Northeastern Illinois University and
The College of Arts and Sciences

Present

TWENTY-THIRD ANNUAL
STUDENT RESEARCH AND
CREATIVE ACTIVITIES SYMPOSIUM

April 17, 2015
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
College of Graduate Studies and Research
Ronald Williams Library
University Honors Program
McNair Scholars Program
Student Center for Science Engagement

Symposium Steering Committee Members

John Albazi, College of Arts and Sciences
Sylvia Atsalis, Student Center for Science Engagement
Pamela Geddes, College of Arts and Sciences
Robert Heitzinger, Creative Activities
Kristen Lee Over, Honors Program
Rasoul Rezvanian, College of Business & Management
Kimberly Sanborn, Nontraditional Degree Programs
Mary Thill, Library
Angela Vidal-Rodriguez, McNair Scholars Program
Mickie Wong-Lo, College of Education
Nancy Wrinkle, College of Graduate Studies and Research
Chunwei Xian, Accounting Business Law Finance

This year’s Symposium is sponsored by the Office of Academic Affairs, the College of Arts and Sciences, and the Office of Institutional Advancement.
RESEARCH AND CREATIVE ACTIVITIES

FA-160 (Recital Hall, Fine Arts Building)
Presiding: Robert Heitzinger, Music
Discussants before break: William Sieger, Art
Discussants after break: William Sieger, Art and Christopher Owen, Music

9:00 AM  “SINGING TO SURVIVE: SIX ORIGINAL SONGS FROM JOSH FRIEDBERG,” Joshua D. Friedberg (English), Ryan Poll*, English

9:30 AM  “DAVID,” Nicholas J. Langenberg (English, University Honors Program), Julie Iromuanya*, English

9:50 AM  “MY CRAZY CHRISTIAN LIFE: STORIES ABOUT A COMING-OF-AGE CHRISTIAN FEMINIST,” Rebekah Troche, (English, University Honors Program), Julie Iromuanya*, English

10:10 AM  “MARGINALIZED INTENSITY: REPO MAN, PUNK ROCK, AND CULT FILM CULTURE,” Benjamin van Loon (Communication, Media & Theater), Shayne Pepper*, Communication, Media and Theater

10:30 AM  “LIFE AND MUSIC OF KAROL SZYMANOWSKI,” Konrad Pawelek (Music), Peter Chang*, Music

11:00 AM  BREAK

11:20 AM  “RACIAL AND ETHNIC MINORITY STUDENTS, AND BARRIERS TO STUDY ABROAD PARTICIPATION,” Francesca Miroballi (Communication, Media and Theatre), Shayne Pepper*, Communication, Media, and Theatre

11:40 AM  “THE PERVERTED SPECTATOR,” Kathryn L. Hudson, Benjamin Arakawa, (English), Olivia Cronk*, English

12:00 PM  “THE STATE OF SAMUEL BARBER RESEARCH IN THE 21ST CENTURY.” Sasha S. Rashidee (Music), Peter Chang*, Music

12:20 PM  “THE RUBBER MAN: ANONYMITY, GENDER PERFORMANCE AND SUBCULTURE IN AMERICAN HORROR STORY: MURDER HOUSE,” Samantha Stawiarski (Communication, Media and Theatre), Shayne Pepper*, Communication, Media and Theatre

(Presenter is underlined and Faculty Sponsor* is denoted by an asterisk)
RESEARCH PRESENTATIONS

Session 1
COBM 149 (College of Business and Management Building)
Presiding before break: Chunwei Xian, Accounting Business Law Finance
Discussants before break: Ai-Ru Yen, Accounting
Presiding after break: Rasoul Rezvanian, Accounting Business Law Finance
Discussants after break: Scott Hegerty, Economics

9:00 AM  “PREDICTING RETAIL THEFT USING ACCOUNTING, STATISTICS AND COMPUTER SCIENCE,” Daniel H Miller (Accounting), Chunwei Xian*, Accounting, Business Law, and Finance

9:20 AM  “DO ASSET PRICES INFLUENCE ECONOMIC GROWTH IN EMERGING ECONOMIES: A CASE STUDY OF INDIA,” John Muzzi, Jose Molina and Steven Barron (Economics), Hardik Marfatia*, Economics

9:40 AM  “POSITIVE LEADERSHIP APPROACH AS A FUTURE OF LEADERSHIP,” Klaudia Lewonczyk (MBA Candidate), Qaiser F. Waraich*, Management and Marketing

10:00 AM  “FORECASTING PERFORMANCE IN MAJOR LEAGUE BASEBALL,” Lucas Haupt (Economics), Michael Wenz*, Economics

11:00 AM  BREAK

11:20 AM  “ENERGY STORAGE INNOVATIONS,” George N. Mason (Nontraditional Degree Programs-Economics), Richard Schwinn*, Economics

11:40 AM  “MONETARY POLICY AND THE TAYLOR RULE ACROSS COUNTRIES,” Javier Robles, Undarmaa Batkhuyag and Ernesto Perez (Economics), Hardik A. Marfatia*, Economics

12:00 PM  “THE ILLINOIS SOLAR FIELD LP,” Michael Varga (Economics), Hardik Marfatia*, Economics.

Session 2
Student Union 003
Presiding: Angela Vidal - Rodriguez, McNair Scholars Program
Discussants before break: Luis Ortiz, Social Work, Jin Kim, Social Work
Discussants after break: Andrew Brake, Social Work, Job Ngwe, Social Work

9:00 AM  “LESBIAN, GAY, BISEXUAL, TRANS*, AND QUEER (LGBTQ) RELATIONSHIP CONFLICT AND SUPPORT,” Claire Y.Warne and Morgan D. Bielitzki (Social

9:40 AM  “THE IMPACT OF HOME DELIVERED MEALS PROGRAM ON SENIORS’ SELF-SUFFICIENCY AND NUTRITION IN CHICAGO,” Ciara Smith (Social Work), Angel Resto*, Social Work

10:00 AM  “CORRELATION BETWEEN MORTGAGE RE-DEFAULT RATES, LOSS OF EMPLOYMENT, AND FINANCIAL MANAGEMENT IN CHICAGO,” Kristin Warnock (Social Work), Angel Resto*, Social Work


11:00 AM  BREAK


12:20 PM  “THE PLEASURE OF GROWING OLD,” Peter Sipes (Linguistics), Richard Hallett*, Linguistics

---

**Session 3**

**Student Union 124**

**Presiding:** Kristen Lee Over, English and University Honors Program

**Discussants before break:** Tim Libretti, English

**Discussants after break:** Ryan Poll, English

9:00 AM  “BLOO …. ME? NO.”: EVADING LACAN’S “BUTTON TIE” IN JOYCE’S ULYSSES,” Mark C. Gunter (English, University Honors Program, McNair Scholar), Bradley Greenburg*, English
9:20 AM  “CREATING MONSTERS FROM CREATURES: EXPLORING DISABILITY AND DIFFERENCE IN MARY SHELLEY’S FRANKENSTEIN,” Aaron J. Leiva (English), Ryan H. Poll*, English

9:40 AM  “CIVILIZING THE DEAD,” Nicholas Jirsa (English), Kristen Lee Over*, English

10:00 AM  “LOVE HURTS IN THE MASSA’S HOUSE: AN EXPLORATION OF THE COMPLEXITY OF MASTER/SLAVE INTERRACIAL LIASONS AND THEIR EFFECTS ON THE DEVELOPMENT OF IDENTITY IN ENSLAVED WOMEN AND THEIR DESCENDANTS,” Yazin S. Musa (English), Julie Iromuanya*, English

10:20 AM  “SIGHT UNSEEN: THE INESCAPABLE LEGACY OF AFRICAN FOLKLORE TRADITION,” Keisha Price (English), Julie Iromuanya*, English

10:40 AM  “THE FLUKE THAT WASN’T: RECONSIDERING THE SUCCESSS OF RAY CHARLES’S COUNTRY MUSIC LANDMARK,” Joshua D. Friedberg (English), Ryan Poll, English

11:00 AM  BREAK

11:20 AM  “ON THE FAULTINESS OF MIRRORS: THE FLUIDITY OF IDENTITY IN GENE LUEN YANG’S AMERICAN BORN CHINESE,” Jeffrey B. O’Malley (English, University Honors Program), Ryan Poll*, English

11:40 AM  “NAVIGATING GLOBALIZATION IN EZRA POUND’S PISAN CANTOS: AN AESTHETICS OF IMAGINATIVE MAPPING, OR, PERIPLUM,” Jeffrey B. O’Malley (English), Ryan Poll*, English

12:00 PM  “MATERIAL CULTURE AND THE ART OF BEATNIK POET,” d.a.levy Ed Vidmar (English), Ryan Poll*, English

12:20 PM  “THE SOUTHERN GOTHIC IN THE TEXAS CHAINSAW MASSACRE,” Christopher L. Hoppe (English), Bradley Greenburg*, English

12:40 PM  “ILLUSTRATING AND INTERPRETING THE INVISIBLE IN GRAPHIC NARRATIVE,” Kathryn L. Hudson (English), Ryan Poll*, English

Session 4
Student Union 103 (Golden Eagles room)
Presiding before break: Saba Ayman-Nolley, Psychology
Discussants before break: Lori Cuevas and A. David Farmer, Psychology
Presiding after break: Maureen Erber, Psychology
Discussants after break: Lisa Hollis-Sawyer and Amanda Dykema-Engblade, Psychology
9:00 AM  “WHERE THE POPPIES GROW: AN ARCHIVAL STUDY OF PTSD IN THE US MILITARY, FROM WWI TO THE VIETNAM WAR,” René Marie Talbot (Nontraditional Degree Programs, University Honors Program), Therese Schuepfer*, Psychology

9:20 AM  “PARENTAL DIVORCE AND COLLEGE STUDENTS,” Katherine A. Jensen and Sarah R. Miller (Psychology), A. David Farmer, Jr.*, Psychology

9:40 AM  “EFFECT OF MUSIC ON PSYCHOLOGICAL RESILIENCY DURING A FRUSTRATION TASK,” Christopher R Jones (Psychology), Saba Ayman-Nolley* Psychology

10:00 AM  “THE EFFECT OF ANTIHISTAMINES ON CAFFEINE INDUCED ANXIETY IN ADULT ZEBRAFISH,” Annmarie M. Gilbert (Psychology), Shannon Saszik*, Psychology

10:20 AM  “CHROMATIC PROCESSES IN ON AND OFF PATHWAYS IN ZEBRAFISH (DANIO RERIO),” Tony Shajan (Psychology), Shannon Saszik*, Psychology

10:40 AM  “THE EFFECT OF MATERNAL IMMUNE ACTIVATION ON FETAL NEURODEVELOPMENT,” Angelina Jaimes¹, Adrienne Antonson²*, Shannon Saszik¹*, Rodney Johnson*² ¹Department of Psychology, Northeastern Illinois University, Chicago, IL 60625 ²Department of Animal Sciences, University of Illinois at Urbana-Champaign, Urbana, IL 61801

11:00 AM  BREAK

11:20 AM  “WHAT ROLE DOES GESTURE PLAY IN THE EMBODIMENT OF MATH CONCEPTS?,” Devin Louden and Lukasz Gorczynski (Psychology), Breckie Church*, Psychology

11:40 AM  “HOW DO SUBJECT VARIABLES LIKE SOCIOECONOMIC STATUS AND GENDER MEDIATE THE EFFECTS OF GESTURE PRODUCED DURING INSTRUCTION OF MATH,” Dina Latif and Cole Burns (Psychology), Breckie Church*, Psychology

12:00 PM  “GESTURES IN INSTRUCTION: EFFECTS ON BILINGUAL STUDENTS’ LEARNING AND MUSCLE ACTIVATION,” Mayra Saucedo (Psychology), Linda Rueckert* Psychology

12:20 PM  “THE EFFECT OF AN AUDIENCES’ LAUGHTER ON FACIAL MIMICRY,” Melanie K. Allen, Stephanie Voelker and Yesenia Taveras (Psychology), Linda Ruekert*, Psychology
12:40 PM  “THE EFFECT OF AGE AND ETHNICITY ON MORAL REASONING,” Michele S. Lee, Sephra Shoptz, Amer Y. Rustum and Hamid A. Rustum (Psychology), Breckie Church*, Psychology

Session 5  
Student Union 214  
Presiding before break: Pamela Geddes, Biology  
Discussants before break: Jennifer Slate and Elyse Bolterstein, Biology  
Presiding after break: David Rutschman, Mathematics  
Discussants after break: Cindy Voisine and Pam Geddes, Biology

9:00 AM  “EVALUATING THE EFFECT OF EMBRYONIC FOLIC ACID TREATMENTS ON PALATE/CRANIOFACIAL DEVELOPMENT AND BEHAVIOR IN THE DAY-12 HSD:ICR CD-1® MOUSE,” Renee A. Chellson¹, Russell J. Moskal¹,², Robert L. Fidis¹, Siobhán B. Cooke*² and TK Puryear*¹, ¹Mouse House Laboratory, Department of Biology, ²Department of Anthropology

9:20 AM  “ANALYSIS OF THE EFFECTS OF PROLONGED NICOTINE EXPOSURE ON BEHAVIOR AND REPRODUCTION IN DROSOPHILA MELANOGASTER,” Erene Mihalas-Sanchez (Biology), Mary Kimble*, Biology

9:40 AM  “RESPIRATORY PATTERNS IN PRAYING MANTISES,” Salim Patel¹, Christina Carrion¹, Arielle Greico¹, Emily Fioramonti¹, Greg Prete¹, Veronica Skitle¹, Bart van Alphen², Frederick Prete*¹, Aaron Schirmer*¹ ¹Department of Biology, Northeastern Illinois University, Chicago Illinois 60625 ²Department of Neurobiology and Physiology, Northwestern University, Evanston, Il 60208

10:00 AM  “IDENTIFICATION OF THE PERIOD GENE IN THE MANTODEA (PRAYING MANTIS),” Greg Prete, Emily Fioramonti, Christina Carrion and Salim Patel (Biology), Frederick Prete* and Aaron Schirmer*, Biology

10:20 AM  “CONSTRUCTION OF A MICROSATELLITE ENRICHED GENOMIC LIBRARY AND ANALYSIS OF NEW MICROSATELLITE PRIMERS FOR RHODIOLA,” Jose L. Hermosillo, Gwendolyn A. Murphy and Marisela Rodriguez (Biology), Mary Kimble* and Joel Olfelt*, Biology

11:00 AM  BREAK

11:20 AM  “HYBRIDIZATION OF TYPHA LATIFOLIA AND TYPHA ANGUSTIFOLIA IN THE US MIDWEST,” Sarah B. Whidden and Joseph J. Marsili (Biology), Luis L. Allende (Biology, McNair Scholar), Joel Olfelt* and Pamela Geddes* Biology
11:40 AM  “THE EFFECTS OF COMPETITOR-INDUCED PLASTICITY ON INTENSITY OF PARASITIC INFECTION,” Alejandra Villegas and Elisabeth Somchith (Chemistry), Sarah A. Orlofske*, Biology

12:00 PM  “THE DIVERSITY OF ECHINSOTOMES (PLATYHELMINTHES: TREMATODA) IN CHICAGOLAND AREA AQUATIC COMMUNITIES,” Eriberta R. Vasquez, Jennifer E. Kawaguchi, Olivia N. Choi and Robert C. Jadin (Biology), Sarah A. Orlofske*, Biology

12:20 PM  “UNIONID MUSSELS AS BIOINDICATORS IN AN URBAN STREAM,” Annie M. Harris (Biology), Jennifer Slate*, Biology

12:40 PM  “IS THERE EVIDENCE OF EUTROPHICATION IN VOLO BOG NATURE PRESERVE? A PALEOLIMNOLOGICAL STUDY WITH DIATOMS,” Charles C Sandusky (Biology), Jennifer Slate*, Biology

Session 6
Student Union 215
Presiding: Sylvia Atsalis, Student Center for Science Engagement (SCSE)
Discussants before break: Jing Su, Chemistry, Laura West, SCSE
Discussants after break: Emina A. Stojković, Biology, Paloma Vargas, SCSE

9:00 AM  “THROUGH HARDSHIPS TO MASTERING ORGANIC CHEMISTRY: INTERACTIVE LEARNING AND STUDENT CENTERED LABS WITH MASTERY LAB AND CHEM-WIKI,” Brenna Dooley (Biology), Alexandra Gokee (Chemistry), Ana Fraiman*, Chemistry


9:40 AM  “METHOD DEVELOPMENT AND VALIDATION FOR THE DETERMINATION OF ENANTIOMERS OF MIRTAZPINE AND WARFARIN IN THEIR PHARMACEUTICAL RAW MATERIALS USING REVERSED-PHASE LIQUID CHROMATOGRAPHY,” Nermeen Hanini (Chemistry), John Albazi*, Chemistry

10:00 AM  “SYNTHESIS AND PURIFICATION OF INGAP PEPTIDE AND ANALOGS AS NEW ANTI-DIABETIC DRUGS,” Andrew Apals (Chemistry), Dr. Jin Su*, Chemistry

10:20 AM  “INNOVATION IN MICROSATELLITE CATALOGUING: FINDING MARKERS IN MIDWESTERN CATTAILS [Typha species],” Rivka Strauss (Biology), Courtney Moran (Biology, University Honors Program), Pamela Geddes*, Biology Joel Olfelt*, Biology, Rachel Trana*, Computer Science, Francisco
10:40 AM  “DOMAIN STRUCTURE OF BACTERIAL RED LIGHT PHOTORECEPTORS AS REVEALED BY ATOMIC FORCE MICROSCOPY,” Rima Rebiai¹, Marie E. Kroeger², Zain Malik¹, Emina A. Stojkovic², Stefan Tsonchev¹, Kenneth T. Nicholson¹. ¹Department of Chemistry, ²Department of Biology

11:00 AM  BREAK

11:20 AM  “STRUCTURE AND FUNCTION OF BACTERIOPHYTOCHROMES IN MYXOBACTERIA,” Chris Tong², Ayesha Mapara², Kevin D. Gallagher¹, Phu Duong¹, Angela Nugent¹, James Hopkins¹, Patricia Waltz¹, Joseph Varela¹, and Emina A. Stojkovic*¹ ¹Department of Biology, ²Department of Chemistry

11:40 AM  “TOPIC MODELING USING POINTWISE MUTUAL INFORMATION,” John C. Hewitt (Computer Science/Mathematics), Francisco Iacobelli*, Computer Science

12:00 PM  “THE HEXAHEXAFLEXAGON AND ITS ALGEBRAIC STRUCTURE,” Julien de Castelnau (Mathematics), Peter Kimmel*, Computer Science, Tanya Cofer*, Mathematics

12:20 PM  “SMART MULTITASKING WITH SMARTPHONES,” Deena G. Rubin (Computer Science, Mathematics), Rachel F. Adler*, Computer Science

12:40 PM  “TOPOLOGICAL COMPLEXITY OF CONFIGURATION SPACES,” Ricky Salgado, Emiliano Velazquez (Mathematics), Hellen Colman*, Department of Mathematics, Wilbur Wright College

Session 7  
Student Union 216  
Education and Psychology  
Presiding: Mickie Wong-Lo, Special Education  
Discussants before break: Phyllis Le Dosquet, Special Education, Ramon Viera, Psychology  
Discussants after break: Eun Hye Kwon, Health, Physical Education, Recreation, and Athletics, Saba Ayman-Nolley, Psychology

9:00 AM  “AN EXAMINATION OF MUSLIM STUDENTS’ EXPERIENCES AT NORTHEASTERN ILLINOIS UNIVERSITY,” Rukiye Ayyildiz (Human Resource Development), Dr. Gabriel Cortez*, Educational Leadership and Development

9:20 AM  “THE DIFFERENCE IN CLASSROOM INSTRUCTION VS. ONE ON ONE INSTRUCTION,” Caroline N. Gorte and Yvette Hernandez (Psychology), Breckie Church*, Psychology
9:40 AM “THE EFFECTS OF GESTURE ON CHILDREN LEARNING PRE-ALGEBRAIC MATH,” Nicole L. Breving, Celeste D. Hoecker, Emily N. Garcia, Franny M. Plaia and Patricia Delgado (Psychology), Breckie Church*, Psychology

10:00 AM “THE EFFECT OF AGE AND VARIATION IN THE MORAL DILEMMA ON MORAL REASONING,” Brandi E. Crawford, Nahi A. Lichtenstein and Edgar I. Torres (Psychology), Breckie Church*, Psychology

10:20 AM “THE EFFECT OF AGE, SES, AND MOOD ON FOOD PREFERENCE,” Brittany J. Skorek, Renee M. Benjamin, Genesis N. Martinez, Kimberly Villalta and Maria N. Kolligris (Psychology), Ruth Church*, Psychology

11:00 AM BREAK

11:20 AM “THE EFFECTS OF ANXIETY ON SOCIAL BEHAVIOR,” Conor M. Smith (Psychology), Shannon Saszik*, Psychology

11:40 AM “EFFECT OF SEROTONIN LEVELS AND AGGRESSIVE BEHAVIORS IN INDIVIDUALS WITH AUTISM: USING ZEBRAFISH AS A MODEL,” Sunny Despotovíc (Psychology), Shannon Saszik*, Psychology

12:00 PM “THROUGH GIFTED EYES: GIFTED CHILDREN & TEENS SHARE THEIR PERSONAL STORIES THROUGH FILM,” Kathleen M. Nilles and Corina M. Vaccarello (Special Education), Dr. Michele Kane*, Special Education


12:40 PM “HEALTH POPULATION IN REGARDS TO DIET AND ASSOCIATED CONSEQUENCES,” Universal Prayther (Health, Physical Education, Athletics, and Recreation, McNair Scholar), Jennifer. Banas1*, Health, Physical Education, Athletics, and Recreation

Session 8
Student Union 217
Presiding: Kim Sanborn, Nontraditional Degree Programs
Discussants before break: Erick Howenstein, Geography and Environmental Studies, Olivia Perlow, Sociology
Discussants after break: Audrey Natcone and Shelley Bannister, Justice Studies

9:00 AM “FUELISH CHOICES: NUDGING TRANSPORTATION DECISIONS,” Nancy Hirsch (Nontraditional Degree Programs/Geography and Environmental Studies, University Honors Program), Dr. Caleb Gallemore*, Geography and
INVESTIGATING LGBTQ HATE CRIMES ON CAMPUS AT NEIU, Zohel Zabih, Angel Rivera, and Olivia Yousif (Justice Studies), Adam M. Messinger*, Justice Studies

LAW AND PUBLIC OPINION: AN INVESTIGATION THROUGH SAME-SEX MARRIAGE, Joshua R. Einbinder (Philosophy, University Honors Program), Daniel Milsy*, Philosophy

QUALITY OF WORK LIFE FOR PART-TIME FACULTY: A STUDENT RESEARCH PROJECT, Jessica Alaniz2, Joanna Gromow1, Karina Lopez2, Martin O'Brien3, Adekunle Adebayo1, Maranda Franks4, Rocio Garcia5, 6, Juan Gonzalez1,6, Samantha Hernandez1, Natalie Klimczak7, Marie Martin7, Ayuk Nfundoak8, 6, Aldo Silvestre1, Tomas Uriostegui5, Marcos Feldman*, 1Sociology, 2Social Work, 3Nontraditional Degree Programs, 4Justice Studies, 5Latino and Latin American Studies, 6McNair Scholar, 7Psychology, 8Political Science

THE STRUGGLE OF THE EX-OFFENDER AFTER TIME SERVED, Joshua Brooks (Justice Studies), T.Y. Okosun*, Justice Studies

THE UNDERREPORTING OF HATE CRIMES MOTIVATED BY SEXUAL ORIENTATION BIAS IN THE UNITED STATES, Miguel Nunez, Michael Delatorre and Olivia O'Donovan (Justice Studies, Steve Williams (Undeclared), Adam M. Messinger*, Justice Studies

KNOW THE LAW UNDER YOUR ROOF-FAIR HOUSING, Paw Ku (Justice Studies), Sevtap Guldur (Political Science), Nancy Matthews*, Justice Studies and Women's & Gender Studies

Session 9
Student Union 218
Presiding before and after break: Shahrzad Mahootian, Linguistics
Discussant before break: Lewis Gebhardt, Linguistics
Discussant after break: Richard Hallett, Linguistics

9:00 AM  “A STUDY OF A STUDENT’S LAW CLUB COMMUNITY: AN ANALYSIS OF LINGUISTIC RELATIVITY AND LINGUISTIC DETERMINISM,” Enas A Albasiri, (Linguistics), Judith Kaplan-Weinger*, Linguistics

9:20 AM  “BINOMIAL PAIR USAGE AND ITS CONNECTION TO GENDER EQUALITY,” Amanda Treutler (Linguistics), Lewis Gebhardt*, Linguistics

9:40 AM  “TABOOS AND EUPHEMISMS IN CHICAGO PAKISTANI COMMUNITY,” Abdullah Al Musallam (Linguistics), Judith Kaplan-Weinger*, Linguistics

10:00 AM  “SHAPED TRUTH: AN EXPLORATION OF DOMESTIC MEDIA,” George H. Borawski (Linguistics), Richard Hallett*, Linguistics


10:40 AM  “HOW DO F***ING SWEAR WORDS IN DIFFERENT D**N LANGUAGES IMPACT THE EMOTIONS OF BILINGUALS?,” Sukruthai Rojchanapradist (Linguistics), Shahrzad Mahootian*, Linguistics

11:00 AM  “ANALYZING THE PRACTICE OF THE PSYCHOLOGICAL STRATEGIST: THE PSYCHOLOGICAL STRATEGY ON BUILDING OR RESTORING AN EMPIRE,” Herman Salgado, Jr (Linguistics), Judy Kaplan-Weinger*, Linguistics

11:20 AM  “EARLY LEXICAL DEVELOPMENT AND FACTORS THAT AFFECT IT: EVIDENCE FROM ARABIC-ENGLISH SPEAKING CHILDREN,” Ehsan Alatawi (Linguistics), Shahrzad Mahootian*, Linguistics

11:40 AM  “THE PHENOMENON OF ARABIZI ON TWITTER AND INSTAGRAM AMONG SAUDI USERS,” Rawan Bonais (Linguistics), Shahrzad Mahootian*, Linguistics

12:00 PM  “SAUDI ARABIC-ENGLISH CODESWITCHING: MORPHO-SYNTACTIC ANALYSIS,” Sarah Alamri (Linguistics), Shahrzad Mahootian*, Linguistics

12:20 PM  “ARAB CELEBRITIES CODE SWITCHING: STRUCTURE AND FUNCTION,” Soha Aljomaa (Linguistics), Shahrazad Mahootian*, Linguistics

12:40 PM  “HE PERCEPTIONS AND COMPREHENSION OF HIGH SCHOOL STUDENTS IN A NON-NATIVE ENGLISH SPEAKING TAUGHT ONLINE CLASSROOM,” Patrick M. Baldwin (Linguistics), Richard Hallett*, Linguistics

1:00 PM  “LANGUAGE CONTACT IN THE SLOVENIAN LITTORAL,” Pegi Bakula (Linguistics), Richard Hallett*, Linguistics
Session 10
Student Union SU-219
Presider: Mary Thill, Library

Discussants before break: Christina Gomez, Sociology, Kimberly Shotick, Library
Discussants after break: Lucrecia Artalejo, World Languages and Cultures, Michelle Guittar, Library

9:00 AM “RESHAPING LATINIDAD,” Blanca Hurley (Sociology and Latino & Latin American Studies), Christina Gomez*, Sociology and Latino & Latin American Studies

9:20 AM “SPANISH AND ENGLISH MEDIA REPORTING ON 2014 WAVE OF UNDOCUMENTED CENTRAL AMERICAN CHILDREN,” Guadalupe Zuñiga (Sociology), Christina Gomez*, Sociology and Latino & Latin American Studies

9:40 AM “UNDERSTANDING INTERRACIAL MARRIAGES: AFRICAN AMERICAN AND LATIN@ PERSPECTIVES,” Lenesha McGee (Sociology), Christina Gomez*, Sociology and Latino & Latin American Studies

10:00 AM “TRANSNATIONAL BRIDGES: IMPORTING DOMESTIC WORK,” Liliana Macias (Latino and Latin American Studies), Emily Garcia*, English and Latino and Latin American Studies

10:20 AM “CANDLES OF AMBITION AND CHAINS OF POWER,” Maria, C, Padilla (Spanish), Emily Garcia*, English

10:40 AM “EXAMINING MENTAL HEALTH AND USE OF CLINICAL SERVICES AMONG SENIOR REFUGEE POPULATIONS RESETTLED IN CHICAGO,” Zitlalli Z. Roman (Social Work, McNair Scholar Program), Aimee Hilado Villalpando*, PhD, LCSW*, Jin Kim*, Social Work Program

11:00 AM BREAK

11:20 AM “DUALITY IN MY IDENTITY,” David Lagunas (Secondary Education/Spanish, University Honors Program), Lucrecia Artalejo*, World Languages and Cultures

11:40 AM “YOUR HISTORY IS NOT WHO I AM: SELF-IDENTIFICATION OUTSIDE OF TRADITION AND ANCESTRY IN FELICIA LUNA LEMUS’S LIKE SON,” Victoria E. Salsa (Secondary Education/English), Emily Garcia*, English and Latino and Latin American Studies

12:00 PM “DEFENSORA INDÍGENA DESDE SU CELDA: EL DIVINO NARCISO POR SOR JUANA INÉS DE LA CRUZ,” Esmeralda Mora Begres (Latin American Literature and Cultures), Lucrecia Artalejo*, World Languages and Cultures

12:20 PM “DIFUNDIENDO CONCIENCIA: EL PAPEL Y SIGNIFICADO DE LOS PERSONAJES LGBTQ EN LA NARRATIVA DE ISABEL ALLENDE,” Siobhan Moffitt (Spanish), Lucrecia Artalejo*, World Languages and Cultures
POSTER PRESENTATIONS

LOBBY IN FRONT OF AUDITORIUM
10:00 AM to 11:00 AM (Set-Up Period)
11:00 AM to 1:20 PM (Presentation Period)
Presiding: John Albazi, Chemistry

1. “RELATIONSHIP BETWEEN PERCEPTION OF PARENT’S POLITICAL IDEOLOGY AND IDENTITY DEVELOPMENT ON YOUNG ADULT POLITICAL ATTITUDES,” Agnieszka Kucharski (Psychology), Christopher Merchant*, Psychology

2. “EMOTION, PERCEPTION, AND MUSICAL PREFERENCE,” Alexis T. Kalady (Psychology, University Honors Program), Christopher Merchant*, Psychology

3. “SYNTHESIS AND CHARACTERIZATION OF A BIOTIN-CONJUGATED PEPTIDE FOR STUDYING MECHANISM OF ISLET $\beta$-CELL REGENERATION DURING DIABETES TREATMENT,” Anita Alhasan (Chemistry), Jing Su*, Chemistry


8. “TOO HAPPY TO BE ANGRY,” Fatima Amin, Ana Cintron, Dean Warren Northern, and Luz Rosales (Psychology), Shannon Saszik*, Psychology

9. “UNDERSTANDING THE INVOLVEMENT OF TPR-1 IN PROTEIN MAINTENANCE AND CELLULAR PROTECTION IN C. ELEGANS,” DeElegant Robinson, Edith Morales, and Marc Brehme (Biology), Cindy Voisine*, Biology

10. “AMYOTROPHIC LATERAL SCLEROSIS IN C. ELEGANS: THE EFFECTS OF TDP-43 EXPRESSION ON NEURONAL HEALTH,” Emily Rendleman (Biology), Cindy Voisine*, Biology

11. “METHOD DEVELOPMENT FOR THE DETERMINATION OF NYMALIZE (NIMODIPINE) RAW MATERIAL BY USING REVERSED- PHASE HIGH PERFORMANCE LIQUID CHROMATOGRAPHY,” Enas Almughmisi (Chemistry), John Albazi*, Chemistry
12. “REVICTIMIZATION OF CHILD ABUSE,” Erynn A. Besser (Psychology), Alvin David Farmer, Jr.*, Psychology

13. “POTENTIAL PARAMETERS THAT PREDICT CARDIOVASCULAR EFFECTS OF DRUGS,” Grace Xiyu Wang (Chemistry), Cheryl Kordik*, Department of Chemistry, McHenry County College


15. “EFFECT OF SEROTONIN LEVELS ON AGGRESSION,” Alicia M. Aleman, Jared T. Needham, Douglas M. Nowik, Dalia M. Salgado and Carmen Verastique (Psychology), Shannon Saszik, Psychology


17. “MENTAL HEALTH AND ECONOMIC SELF-SUFFICIENCY IN REFUGEES LIVING IN CHICAGO,” Jenessa Ramos (Social Work), Angel Resto*, Social Work


23. “CHILDREN'S VIEW OF FAMILY ACTIVITIES: A CROSS CULTURAL EXAMINATION OF THEIR DRAWINGS,” Marla Jean Douma (Psychology), Saba Ayman-Nolley*, Psychology

24. “AGGRESSION AND SEROTONIN LEVELS IN ZEBRAFISH,” Melanie Allen, David Follick, Sanja Veljkovik, Nikolay Gantchev and Tony Shajan (Psychology), Shannon Sazik*, Psychology

25. “A CORRELATIONAL STUDY ABOUT RESIDENTIAL SERVICES AVAILABLE TO YOUTH WITH COGNITIVE IMPAIRMENTS AND DEVELOPMENTAL DELAYS AND ITS IMPACT ON PHYSICAL AGGRESSIVE BEHAVIOR,” Michelle Mallari (Social Work),

27. “BACTERIOPHYTOCHROMES AND LIGHT-CONTROLLED MORPHOGENESIS IN MYXOBACTERIA,” Phu Duong, Angela Nugent, Kevin D. Gallagher, Dorina Bizhga, Patricia Waltz and James Hopkins (Biology), Emina A. Stojkovic*, Biology

28. “MODELING AMYOTROPHIC LATERAL SCLEROSIS IN C ELEGANS: EVALUATING HOW TDP-43 EXPRESSION IMPACTS MOTOR AND SENSORY NEURON FUNCTION,” Quan Nguyen (Biology), Cindy Voisine*, Biology


30. “INNOVATION IN MICROSATELLITE CATALOGUING: FINDING MARKERS IN MIDWESTERN CATTAILS (TYPHA SPECIES),” Rivka Strauss (Computer Science/Biology), Courtney Moran (Biology), Pamela Geddes*, Biology, Joel Olfelt*, Biology, Rachel Trana*, Computer Science, Francisco Iacobelli*, Computer Science

31. “THE DECADE OF GREEN,” Genesis C. Reyes and Nicole Thomas (Geography and Environmental Studies), Sahreen Ali (Accounting), Robyn Flakne*, Geography and Environmental Studies

32. “TRAJECTORY OF CHANGE: QUANTIFYING 40 YEARS OF CHANGES IN SELECTED QUALITY OF LIFE INDICATORS,” Susan R. Schwendener (Counselor Education), Charles Pistorio*, Counseling in Clinical Mental Health


34. “EFFECTS OF L-DOPA ON AGGRESSION IN ZEBRAFISH (DANIO RERIO),” Sandra L. Salas, Jocelynn Carey, Caitlyn Milheron, Peter Mun and Taylor Simpson (Psychology), Shannon Saszik*, Psychology

35. “THE EFFECT OF DOPAMINE ON ZEBRAFISH BEHAVIOR,” Wendy De Leon, (McNair Scholar), Cynthia Gonzalez, Alicia Murillo and Lea Weiner (Psychology), Shannon Saszik*, Psychology

36. “THE EFFECT OF DISGUST ON MORAL JUDGMENT,” Trevor Seaverns (Psychology/Philosophy), Amanda Dykema-Engblade*, Psychology


38. “THE ROLE OF MATH INSTRUCTION TO HELP SOLVE PROBLEMS,” Urooj Fatima, Audrey Sampson, Caitlin Martinez, Dolores Hernandez and Ericka Maya (Psychology), Breckie Church*, Psychology
39. “PALEODIETARY RECONSTRUCTION OF PARALOUATTA VARONAI THROUGH DENTAL WEAR ANALYSIS,” Yesenia Taveras Cruz (Anthropology, McNair Scholar), Siobhân B. Cooke*, Anthropology


41. “PETROLEUM COKE AND ITS EFFECTS ON FRESH WATER,” Israel Paramo and Ariel Ruiz (Chemistry, Morton College), Sara Helmus, Morton College

42. “METHOD DEVELOPMENT, DEGRADATION STUDY AND VALIDATION OF METOZOLV ODT (METOCLOPRAMIDE HYDROCHLORIDE) USING REVERSE PHASE HIGH PERFORMANCE LIQUID CHROMATOGRAPHY,” Yating Wei (Chemistry), John Albazi*, Chemistry

43. “DIABETES IN THE HISPANIC AND AFRICAN AMERICAN POPULATION,” Maria Montoya, Kimberly Rodriguez, and Rehema Silas (Sullivan High School), Frances Evins* and Patricia Murfay*, Sullivan High School, Huseyin Colak*, Educational Inquiry and Curriculum Studies

44. “ASTHMA IN CHICAGO,” Adesijibomi Owoseni, Christian Lloyd (Sullivan High School), Frances Evins* and Patricia Murfay*, Sullivan High School, Huseyin Colak*, Educational Inquiry and Curriculum Studies

THE NEIU STUDENT RESEARCH & CREATIVE ACTIVITIES SYMPOSIUM IS THE SEVENTH-LONGEST RUNNING STUDENT SYMPOSIUM AMONG 53 UNIVERSITIES IDENTIFIED NATIONALLY

<table>
<thead>
<tr>
<th></th>
<th>Event Description</th>
<th>Institution</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The 41st Annual Undergraduate Research Conference</td>
<td>New York University</td>
<td>April 24, 2015</td>
</tr>
<tr>
<td>2</td>
<td>The 29th Annual Undergraduate Research Conference</td>
<td>University of Wisconsin-La Crosse</td>
<td>April 16-18, 2015</td>
</tr>
<tr>
<td>3</td>
<td>The 27th Annual Undergraduate Research Conference</td>
<td>Butler University</td>
<td>April 10, 2015</td>
</tr>
<tr>
<td>4</td>
<td>The 26th Annual Undergraduate Research, Scholarship and Creative Activities Conference</td>
<td>University of California, Davis</td>
<td>May 1-2, 2015</td>
</tr>
<tr>
<td>5</td>
<td>26th Annual OSU Research Symposium and Research Scholar Conference</td>
<td>Oklahoma State University</td>
<td>February 18-20, 2015</td>
</tr>
<tr>
<td>6</td>
<td>The 24th Annual NC State Undergraduate Research Symposium</td>
<td>North Carolina State University</td>
<td>April 14, 2015</td>
</tr>
<tr>
<td>7</td>
<td>NEIU 23rd Annual Student Research and Creative Activities Symposium</td>
<td>Northeastern Illinois University</td>
<td>April 17, 2015</td>
</tr>
<tr>
<td>8</td>
<td>The 22nd Annual Undergraduate Research Conference</td>
<td>Henderson State University</td>
<td>April 10-11, 2015</td>
</tr>
<tr>
<td>9</td>
<td>The 22nd Annual UCI Undergraduate Research Symposium</td>
<td>University of California Irvine</td>
<td>May 16, 2015</td>
</tr>
<tr>
<td>10</td>
<td>The 22nd Annual Undergraduate and Graduate Research Symposium</td>
<td>Morgan State University</td>
<td>April 14, 2015</td>
</tr>
<tr>
<td>11</td>
<td>The 21st Annual Undergraduate Research Conference</td>
<td>University of Massachusetts Amherst</td>
<td>April 24, 2015</td>
</tr>
<tr>
<td>12</td>
<td>The 21st Annual Undergraduate Science Research Symposium</td>
<td>College of William and Mary</td>
<td>April 21, 2015</td>
</tr>
<tr>
<td>13</td>
<td>20th Annual Student Conference for Research &amp; Creative Arts</td>
<td>University of Houston-Clear Lake</td>
<td>April 13-16, 2015</td>
</tr>
<tr>
<td>14</td>
<td>The 20th Annual Denman Undergraduate Research Forum</td>
<td>Ohio State University</td>
<td>March 25, 2015</td>
</tr>
<tr>
<td>15</td>
<td>20th Annual Research and Artistic Showcase</td>
<td>University of Minnesota Duluth</td>
<td>April 21, 2015</td>
</tr>
<tr>
<td>16</td>
<td>The 18th Annual UW Undergraduate Research Symposium</td>
<td>University of Washington</td>
<td>May 15, 2015</td>
</tr>
<tr>
<td>17</td>
<td>The 18th Annual Symposium for the Undergraduate Research</td>
<td>School of International Service, American University, Washington, DC</td>
<td>April 24, 2015</td>
</tr>
<tr>
<td>18</td>
<td>The 18th Annual Lake Forest College Student Symposium</td>
<td>Lake Forest College</td>
<td>April 7, 2015</td>
</tr>
<tr>
<td>19</td>
<td>EWU 18th Annual Student Research &amp; Creative Works Symposium</td>
<td>Eastern Washington University</td>
<td>May 15-16, 2015</td>
</tr>
<tr>
<td>20</td>
<td>18th Annual Student Research and Community Engagement Symposium</td>
<td>The University of Massachusetts Lowell</td>
<td>April 21, 2015</td>
</tr>
<tr>
<td>21</td>
<td>MU 17th Annual Student Research Symposium</td>
<td>Manchester University</td>
<td>April 24, 2015</td>
</tr>
<tr>
<td>22</td>
<td>The 17th Annual Symposium for the Undergraduate Research, Creative Endeavor, and Service-Learning</td>
<td>University of Wisconsin, Madison</td>
<td>April 16, 2015</td>
</tr>
<tr>
<td>23</td>
<td>18th Annual Undergraduate Research Symposium</td>
<td>The University of Kansas</td>
<td>April 25, 2015</td>
</tr>
<tr>
<td>24</td>
<td>17th Annual Undergraduate Research Symposium</td>
<td>Boston University</td>
<td>October 17, 2014</td>
</tr>
<tr>
<td>25</td>
<td>The 16th Annual Undergraduate Research Conference</td>
<td>The University of New Hampshire, Durham</td>
<td>April 10-25, 2015</td>
</tr>
<tr>
<td>No.</td>
<td>Event Description</td>
<td>Location</td>
<td>Date</td>
</tr>
<tr>
<td>-----</td>
<td>-----------------------------------------------------------------------------------</td>
<td>-----------------------------------------------</td>
<td>--------------------</td>
</tr>
<tr>
<td>26.</td>
<td>16th Annual Undergraduate Research Symposium</td>
<td>University of North Carolina-Chapel</td>
<td>April 15, 2015</td>
</tr>
<tr>
<td>27.</td>
<td>16th Annual Undergraduate Research Symposium</td>
<td>University of Florida</td>
<td>March 18, 2015</td>
</tr>
<tr>
<td>28.</td>
<td>14th Annual Undergraduate Research &amp; Creativity Conference</td>
<td>Kutztown University of Pennsylvania</td>
<td>April 27, 2013</td>
</tr>
<tr>
<td>29.</td>
<td>The 18th Annual University of Minnesota Summer Undergraduate Research Symposium</td>
<td>University of Minnesota</td>
<td>August 7, 2014</td>
</tr>
<tr>
<td>30.</td>
<td>The 13th Annual UMM Undergraduate Research Symposium</td>
<td>University of Minnesota Morris</td>
<td>April 18, 2015</td>
</tr>
<tr>
<td>31.</td>
<td>15th Annual Student Research Symposium</td>
<td>The University of Louisiana at Monroe</td>
<td>March 12, 2015</td>
</tr>
<tr>
<td>32.</td>
<td>14th Annual Undergraduate and Graduate Student Research Conference</td>
<td>Christopher Newport University</td>
<td>April 11, 2015</td>
</tr>
<tr>
<td>33.</td>
<td>The 11th Annual Symposium of Undergraduate Research and Public Service</td>
<td>Stanford University</td>
<td>April 25, 2015</td>
</tr>
<tr>
<td>34.</td>
<td>11th Annual TAMUS Pathways Student Research Symposium</td>
<td>Texas A &amp; M University at Galveston</td>
<td>November 8, 2013</td>
</tr>
<tr>
<td>35.</td>
<td>12th Annual Undergraduate Research Conference</td>
<td>Boise State University</td>
<td>April 2020/2015</td>
</tr>
<tr>
<td>37.</td>
<td>11th Annual Undergraduate Research Conference</td>
<td>Missouri University of Science and Technology</td>
<td>April 15, 2015</td>
</tr>
<tr>
<td>38.</td>
<td>UA Student Innovation Symposium</td>
<td>The University of Akron</td>
<td>April 9th, 2015</td>
</tr>
<tr>
<td>39.</td>
<td>The 8th Annual Undergraduate Research &amp; Creativity Conference</td>
<td>The University of New Mexico, Albuquerque</td>
<td>April 10, 2012</td>
</tr>
<tr>
<td>40.</td>
<td>The 11th Annual Undergraduate Research Day</td>
<td>University of Houston</td>
<td>October 9, 2014</td>
</tr>
<tr>
<td>41.</td>
<td>The 10th Annual Undergraduate Research Conference</td>
<td>University of North Carolina at Chapel Hill</td>
<td>April 10-12, 2015</td>
</tr>
<tr>
<td>42.</td>
<td>10th Annual Undergraduate Research Spring Symposium</td>
<td>Georgia Institute of Technology</td>
<td>Wednesday, April 22</td>
</tr>
<tr>
<td>43.</td>
<td>The 9th Annual Undergraduate Research Conference</td>
<td>Virginia State University</td>
<td>March 27, 2015</td>
</tr>
<tr>
<td>44.</td>
<td>The 9th Annual Utah Conference on Undergraduate Research (UCUR)</td>
<td>Utah State University</td>
<td>February 27, 2015</td>
</tr>
<tr>
<td>45.</td>
<td>9th Annual Summer Undergraduate Research Conference</td>
<td>The University of Iowa</td>
<td>July 30, 2014</td>
</tr>
<tr>
<td>46.</td>
<td>9th Annual Undergraduate Research Symposium</td>
<td>William Paterson University</td>
<td>Saturday, April 11,</td>
</tr>
<tr>
<td>47.</td>
<td>The 9th Annual Symposium for the Undergraduate Research, Scholarship, and Creative Activity</td>
<td>University of California, Riverside</td>
<td>April 29-30, 2015</td>
</tr>
<tr>
<td>48.</td>
<td>8th annual SDSU Student Research Symposium (SRS)</td>
<td>San Diego State University</td>
<td>March 6, 2015</td>
</tr>
<tr>
<td>49.</td>
<td>8th Annual Undergraduate Research Day</td>
<td>Concord University</td>
<td>April 16, 2015</td>
</tr>
<tr>
<td>50.</td>
<td>The 8th Annual Undergraduate Research Conference</td>
<td>The University of Texas-Pan American</td>
<td>March 26-27, 2015</td>
</tr>
<tr>
<td>51.</td>
<td>7th Annual Northeast Undergraduate Research and Development Symposium</td>
<td>University of New England</td>
<td>March 7-8, 2015</td>
</tr>
<tr>
<td>52.</td>
<td>4th Annual MSU Denver Undergraduate Research Conference: A Symposium of Scholarly Works and Creative Projects</td>
<td>Metropolitan State University of Denver</td>
<td>May 1, 2015</td>
</tr>
<tr>
<td>53.</td>
<td>The 3rd Annual Georgia Undergraduate Research Conference</td>
<td>Columbus State University</td>
<td>November 14-15-2014</td>
</tr>
</tbody>
</table>
The Symposium Committee would like to thank the following faculty members for serving as Presiders, Discussants, and/or Faculty Sponsors at the Twenty-Third Annual Student Research and Creative Activities Symposium:

Ai-Ru Yen
A. David Farmer, Jr.
Aaron Schirmer
Adam Messinger
Aimee Hilado Villalpando
Amanda Dykema-Engblade
Ana Fraiman
Andrew Brake
Angel Resto
Angela Vidal-Rodriguez
Audrey Natcone
Bradley Greenburg
Breckie Church
Caleb Gallemore
Charles Pistorio
Cheryl Kordik
Christina Gomez
Christopher Merchant
Christopher Owen
Chunwei Xian
Cindy Voisine
Daniel Milsky
David Rutschman
Denise Cloonan
Elyse Bolterstein
Emily Garcia
Emina Stojkovic
Erick Howenstein
Eun Hye Kwon
Francisco Iacobelli
Frederick Prete
Gabriel Cortez
Hardik Marfatia
Hellen Colman

Jennifer Banas
Jennifer Slate
Jin Kim
Jing Su
Job Ngwe
Joel Olfelt
John Albazi
Joshua Salzmann
Julie Iromuanya
Kenneth Nicholson
Kim Sanborn
Kimberly Shotick
Kristen Lee Over
Laura West
Lewis Gebhardt
Linda Rueckert
Lisa Hollis-Sawyer
Lori Cuevas
Lucrecia Artalejo
Luis O. Ortiz
Marcos Feldman
Maria de la Torre
Mary Kimble
Mary Thill
Maureen Erber
Michael Wenz
Michele Kane
Michelle Guittar
Mickie Wong-Lo
Milka Ramirez
Nancy Matthews

Olivia Cronk
Olivia Perlow
Paloma Vargas
Pamela Geddes
Paul O'Hara
Peter Chang
Peter Kimmel
Phyllis Le Dosquet
Qaiser F.Waraich
Rachel Adler
Ramon Viera
Rasoul Rezvanian
Richard Hallett
Robert Heitzinger
Robyn Flakne
Ryan Poll
Saba Ayman-Nolley
Sarah A. Orlofske
Scott Hegerty
Shahrazad Mahootian
Shannon Saszik
Shayne Pepper
Shelley Bannister
Siobhan Cooke
Sylvia Atsalis
Tim Libretti
T.Y. Okosun
Tanya Cofer
Terrence Puryear
Therese Schuepfer
Toshikazu Foley
William Sieger
ACKNOWLEDGEMENTS

The symposium Steering Committee would like to express its sincere thanks to President Sharon Hahs, Provost Richard Helldobler, Vice President Melba Rodriguez, Vice President, Frank Ross, Dean Maureen Gillette, College of Education; Dean Michael Bedell, College of Business and Management; Dean Wamucii Njogu, College of Arts and Sciences, Dean Michael Stern, College of Graduate Studies and Research, and Dean Carlos Melian, Library for their enthusiastic support of the symposium.

The success of the symposium owes much to the Presenters and their Faculty Sponsors. They deserve special thanks.

We are greatly thankful to Ms. Cathie Anderson from the McNair Scholars Program for her tremendous help and assistance.

The Symposium Steering Committee would like to express its gratitude to the Office of Academic Affairs, Office of Institutional Advancement, and the College of Arts and Sciences for sponsoring the event.

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 College of Graduate Studies and Research.

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 look forward to participating in the 24th Annual Northeastern Illinois University Student Research and Creative Activities Symposium in 2016.