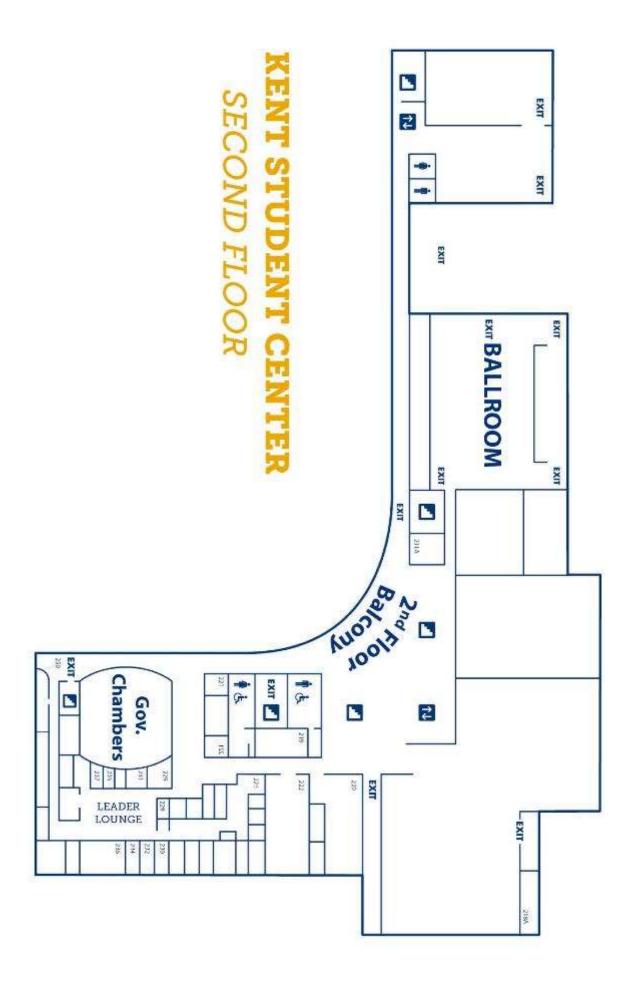
# **Schedule of Events**

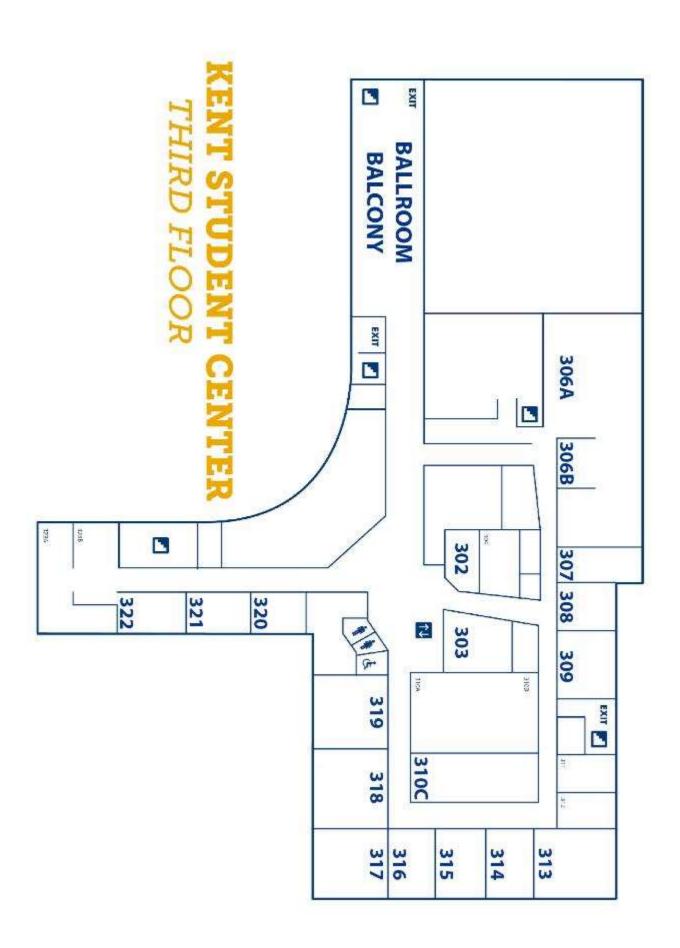
# Thursday, April 19

3:00 p.m	Registration Opens, Second Floor
4:00-5:30 p.m	Poster Presentations, Ballroom and Second Floor
4:00-5:30 p.m.	Art Exhibit, Ballroom
5:30-8:00 p.m	Fine Arts Performances, Ballroom

# Friday, April 20

8:00 a.m	Registration Opens, Second Floor
9:00-10:30 a.m.	Oral Presentations I, Third Floor
10:45 a.m12:15 a.m.	Oral Presentations II, Third Floor
12:30 p.m.	Awards Luncheon. Ballroom





## Thursday, April 19

**Poster Presentations** 4:00-5:30 p.m.

#### **Poster Session 1: Anthropology**

- 1. Danielle Jones, Anthropology A Comparison of Serotonergic Innervation of the Amygdala within the Genus Macaca: Implications for the Evolution of Primate Sociality
- 2. Cody A. Ruiz, Anthony J. Tosi, Anthropology Y-Chromosome Introgression: An Analysis of Spermatogenesis Genes Between Two Macaque **Monkey Species**
- 3. Samuel Thomas, Anthropology Adventure in the Classroom: An Ethnographic Study of the Expedition Academy
- 4. Rachel Hamilla, Anthropology Orangutan Health and Behavior: Implications for Nutrition in Captivity
- 5. Kristen Hirter, Anthropology *The Intersection of Genes and Behavior:* Assessing Interspecies Variation of the Dopamine Transporter within the Macaca Genus
- 6. Kayla Metzger, Anthropology Comparing Health Disparities of Two Manners of Death in HTH Osteological Collection

#### Poster Session 2: Architecture I

- 7. Jessica Schultz, Architecture Setting the Record Straight: The Influence of Charles Morse Stotz in the Pittsburgh Region
- 8. Rachel Zimmer, Architecture The Home of the Monarch vs. The Home of the Monarchy

- 9. Yu Zhang, Architecture Digital Images: Instagram's Impact on Places and Things in the Built-Environment
- 10. Tyler Kamczyc, Architecture Bio-Inspiration: Natural Innovations for Sustainable Design
- 11. Hao Gong, Architecture A Solution to Sustainable Architecture Design: 3D Printed Wall System

#### Poster Session 3: Architecture II

- 12. Steven Begg, Architecture Architecture and the Cinema: The Continued *Influence of Film on the Field of Architecture*
- 13. Joshua Fehrenbach, Architecture Today's Architecture Originated from Yesterday's Sci-Fi Films
- 14. Devin Heinlein, Architecture Effects of Collective Memory on Perceptions of Architecture
- 15. Matthew Carubia, Architecture Video Games' Role as Digital Architecture
- 16. Donna Grigonis, Architecture Preliminary Investigation of the Impact of Music Festivals on the Environment
- 17. Kayla Barko, Architecture Sense of Place and Distance to a Region: Factors that Decrease Attachment and Identity

#### Poster Session 4: Architecture III

- 18. Gwendolyn Frank, Architecture Assessing a Sense of Community in a New Era of the West Side Market
- 19. Matt Tolodzieski, Architecture Millennial Interest in Professional Design **Organizations**

- 20. Peter Nogay, Architecture Linking the Physiological Benefits with the Morphological Characteristics of the Tiny House Movement
- 21. Samata Shrestha, Architecture The Impact of Unplanned Building Demolition and Neighborhood Morphology on Urban Air **Pollution Dispersion**
- 22. Amir Allenbey, Architecture User Outlook on Residential
- 23. Katelyn Hannigan, Architecture **Experience Versus Memory**

#### **Poster Session 5: Architecture IV**

- 24. Cody Chambers, Architecture Impact of Daylighting on CAED Students' Cognitive Function
- 25. Kate Sabin, Architecture A Solution to Poor Workplace Ergonomics
- 26. Jack Kritzman, Architecture Glare Effecting Learning Environments
- 27. Mary Myers, Architecture Assessing Workplace Stress in Women and the Utilization of Biophilic Design as a Coping Mechanism
- 28. Caitlin Raymond, Architecture Behavioral Health Facilities Designed for the Adolescent Suffering from Anxiety and Depression
- 29. Anthony Wahl, Architecture Reshaping American Malls through Adaptive Reuse

#### Poster Session 6: Architecture V

30. Aditi Karadesai, Architecture

- Hospice Care Center: A Holistic Approach to End-of-Life Care in India Using the US Based Hospice Model
- 31. Ethan Snider, Architecture Lighting Levels: Changing Bulb Types Can Provide the Elderly with the Appropriate Amount of Light
- 32. Anastasia Christine Markiw, Architecture Lighting in Healthcare: An In-Depth Approach to a Holistic Design
- 33. Anthony Marinakos, Architecture House, Hurricane, Rebuild House?
- 34. Sarah Clark, Architecture The Modulated Application of Large Scale Additive Manufacturing
- 35. Nicholas Mellon, Architecture Urban Forest: The Embodied Energy of Trees on High-Rise Buildings

#### Poster Session 7: Architecture VI

- 36. Brad Bowman, Architecture VR Implications on Architectural Design Process
- 37. Elizabeth Nicklas, Architecture **Auditory Design**
- 38. Elizabeth Swearingen, Architecture Arbotecture
- 39. Nicholas Greenaway, Architecture The Possibilities of Architecture Beyond Earth
- 40. Caitlyn M. McClausland, Architecture Construction Methods and Materials in a Lunar **Environment**

#### Poster Session 8: Art, Music, and Architecture

41. Andy Alex Martinez, Ethnomusicology Kumi Odori: Okinawa's Musical Theater

- 42. Amanda Paniagua, Art History An American Woman's Gaze: Mary Cassatt's Spanish Portraits
- 43. Eli Crisafio, Architecture Impact of Julius Shulman's Photography on Modern Architecture
- 44.a Hannah Petit, Architecture The Influence of Exiled Artists, Picasso and Miró, on the Establishment of Spanish Modern Architecture
- 44.b Hannah Petit, Architecture The Most Effective Wayfinding Tools as Perceived by Students at Kent State University

## Poster Session 9: Engineering, Design, and **Technology**

- 45. Thomas Davis, Aerospace Engineering Development and Characterization of a UAS Propulsion Test Bench
- 46. Mujeeb Ur Rehman Syed Abdul, Engineering Compared Evaluation of Vendor Selection Using **Different Methods**
- 47. Hai Feng, Engineering Current Collector of Tubular Solid Oxide Fuel Cell
- 48. Naser Al Madi, Michelle Park, Param Deginal, Elena Blaginykh, Fashion Design, **Product Design** Firefly: The Smart Purse of the Future
- 49. Reem Al Suhaibani, Software Engineering Lexical Categories for Source Code Identifiers
- 50. Pavan Poudel, Computer Science Adaptive Logging Framework for Persistent Memories

#### Poster Session 10: Biological Sciences I

51. Cynthia Perkovich, Biological Sciences Do Herbivorous Insects Cause a Differential *Investment in Secondary Metabolites of Plants?* 

- 52. Emma Given, Ecology Flood Scouring and Macroinvertebrate Community Assembly Processes in Costa Rican **Headwater Streams**
- 53. Nashrah Ahmad, Biological Sciences Imperatorin Inhibits the Expression of IL-18 Induced iNOS: A Potential Therapeutic Agent for the Treatment of Osteoarthritis
- 54. Binaya Adhikari, Biological Sciences **Understanding Natural Expression of** Cytoplasmic Male Sterility in Gynodioecious Lobelia Siphilitica L
- 55. Alyx Weaver, Biological Sciences The Effect of Exercise on Brain Hemoglobin Expression in Rats

#### Poster Session 11: Biological Sciences II

- 56. David F. Barnard, Kristin M. Gabella, Adam Kulp, Austin D. Parker, Biological Sciences Effects of Repeated Stress on the Ying-Yang of Catecholamines and Glucocorticoids in the Regulation of Brain Cytokines
- 57. Megan Linscott, Biological Sciences Epigenetic Regulation of FGF8 Expression in the Olfactory Placode during Gonadotropin-Releasing Hormone Neuron Emergence
- 58. Jesse Kowalski, Biological Sciences Calorie Restriction Suppresses Predator Odor-Induced Skeletal Muscle Thermogenesis in Rats
- 59. Mohammed Romman Hossain, Microbiology Roles of Physicochemical Properties of Microplastics in Determining Plastisphere in Freshwater
- 60. Kholoud Alkhayer, Biological Sciences Euronal Hemoglobin Beta Regulates Levels of H3K4me3
- 61. Elizabeth Aulino, Biological Sciences

Fetal Disruption of Oxytocin Signaling Results in Increased Agonistic Behavior in Adult Male Mice

#### **Poster Session 12: Ecology**

- 62. Lauren Baldarelli, Ecology The Effect of Macronutrient Additions on Biological Soil Crusts at the Sevilleta Long-Term Ecological Research Site in the Chihuahuan Desert, New Mexico, U.S.A.
- 63. Alescia Roberto, Ecology Distribution of Antibiotic and Metal Resistance Genes in Biofilms of an Anthropogenically **Impacted Stream**
- 64. Bethany M. Schmidt, Christopher T. Boehler, **Ecology** Influence of Micronutrients on Nitrogen Fixation Rates in Northern Ohio Lakes
- 65. Sean Nussle, Ecology Trichopterans as Biomonitors of Trace and Heavy Metals in Northeastern Ohio Urban Streams
- 66. Jonathan Van Gray, Ecology Increased Chloride Stress on Biofilm Succession in an Artificial Stream System
- 67. Andrea Fitzgibbon, Ecology More than One Way to Limit Algae: Trace Metal-Nutrient Colimitation of Algal Production

#### Poster Session 13: Biomedical Sciences I

68. Devanshi Mitesh Mehta, Biomedical Sciences The Importance of Diurnal Corticosterone Rhythms in Regulating Mood

69. Monica Ghosh, Spencer Andrei, Biomedical Sciences

TRPA1 Ion Channels Stimulation Enhances Cardiomyocyte [Ca2+]i and Contractile Function via a CamKII-dependent Pathway

- 70. Crystal Oechsle, Biomedical Sciences Th1 Cytokines and Statin Drugs Enhance Apoptotic Cell Death Coincident with Delocalization of Ras from the Cell Membrane
- 71. Karla M. Rodriguez, Biomedical Sciences Increased Voluntary Alcohol Consumption and Preference in Female, but not Male, Oxytocin Receptor Knockout Mice
- 72. Abdulaziz Aloliqi, Biomedical Sciences The Role of Connexin43 in Prostate Cancer Motility

#### Poster Session 14: Biomedical Science II

- 73. Ashley Davis, Amber Titus, Biomedical Sciences Intermittent Fasting is More Effective than Caloric Restriction for Weight Loss in the Obesity Prone
- 74. Adam Kulp, Neuroscience Effect of Chronic Stress on GRK2 Expression in the BNST and PFC
- 75. Alexandra M. Yaw, Biomedical Science Paternal Cocaine Use Alters Social Interactions in F1 Offspring
- 76. Spencer Servizi, Sara Patrick, Andrew Paliobeis, John Grizzanti, Neuroscience Localization of RAMP 1 & 3 in AD Mouse Model Mice
- 77. John Grizzanti, Priya Raman, Neuroscience APP Cleavage Product 6-CTF Positively Correlates with Body Weight in a Rodent Model of Diabetes and Obesity
- 78. Sabina Bhatta, Jeffrey Blair, Neuroscience

Expression of Luteinizing Hormone Subunit Alpha, Beta and Its Receptor in the CNS

#### Poster Session 15: Biomedical Science III

- 79. Tim Niepokny, Biomedical Sciences Timed Restricted Feeding in Mice Alters Gene Expression in the SCN
- 80. Courtney Stewart, Neuroscience Cuprizone Induced GFAP Astrocyte Activation is FGF8 Dependent
- 81. Sohini Dutta, Neuroscience Glutamatergic Signaling within the Nucleus Accumbens Underlies Extinction Retention
- 82. Lana Frankle, Akhil Kumar Goud Koothal, Neuroscience Automated Detection of Markers of Astrocyte Activation
- 83. Rachel Corrigan, John Grizzanti, Neuroscience Central Inhibition of Amylin Receptors Blocks Therapeutic Effects of Peripherally Administered Pramlintide in Alzheimer's Disease
- 84. Ian Farnkopf, Biomedical Sciences Ontogeny of the Respiratory Tract in Dolphins

# Poster Session 16: Chemistry and Biochemistry

- 85. Srijana Bhandari, Chemistry and Biochemistry Excitonic Interactions in Bacteriochlorin Homo-Dyads Enable Charge Transfer: A New Approach to the Artificial Photosynthetic Special Pair
- 86. Sarah Sternbach, Naveen K. Singhal, Kholoud Alkhayer, Biochemistry The Role of BHMT in Methionine Metabolism in Multiple Sclerosis
- 87. John Shelestak, Tomor Riely, Nicholas Penman, Nathan Beals, Soumitra Basu, Chemisry and Biochemistry

Enhancing Structural Contrast in T1 MRI Protocols using Multimodal Targeted Tissue Probes

- 88. Nicholas Penman, Bogdan Benin, Chemistry and Biochemistry Synthesis, Characterization and Anticancer Activity of Au@Cu2MoS4 Nanoparticles
- 89. Kumudie Jayalath, Biochemistry Pseudouridylation Enzyme RsuA Influence 30S Ribosome Assembly
- 90. Mir M. Hossain, Sriramakrishna Yarabarla, Nick Penman, Biochemistry Synthesis, Characterization and Anticancer Activity of Copper-Based Nanoparticles
- 91. Keshav GC, Biochemistry RsmC Shows RNA Chaperone Activity During Ribosome Biogenesis
- 92. Han Wang, Chemistry and Biochemistry A New Strategy to Control Drug Loading Precisely: Coordination-Driven Self-Assembly of a Pt (IV) Prodrug-Conjugated Supramolecular Hexagon

## Poster Session 17: Chemistry and Biochemistry Ш

- 93. Arosha Dassanayake, Chemistry Use of Dual Catalysts Synergistically for One-Pot Synthesis of Activated Magnetic Graphitic Carbon Spheres
- 94. Tejas Dnyaneshwar Dudhade, Chemical **Engineering** Sealing Development of Tubular Solid Oxide Fuel Cell Testing Fixture
- 95. Huda Alamri, Chemistry and Biochemistry

Antibacterial Studies of Bismuth-Based Nanoparticles

96. Sagun Jonchhe, Chemistry and Biochemistry A New Concentration Jump Strategy Reveals the Lifetime of i Motif at Physiological pH without Force

97. Eva A. Gilker, Biological Sciences The Role of Protein Phosphatase I in Mammalian Oocytes

### Poster Session 18: Teaching, Learning, and Curriculum

98. Kaelin Hudak, Special Education and **Teaching** 

Effects of Prelinguistic Milieu Teaching Strategies on Children's Early Communication Skills

99. Emily Suzuki, Special Education and

Milieu Teaching: The Effects of Parent-Implemented Interventions on Pre-Linguistic Communication Skills

100. Ashley Hausmann, Special Education and **Teaching** Positive Behavior Supports

101. Erica Noel, Special Education and Teaching Effects of Parent-Implementation of Enhanced Milieu Teaching Strategies on Their Child's **Expressive Communication Skills** 

102. Sarah Stratton, Special Education and **Teaching** 

Effects of Parent-Implemented Pre-linguistic Milieu Teaching Strategies on Their Child's **Expressive Language Skills** 

103. Abigail Ball, Special Education and Teaching

The Effects of Prelinguistic Milieu Teaching: a Naturalistic Language Intervention, on Child Communication in the Natural Environment

## Poster Session 19: Geology, Geography, and **Mathematics**

104. Matthew Stiller, Geography Microclimate Regulation Across the Urban Transect

105. Robert Squires, Geography A Longitudinal Comparison of Fine Scale Environmental Risk Factors and Waterborne Bacterial Presence in Haiti

106. Catherine Ruhm, Geology Geomorphic Conditions of Abandoned Surface Mines and the Effects of Deep-Ripping Reclamation

107. Abdulrahman Alajmi, Mathematics Lattice Size of Empty 3-Polytopes

108. Hessah Algahtani, Mathematics Simplified Anti-Gauss Quadrature Rules with Applications in Linear Algebra

#### Poster Session 20: Exercise and Sports Sciences

109. Cody S. Dulaney, Tyler Singer, Sports Sciences

Oxygenated Tissue Response to Single and Double-Leg Cycling in Normoxia and Hypoxia

110. Erica M. Marshall, Jason C. Parks, Alaina Glasgow, Leslie Sensibello, Yu Lun Tai, Sports Sciences

Different Restrictive Devices to Achieve Blood Flow Restriction on Pulse Wave Reflection

111. Savannah Hall, Ellen Glickman, Jeremiah A. Vaughan, Brittany N. Followay, Elliott Arroyo, Cody Dulaney, Joseph A. Laudato, Exercise Science

Thermoregulatory Responses to Moderate-Intensity and High-Intensity Cycling in the Heat

112. Savannah Hall, Ellen Glickman, Jeremiah A. Vaughan, Brittany N. Followay, Elliott Arroyo,

Cody Dulaney, Joseph A. Laudato, Exercise Physiology

Physiological Response in Time to Exhaustion Trial Across Varied Environmental Conditions

113. Alaina Glasgow, Kathryn Geither, Jason C. Parks, Erica M. Marshall, Yu Lun Tai, Exercise Science

Acute Resistance Exercise Effects on Blood Flow in Resistance-Trained Versus Untrained **Individuals** 

#### **Poster Session 21: Health and Sports Sciences**

114. Jason C. Parks, Erica M. Marshall, Alaina Glasgow, Leslie Sensibello, Kathryn Geither, Yu Lun Tai, Sports Sciences Resistance Exercise on Pulse Wave Reflection and Arterial Stiffness between Trained and **Untrained Individuals** 

- 115. Joseph Laudato, Jeremiah A. Vaughan, Brittany N. Followay, Cody S. Dulaney, Savannah R. Hall, Eliott Arroyo, Health Sciences Effect of Thermal Stress on Cycling and Plasma Volume Shifts, Body Weight and Water Intake
- 116. Tyler Singer, Sports Sciences Influence of Cuff Pressures on Blood Flow During Knee Extension Exercise with Blood Flow Restriction During and After Exercise
- 117. Kathryn Geither, Leslie Sensibello, Alaina Glasgow, Jason C. Parks, Erica Marshall, Yu Lun Tai, Exercise Physiology Free-Weight Resistance Exercises Versus Weight Machines on Pulse Wave Reflection

#### Poster Session 22: Public Health

119. Chelsea Kennedy, Jessica Mulvany, Public Health

*Is There a Need for More Mental Health Services* at Kent State University Campuses? A Study

Using the Healthy Minds Survey at Four Different Campuses

120. Justin R. Bowman, Public Health Portrayal of Electronic Nicotine Delivery Systems (ENDS) on Instagram

121. Obianuju Genevieve Anguolu, Public Health

Development and Evaluation of a Theory-Informed, Culturally Specific, Comic Book about HPV and HPV Vaccination for College Students in Northeast Ohio: An Application of the Integrative Model of Behavioral Prediction

122. Lorraine Odhiambo, Ezinne Anaba, Public Health

Feasibility of a Knowledge and Text-Messaging Intervention Delivered in African American Churches to Adults with Asthma or COPD

123. Geethika Kodukula, James Cairns, Public Sexual Violence and Health Outcomes Among

**University Students** 

124. Junghyae Lee, Public Health Investigating the Influence of Teacher's Motivation Types and Resource Utilization in Physical Education on Elementary Students' Leisure-Time Physical Activity: A Multilevel **Analysis** 

#### Poster Session 23: Psychological Sciences I

125. Logan Kochendorfer, Developmental Psychology

The Continuity of Quality from Friendships to Romantic Relationships: Meta-Analytic Evidence

126. Jessica Labuda, Social Psychology Accuracy and Cue Availability in Perceptions of Romantic Partners' Approach and Avoidance Motives

127. Aimee Hammer, Stephanie Silberman, **Psychological Sciences** Dyadic Synchrony and Children's Receptive Language Abilities Predict Subsequent Emotion Regulation Among Young Latina Mothers and Their Toddlers

128. Jordan Weith, Aimee Hammer, Clinical Psychology

Associations Between Cultural Orientation, Dyadic Relationship Quality, and Externalizing Behavior among Puerto Rican Adolescent Mothers and Their Toddlers

129. Carli A. Obeldobel, Developmental Psychology Parent-Child Attachment Security in Middle Childhood and Positive Emotions

130. Amy Kelly, Social and Behavioral Sciences Child-Mother Attachment and Parental Relationship Stability in Families Experiencing Interparental Violence

#### Poster Session 24: Psychological Sciences II

- 131. Lisa Manderino, Jason R. Anderson, **Psychological Sciences** Earlier Age of First Exposure and Position Predict Lower Neurocognitive Scores in Collegiate Football Players
- 132. Monica Garcia, Psychological Sciences Pain, Disability, and Psychological Correlates of Chiari Malformation
- 133. Angela Junglen, Biological Psychology The Role of CAMK2A in the Comorbidity of PTSD/SUD in Individuals Seeking Detoxification Treatment
- 134. Victoria E. Sanborn, Clinical Psychology Cognition and Quality of Life in Bariatric Surgery **Candidates**
- 135. Nola Daley, Cognitive Psychology

Self-Explanatory Feedback Enhances Long-Term Learning

136. Shelly Evans, Social and Behavioral **Sciences** 

Looking from the Outside In: Hurdles, Needs, and Successes of Refugees during Acculturation into American Life as Perceived by Refugee Service Providers

137. Maeson S. Latsko, Courtney Costanzo, **Psychological Sciences** Corticosterone Amerliorates the Adult Social Behavior Deficits Caused by Periadolescent Social Defeat

## Poster Session 25: Medical Care, Medical **Devices, and Nursing**

138. Shadi Kanan, Nursing Integrative Review: Characteristics of Physical Activity Programs Associated with Physical Activity Adherence in Adults Post-Myocardial Infraction

139. Samir Abdelmagid, Podiatry Percutaneous Kirschner Wire Repair of Failed Digital Arthrodesis Using Pulsed Electromagnetic Field Therapy

140. Joseph Fleck, Kelsi Nutter, Podiatry Comparison of the Forefoot Axial Radiographic Image and Weight-Bearing CT Scan in Determining the Coronal Plane Angle of Sesamoid Rotation in Patients with Adult Hallux Valgus Deformity

141. Tung V. Dao, Podiatry Findings of the Anomalous Fibularis Digiti Quinti Muscle and Implications of its Associated Variable Presentations from Cadaver Dissections

- 142. Chandler Ligas, Joslin Seidel, Podiatry The Lapidus Arthrodesis: Examining the Effect of the Metatarsal Base Transfixation Screw
- 143. Comrun Yousefzadeh, Chemical Physics

"Achromatic Limits" of Pancharatnam Phase Lenses

#### Art Exhibit 4:00-5:30 p.m.

Allison Smith, Textiles 162 Springcrest

Emma Anderson, Painting

Alysia Klein, Painting It's Gone to the Dogs Inequality and Transparency I Inequality and Transparency II

David Braun, Sculpture and Expanded Media Sculpture Garden v1.11

Oxana Dallas, Textiles Thread of Life Inferno Incarnation Born from Stardust New Born Her Guardian

Audrey Wilson, Visual Art Bleach Wash Atomizer Mist Gun The Small Hadron Collider Intemperance Detox Simulation Fine Arts Performances 5:30-8:00 p.m.

#### Music

Nattapol Wisuttipat, Ethnomusicology Aa Hia: A Ranat Thum Solo

Kevin Alexander Wilson, Ethnomusicology Interpreting Culture Through Composition

Shasha Zhu, Music, Ethnomusicology Popular Music Study

Efferus String Quartet, Music

#### **Creative Writing**

Erin Lawrence, English: Creative Writing Undermined: A Novel

Molly Fuller, English: Creative Writing Excerpts from For Girls Forged by Lightning: Prose and Other Poems

Sony Ton-Aime, English: Creative Writing, The Woman They Made Me Call Mother Matriphagy History-less Her Man's Travail Homage to Jacques Stephen Alexis Coumbite There Are Better Ways to Say I Love You Solo Waltz

Adam Yeich, English: Creative Writing The Only Thing He Never Told Them

Mahmoud Kambris, Creative Nonfiction in-complete

Ronald Book, English: Creative Writing

## Friday, April 20

Love Flew Out

Oral Presentations I: 9:00-10:30 a.m.

## Oral Session 1: Architecture and Engineering Room 306A

9:00 a.m. Brigid Callaghan, Aditi Sharag-Eldin, Architecture Developing Concrete Blocks with Embedded Three-Dimensionally Printed Thermal Resistive Forms, Inspired by Biomimicry

9:15 a.m. Trevor Swanson, Architecture The Built Environment and the Effects on Mental Health: A Study of the Kent State Architecture Program

9:30 a.m. Michael Hoffman, Architecture

The Parallels between Content Studied and Work Produced

9:45 a.m. Jessica Schultz, Architecture Miguel Fisac: An Investigation into Spanish Architectural Innovation

## **Oral Session 2: Anthropology and Geology** Room 306B

9:00 a.m. Ashley Rutkoski, Archeaological Anthropology Imitation or Innovation: Understanding the Emergence of Limestone in Southern Ohio

9:15 a.m. Stacy Leigh Deraway, Biological and Physical Anthropology Insights into the Evolution of Language: A Comparative Analysis of Dopaminergic Innervation of Thalamic Nuclei among Humans and Primates

9:00 a.m. Garrett Blauch, Geomorphology Urban Influence on Large Wood Abundance in Streams

## Oral Session 3: Biological, Biomedical, and **Exercise Sciences Room 308**

9:00 a.m. Yu Lun Tai, Erica Marshall, Jason C. Parks, Alexa DeBord, Kathryn Geither, Leslie Sensibello, Exercise Sciences Upper and Lower-body Resistance Exercise With and Without Blood Flow Restriction on Pulse Wave Reflection

9:15 a.m. Anna Droz, Ecology Green Roofs in the Great Lakes Region: How the Relationship between Plants and Soil Can Impact Green Roof Functioning

9:30 a.m. Noel-Marie Plonski, Biological **Sciences** 

The Fetal Brain on Zika Virus: Pathogenesis of Congenital Zika Syndrome

9:45 a.m. Nazar Hussein, Asaad Aladlaan, Fatima Jaber, Ava Lonneman, Fayez Safadi, **Biological Sciences** A Novel Regulatory Role of TRAPPC9 in OA Development

10:00 a.m. Kevin M. Budge, Biomedical Sciences A Novel Neuroprotective Effect of GPNMB in Parkinson's Disease

## Oral Session 4: Fine Arts and Communication **Room 309**

9:00 a.m. William Kelvin, Communication Studies Keystone XL Pipeline News: Expressions of U.S. Attitudes toward Fossil Fuel Extraction

9:15 a.m. Lydia Snyder, Musicology Heidelberger Frühling: Classical Music and Germany's Musical Identity

9:30 a.m. Sony Ton-Aime, English: Creative Writing Researching Your Past

9:45 a.m. Erin Lawrence, English: Creative Writing The Importance of World in Alternate History **Fiction** 

## Oral Session 5: Teaching and Learning I Room 310C

9:00 a.m. Ahlam Alghamdi, Evaluation and Measurement Multitasking and GPA: A Moderated Mediation Analysis of the Role of Academic Self-Efficacy and Gender

9:15 a.m. Tracy Arner, Rachael Todaro, **Educational Psychology** Investigating the Impact of the Flipped Classroom Model on Student Performance and Motivation

9:30 a.m. Amal Alhadabi, Evaluation and Measurement

Psychometric Assessment and Cross-Cultural Adaptation of the Grit-S Scale among Omani and American Universities' Students

## **Oral Session 6: Chemistry and Biochemistry Room 319**

9:00 a.m. Sumirtha Balaratnam, Chemistry A piRNA Utilizes HILI and HIWI2 Mediated Pathway to Down Regulate Ferritin Heavy Chain 1 mRNA in Human Triple Negative Breast Cancer Cells

9:15 a.m. Morgan Stilgenbauer, Chemistry and Biochemistry Development of New Platinum-Based Anticancer Agents Targeting Ovarian Cancer Stem Cells

9:30 a.m. Hao Wang, Chemistry Comparison of Material Parameters among Dimer, Trimer, and Tetramer Homologues in the Nematic Phase

9:45 a.m. Arosha Dassanayake, Chemistry In-Situ Activated Nitrogen-Doped Carbon Spheres for Extraordinary CO2 Adsorption

## **Oral Session 7: Psychological Sciences Room 318**

9:00 a.m. Michelle L. Rivers, Jessica Janes, John Dunlosky, Cognitive Psychology Investigating Memory Reactivity with a Within-Subject Manipulation of Judgments of Learning

9:15 a.m. Haylee DeLuca, Developmental Psychology Developmental Competence of Young Adult **Adoptees** 

9:30 a.m. Liz Baker, Haylee DeLuca, **Developmental Psychology** 

Intimate Partner Violence and Body Mass Index During Young Adulthood: Dyadic Investigations

9:45 a.m. Erin Graham, Cognitive Psychology Explicit and Implicit Processes in Category Learning

## Oral Session 8: English in Contact with Other Languages **Room 317**

9:00 a.m. Anne Neveu, Modern Languages Designing Reading Tasks Fostering Critical Thinking in Translator Training

9:15 a.m Antonina Pakholkova Mohamed, English: Teaching English as a Second Language The Use of Customized Board Games for Vocabulary Learning

9:30 a.m. Kevin Spence, Higher Education Administration Unplanned English Encounters: A Comparative

Analysis of the Rationales and Implementation of English Language Policies in Cuba, Panama and Colombia

Oral Presentations II: 10:45 a.m.-12:15 p.m.

Oral Session 9: Chemistry and Biochemistry Room 306A

10:45 a.m. Thiloka Dassanayake, Chemistry Improved Antimicrobial Properties of Copper and Ascorbic Acid Based Nanoparticle Systems: Advanced Drugs for a Post-Antibiotic Era

11:00 a.m. Shankar Mandal, Deepak Koirala, Sangeetha Selvam, Chiran Ghimire, Hanbin Mao, Chemistry and Biochemistry A Molecular Tuning Fork in Single-Molecule Mechanochemical Sensing of Antibody

11:15 a.m. Prakash Kharel, Soumitra Basu, **Biochemistry** Investigation of RNA Oxidation in Human Neurons Reveals the Correlation Between NAT8L mRNA Damage and Multiple Sclerosis **Pathophysiology** 

## **Oral Session 10: Physics Room 308**

10:45 a.m. Daniel Gavazzi, Biological and **Chemical Physics** Coarse Grained Modeling on a-Spectrum Protein to Capture Folding Complexities

11:00 a.m. Greta Babakhanova, Chemical **Physics** Fabrication of Responsive Liquid Crystalline Elastomer-Based Microchannels

11:15 a.m Zeinab Parsouzi, Physics Comparison of Material Parameters among Dimer, Trimer, and Tetramer Homologues in the Nematic Phase

11:30 a.m. Parastoo Maleki, Hamza Balci, **Physics** Cancer, G-Quadruplex, and Small Molecule Drugs

11:45 a.m. Mohammad Nopoush, Physics The Most Perfect Liquid Ever

**Oral Session 11: Computer Science, Engineering, and Mathematics Room 309** 

10:45 a.m. Sai Charan Reddy Nallapu, Digital Sciences Clever Water Tank

11:00 a.m. Basma Algadi, Software Engineering An Analysis of Debugging Patterns of Novices **Programmers** 

11:15 a.m. Nasim Eshghi, Lothar Reichel, **Numerical Analysis and Computation** Estimating the A-norm and L2-norm of Error for Approximation of Matrix Function with the Help of Lanczos Algorithm

11:30 a.m. Mirjeta Pasha, Mathematics Iterated Tikhonov with GSVD

11:45 a.m. Divya Haritha Katari, Aeronautics and Engineering Application of Artificial Intelligence in Construction

## Oral Session 12: Geography Room 310C

10:45 a.m. Kathryn Hannum, Geography Linking Language, Literature & Landscape in Galicia, Spain

11:00 a.m. Christopher Willer, Geography A Comparative Analysis of Census Definitions in Identifying and Tracking Small Towns

11:15 a.m. Sokvisal Kimsroy, Geography Reconstructing Politics of Irrigation and Daily Life through Spatial Video Geonarratives: A Case Study of Trapeang Thmar

11:30 a.m. Chhunly Chhay, Geography Decision Making in Female Cambodian Migrant Workers

Oral Session 13: Studies in Japan and China, **Japanese and Chinese Room 319** 

10:45 a.m. Sarah Mortland, Translation Studies Japan's Nuclear Protective Action Guidelines

11:00 a.m. Lydia Snyder, Ethnomusicology Seiha Hōgaku-Kai Summer School: Learning Shakuhachi and Shamisen in Tokyo

11:15 a.m. Xin Hong, Geography Exploring the Influence of Land Use and Land Cover Change on Water Quality in Cancer Villages: A Case Study of Shenqiu County, China

11:30 a.m Josiah Murphy, Clara Fodera, English: Teaching English as a Second Language Hu Is He: Chinese ELL Problems With English **Pronouns** 

## **Oral Session 14: Psychological Studies Room 318**

10:45 a.m. Grace W. Murray, Educational Psychology Can Physical Activity Breaks Reduce Attentional Failures and Improve Children's Learning

11:00 a.m. Bushra Aldosari, Educational Psychology A Comparison of Traditional Lecture and Flipped

Outcomes?

Classroom Models for Teaching Undergraduate Child Development Course

11:15 a.m. Christina Kuchmaner, Marketing "My Brand" Behaved Badly: Psychological Ownership and Consumer Responsibility for Helping Brands Recover from Transgressions

## **Oral Session 15: Biological Sciences Room 317**

10:45 a.m. Anjali Krishnan, Ecology

Identifying a New Pathway for Microcystin Degradation in Bacteria

11:00 a.m. Zahra Ghasemahmad, Biological Sciences

Behavioral Response of Male and Female Mice to Positive Affect Vocal Sequences

11:15 a.m. Manasi Agrawal, Neuroscience Reduction in the Ribosomal Binding Function of RACK1 Can Rescue Axon Length Defects in Fragile X Syndrome

11:30 a.m. Sohini Bhattacharyya, Ecology Role of Freshwater Insect Gut Denitrifiers in Nitrous Oxide Production

## Oral Session 16: Teaching and Learning II Room 306B

10:45 a.m. Yu Li, Foundations of Education Life Paths of Young Rural Migrant Women: Rural Schooling and Aspirations

11:00 a.m. Jennifer Lowers, Curriculum and Instruction

A Genealogy of New Literacies in Education from 1915 to Present

11:15 a.m. Yong Seng Tan, Curriculum and Instruction Review of Massive Open Online Courses (MOOC)

## **Awards and Keynote Luncheon** 12:30 p.m., Kent Student Center Ballroom

Welcome and Opening Remarks: Elizabeth Melick, Symposium Chair

Monologue by Jess Tanner, Theater and Dance: A Selection from Irena's Vow by Dan Gordon

Keynote Address: Marie Bukowski, Director of the School of Art

Presentation of Awards: Graduate Student Senate Executive Board

## Keynote Speaker: Marie Bukowski, Director of the School of Art



Marie Bukowski began her art studies at Carnegie Mellon University where she received her Bachelor of Fine Arts with a double major in Painting and 19th Century German Literature and a double minor in Printmaking and Linguistics & Rhetoric in 1992. She received her Certificate in Art History and Polish language from the Jagiellonian University in Krakow, Poland in 1999. Bukowski went on to receive her Master of Fine Arts with Honors with a double degree in Painting and Printmaking in 2000 from the University of Pennsylvania. Upon receiving her MFA, Bukowski took a position in the School of Art at Louisiana Tech University where she was Professor of Art, Graduate Program Coordinator, and BFA Studio Program Coordinator for 13 years. She served as the Director of the School of Art and Design at Southern Illinois University Carbondale for 4 years and is currently the Director of the School of Art at Kent State University.

Bukowski is an internationally recognized printmaker, included in public collections and museums in countries such as Belgium, Bulgaria, Croatia, The Czech Republic, Mexico, The Netherlands, Poland, Portugal, Romania, and Spain. Throughout her career, she has had eighteen solo exhibitions, forty-nine invitational exhibitions, and sixty-three juried exhibitions; thirty-five of which are on the international level. Bukowski has received eight artist-in-residence positions with prestigious institutions such as Tamarind Institute in Albuquerque, New Mexico, Anchor Graphics in Chicago, Illinois, the Frans Masereel Centrum in Kasterlee, Belgium and Milkwood International in Cesky Krumlov, Czech Republic. She has received over a dozen grants to support her work since 2002 including a grant from the National Endowment for the Arts. Bukowski is represented by Cole Pratt Gallery in New Orleans, Louisiana and Stowarzyszenie Miedzynarodowe Triennale Grafiki in Krakow, Poland. Bukowski enjoys teaching introductory through graduate printmaking and graduate seminar.

The Graduate Student Senate

The Graduate Student Senate (GSS) represents the concerns of the graduate student community at Kent State University. By serving as an allocation body, the Graduate Student Senate is responsible for assisting with graduate student travel and research funding. Additionally, the Graduate Student Senate organizes and provides financial support for social activities for graduate students. Each spring the Graduate Student Senate sponsors the Graduate Research Symposium, an event that displays, recognizes and celebrates research and scholarship across all academic disciplines. The Graduate Student Senate meets four times each semester, and lunch is always provided. The Friday following every meeting, a social event known as GradFest is held at a local establishment. All graduate students are welcome to become involved with the Graduate Student Senate.

2017-2018 GSS Executive Board Mark Rhodes, Executive Chair, Kate Klonowski, Vice Executive Chair Suparna Navale, Finance Chair Morgan Chaney, Information Services Chair Elizabeth Melick, Symposium Chair Yeo Jung Yoon, Administrative Services Chair Dr. Melody Tankersly, Advisor

#### Acknowledgements

The following KSU faculty, staff, and students made this event possible: Kevin Wilson, Heather Sinclair, Jordyn Stoll, Lindsey James, Catherine Ruhm, Michael Chunn, Yuko Kurahashi, Craig Paulenich, Marie Bukowski, Kristan Dolan, Kyle Reynolds, Elizabeth Richardson, Grace Ortiz, Jennifer Butto, Ann Gosky, Dr. Melody Tankersly, and everyone who distributed hotcards and sent emails to publicize our event. Many thanks to our volunteers and faculty judges as well, for their valuable service.

> 2018 Graduate Research Symposium **Program Corrections**

The title of Han Wang's poster presentation, (number 92) has been changed to Coordination-driven Self-Assembly of a Pt(IV) Prodrug-Conjugated Supramolecular Hexagon.

Stacy Leigh Deraway will be presenting *Insights into the Evolution of Language: A Comparative Analysis* of Dopaminergic Innervation of Thalamic Nuclei among Humans and Primates in Poster Session 1.

Shannah Witchey will present Endocannabinoid receptor 1 knockout mice display normal maternal care but decreased pup weights in Poster Session 10

The title of Megan Linscott's poster presentation (number 57) has been changed to Tet1 regulates Fqf8 expression in the developing hypothalamus during gonadotropin-releasing hormone neuron emergence.

The titles of Emma Anderson's pieces in the Art Exhibit are Open Your Eyes Peanut, Turn a Blind Eye, Worn Out Faces Are Familiar Friends.

The title of Hao Wang's presentation in Oral Session 6 is Halogen Bonded Chiral Molecular Switch Drives Full Color Reflection Color Reflection Photochemically and Thermally.

Abdulrahman Alajmi will present in Lattice Size of Empty 3-Polytopes in Oral Session 11 at 12:00 p.m.

Manasi Agrawal will present Reduction in the Ribosomal Binding Function of RACK1 Can Rescue Axon Length Defects in Fragile X Syndrome in Poster Session 14.

Alaa A. Eisa, Alexander Ignatious, Sumit Bhutada, Souvik Dey, Srinivasan Vijayaraghavan, and Douglas Kline will present YWHAE is Important for Male Fertility in Mice in Poster Session 10.

Kayla Morehead will be presenting Note-taking Devices in the Classroom in Oral Session 14 at 11:30 a.m.

Sarah Kearney will present Influence of Cuff Pressure on Cardiovascular Responses to Knee Extension Exercise with Blood Flow Restriction in Poster Session 20.

Morgan Stilgenbauer will present Development of New Platinum-Based Anticancer Agents Targeting Ovarian Cancer Stem Cells in Poster Session 17.

Erin Lawrence will give her oral presentation, The Importance of World in Alternate History Fiction in Oral Session 16 at 11:30 a.m.

Theresa Wolanin will present The breakdown of plant-pollinator relationships: climate change, bee population declines, and mistimed flowering events in Costa Rica in Oral Session 15 at 11:30 a.m.

The title of Sony Ton-Aime's oral presentation in Oral Session 4 is *In My Mom's Faulty Words*.

Scott Maslar will be presenting A Case Study in Translating Architecture into Music for an Electric Bass Guitar in Poster Session 3.

Anusha Yarava will be presenting Race and Gender Specific Life Style Behaviors among US Adults with the History of Kidney Disease in Oral Session 2 at 9:45 a.m.

Sohini Dutta will be presenting Glutamatergic signaling within the nucleus accumbens underlies extinction retention in Oral Session 15 at 11:45 a.m.

Lydia Snyder will be performing during the Music Session.

The Efferus Quartet, Paula Castanada, Irene Guerra, Cristian Diaz, and Maria Florez, will be performing two movements of Ravel's string quartet.

Eric Yehle will be presenting The Effects of Parent Implemented Prelinquistic Milieu Teaching Intervention on the Child Functional Communication Skills in Poster Session 18.

Naser Al Madi will present Are Eyes Windows to the Mind? From Eye-Movement to Comprehension in Oral Session 11 at 12:15 p.m.

Nashrah Ahmad will present Imperatorin Inhibits the Expression of IL-18 Induced iNOS: A Potential Therapeutic Agent for the Treatment of Osteoarthritis in Oral Session 15 at noon.

Paige Bosich will present The Associative Stigma of Mental Health Professionals in Poster Session 23

Erik Capra will present Color Stimuli's Impact on the Perception of Mid-Range Statistical Fractal Geometrics in Poster Session 2.

The following students will be unable to give their presentations: Kathryn Geither Kayla Metzger Anjali Krishnan Tim Niepokny Alaina Glasgow