

4-20-2018

## Twenty-sixth Annual Student Research and Creative Activities Symposium - April 20, 2018

Symposium Steering Committee

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**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 Olfelt, 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).
- 9:20 AM “A BODY PERMEABLE: RE-IMAGINING THE MANAGED BODY,” Kathryn Hudson (English), Mark Gunter (English), Olivia Cronk\* (English).
- 9:40 AM “RE: BAR,” Allegra Harper (English, University Honors Program), Olivia Cronk\* (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
- 11:40 AM ““THE KITCHEN IS MY TERRITORY”: THE LIMITING AND CREATIVE OPPORTUNITIES OF THE KITCHEN IN SIX FEET UNDER,” Laura Wagner (Communication, Media, and Theatre), Shayne Pepper\* (Communication, Media, and Theatre).

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- 12:00 PM "THE PROBLEM WITH HEADLINES," Liz Varnecky (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).
- 12:40 PM "ISOLATED WITH FRIENDS: ONLINE COMMUNITIES IN THE GIG ECONOMY," Elise Taylor (Communication, Media, and Theatre), Wilfredo Alvarez\* (Communication, Media, and Theatre).

## **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**

- 9:00 AM "MARKETING STRATEGY--SMART SHOWER," Sania Attawala (Accounting, Business Law and Finance), Chunwei Xian\* (Accounting, Business Law and Finance).
- 9:20 AM "FACTORS ANALYSIS OF U.S. ECONOMY 2018," Abdelrahman Yaghmour (Accounting, Business Law and Finance), Chunwei Xian\* (Accounting, Business Law and Finance).
- 9:40 AM "FINANCIAL RATIOS AND INDUSTRY ANALYSIS--S&S AIR, INC.," Elena Cociug (Accounting, Business Law and Finance), Le Huong\* (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:

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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).

- 10:40 AM "FORENSIC ACCOUNTING: THE NEW ACCOUNTING PARADIGM," Patrick Kozlowski (Accounting, Business Law and Finance), Alireza Dorestani\* (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
- 11:40 AM "MARKETING STRATEGY--NATURAL BEAUTY," Michael Matsas (Accounting, Business Law and Finance), Chunwei Xian\* (Accounting, Business Law and Finance).
- 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).

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**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).
- 9:15 AM "ARE CO-SPEECH GESTURES TRUE INDICATORS OF LYING?" Anorin Arssinous (Psychology), Aneta Slaba (Psychology) Joshua Mendez (Psychology) Furqan Muneeruddin (Psychology), Ruth Breckinridge Church\* (Psychology).
- 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

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(Psychology), Kaylie Kanzler (Psychology), Brittney 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).

12:25 PM "COOL DRINK, YOU'RE HIRED: IMPRESSIONS OF JOB CANDIDATES BASED ON DRINK CHOICE," Samuel Klein (Psychology, University Honors Program), Mierel Rehich (Psychology), Amanda Dykema-Engblade\* (Psychology), Lorilene Cuevas\* (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?" Sylvia Zalinska (Psychology, University Honors Program), Amanda Dykema-Engblade\* (Psychology).

**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).
- 9:20 AM "COMPETITIVENESS FACTORS IN THE LOGISTICS SECTOR IN ECUADOR: THE KEY ASPECTS - TANGIBILITY," Samanta Sanchez (Accounting, Business Law and Finance, Universidad San Francisco de Quito, Ecuador), Nicole Mestanza (Accounting, Business Law and Finance, Universidad San Francisco de Quito, Ecuador), Joel Andres Andocilla (Accounting, Business Law and Finance, Universidad San Francisco de Quito, Ecuador), Micaela Ceballos (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).
- 9:40 AM "COMPETITIVENESS FACTORS IN THE LOGISTICS SECTOR IN ECUADOR: THE KEY ASPECTS - RESPONSIVENESS," Cury Cabascango (Accounting, Business Law and Finance, Universidad San Francisco de Quito, Ecuador), Erika Gavilanes (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

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- 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).
- 12:20 PM "THE FINANCIAL EVALUATION IN THE BANKING INDUSTRY: A COMPARISON BETWEEN TWO BANKS, NORTHERN TRUST CO. AND US BANK CO. FOR THE YEAR 2017," Nathaniel Falk (Economics), Arkadiusz Sztuk (Economics) Zach Lugo (Economics) Cristhian Gutierrez (Economics), Hardik Marfatia\* (Economics).

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**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).
- 9:20 AM "ROOTLESS WANDERINGS: A LINGUISTIC ANALYSIS FOR UNDERSTANDING GRAPHIC NARRATIVES OF LOSS," Khadija Sabir (Linguistics), Judith Kaplan-Weinger\* (Linguistics).
- 9:40 AM "KONGLISH: THE PHENOMENON OF THE KOREAN ENGLISH VARIETY," Ligia Olariu (Linguistics, University Honors Program), Richard Hallett\* (Linguistics).
- 10:00 AM NATIONAL WALK OUT OF SCHOOL AGAINST GUN VIOLENCE (OPTIONAL)
- 10:10 AM BREAK
- 10:20 AM "CRITICAL DISCOURSE ANALYSIS OF CNN REPRESENTATION OF THE MIDDLE EAST," Alaa Alshamrani (Linguistics), Judith Kaplan-Weinger\* (Linguistics).
- 10:40 AM "A GRAPHIC NARRATIVE: A SUICIDE SURVIVOR'S TESTIMONIAL," Enriqueta Cardona (Nontraditional Degree Programs), Judith Kaplan-Weinger\* (Linguistics).
- 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
- 11:40 AM "CRITICAL DISCOURSE ANALYSIS OF ESL PODCAST," Najlaa Sheani (Linguistics), Judith Kaplan-Weinger\* (Linguistics).
- 12:00 PM "CROSS-CULTURAL INFLUENCES OF AMERICAN AND JAPANESE GRAPHIC NARRATIVES: A LINGUISTIC ANALYSIS," Adam Erbacher

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(Computer Science), Judith Kaplan-Weinger\* (Linguistics).

- 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).

### **Session 5**

#### **Student Union 124**

**Presiding: Mary Thill, Library**

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

**Discussants after break: Hanna Ann and Chielozona Eze, English**

- 9:00 AM "THE HATE U GIVE": A MEGAPHONE FOR THE MARGINALIZED," Nicole Sharp (Teacher Education, University Honors Program), Ryan Poll\* (English).
- 9:20 AM "SHATTERED: VIEWING THE HUNGER GAMES THROUGH KRISTEVA AND LACAN," Jenn Lee (English), Ryan Poll\* (English).
- 9:40 AM "A SPRAWLING, RESTRICTIVE LANDSCAPE: SOUTHERN CALIFORNIA OIL SPECULATION AND ITS EFFECT ON CONCEPTIONS OF LAND, WORK, SOCIETY, AND DEMOCRACY IN UPTON SINCLAIR'S 'OIL!'," Elias Cepeda (English), Ryan Poll\* (English).
- 10:00 AM NATIONAL WALK OUT OF SCHOOL AGAINST GUN VIOLENCE (OPTIONAL)
- 10:10 AM BREAK
- 10:20 AM "TURTLE ISLAND VERSUS THE AMERICAN WEST: HOW PRIVILEGE CAN OBSCURE IMPORTANT NARRATIVES IN NATURE WRITING," Clifton Frei (English), Ryan Poll\* (English).

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- 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

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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 Densa 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).

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**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 METHYLGLYOXAL 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 Ghadimipour (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).

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- 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 OSTEOLOGICAL 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: Shede 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), Shede 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).

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- 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).
- 12:20 PM "THE IMPACT OF INQUIRY-BASED TEACHING ON STUDENTS' SCIENCE-BIOLOGY LEARNING," Joseph Henderer (Educational Inquiry and Curriculum Studies), Huseyin Colak\* (Educational Inquiry and Curriculum Studies).

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- 12:40 PM "THE IMPACT OF INQUIRY-BASED TEACHING ON STUDENTS' SCIENCE-BIOLOGY LEARNING," Merlyn Joseph (Educational Inquiry and Curriculum Studies), Huseyin Colak\* (Educational Inquiry and Curriculum Studies).
- 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).
- 9:20 AM "THE REPRESENTATION OF RUSSIAN CULTURE AND IDENTITY IN THE AMERICANS TV SERIES," Yulia Ilina (Linguistics), Judith Kaplan-Weinger\* (Linguistics).
- 9:40 AM "FRAMING FREEDOM AND THE FOURTH AMENDMENT: AN ANALYSIS OF THE SUPREME COURT OPINION AND DISSENT IN UTAH V. STREIFF," Rebecca Clough (Linguistics), Judith Kaplan-Weinger\* (Linguistics).
- 10:00 AM NATIONAL WALK OUT OF SCHOOL AGAINST GUN VIOLENCE (OPTIONAL)
- 10:10 AM BREAK
- 10:20 AM "TURN TAKING IN CHILDREN'S DISCOURSE," Isra Abdelhadi (Linguistics), Judith Kaplan-Weinger\* (Linguistics).
- 10:40 AM "PERFORMING THE T'ZOLKIN: ANCIENT MAYA RITUAL PRACTICE MANIFEST IN CONTEMPORARY DIASPORIC COMMUNITIES," John Rosswell Cummings III (Linguistics), Judith Kaplan-Weinger\* (Linguistics).

**(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
- 11:40 AM "EMPATHETIC PREFERENCE: HOW VARYING DEGREES OF EMPATHY ARE MANIFESTED IN THE DISCUSSION OF GENOCIDES WITHIN US HISTORY TEXTBOOKS," Henry Luis Rentas (Linguistics), Judith Kaplan-Weinger\* (Linguistics).
- 12:00 PM "DISCURSIVE EVIDENCE FOR VARYING AUDIENCE DESIGN IN THE TA-NEHISI COATES ESSAYS 'THE FIRST WHITE PRESIDENT', 'THE CASE FOR REPARATIONS', AND 'MY PRESIDENT WAS BLACK', Paul Thomas (Linguistics), Judith Kaplan-Weinger\* (Linguistics).
- 12:20 PM "PLEASE ASK US WHAT WE'D LIKE TO BECOME: DISCURSIVE AGENCY THROUGH THE LENS OF NON-VERBAL AUTISM IN THE WRITING OF NAOKI HIGASHIDA," Erin Marks (Linguistics), Judith Kaplan-Weinger\* (Linguistics).

**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).
- 9:40 AM "MODIFICATION OF THE DURAND-KERNER ITERATION FOR COMPUTING MULTIPLE ROOTS," Haiyang Zhu (Mathematics), Zhonggang Zeng\* (Mathematics).

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- 10:00 AM NATIONAL WALK OUT OF SCHOOL AGAINST GUN VIOLENCE (OPTIONAL)
- 10:10 AM BREAK
- 10:20 AM "REPRESENTING STUDENT ENGAGEMENT AND ACADEMIC SUCCESS THROUGH AGENT-BASED MODELING," Amanda Bendle (Mathematics), Joseph Hibdon\* (Mathematics).
- 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 Kahouadji\* (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 "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).

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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).

9:20 AM "GENESIS AND POSTERITY: AN EXPLORATION THROUGH ANCESTRAL HISTORY," Rocio Urbano (Art), Nathan Mathews\* (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

10:20 AM "FASHION AS A FORM OF EVOLUTION AND SURVIVAL IN AFRICAN AMERICAN POP- CULTURE," James Welch (Art), Nathan Mathews\* (Art).

10:40 AM "LIMINALITY: AN EXPLORATION OF THE SPACE BETWEEN," Meghan Taylor (Art), Nathan Mathews\* (Art).

11:00 AM "MIRROROPHERE: A LAND PLAGUED WITH WAR, HEROES, AND BEASTS," Michal Dziewiatkowski (Art), Nathan Mathews\* (Art).

11:20 AM COFFEE BREAK

11:40 AM "OVERTHINKING," Ye Won Jung (Art), Nathan Mathews\* (Art).

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

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- 12:20 PM "LE DIO UN ATAQUE DE ANSIEDAD: DEALING WITH ANXIETY AND DEPRESSION," Alexandra Galvan (Art), Nathan Mathews\* (Art).
- 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).
- 9:20 AM "IMPLICATIONS OF RAPE CULTURE IN SOCIAL POLICY: ANALYSIS ON FORMATION OF SCHOOL CONDUCT AND PUNISHMENT CODES AND THEIR LONG AND SHORT-TERM EFFECTS ON SELF ESTEEM AND MENTAL HEALTH," Carolyn Hannon (Social Work), Luis Ortiz\* (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

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SCHOOL," Montserrat Vazquez Sanchez (Social Work, University Honors Program), Luis Ortiz\* (Social Work).

- 10:40 AM "PRESERVING THE RICHNESS OF THE NORTH LAWDALE COMMUNITY THROUGH EMERGING GENTRIFICATION," Hector Hernandez (Social Work), Laquita Lane (Social Work), Milagros Perez (Social Work), Dalila Rodriguez (Social Work), Patricia Aguado\* (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
- 11:40 AM "COMMUNITY ASSESSMENT - EAST GARFIELD PARK," Raevhann Rush (Social Work), Maria Seda (Social Work), Veloz Gomez (Social Work), Dora Huizar (Social Work), Patricia Aguado\* (Social Work).
- 12:00 PM "THE CHANGING FACE OF DEMOCRACY: THE INFLUENCE OF NEOLIBERALIST THINKING ON REPRESENTATIVE GOVERNMENT," Annette Cocheret (Political Science), Sophia Mihic\* (Political Science).
- 12:20 PM "PERSONAL IDENTITY AND HOW OUR PEERS AFFECT OUR IDENTITIES," 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).

## **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**

- 1 "HISTORY OF MANAGERIAL ACCOUNTING AND HOW IS CHANGING RAPIDLY WITHIN THE ORGANIZATION," Sharmin Memon (Accounting, Business Law and Finance), Chunwei Xian\* (Accounting, Business Law and Finance).
- 2 "IMPROVE TIME MANAGEMENT THROUGH THE EISENHOWER MATRIX," Antonio Ocampo (Accounting, Business Law and Finance), Chunwei Xian\* (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).
- 4 "MC DONALD," Vi Nguyen (Accounting, Business Law and Finance), Chunwei Xian\* (Accounting, Business Law and Finance).
- 5 "MINDSET THE NEW PSYCHOLOGY OF SUCCESS," Alexis Perez (English), Chunwei Xian\* (Accounting, Business Law and Finance).
- 6 "PROFESSIONAL ETHICS," Majd Alshawabkeh (Accounting, Business Law and Finance), Chunwei Xian\* (Accounting, Business Law and Finance).
- 7 "MACY'S INC.'S CURRENT SITUATION CHALLENGES AND RECOMMENDATIONS," Linh Vo (Accounting, Business Law and Finance), Dilek Yunlu\* (Accounting, Business Law and Finance).
- 8 "CARBON FOOT PRINT BUSINESS PLAN," Paul Stepkowski (Management and Marketing), Chunwei Xian\* (Management and Marketing).

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- 9 "BUSINESS GROWTH: THE IMPACT OF COMMISSION & HOURLY RATE," Khachoe Pema (Accounting, Business Law and Finance), Chunwei Xian\* (Accounting, Business Law and Finance).
- 10 "BUSINESS MANAGEMENT," Yazmin Ramos (Accounting, Business Law and Finance), Chunwei Xian\* (Accounting, Business Law and Finance).
- 11 "BUSINESS MANAGEMENT-WESTJET," Carlos Avelar (Accounting, Business Law and Finance), Chunwei Xian\* (Accounting, Business Law and Finance).
- 12 "ETHICS IN BUSINESS," Babita Joshi (Accounting, Business Law and Finance), Chunwei Xian\* (Accounting, Business Law and Finance).
- 13 "GLOBALIZATION," Mitzi Alday (Accounting, Business Law and Finance), Chunwei Xian\* (Accounting, Business Law and Finance).

#### **STEM PROGRAMS**

- 14 "CELL TO CELL SPREADING OF TDP-43 C-TERMINAL FRAGMENTS IN CAENORHABDITIS ELEGANS," Phoenix Toboz (Biology), Cindy Voisine\* (Biology).
- 15 "DOES A DECLINE IN ORGANISMAL HEALTH REFLECT THE SPREADING OF TOXIC FORMS OF TDP-43?" Rocio Avila (Chemistry), Cindy Voisine\* (Biology).
- 16 "USING NEURONAL HYPERSENSITIVITY IN C. ELEGANS TO IDENTIFY SMALL MOLECULES INHIBITORS OF ADVANCED GLYCATION END PRODUCTS," Diana Maldonado (Biology), Chido Chikaturudzi (Biology), Cindy Voisine\* (Biology).
- 17 "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).
- 18 "COMPUTATIONAL THINKING IN A CONTEMPORARY CLASSROOM," Michael Konecki (Educational Inquiry and Curriculum Studies), Stuart Thiel

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(Mathematics) , Jennifer Slate\* (Biology), Angela Nugent\* (Biology).

- 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), Huiging Zheng (Biology, Michigan State University), Robert Abramovitch\* (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 Pennamon\* (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).

- 26 "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).
- 27 "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).
- 28 "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).
- 29 "IMPROVING NUTRIENT USE DEFICIENCY BY DETERMINING CRITICAL PHOSPHOROUS CONCENTRATION FOR CORN AND SOYBEAN," Rashanda Elijio (Earth Science), Laura Sanders\* (Earth Science).
- 30 "COMPARISON OF LIQUID CO<sub>2</sub> VS. ORGANIC SOLVENT EXTRACTION OF GROUND CUMIN BY GC-MS," Woodger Faugas (Harry S. Truman College), Charles Abrams\* (Harry S. Truman College).
- 31 "DESIGN OF A LARGE SCALE LIQUID CO<sub>2</sub> EXTRACTION SOXHLET USING A 3D PRINTER," Sonali Verma (Harry S. Truman College), Charles Abrams\* (Harry S. Truman College).
- 32 "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).
- 33 "LOW COST ELECTROANTENNOGRAPHY OF THE SPINED SOLDIER BUG," Bryan Al Padilla (Harry S. Truman College), Charles Abrams\* (Harry S. Truman College).
- 34 "SYNTHESIS OF 2-OXO-2-HEXENAL IN THE UNDERGRADUATE LABORATORY," Olivert Mbah (Harry S. Truman College), Kevin Kordi

(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).
- 39 "CONSCIENTIOUSNESS, OPENNESS, AND ETHICAL FOOD CHOICE MOTIVATION," Emily Januszewski (Psychology), Amanda Dykema-Engblade\* (Psychology).
- 40 "CONSUMPTION AND LIFESTYLE HABITS," Brittney 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), Joahanna Garcia (Psychology), Amanda Dykema-Engblade\* (Psychology).
- 42 "EATING BEHAVIOR, ASSOCIATED EMOTIONS AND FOOD PREFERENCES," Lovise Bjaerang (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).

- 44 "IDENTIFYING EATING HABITS AND FOOD CHOICES AMONG UNIVERSITY STUDENTS," Erna Kellmendi (Psychology), Betsy Tavizon (Psychology), Amanda Dykema-Engblade\* (Psychology).
- 45 "LETTING OTHERS DECIDE OUR MEALS: THE POWER OF SELF-MONITORING," Jorge Bahena (Psychology), Amanda Dykema-Engblade\* (Psychology).
- 46 "PERCEPTIONS OF VIOLENT CRIMINALS," Trevor Hempel (Psychology, University Honors Program), Tatiana Rosales (Psychology), Caroline Rhodes (Psychology), Christina Zaworski (Psychology), Amanda Dykema-Engblade\* (Psychology).
- 47 "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).
- 48 "THE INFLUENCE OF THE AGE OF EX-OFFENDERS AND PEOPLES' ATTITUDES TOWARDS THEM," Nikolas Lambropoulos (Psychology), Greg Dziedzic (Psychology) Morgan Chafshino (Psychology), Nikki Ponce (Psychology), Amanda Dykema-Engblade\* (Psychology).
- 49 "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).
- 50 "THE INFLUENCE OF GENDER AND WEIGHT ON JUDGMENTS OF AN INDIVIDUAL," Elba Albarran (Psychology), Amanda Dykema-Engblade\* (Psychology).
- 51 "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).
- 52 "CORRELATIONAL STUDY ON DEPRESSIVE SYMPTOMS," Valerie Olson (Psychology), Brittany Burns (Psychology), Raynal Cherenfant (Psychology), Katrina Ramirez (Psychology), Rolando Serna

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(Psychology), Christopher Merchant\* (Psychology).

- 53 "MEDIA AND TECHNOLOGY USAGE AND INTERPERSONAL FACTORS OF SUICIDE IN MILLENNIALS," Adriana Sosa (Psychology, University Honors Program), Christopher Merchant\* (Psychology).
- 54 "RELATIONSHIP BETWEEN CULTURAL VALUES AND MENTAL HEALTH ATTITUDES," Lesly Guzman (Psychology, University Honors Program), Maureen Erber\* (Psychology).
- 55 "MIXED MESSAGES: ARE WOMEN BETTER AT DETECTING NONVERBAL CUES?" Rabia Hasan (Psychology), Abilen Ortega-Salazar (Psychology), Ruth Breckinridge Church\* (Psychology).
- 56 "OPTIC NERVE CRUSH ALTERS THE LIGHT ADAPTED ERG OF ADULT ZEBRAFISH," Josué Franco (Psychology, University Honors Program), André Herrera Charpentier (Psychology), Shannon Saszik\* (Psychology).
- 57 "THE EFFECTS OF PROPRANOLOL (PROP) ON SOCIAL ANXIETY IN ZEBRAFISH," Caroline López-Martínez (Biology, McNair Scholars Program), Shannon Saszik\* (Psychology).

### **SOCIAL WORK**

- 58 "ASSESSING THE RELATION BETWEEN TIME AND LEVEL OF COMMITMENT FOR THE IDEAL VOLUNTEER OPPORTUNITY," Miguel Angel Cortes (Social Work, University Honors Program, McNair Scholars Program), Angel Resto-Gallardo\* (Social Work).
- 59 "PARENTS PERSPECTIVE ON THE IMPACT OF PERFORMING ARTS ON THEIR CHILDREN," Elizabeth Moreno (Social Work), Angel Resto-Gallardo\* (Social Work).
- 60 "THE IMPACT OF LOCAL LEADERSHIP PROGRAMS ON YOUTH COLLEGE READINESS," Tabatha Castillo (Social Work), Angel Resto-Gallardo\* (Social Work).
- 61 "THE IMPACT OF PARTICIPATION OF THE NATURALIZATION WORKSHOP AND APPLICATION COMPLETION ON LEGAL IMMIGRANTS IN CHICAGO," Kit Ha Stella Tung (Social Work), Angel

Resto-Gallardo\* (Social Work).

- 62 "THE RELATIONSHIP BETWEEN DOMESTIC VIOLENCE AND SELF-ESTEEM," Yuritzi Garduno (Social Work), Angel Resto-Gallardo\* (Social Work).
- 63 "SINGLE PARENTING AND ITS EFFECT ON AFRICAN AMERICAN MALE SELF-ESTEEM," Agnieszka Balcazar (Social Work, University Honors Program), Angel Resto-Gallardo\* (Social Work).
- 64 "FACULTY LED- SHORT TERM STUDY TOUR- WEST AFRICA- HUMAN RIGHTS AND SOCIAL DEVELOPMENT," Wannea McDaniel (Social Work), Montserrat Vasquez-Sanchez (Social Work), Lizbeth Rosas-Reyes (Social Work), Kenia Macias (Social Work), Nataly Miranda-Castaneda (Social Work), Tytiana-edy Nieto (Social Work), Ofelia Robles (Social Work), Yesenia Roman (Social Work), Jade Stanley\* (Social Work), Job Ngwe\* (Social Work).
- 65 "BEHAVIORAL RISK AMONG DIFFERENT ETHNICITIES," Dulce Dominguez (Social Work, University Honors Program), Jin Kim\* (Social Work).
- 66 "SOCIAL SUPPORT AND MOTIVATION TO MAINTAIN SOBRIETY AMONG RESIDENTS IN RECOVERY HOMES," Christina Chavira (Social Work), Jin Kim\* (Social Work).
- 67 "TAPP PROGRAM EVALUATION," Wareesha Sohail (Social Work, University Honors Program), Jin Kim\* (Social Work).
- 68 "DETERMINATIONS REGARDING CHILD WELFARE AFTER INVESTIGATIONS ARE COMPLETED BY DCFS," Maybeth Gomez (Social Work, University Honors Program), Luis Ortiz\* (Social Work).
- 69 "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).
- 70 "THE EFFECTS OF EARLY HEAD START CURRICULUMS ON HEALTHY DEVELOPMENT," Lizbeth Rosas-Reyes (Social Work, University Honors Program), Luis Ortiz\* (Social Work), Donald Waddell\*

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(Social Work).

71 "IMPACT OF SOCIAL SERVICES ON UNDERSERVED INDIVIDUALS,"  
Monika Isaac (Social Work), Luis Ortiz\* (Social Work).

72 "WHAT ARE ALTERNATIVES TO MENTAL HEALTH SERVICES?"  
Griselda De Luna (Social Work), Patricia Aguado\* (Social Work).

73 "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**

74 "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).

75 "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).

76 "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"**

78 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			
1	44 <sup>th</sup> Annual Undergraduate Research Conference	New York University	May, 4, 2018
2	32 <sup>nd</sup> annual National Conference on Undergraduate Research (NCUR) for students.	University of Central Oklahoma	April 4-7, 2018
3	30 <sup>th</sup> Annual Undergraduate Research Conference	Butler University	April 13, 2018
4	29 <sup>th</sup> Annual Undergraduate Research, Scholarship and Creative Activities Conference	University of California, Davis	April 27-28, 2018
5	29 <sup>th</sup> Annual OSU Research Symposium and Research Scholar Conference	Oklahoma State University	April 20, 2018
6	28 <sup>th</sup> Annual Robyn Rafferty Matthias Student Research Conference	American University, Washington, DC	March 24, 2018
7	27 <sup>th</sup> Annual NC State Undergraduate Research Symposium	North Carolina State University	April 6-8, 2018
8	26 <sup>th</sup> Annual Student Research and Creative Activities Symposium NEIU	Northeastern Illinois University	April 20, 2018
9	25 <sup>th</sup> annual Arkansas Undergraduate Research Conference	Henderson State University	April 27-28, 2018
10	25 <sup>th</sup> Annual UCI Undergraduate Research Symposium	University of California Irvine	May, 19, 2018
11	25 <sup>th</sup> Annual Undergraduate and Graduate Research Symposium	Morgan State University	April 12, 2018
12	24 <sup>th</sup> Annual Undergraduate Research Conference	University of Massachusetts Amherst	April 17, 2018
13	24 <sup>th</sup> Annual Undergraduate Science Research Symposium	College of William and Mary	February 23, 2018
14	24 <sup>nd</sup> Annual Student Conference for Research & Creative Arts	University of Houston-Clear Lake	April 16-19, 2018
15	23 <sup>rd</sup> Annual Denman Undergraduate Research Forum	Ohio State University	April 3, 2018
16	21 <sup>st</sup> Annual UW Undergraduate Research Symposium	University of Washington	May, 18, 2018
17	21 <sup>st</sup> Annual Lake Forest College Student Symposium	Lake Forest College	April 10, 2018
18	21 <sup>st</sup> Annual Student Research & Creative Works Symposium EWU	Eastern Washington University	May 15-16, 2018
19	21 <sup>st</sup> Annual Student Research and Community Engagement Symposium	University of Massachusetts Lowell	May 2, 2018
20	21 <sup>st</sup> Annual Undergraduate Research Conference	University of Wisconsin-La Crosse	April 9, 2018
21	20 <sup>th</sup> Annual Student Research Symposium	Manchester University	April 27, 2018

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22	20 <sup>th</sup> MU Annual Symposium for the Undergraduate Research, Creative Endeavor, and Service-Learning	University of Wisconsin, Madison	April 13, 2018
23	21 <sup>st</sup> Annual Undergraduate Research Symposium	University of Kansas	April 28, 2018
24	21 <sup>st</sup> Annual Undergraduate Research Symposium	Boston University	October 19, 2018
25	19 <sup>th</sup> Annual Undergraduate Research Conference	The University of New Hampshire, Durham	April 17-28, 2018
26	19 <sup>th</sup> Annual Undergraduate Research Symposium	University of North Carolina-Chapel Hill	April 12, 2018
27	19 <sup>th</sup> Annual Undergraduate Research & Creativity Conference	University of Pennsylvania	April 17, 2018
28	22 <sup>nd</sup> Annual University of Minnesota Summer Undergraduate Research Symposium	University of Minnesota	April 20, 2018
29	18 <sup>th</sup> annual UMM Undergraduate Research Symposium	University of Minnesota Morris	April 14, 2018
30	18 <sup>th</sup> Annual Student Research Symposium	The University of Louisiana at Monroe	April 9-13, 2018
31	17 <sup>th</sup> Paideia Conference Annual Undergraduate and Graduate Student Research Conference	Christopher Newport University	April 14, 2018
32	15 <sup>th</sup> annual Undergraduate Research Conference	Boise State University	April 16, 2018
33	14 <sup>nd</sup> SRC Undergraduate Research Conference	Stanford University	April 13-15, 2018
34	16 <sup>th</sup> Annual TAMUS Pathways Student Research Symposium	Texas A & M University at Galveston	November 2-3, 2017
35	13th 2017 Fall Symposium on Undergraduate Research and Community Engagement	University of North Carolina Asheville	December 5, 2017
36	13 <sup>nd</sup> Annual Undergraduate Research Conference	Missouri University of Science and Technology	April 14, 2018
37	13 <sup>th</sup> Annual Undergraduate Research Spring Symposium	Georgia Institute of Technology	April 17, 2018
38	12nd 2018 URCA Undergraduate Research & Creative Activity Conference	University of Alabama	March 28-30, 2018
39	12 <sup>nd</sup> UNM graduate students and their outstanding research and scholarship	The University of New Mexico, Albuquerque	November 8, 2017
40	12 <sup>nd</sup> Annual Undergraduate Research Conference	Virginia State University	April 6, 2018
41	12 <sup>th</sup> Annual Utah Conference on Undergraduate Research (UCUR)	Utah State University	February 21, 2018
42	13 <sup>th</sup> Annual Summer Undergraduate Research Conference	The University of Iowa	July 25, 2018
43	10th Annual Undergraduate Research Symposium	William Paterson University	April 9, 2018
44	12nd Annual Symposium for the Undergraduate Research, Scholarship, and Creative Activity	University of California, Riverside	April 14, 2018

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45	12nd Annual Undergraduate Research Conference	The University of Texas-Pan American	April 15, 2018
46	11th annual SDSU Student Research Symposium (SRS)	San Diego State University	March 2-3, 2018
47	9th Annual Undergraduate Research Day	Concord University	April 17, 2017
48	7th Annual Northeast Undergraduate Research and Development Symposium (NURDS)	University of New England	March 1, 2017
49	7th Annual MSU Denver Undergraduate Research Conference: A Symposium of Scholarly Works and Creative Projects	Metropolitan State University of Denver	April 27, 2018
50	6th Annual Southeast Preeminent Regional Research & Creative Endeavors Conference	Georgia College	October 27-28, 2017

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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 Toulia 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 27<sup>th</sup> Annual Northeastern Illinois University Student Research and Creative Activities Symposium in 2019.