistry, Dr. Sue Mungre*, Biology
15. "INVESTIGATION OF FIRST FLUSH PHENOMENON ON A CHANNELIZED URBAN STREAM USED FOR COMBINED SEWERAGE DISCHARGE", Robert C. Drapeau (Earth Science), Megan A. Murphy (Earth Science), Dr. Laura Sanders*, Earth Science
16. "MOODLEROOM: EDUCATIONAL & COLLABORATIVE GAINS", John T. Dao (Chemistry), Dr. Ana Fraiman* Chemistry
17. "ROLE OF DRY LAB SIMULATION IN REVERSED-PHASE GRADIENT ELUTION TECHNIQUE", Gayatri Thati (Chemistry), Dr. John Albazi*, Chemistry
18. "SOCIO-CULTURAL COMPARISONS ON THE REPORTING AND TREATMENT OF ANXIETY AND DEPRESSION IN COLLEGE STUDENTS IN THE UNITED STATES AND GHANA", Jamila R. Lang (Social Work), Dr. Job Ngwe*, Dr. Jade Stanley*, Social Work and African & African American Studies
19. "HAIR AS AN EXPRESSION OF CULTURAL PRIDE- PERSPECTIVES FROM JAMAICA, GHANA AND THE UNITED STATES", Marlene Julye (Social Work), Dr. Jade Stanley*, Social Work
20. "ALPHA PSI LAMBDA NORTHEASTERN ILLINOIS UNIVERSITY: A GREEK-LETTERED LATINO SERVING STUDENT ORGANIZATION AT A HISPANIC SERVING INSTITUTION", Jason Lee García (Higher Education and Leadership), Ángel Luis Vélez, (Higher Education and Leadership), Dr. Gabriel Cortez*, Department of Educational Leadership and Development
21. "HOUSEHOLD WEALTH IN THE LATINA/O COMMUNITY", Marla A. Mojica (Accounting), Dr. James D. Anderson*, Department of Educational Policy Studies, College of Education, University of Illinois Urbana-Champaign, Dr. Kristen Lee Over*, University Honors Program

22. "THE COST OF INEQUALITY: THE RELATIONSHIP BETWEEN SOCIAL SUPPORT AND MATERNAL PERCEPTIONS OF STRESS AMONG LOW-INCOME AFRICAN AMERICAN WOMEN", Latrese Annette Monden (Community Health and Wellness), Dr. Cynthia Barnes-Boyd*, UIC College of Urban Planning and Public Affairs, Dr. Jennifer Banas*, Department of Health, Physical Education, Recreation, and Athletics, Dr. Kimberly Sanborn*, McNair Scholars Program

The Symposium Committee would like to thank the following faculty members for serving as Presiders, Discussants, and/or Faculty Sponsors at the Nineteenth Annual Student Research and Creative Activities Symposium:

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MESSAGE FROM THE SYMPOSIUM STEERING COMMITTEE

The committee has several objectives in organizing the Symposium:

1. To provide undergraduate and graduate students who are engaged in research and creative activities an opportunity to interact with each other and present their works before an audience of their peers,
2. To provide a forum for highlighting the research accomplishments and creative activities at Northeastern Illinois University.
3. To encourage students to participate in research and creative activities and to pursue graduate study.
4. To promote and strengthen collaboration in research and creative activities among students and faculty.
5. To enhance communication in areas of student research and creative activities among the College of Arts and Science, Business Management, Education and the Graduate College.

The Committee hopes that you will enjoy the Symposium and share in the excitement of doing research and creative activities. We hope that you will be looking forward to participating in the 20th Annual Northeastern Illinois University Student Research and Creative Activities Symposium in the year 2012.