College of Arts & Sciences
College of Business & Management
Daniel L. Goodwin College of Education
College of Graduate Studies and Research
Ronald Williams Library

Presents

NORTHEASTERN ILLINOIS UNIVERSITY
TWENTY-SIXTH ANNUAL STUDENT
RESEARCH & CREATIVE ACTIVITIES
SYMPOSIUM

April 20, 2018
SYMPOSIUM PROGRAM

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

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

Welcome and Introduction
John Albazi, Symposium Coordinator

Greetings
Wamucii Njogu, Interim President
Northeastern Illinois University

Participants

College of Arts & Sciences
College of Business & Management
Daniel L. Goodwin College of Education
College of Graduate Studies & 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
Pamela Geddes, College of Arts and Sciences
Jon Hageman, Honors Program
Alberto Lopez, Goodwin College of Education
Joel Offelt, Student Center for Science Engagement
Kimberly Sanborn, Nontraditional Degree Programs
Melinda Storie, College of Graduate Studies and Research
Susan Tang, Creative Activities
Mary Thill, Ronald Williams Library
Angela Vidal-Rodriguez, McNair Scholars Program
Chunwei Xian, College of Business and Management

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

FA-160 (Recital Hall, Fine Arts Building)

Presiding: Travis Heath, Music

Discussants before break: Katherine Petersen and Steve Zivin, Music
Discussants after break: Katherine Petersen and Steve Zivin, Music

9:00 AM  “HER SECRET IS PATIENCE’: A YOUNG ADULT NOVEL: MUSLIM-AMERICAN LITERATURE DEPICTING A MUSLIM-AMERICAN-PROTAGONIST LIVING IN A POST-TRUMP AMERICA,” Shamsa Islam (English, University Honors Program), Ryan Poll* (English).


10:00 AM NATIONAL WALK OUT OF SCHOOL AGAINST GUN VIOLENCE (OPTIONAL)

10:10 AM BREAK

10:20 AM  “THE TELLING OF IT,” Jenn Lee (English), Olivia Cronk* (English), Christine Simokaitis* (English).

10:40 AM  “WHAT ARE YOU?” Airam Velasquez (English), Lawrence Dean* (English).

11:00 AM  “ENGLISH LITERATURE: A POETRY READING,” Marilynn A. Eguchi (Harry S. Truman College), Christine Aguila* (English, Harry S. Truman College).

11:20 AM COFFEE BREAK


(Presenter is underlined and Faculty Sponsor* is denoted by an asterisk)
12:00 PM  “THE PROBLEM WITH HEADLINES,” Liz Varmecky (Communication, Media, and Theatre, University Honors Program), Edie Rubinowitz* (Communication, Media, and Theatre).

12:20 PM  “NO ES A DONDE VOY, ES A DONDE ME LLEVAN*: TESTIMONIOS OF UNDOCUMENTED STUDENTS AND THEIR JOURNEY TO ANOTHER COUNTRY,” Cynthia Sofia Rivas (World Languages and Cultures, University Honors Program), Brandon Bisbey* (World Languages and Cultures).


RESEARCH PRESENTATIONS

Session 1
CBM 114 (College of Business and Management Building)
Presiding: Chunwei Xian, Accounting, Business Law and Finance
Discussants before break: Anne Le, Accounting, Business Law and Finance
Discussants after break: Andy Chen, Accounting, Business Law and Finance


10:00 AM  NATIONAL WALK OUT OF SCHOOL AGAINST GUN VIOLENCE (OPTIONAL)

10:10 AM  BREAK

10:20 AM  “COMPANIES WITH AVERAGE ENVIRONMENTAL PERFORMANCE:

(Presenter is underlined and Faculty Sponsor* is denoted by an asterisk)
LINK BETWEEN ENVIRONMENTAL DISCLOSURE AND FINANCIAL PERFORMANCE, "Su Oh (Accounting, Business Law and Finance, University Honors Program), Ai-Ru Yen* (Accounting, Business Law and Finance).


11:00 AM  "INSTANT TRANSLATION TECHNOLOGY: PAST, PRESENT, AND FUTURE IMPLICATIONS," Evita Subkowski (Accounting, Business Law and Finance, University Honors Program), Hong Gee Chen* (Accounting, Business Law and Finance).

11:20 AM  COFFEE BREAK


12:00 PM  "BUSINESS STRATEGY ANALYSIS--BEST BUY," Karmen Yousif (Accounting, Business Law and Finance), David Koehler* (Accounting, Business Law and Finance).

12:20 PM  "BANE OF THEIR EXISTENCE OR EXISTENTIALLY BENEFICIAL?" Joan Shapiro Beigh (Management and Marketing), Qiumei Xu* (Management and Marketing), Michael Bedell* (Management and Marketing), Francisco Lacobelli* (Computer Science).

12:40 PM  "MILLENNIALS RISING - THE AMERICAN WORKFORCE'S CURRENT CHALLENGE," Bryan Lubash (Management and Marketing, University Honors Program), Sungdoo Kim* (Management and Marketing).

(Presenter is underlined and Faculty Sponsor* is denoted by an asterisk)
Session 2  
Student Union 103 (Golden Eagles Room)  
Presiding: Saba Ayman-Nolley, Psychology  
Discussants before break: Maureen Erber and Lori Cuevas, Psychology  
Discussants after break: Masami Takahashi and Shannon Sazik, Psychology

9:00 AM  “ASSESSING NEIU FRESHMEN NAVIGATOR PROGRAM,” Kanooz Siddiqui (Psychology), Amanda Dykema-Engblade* (Psychology), Blase Masini* (Institutional Research and Assessment), Kris Pierre* (Student Affairs), Veronica Rodriguez* (El Centro).


9:30 AM  “HOW DO PARENTING STYLES RECALLED FROM CHILDHOOD PLAY A ROLE IN ADULT ANXIETY AND NONVERBAL BEHAVIOR?” Jessica Moritz (Psychology), Adriana Castro (Psychology), Savannah Dean (Psychology), Ruth Breckinridge Church* (Psychology).

9:45 AM  “THE EFFECTS OF PREVIOUS EXPERIENCE ON GESTURE MIRRORING,” Jessica Moritz (Psychology), Elba Albarran (Psychology) Maddy Scaletta (Psychology) Elyse Woodbury (Psychology), Seth Thomas (Psychology), Linda Rueckert* (Psychology).

10:00 AM  NATIONAL WALK OUT OF SCHOOL AGAINST GUN VIOLENCE (OPTIONAL)

10:10 AM  BREAK

10:20 AM  “WHAT WE SEE IS WHAT WE GET: OBSERVATIONAL GOALS AND CONTEXT,” Samuel Klein (Psychology, University Honors Program), Amanda Dykema-Engblade* (Psychology).

10:35 AM  “DOES TIMING MATTER? HOW THE SYNCHRONY OF GESTURE AND SPEECH INFLUENCES LEARNING,” Murielle Standley (Psychology), Morgan Chafshino (Psychology), Ruth Breckinridge Church* (Psychology).

10:50 AM  “GESTURE AND LEARNING: THE EFFECT OF MUSCLE ACTIVATION ON LEARNING,” Joshua Mendez (Psychology), Tony Couturier (Psychology, University Honors Program), Bouchra Ayyaddaoui

(Presenter is underlined and Faculty Sponsor* is denoted by an asterisk)
(Psychology), Kaylie Kanzler (Psychology), Brittny Fisher (Psychology), Wiam Banibaker (Psychology), Linda Rueckert* (Psychology).

11:05 AM  “THE INFLUENCE OF STEREOTYPE THREAT ON THE FOOD CHOICE OF MEXICAN AMERICAN STUDENTS,” Heather Miller (Psychology, University Honors Program), Amanda Dykema-Engblade* (Psychology).

11:20 AM  COFFEE BREAK

11:40 AM  “THE ROLE OF GESTURE IN MATH EDUCATION,” Diana Morales (Psychology, University Honors Program), Marlene Arenas (Psychology), Valentyna Kuzmina (Psychology, University Honors Program), Ruth Breckinridge Church* (Psychology).

11:55 AM  “MIRROR, MIRROR ON THE WALL WHOM IS THE MOST ENGAGED OF THEM ALL,” Steven Hernandez (Psychology), Nicholas Smith (Psychology), Daniel Diaz (Psychology), Ruth Breckinridge Church* (Psychology).

12:10 PM  “AN EVALUATION OF COLLEGE STUDENT’S ACADEMIC EXPERIENCES,” Stephanie Finne (Psychology, McNair Scholars Program), Amanda Dykema-Engblade* (Psychology).


12:40 PM  “WHAT ROLE CAN GESTURE PLAY FOR MATH LEARNING IN CHILDREN WITH AUTISM?” Maida Espinosa (Psychology), Aracely De La Luz (Psychology), Ruth Breckinridge Church* (Psychology).

12:55 PM  “ALL ABOUT YOU: DO NARCISSISTIC INDIVIDUALS PREFER SECOND PERSON POINT OF VIEW IN ADVERTISEMENTS?” Sylwia Zalinska (Psychology, University Honors Program), Amanda Dykema-Engblade* (Psychology).

(Presenter is underlined and Faculty Sponsor* is denoted by an asterisk)
Session 3  
Student Union 003  
Presiding: Jon Hageman, Anthropology and University Honors Program  
Discussants before break: Michael Wenz, Economics, Marek Michalski Michalska, Accounting, Business Law and Finance (Universidad San Francisco de Quito, Ecuador).  
Discussants after break: Michael Wenz, Economics, Marek Michalski Michalska, Accounting, Business Law and Finance (Universidad San Francisco de Quito, Ecuador).

9:00 AM  “COMPETITIVENESS FACTORS IN THE LOGISTICS SECTOR IN ECUADOR: THE KEY ASPECTS - LOGISTIC PERFORMANCE,” Mishell Salamea (Accounting, Business Law and Finance, Universidad San Francisco de Quito, Ecuador), Viviana Calderón (Accounting, Business Law and Finance, Universidad San Francisco de Quito, Ecuador), Marek Michalski Michalska* (Accounting, Business Law and Finance, Universidad San Francisco de Quito, Ecuador).


10:00 AM NATIONAL WALK OUT OF SCHOOL AGAINST GUN VIOLENCE (OPTIONAL)

10:10 AM BREAK
10:20 AM  “COMPETITIVENESS FACTORS IN THE LOGISTICS SECTOR IN ECUADOR: THE KEY ASPECTS – ASSURANCE,” Pamela Benalcazar (Accounting, Business Law and Finance, Universidad San Francisco de Quito, Ecuador), María José Reyes (Accounting, Business Law and Finance, Universidad San Francisco de Quito, Ecuador), María Alejandra Cevallos (Accounting, Business Law and Finance, Universidad San Francisco de Quito, Ecuador), Marek Michalski Michalska* (Accounting, Business Law and Finance, Universidad San Francisco de Quito, Ecuador).

10:40 AM  “COMPETITIVENESS FACTORS IN THE LOGISTICS SECTOR IN ECUADOR: THE KEY ASPECTS - EMPATHY,” Dayana Quevedo (Accounting, Business Law and Finance, Universidad San Francisco de Quito, Ecuador), Diana Zaldumbide (Accounting, Business Law and Finance, Universidad San Francisco de Quito, Ecuador), Martín Galarza (Accounting, Business Law and Finance, Universidad San Francisco de Quito, Ecuador), Emilio Cedeño (Accounting, Business Law and Finance, Universidad San Francisco de Quito, Ecuador), Marek Michalski Michalska* (Accounting, Business Law and Finance, Universidad San Francisco de Quito, Ecuador).

11:00 AM  “THE IMPACT OF CORPORATE SOCIAL RESPONSIBILITY ON A FIRM’S FINANCIAL PERFORMANCE: U.S ENERGY SECTOR.,” Thomas Hodge (Economics), Twinkle Patel (Economics), Philip Ahn (Economics), Marilyn Huerta (Economics), Hardik Marfatia* (Economics).

11:20 AM  COFFEE BREAK

11:40 AM  “INVERSION,” Nicholas Bianchi (Economics), Roger Bailey (Economics), Steven Gaski (Economics), Jonathon Sepulveda (Economics), Hardik Marfatia* (Economics).

12:00 PM  “CRYPTOCURRENCY VS CONVENTIONAL CURRENCY: MECHANICS, REGULATIONS, AND THE FUTURE,” Bryan Hernandez (Economics), Alex Massetti (Economics), Hardik Marfatia* (Economics).


(Presenter is underlined and Faculty Sponsor* is denoted by an asterisk)
Session 4  
Student Union 123  
Presiding: Judy Kaplan-Weinger, Linguistics  
Discussants before break: Richard Hallet, Linguistics  
Discussants after break: Richard Hallet, Linguistics

9:00 AM  "AVIATION ENGLISH: THE LINGUA FRANCA OF AIR TRAVEL," Becca Peterson (English), Richard Hallett* (Linguistics).


10:00 AM  NATIONAL WALK OUT OF SCHOOL AGAINST GUN VIOLENCE (OPTIONAL)

10:10 AM  BREAK


11:00 AM  "A DYING FATHER'S LETTER TO HIS DAUGHTER: A DISCOURSE ANALYSIS OF THE LETTER AND READERS' RESPONSES," Alaa Alqarni (Linguistics), Judith Kaplan-Weinger* (Linguistics).

11:20 AM  COFFEE BREAK


12:00 PM  "CROSS-CULTURAL INFLUENCES OF AMERICAN AND JAPANESE GRAPHIC NARRATIVES: A LINGUISTIC ANALYSIS," Adam Erbacher

(Presenter is underlined and Faculty Sponsor* is denoted by an asterisk)
12:20 PM  "AN INVESTIGATION IN THE USE OF ENGLISH LANGUAGE IN MEXICAN ADVERTISEMENTS," Yadira Alonzo (Linguistics), Richard Hallett* (Linguistics).

12:40 PM  "WORLD ENGLISHES: THE HISTORY OF BILINGUAL EDUCATION VERSUS ENGLISH-ONLY INSTRUCTION IN THE UNITED STATES," Lorena Wojciak (Linguistics), Richard Hallett* (Linguistics).

1:00 PM  "CRITICAL DISCOURSE ANALYSIS OF MOHAMMED BIN SALMAN'S INTERVIEW," Asma Alomari (Linguistics), Judith Kaplan-Weinger* (Linguistics).
10:40 AM  “THE DECOLONIZATION OF THE WESTERN MIND: THE RADICAL
CONSERVATISM OF ALICE WALKER AND WILLIAM O. DOUGLAS,”
Karen Fraid (Nontraditional Degree Programs), Ryan Poll* (English).

11:00 AM  “TRACTOR DAUGHTER,” Katelyn Juerjens (English), Ryan Poll* (English).

11:20 AM  COFFEE BREAK

11:40 AM  “ONLY WHITE PEOPLE ARE ALLOWED ON THE 606,” Madeline Sipiora
(English), Timothy Scherman* (English).

12:00 PM  “SHARE THE APPLES: TRUST ME,” Carly Gielarowski (English), Timothy
Scherman* (English).

12:20 PM  “THE ANTI-SEMITISM IN FOCUS AS SEEN IN POLITICAL DISCOURSE
TODAY,” Lenore Pettinger (Nontraditional Degree Programs), Timothy
Libretti* (English).

12:40 PM  “THE EMPOWERMENT OF LABOR: ZORA NEALE HURSTON’S ‘THEIR
EYES WERE WATCHING GOD’ AND ‘SWEAT’,” Michael Smoody
(English), Timothy Libretti* (English).

Session 6
Student Union 214
Presiding: Pamela Geddes, Biology
Discussants before break: Jorge Cantu and Emina Stojkovic, Biology
Discussants after break: Mary Kimble and Aaron Schirmer, Biology

9:00 AM  “EFFECTS OF COVER ACCESS ON THE CIRCADIAN LOCOMOTOR
RHYTHMS OF MICE,” Gabriela Naveda (Biology), Aaron Schirmer*
(Biology).

9:20 AM  “CORRELATED NEURAL ACTIVITY IN THE OPTIC LOBE AND
VENTRAL NERVE CORD OF THE PRAYING MANTIS CONFIRMS THE
LINK BETWEEN SUBJECTIVE PREY RECOGNITION AND THE
PREDATORY STRIKE,” Courtney Nielsen (Biology), Benjamin Prete
(Biology) Homeschooled, Frederick Prete* (Biology).

9:40 AM  “IS NATIVE CATTAIL ON THE DECLINE? A CASE STUDY IN VOLO

Presenter is underlined and Faculty Sponsor* is denoted by an asterisk)
BOG STATE NATURAL AREA, IL,” Lynnette Murphy (Environmental Science Program), Pamela Geddes* (Biology).

10:00 AM NATIONAL WALK OUT OF SCHOOL AGAINST GUN VIOLENCE (OPTIONAL)

10:10 AM BREAK

10:20 AM “THE USE OF MICROSATELLITES TO GENETICALLY IDENTIFY A POTENTIAL POPULATION OF TYPHA DOMINGENSIS IN MIDDLETON, WISCONSIN,” Kayla Martinez-Soto (Environmental Science Program), Pamela Geddes* (Biology).

10:40 AM “MANIPULATION OF CYCLOSIS AS A MEANS OF DETERMINING INFLUENTIAL ABIOTIC FACTORS IN ELODEA DENS A CELLS,” William Mati (Biology), Harry S. Truman College, Mahesh Gurung* (Biology, Harry S. Truman College).

11:00 AM “IDENTIFYING NEW COMPONENTS THAT MEDIATE FIBROBLAST GROWTH FACTOR RECEPTOR SIGNALING,” Victoria Puccini de Castro (Biology, University Honors Program), Omar Payan Parra (Biology), Mariya Stefinko (Biology), Michael Stern* (Biology), Cindy Voisine* (Biology), Te-Wen Lo* (Biology, Ithaca College).

11:20 AM COFFEE BREAK

11:40 AM “ANALYSIS OF ROS SENSITIVITY IN WILDTYPE, NICOTINE RESISTANT AND SUPEROXIDE DISMUTASE DEFICIENT STRAINS OF DROSOPHILA MELANOGASTER,” Saulius Miniotas (Biology), Mary Kimble* (Biology).

12:00 PM “ASSESSING ESSENTIAL OILS FOR ALTERNATIVE CONTROL MECHANISMS AGAINST MULTIDRUG RESISTANT PSEUDOMONAS AERUGINOSA,” David Alvarado (Biology, McNair Scholars Program), Emily Booms* (Biology).

12:20 PM “PHOTORECEPTORS IN MYXOBACTERIA: IMPLICATIONS FOR LIGHT-CONTROL OF MULTICELLULAR ASSEMBLIES,” Nicholas Martinez (Biology, University Honors Program), Emina Stojkovic* (Biology).

(Presenter is underlined and Faculty Sponsor* is denoted by an asterisk)
Session 7
Student Union 215
Presiding: Melinda Storie, Geography and Environmental Studies
Discussants before break: Chandana Meegoda and Dilusha Harischandra, Chemistry
Discussants after break: Samantha Brown-Xu, Chemistry, Emina Stojkovic, Biology

9:00 AM  “CREATING THERAPEUTIC PROTOCOLS TO PREVENT AND TREAT INSULIN RESISTANCE, METABOLIC SYNDROME AND MAGNESIUM DEFICIENCY,” William V. Hehemann, III (College of Lake County), Jeanine Seitz-Partridge* (Biology, College of Lake County), Cynthia Trombino* (Biology, College of Lake County).

9:20 AM  “DETERMINING THE EFFECT OF ISLET NEOGENESIS ASSOCIATED PROTEIN - PEPTIDE AND METHYLGLOXAL ON PANCREATIC RINM5F CELLS,” Kerald Gonzales (Chemistry, University Honors Program), Jing Su* (Chemistry), Sue Mungre* (Biology).

9:40 AM  “USING BIOINFORMATICS TO DESIGN AFFECTIVE DRUGS FOR TYPE I DIABETES,” Jazmine McDougald (Biology), Jing Su* (Chemistry).

10:00 AM  NATIONAL WALK OUT OF SCHOOL AGAINST GUN VIOLENCE (OPTIONAL)

10:10 AM  BREAK

10:20 AM  “DEVELOPMENT AND VALIDATION OF A REVERSE PHASE LIQUID CHROMATOGRAPHY METHOD COUPLED TO ULTRA-VIOLET SPECTROSCOPY DETECTOR FOR TESTING PANTOPRAZOLE SODIUM RAW MATERIAL AND DEGRADANTS PRODUCTS,” Rose Yaghi (Chemistry), John Albazi* (Chemistry).

10:40 AM  “METHOD DEVELOPMENT AND VALIDATION FOR SEPARATION OF NINE PHARMACEUTICAL RAW MATERIALS USING REVERSED-PHASE LIQUID CHROMATOGRAPHY AND DRYLAB® SIMULATION,” Lena Ghadimipo (Chemistry), John Albazi* (Chemistry).

11:00 AM  “THE POWER OF DRYLAB® MODELING SOFTWARE IN METHOD DEVELOPMENT AND ROBUSTNESS VALIDATION FOR SEPARATION OF SEVEN PHARMACEUTICAL ACTIVE INGREDIENTS USING REVERSED-PHASE LIQUID CHROMATOGRAPHY,” Ammar Albayati (Chemistry), John Albazi* (Chemistry).

(Presenter is underlined and Faculty Sponsor* is denoted by an asterisk)
11:20 AM  COFFEE BREAK

11:40 AM  “ARSENOPLATINS-PLATINUM PRODRUGS FOR DELIVERING ARSENIC-TRIOXIDE TO SOLID TUMORS,” Sara Abuhadba  (Chemistry), Denana Miodragovic*  (Chemistry), Thomas O’Halloran  (Chemistry, Northwestern University).

12:00 PM  “THE PRESERVATION OF OSTEEOLOGICAL REMAINS WITHIN ALKALINE MATRICES,” Elise Adams  (Anthropology, University Honors Program), Lesa Davis*  (Anthropology).

12:20 PM  “STRUCTURAL CHARACTERIZATION OF BACTERIAL RED LIGHT PHOTORECEPTORS USING ATOMIC FORCE MICROSCOPY,” Juliet Salivo  (Biology), Rima Rebiai  (Chemistry), Emina Stojkovic*  (Biology), Ken Nicholson*  (Chemistry), Stefan Tsonchev*  (Chemistry).

12:40 PM  “ANATOMICAL EXAMINATION OF FRESHWATER SPONGES FROM THE CHICAGO RIVER AND VOLO BOG,” Nureen Ansari  (Biology, University Honors Program), Jennifer Slate*  (Biology).

1:00 PM  “ANALYSIS OF ROUND GOBY (NEOGOBIUS MELANOSTOMUS) DISPERSAL INTO THE DUPAGE RIVER BRANCHES,” Endora Roberts  (Biology), Wilbur Wright College, Phillip Willink*  (Shedd Aquarium).

Session 8
Student Union 216
Presiding: Alberto Lopez, College of Education
Discussants before break: Shedeh Tavakoli and Laura Tejada, Counselor Education
Discussants after break: Hanna Kim and Hector Morales, Teacher Education, Sandra Williams, Literacy, Leadership and Development

9:00 AM  “A STUDY OF PROFESSIONALS’ ATTITUDES TO WORKING WITH COMORBID TRAUMA AND ADDICTION,” Galina Lipkin  (Counselor Education), Shedeh Tavakoli*  (Counselor Education).

9:20 AM  “LITERATURA CHICAGÜENSE INMIGRANTE MEXICANA,” Miguel Mendez  (World Languages and Cultures, McNair Scholars Program), Angela Vidal-Rodriguez*  (Counselor Education), Brandon Bisbey*  (World Languages and Cultures).

(Presenter is underlined and Faculty Sponsor* is denoted by an asterisk)
9:40 AM  “TEST CASE OF NARRATIVE INTERVIEWING TO INCREASE STUDENT ATHLETE SELF-EFFICACY THROUGH CAREER EXPLORATION,”  John Coumbe-Lilley  (Counselor Education), Michele Kane* (Counselor Education).

10:00 AM  NATIONAL WALK OUT OF SCHOOL AGAINST GUN VIOLENCE (OPTIONAL)

10:10 AM  BREAK

10:20 AM  “THE EXPERIENCES OF A MALE PRIMARY CAREGIVER OF AN INDIVIDUAL WITH DOWN SYNDROME,”  Alexis McCall  (Counselor Education), Laura Tejada* (Counselor Education).

10:40 AM  “ADVOCATING FOR PHYSICAL EDUCATION IN SCHOOLS,”  Mercedes Reyes  (Health Sciences and Physical Education),  Daniel Ehrlich  (Health Sciences and Physical Education),  Jose Valencia  (Health Sciences and Physical Education),  Kimberly Maljak*  (Health Sciences and Physical Education).

11:00 AM  “ORCHID CANDY COMPANY: A CASE STUDY IN HRD NEEDS ASSESSMENT,”  Kelly McGreevey  (Literacy, Leadership, and Development), Sandra Williams* (Literacy, Leadership, and Development).

11:20 AM  COFFEE BREAK

11:40 AM  “THE IMPACT OF INQUIRY-BASED TEACHING ON STUDENTS’ LEARNING,”  Maria Aguirre  (Educational Inquiry and Curriculum Studies), Huseyin Colak* (Educational Inquiry and Curriculum Studies).

12:00 PM  “THE IMPACT OF INQUIRY-BASED TEACHING ON STUDENTS’ MATH LEARNING,”  Andrew Nieto  (Educational Inquiry and Curriculum Studies), Huseyin Colak* (Educational Inquiry and Curriculum Studies).


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

1:00 PM  “THE IMPACT OF INQUIRY-BASED TEACHING ON STUDENTS’ SCIENCE-BIOLOGY LEARNING,” Ethan Porter (Educational Inquiry and Curriculum Studies), Huseyin Colak* (Educational Inquiry and Curriculum Studies).

Session 9  
Student Union 217 
Presiding: Lewis Gebhardt, Linguistics 
Discussants before break: Shahrzad Mahootian, Linguistics 
Discussants after break: Shahrzad Mahootian, Linguistics

9:00 AM  “PHONOLOGY AS A MARKER OF NATIONAL AND GENDER IDENTITY IN MODERN JORDAN: THE CASE OF /Q/,” Sami Jiries (Linguistics), Lewis Gebhardt* (Linguistics).


10:00 AM NATIONAL WALK OUT OF SCHOOL AGAINST GUN VIOLENCE (OPTIONAL)

10:10 AM BREAK


(Presenter is underlined and Faculty Sponsor* is denoted by an asterisk)
11:00 AM  “NARRATIVES AND DISCOURSES OF DARFUR GENOCIDE SURVIVORS: MEMORIES OF NASAMA ABDUL-KHALIK,” Nafisa Sharfi (Linguistics), Judith Kaplan-Weinger* (Linguistics).

11:20 AM  COFFEE BREAK


Session 10
Student Union 218
Presiding: Lidia Filus, Mathematics
Discussants before break: Mathew Graham and Nabil Kahouadji, Mathematics
Discussants after break: Shan Wang, Mathematics, Hardik Marfatia, Economics

9:00 AM  “ECONOMIC DISPARITY AND STUDENT DEBT,” Umama Fakher (Computer Science), Julio Quito (Accounting, Business Law and Finance), Joseph Hibdon* (Mathematics).

9:20 AM  “MODELING OF NEURAL OSCILLATION USING AGENT-BASED MODEL: A MODIFICATION OF “VIRUS ON A NETWORK”,” Russell Injerd (Mathematics), Anthony Smith (Biology, McNair Scholars Program), Joseph Hibdon* (Mathematics).


(Presenter is underlined and Faculty Sponsor* is denoted by an asterisk)
10:00 AM  NATIONAL WALK OUT OF SCHOOL AGAINST GUN VIOLENCE (OPTIONAL)

10:10 AM  BREAK


10:40 AM  “SPATIAL GAMES AND EVOLUTIONARY DYNAMICS,” Agustin Garcia (Mathematics), Brandon Byrne (Mathematics), Joseph Hibdon* (Mathematics).

11:00 AM  “THE EFFECTS OF CLIMATE CHANGE ON GOOSE MIGRATION,” Audrey Kaminski-Morris (Biology), Paul Brinkmann (Nontraditional Degree Programs), Joseph Hibdon* (Mathematics).

11:20 AM  COFFEE BREAK

11:40 AM  “UNDERSTANDING THE SPREAD OF DISEASE OUTBREAKS USING COMPUTER SIMULATION,” Uzma Ain (Biology), Jeremiah Santos (Computer Science, University Honors Program), Estefania Figueroa (Biology, McNair Scholars Program), Jennifer Slate* (Biology), Rachel Adler* (Computer Science).

12:00 PM  “GEOMETRIZATION OF TUMOR GROWTH MODELING FOR MRI,” Stephanie Webb (Mathematics, Chicago CHEC project), Nabil Kahouadjii* (Mathematics), Daniele Procissi* (Other), Northwestern University.

12:20 PM  “TUMOR RESPONSE TO IMMUNOTHERAPY: A MODIFIED PREDATOR-PREY MODEL,” Krista Lotesto (Biology, Chicago CHEC project, University Honors Program), Emma Turian* (Mathematics).

12:40 PM  “CHARACTERIZING THE ROLE OF GLAIKIT IN OXIDATIVE STRESS IN DROSOPHILA MELANOGASTER,” Deborah Onofrei (Biology, Chicago CHEC project), Charlotte Salameh (Biology, Chicago CHEC project, University Honors Program), Chris Corso (Biology, Chicago CHEC project), Rolan Milutinovic (Biology, Chicago CHEC project), Elyse Bolterstein* (Biology).

(Presenter is underlined and Faculty Sponsor* is denoted by an asterisk)
1:00 PM  “STRATEGIES TO REDUCE ADVANCED GLYCATION END PRODUCTS, A POTENTIAL BIOMARKER FOR AGGRESSIVE FORMS OF PROSTATE CANCER,” Jacob Manlucu (Biology, Chicago CHEC project), Cindy Voisine* (Biology), Larisa Nonn* (Biology), University Illinois at Chicago.

Session 11
Student Union 219
Presiding: Kimberly Ambriz, Art
Discussants before break: Nate Mathews, David Criner and Jeff Krantz, Art
Discussants after break: Nate Mathews, Galatea Konotos, Katie Duffy and William Sieger, Art

9:00 AM  “FLUIDITY,” Geovani Galvez (Art), Kimberly Ambriz* (Art).


9:40 AM  “HANDS OF GOD,” Lidiya Mutafchieva (Art), Nathan Mathews* (Art).

10:00 AM  NATIONAL WALK OUT OF SCHOOL AGAINST GUN VIOLENCE (OPTIONAL)

10:10 AM  BREAK


11:00 AM  “MIORROPHERE: A LAND PLAGUED WITH WAR, HEROES, AND BEASTS,” Michal Dziewiatkowski (Art), Nathan Mathews* (Art).

11:20 AM  COFFEE BREAK


12:00 PM  “SEVEN DEADLY SINS,” Elizabeth Alvarado (Art), Nathan Mathews* (Art).

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

12:40 PM  “LIFE CYCLE,” Judy Cho (Art), Nathan Mathews* (Art).

1:00 PM  “SOCIAL UNCONFORMITIES,” Jose Carbajal (Art), Nathan Mathews* (Art).

1:20 PM  “MIRROR POSITIVE SENTIMENTS,” Ashley Ariza (Art), Nathan Mathews* (Art).

Session 13
Angelina Pedroso Center B159
Presiding: Angela Vidal-Rodriguez, McNair Scholars Program
Discussants before break: Jin Kim and Andrew Brake, Social Work
Discussants after break: Marius Dancea and Luis Ortiz, Social Work

9:00 AM  “THE PERCEPTIONS OF VIOLENCE, TRAUMA AND MENTAL HEALTH,” Aide Hernandez (Social Work, University Honors Program), Courtney Francis* (Social Work).


9:40 AM  “EXAMINING VIOLENCE AGAINST WOMEN TERMINOLOGY WITHIN SURVEY RESEARCH, THE NEWS MEDIA, AND SERVICE ADVERTISING,” Nia Giolas (Justice Studies, University Honors Program), Adam Messinger* (Justice Studies), Rachel Birmingham* (Justice Studies).

10:00 AM  NATIONAL WALK OUT OF SCHOOL AGAINST GUN VIOLENCE (OPTIONAL)

10:10 AM  BREAK

10:20 AM  “THE EFFECTIVENESS OF AN AFTER-SCHOOL PROGRAM DESIGNED TO TARGET TEENAGE WOMEN FROM WELLS HIGH

(Presenter is underlined and Faculty Sponsor* is denoted by an asterisk)
SCHOOL,” Monserrat Vazquez Sanchez (Social Work, University Honors Program), Luis Ortiz* (Social Work).


11:00 AM “STRANDED ON THE SOUTHSIDE: A CASE STUDY OF A TRANSIT DESERT,” Anne Wallace (Sociology), Andreas Savas-Kourvetaris* (Sociology).

11:20 AM COFFEE BREAK


12:00 PM “THE CHANGING FACE OF DEMOCRACY: THE INFLUENCE OF NEOLIBERALIST THINKING ON REPRESENTATIVE GOVERNMENT,” Annette Cochere (Political Science), Sophia Mihic* (Political Science).

12:20 PM “PERSONAL IDENTITY AND HOW OUR PEERS AFFECT OUR IDENTITES,” Sarah Tenuta (Philosophy), Stacey Goguen* (Philosophy).

12:40 PM “SUPPORTIVE INTERGENERATIONAL RELATIONSHIPS IN THE LGBTQ COMMUNITY,” Benjamin Anderson (Social Work), Patricia Aguado* (Social Work).

1:00 PM “PARENT EDUCATION CLASSES: MANDATED VS. VOLUNTEER,” Amaryllis Rivera (Social Work), Patricia Aguado* (Social Work).

(Presenter is underlined and Faculty Sponsor* is denoted by an asterisk)
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, Joel Olfelt, Biology and Student Center for Science Engagement

ACCOUNTING, BUSINESS LAW AND FINANCE


3  “MARKETING PLAN FOR NEW MARKET PRODUCT: DOG WALKING DRONE,” Miriam Espinoza (Other), Maria Lucia Carrasco (Other), Candace Holmes (Other), Sabina Mackic (Other), Franky Sandoval (Other), Chunwei Xian* (Accounting, Business Law and Finance).


5  “MINDSET THE NEW PSYCHOLOGY OF SUCCESS,” Alexis Perez (English), Chunwei Xian* (Accounting, Business Law and Finance).


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


STEM PROGRAMS

“CELL TO CELL SPREADING OF TDP-43 C-TERMINAL FRAGMENTS IN CAENORHABDITIS ELEGANS,” Phoenix Toboz (Biology), Cindy Voisine* (Biology).

“DOES A DECLINE IN ORGANISMAL HEALTH REFLECT THE SPREADING OF TOXIC FORMS OF TDP-43?” Rocio Avila (Chemistry), Cindy Voisine* (Biology).

“USING NEURONAL HYPERSENSITIVITY IN C. ELEGANS TO IDENTIFY SMALL MOLECULES INHIBITORS OF ADVANCED GLYCATION END PRODUCTS,” Diana Maldonado (Biology), Chido Chikuturudzi (Biology), Cindy Voisine* (Biology).

“A WINDOW INTO ANTIBIOTICS AND ESSENTIAL OILS: POTENTIAL SYNERGISM TO FIGHT PSEUDOMONAS AERUGINOSA DRUG RESISTANCE,” Noemi Hernandez (Biology, McNair Scholars Program), David Alvarado (Biology, McNair Scholars Program), Emily Booms* (Biology).

“COMPUTATIONAL THINKING IN A CONTEMPORARY CLASSROOM,” Michael Konecki (Educational Inquiry and Curriculum Studies), Stuart Thiel

(Presenter is underlined and Faculty Sponsor* is denoted by an asterisk)
19 "MORPHOLOGICAL VARIATION WITHIN FRESHWATER SPONGES SUGGESTS POTENTIAL FOR UNDESCRIBED SPECIES," Georgia Tiniakos (Biology), Angelica Adams (Biology) Assil Shawkap (Biology), Jennifer Slate* (Biology).

20 "PROBING THE MOLECULAR MECHANISM OF RECEPTOR TYROSINE KINASE ENZYMATIC ACTIVATION THROUGH THE ANALYSIS OF HETERODIMERS OF THE C. ELEGANS FGF RECEPTOR, EGL-15," Omar Payan Parra (Biology), Victoria Puccini de Castro (Biology, University Honors Program), Mariya Stefinko (Biology), Michael Stern* (Biology), Cindy Voisine* (Biology).

21 "MECHANISM OF ACTION STUDIES OF NOVEL INHIBITORS OF THE MYCOBACTERIUM TUBERCULOSIS DOSS AND DOST SENSOR KINASES," Ryan Borchert (Biology, University Honors Program, McNair Scholars Program), Huiqing Zheng (Biology, Michigan State University), Robert Abramovich* (Biology, Michigan State University).

22 "CURCUMIN REVERSES METHYLGLYOXAL INDUCED APOPTOSIS IN RINM5F CELLS AND PC12 CELLS IN HYPERGLYCEMIC CONDITIONS," Shaima Patangia (Biology, McNair Scholars Program), Sue Mungre* (Biology).

23 "GO MEDS," Karah Powell (Richard T. Crane Medical Prep High School), Beatrice Nicole Salas (Richard T. Crane Medical Prep High School), Karen Gibbs* (Counseling, Postsecondary Liaison), Alice Pennammon* (Coordinator, African American Recruitment)

24 METHOD DEVELOPMENT AND VALIDATION FOR SEPARATION OF NINE PHARMACEUTICAL RAW MATERIALS USING REVERSED-PHASE LIQUID CHROMATOGRAPHY AND DRYLAB® SIMULATION," Maram Aldeeb (Chemistry), John Albazi* (Chemistry).

25 "METHOD DEVELOPMENT AND VALIDATION FOR DETERMINATION OF BUSPIRONE HYDROCHLORIDE IN BUSPIRONE HYDROCHLORIDE DRUG SUBSTANCE USING REVERSED-PHASE LIQUID CHROMATOGRAPHY," Ripalben Patel (Chemistry), John Albazi* (Chemistry).
“METHOD DEVELOPMENT AND ROBUSTNESS VALIDATION FOR SEPARATION OF NINE PHARMACEUTICAL ACTIVE INGREDIENTS USING REVERSED-PHASE LIQUID CHROMATOGRAPHY WITH DRY LAB® STIMULATION,” Monika Rasic (Chemistry), John Albazi* (Chemistry).

“STABILITY INDICATING METHOD DEVELOPMENT AND VALIDATION FOR THE DETERMINATION OF TORSEMIDE RAW MATERIAL AND DEGRADANT PRODUCTS BY UTILIZING REVERSED-PHASE LIQUID CHROMATOGRAPHY,” Shivangiben Patel (Chemistry), John Albazi* (Chemistry).

“THE PEERS PROJECT: ENGAGING UNDERGRADUATE COMPUTER SCIENCE STUDENTS THROUGH RESEARCH MODULES,” Rhys Gunther (Mathematics, University Honors Program), Rachel Trana* (Computer Science), Akkady Tchaba* (Computer Science).

“IMPROVING NUTRIENT USE DEFICIENCY BY DETERMINING CRITICAL PHOSPHOROUS CONCENTRATION FOR CORN AND SOYBEAN,” Rashanda Elijio (Earth Science), Laura Sanders* (Earth Science).

“COMPARISON OF LIQUID CO2 VS. ORGANIC SOLVENT EXTRACTION OF GROUND CUMIN BY GC-MS,” Woodger Faujas (Harry S. Truman College), Charles Abrams* (Harry S. Truman College).

“DESIGN OF A LARGE SCALE LIQUID CO2 EXTRACTION SOXHLET USING A 3D PRINTER,” Sonali Verma (Harry S. Truman College), Charles Abrams* (Harry S. Truman College).

“DISSECTION OF SPINED SOLDIER BUG ADULTS AND INSTARS FOR ANALYSIS OF THEIR SEMIOCHEMICALS,” Amanda Loutris (Harry S. Truman College), Charles Abrams* (Harry S. Truman College).


“SYNTHESIS OF 2-OXO-2-HEXENAL IN THE UNDERGRADUATE LABORATORY,” Olivert Mbah (Harry S. Truman College), Kevin Kordi

(Presenter is underlined and Faculty Sponsor* is denoted by an asterisk)
(Harry S. Truman College), Charles Abrams* (Harry S. Truman College).

35  “BREAST CANCER REHABILITATION AND SURVIVORSHIP,” Manashi Dutta (Other), Moira Stuart (Other).

36  “DESIGN AND ASSESSMENT OF A PICO HYDROPOWER DEMONSTRATION UNIT USING A CENTRIFUGAL PUMP AS A TURBINE,” Patricia Leon (University Honors Program, McNair Scholars Program), Paul Davidson* (University of Illinois Urbana-Champaign), Michelle Green (University of Illinois Urbana-Champaign).

37  “EXTREMELY LOW EARTH ORBIT (ELEO) STUDIES USING A THIN-SATELLITE,” Diego Rojas (Wright College), Soma Dey* (Wright Community College).

**PSYCHOLOGY**

38  “COMPARING APPLES TO ORANGES: FRUIT FLAVOR PREFERENCES BY GENDER,” Jason Stern (Psychology), Amanda Dykema-Engblade* (Psychology).


40  “CONSUMPTION AND LIFESTYLE HABITS,” Brittny Fisher (Psychology), Luz Flores (Psychology), Amanda Dykema-Engblade* (Psychology).

41  “DOES COUNTRY ‘ALLEGIANCE’ INFLUENCE IMPRESSIONS FORMED OF AN INDIVIDUAL?” Olivia Goree (Psychology), Sara Nesis (Psychology), Annie Butt (Psychology), Joahnna Garcia (Psychology), Amanda Dykema-Engblade* (Psychology).

42  “EATING BEHAVIOR, ASSOCIATED EMOTIONS AND FOOD PREFERENCES,” Lovise Bjørner (Psychology), Sara Nesis (Psychology), Amanda Dykema-Engblade* (Psychology).

43  “EXAMINING WHAT PICTURES CAN TELL US ABOUT OUR CHOICES OF FOODS,” Brendan Maigler (Psychology), Seth Thomas (Psychology), Amanda Dykema-Engblade* (Psychology).

(Presenter is underlined and Faculty Sponsor* is denoted by an asterisk)
“IDENTIFYING EATING HABITS AND FOOD CHOICES AMONG UNIVERSITY STUDENTS,” Erna Kellmendi (Psychology), Betsy Tavizon (Psychology), Amanda Dykema-Engblade* (Psychology).


“PERCEPTIONS OF VIOLENT CRIMINALS,” Trevor Hempel (Psychology, University Honors Program), Tatiana Rosales (Psychology), Caroline Rhodes (Psychology), Christina Zaworski (Psychology), Amanda Dykema-Engblade* (Psychology).

“THE IMPACT OF SHIRT COLOR AND OCCUPATION ON THE IMPRESSIONS OF MEN BY HETEROSEXUAL WOMEN,” Alexis Aguilar (Psychology), Elizabeth Pentek (Psychology), Katherine Loor (Psychology), Amanda Dykema-Engblade* (Psychology).


“YOU ARE WHAT I EAT: AN EXPLORATORY STUDY OF GUSTATORY EFFECTS AND PERCEPTION OF INDIVIDUALS,” Stephanie Landazzi (Psychology), Danielle Susina (Psychology), Amanda Dykema-Engblade* (Psychology).

“THE INFLUENCE OF GENDER AND WEIGHT ON JUDGMENTS OF AN INDIVIDUAL,” Elba Albarran (Psychology), Amanda Dykema-Engblade* (Psychology).

“THE ROLES OF GENDER AND SEXUAL ORIENTATION ON LEADERSHIP EVALUATION AND FAVORABILITY RATINGS,” Marlen Parra (Psychology), Mayra Deluna (Psychology), Erika Molina Ramirez (Psychology), Karen Ryan (Psychology), Amanda Dykema-Engblade* (Psychology).

“CORRELATIONAL STUDY ON DEPRESSIVE SYMPTOMS,” Valerie Olson (Psychology), Brittany Burns (Psychology), Raynal Cherenfant (Psychology), Katrina Ramirez (Psychology), Rolando Serna

(Presenter is underlined and Faculty Sponsor* is denoted by an asterisk)
“MEDIA AND TECHNOLOGY USAGE AND INTERPERSONAL FACTORS OF SUICIDE IN MILLENNIALS,” Adriana Sosa (Psychology, University Honors Program), Christopher Merchant* (Psychology).

“RELATIONSHIP BETWEEN CULTURAL VALUES AND MENTAL HEALTH ATTITUDES,” Lesly Guzman (Psychology, University Honors Program), Maureen Erber* (Psychology).

“MIXED MESSAGES: ARE WOMEN BETTER AT DETECTING NONVERBAL CUES?” Rabia Hasan (Psychology), Abilen Ortega-Salazar (Psychology), Ruth Breckinridge Church* (Psychology).

“OPTIC NERVE CRUSH ALTERS THE LIGHT ADAPTED ERG OF ADULT ZEBRAFISH,” Josué Franco (Psychology, University Honors Program), André Herrera Charpentier (Psychology), Shannon Saszik* (Psychology).

“THE EFFECTS OF PROPRANOLOL (PROP) ON SOCIAL ANXIETY IN ZEBRAFISH,” Caroline López-Martinez (Biology, McNair Scholars Program), Shannon Saszik* (Psychology).

SOCIAL WORK


“PARENTS PERSPECTIVE ON THE IMPACT OF PERFORMING ARTS ON THEIR CHILDREN,” Elizabeth Moreno (Social Work), Angel Resto-Gallardo* (Social Work).


“THE IMPACT OF PARTICIPATION OF THE NATURALIZATION WORKSHOP AND APPLICATION COMPLETION ON LEGAL IMMIGRANTS IN CHICAGO,” Kit Ha Stella Tung (Social Work), Angel

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

“SINGLE PARENTING AND ITS EFFECT ON AFRICAN AMERICAN MALE SELF-ESTEEM,” Agnieszka Balcazar (Social Work, University Honors Program), Angel Resto-Gallardo* (Social Work).


“BEHAVIORAL RISK AMONG DIFFERENT ETHNICITIES,” Dulce Dominguez (Social Work, University Honors Program), Jin Kim* (Social Work).

“SOCIAL SUPPORT AND MOTIVATION TO MAINTAIN SOBRIETY AMONG RESIDENTS IN RECOVERY HOMES,” Christina Chavira (Social Work), Jin Kim* (Social Work).

“TAPP PROGRAM EVALUATION,” Wareesha Sohail (Social Work, University Honors Program), Jin Kim* (Social Work).

“DETERMINATIONS REGARDING CHILD WELFARE AFTER INVESTIGATIONS ARE COMPLETED BY DCFS,” Maybeth Gomez (Social Work, University Honors Program), Luis Ortiz* (Social Work).

“EFFECTS OF WORLD RELIEF’S IMMIGRATION LEGAL SERVICES WORKSHOP ON NATURALIZATION APPLICANTS IN CHICAGO,” Dennis Akpona (Social Work, University Honors Program), Luis Ortiz* (Social Work).

“THE EFFECTS OF EARLY HEAD START CURRICULUMS ON HEALTHY DEVELOPMENT,” Lizbeth Rosas-Reyes (Social Work, University Honors Program), Luis Ortiz* (Social Work), Donald Waddell*
IMPACT OF SOCIAL SERVICES ON UNDERSERVED INDIVIDUALS,
Monika Isaac (Social Work), Luis Ortiz* (Social Work).

WHAT ARE ALTERNATIVES TO MENTAL HEALTH SERVICES?
Griselda De Luna (Social Work), Pacticia Aguado* (Social Work).

THE DANGERS OF GENTRIFICATION - HOLDING GROUND IN HERMOSA,
Vicki Ginn (Social Work), Sara Barrera (Social Work),
Joycelyne Jones (Social Work), Meredith Weber (Social Work), Patricia Aguado* (Social Work).

ANTHROPOLOGY, JUSTICE STUDIES, TEACHER EDUCATION

YOU MAY HAVE HEARD OF ME": THE HERO’S ROLE IS SPURRING ONLINE COMMUNITY FORMATION AMONG FANS OF THE KINGKILLER CHRONICLE,
Ariana Bachechi (Anthropology, University Honors Program), Tracy Luedke* (Anthropology).

THE SOCIAL CONSTRUCT SURROUNDING CANNABIS USE: THE LABELING OF BENEFITS AND NEGATIVE EFFECTS,
Verenice Mendoza (Justice Studies), Leslie Martinez (Justice Studies), Mohammed Macci (Justice Studies), Andrew Calderon (Justice Studies), Adam Messinger* (Justice Studies).

STRATEGIES FOR TEACHING SCIENCE TO ENGLISH LANGUAGE LEARNER STUDENTS (ELLS),
Lorena Aguilar (Teacher Education), Hanna Kim* (Teacher Education).

NORTHEASTERN ILLINOIS UNIVERSITY AND AMUNDSEN HIGH SCHOOL “STEM PROJECT”
BUILDING SIMPLE ELECTRIC DEVICES BY SOLDERING SIMPLE CIRCUITS,
Eman Sarhan (Amundsen High School), Eman Sarhan* (Amundsen High School), Huseyin Colak* (Educational Inquiry and Curriculum Studies)
# THE NEIU STUDENT RESEARCH & CREATIVE ACTIVITIES SYMPOSIUM IS THE EIGHTH-LONGEST RUNNING STUDENT SYMPOSIUM AMONG FIFTY UNIVERSITIES IDENTIFIED NATIONALLY

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<td>New York University</td>
<td>May, 4, 2018</td>
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<td>2</td>
<td>32nd annual National Conference on Undergraduate Research (NCUR) for students.</td>
<td>University of Central Oklahoma</td>
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<td>3</td>
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ACKNOWLEDGEMENTS

The Symposium could not have been made possible without the enthusiastic support and contributions of the following university leaders: Wamucii Njogu, Interim President; Mark McKernin, Acting Provost; Liesl Downey, Vice President for Institutional Advancement; Daniel Lopez Jr., Vice President for Student Affairs; Sandra D. Beyda, Dean, Goodwin College of Education; Michael Bedell, Dean, College of Business and Management; Katrina E. Bell-Jordan, Interim Dean, College of Arts and Sciences; Lisa Wallis, Interim Dean, Ronald Williams Library; and Michael Stern, Dean, College of Graduate Studies and Research.

The Symposium Steering Committee is especially grateful to our sponsors, the Office of Academic Affairs and the Office of Institutional Advancement. Special thanks to Toula Welbrook, Director of Communication, Academic Affairs, and Michael Hines, Director of Public Relations, for publicizing the event.

The Committee also wishes to acknowledge Angela Vidal-Rodriguez and Karen Segura, McNair Scholars Program, for their many hours of service to organize the Symposium. Special thanks to Mary Thill, Library, for facilitating the creation of this year’s online registration process and program.
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 27th Annual Northeastern Illinois University Student Research and Creative Activities Symposium in 2019.

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