Sharing the Vision: A Community of Research

29th Annual Graduate Research Symposium

Friday, April 11, 2014
Kent State University Student Center
9:00am-2:00pm

Sponsored by Graduate Student Senate
Awards Luncheon
12:30-2pm, Ballroom

Luncheon Speaker: Dr. Melody Tankersley

Melody is the Associate Provost for Academic Affairs and a Professor in the College of Education, Health, and Human Services. Her academic expertise is in the development and treatment of emotional and behavioral disorders of children and youth. Her research focus is on identifying and implementing evidence-based practices in schools and homes to prevent and respond to children’s behavioral disorders. Melody has secured around $2 million of funding and published over 70 books, chapters, and articles on her areas of focus. Her work has been recognized internationally—most recently she was awarded the James M. Kauffman Publication Award for a scholarly work that results in knowledge leading to exemplary practice.

Melody earned her doctoral degree from the University of Virginia and was appointed a post-doctoral fellowship at the University of Kansas’s applied research center, Juniper Gardens Children’s Project. Since then, she has been a faculty member and served as the program coordinator for approximately 12 years and as the interim department chair for one year. Melody currently serves on the Executive Board of the Council for Exceptional Children’s Division for Research and is on the editorial review committees of four top-tier journals.
# Table of Contents

**Check-in:** Begins at 8:30am outside of Ballroom (2\textsuperscript{nd} floor)

**Awards Luncheon:** Ballroom (12:30-2pm)

**Oral Presentations: Session 1 (9:00am-10:15am)**
- Health & Wellness I, Room 304
- Communication & Technology, Ballroom Balcony
- Modern & Classical Languages I, Room 309
- Chemistry & Biochemistry, Room 310A
- Biological & Biomedical Sciences, Room 310B
- Marketing, Room 313
- Curriculum & Instruction, Room 314
- Education I, Room 315
- The Experience of Social Isolation, Room 316
- History & Political Science, Room 317
- Liquid Crystals & Physics, Room 318

**Poster Presentations (10-11:15am)**
- Undergraduate
- Master’s
- Doctoral

**Oral Presentations: Session 2 (11am-12:15pm)**
- Health & Wellness II, Room 304
- Art, Music & Theatre, Ballroom Balcony
- Modern & Classical Languages II, Room 309
- Chemistry, Biochemistry & Exercise Physiology, Room 310A
- Biomedical Sciences, Chemistry & Biochemistry, Room 310B
- Business Administration, Finance & Marketing, Room 313
- Education & English, Room 314
- Education II, Room 315
- Networks, Space & Environment, Room 316
- Political Science, Room 317
- Psychology, Room 318

**Graduate Student Senate**
Oral Presentations: Session 1

**Health & Wellness I, Room 304**

9:00am: Members' Experiences and Perceptions of an Integrated Health and Wellness Center  
Kristin Grimm, Matthew Nichols, and Diana Kingsbury  
Public Health

9:15am: Association of Husband/Partner’s Influence in Health Care Decision Making with Woman’s Intent-to-Use Contraception in Mozambique: Results from a 2011 Nationally Representative Sample  
Ramos Mboane  
Public Health

9:30am: An Analysis of a Prevention Intervention for Adolescents with Sub-threshold Depression & Related Public Health Administrative Issues  
Susanne Mitchell  
Public Health

9:45am: Correcting Implied and Directly Stated Misinformation in Narratives  
Patrick Rich  
Psychology

10:00am: Evidence-Based Treatment of Posttraumatic Stress Disorder and Co-occurring Substance Abuse  
Heike Seel  
Counseling & Human Development Services

10:15am: Executive Function and Flexible Self-Regulation in Young Adults’ Physical Activity  
Scout McCully  
Department of Psychology

**Communication & Technology, Ballroom Balcony**

9:00am: Setting the Stage: Black Operations as a Communication Tactic  
Brian Massie  
Communication Studies

9:15am: Vehicle to Vehicle Communication  
Arjun Aileeni and Suman Jindam  
Computer Science
9:30am: Check Processing System using Semantic Web Technology
    Chanpreet Rikhi
    Computer Science

9:45am: Using Digital and Historical Gazetteers to Geocode French Airborne Operations During the French Indochina War
    Gordon Cromley
    Department of Geography

10:00am: Salt Tectonics in the Upper Silurian Salina Group, Appalachian Basin, NE Pennsylvania: Results From 3-D Seismic Analysis and Analogue Modelling
    Matthew Harding
    Geology

10:15am: The United States Air Force Security Service: A Signals Intelligence Pioneer
    Philip Shackelford
    Department of History

Modern & Classical Languages I, Room 309

9:00am: Censored Subtitles in the Arab World: A Case Study of Swearwords in Audiovisual Translation
    Loubna Bilali
    Modern & Classical Language Studies

9:15am: Cultural and the ESL Classroom: Research, Reflections, and Realities for Teachers
    Natasha Chenowith
    Curriculum and Instruction

9:30am: Computer-Assisted Translation: An Empirical Investigation of Cognitive Effort
    Christopher Mellinger
    Modern & Classical Language Studies

9:45am: Teaching Translation and Editing Skills in Audiovisual Translation: Modality Transfer
    Olga Shostachuk
    Modern & Classical Language Studies
Chemistry & Biochemistry, Room 310A

9:00am: Laterally Branched Nematic Materials
Randall Breckon
Chemistry and Biochemistry

9:15am: Pulse Radiolysis Studies on the Reactions of the Carbonate Radical with Vitamin B12 Complexes: Evidence for Destruction of the Corrin Ring by the Carbonate Radical
Rohan Dassanayake
Chemistry and Biochemistry

9:30am: G-Quadruplex Mediated Regulation of Human Tyrosine Hydroxylase Expression in Glioma Cells
Mohamed Farhath
Chemistry and Biochemistry

9:45am: Multi-stimuli Responsive DCDHF-Hydrazone Reversible Molecular Switches
Tawfik Khattab
Chemistry and Biochemistry

10:00am: A Library Screening Approach Identifies Naturally Occurring RNA Sequences for a G-Quadruplex Binding Ligand
Gayan Mirihana Archchilage
Chemistry and Biochemistry

Biological & Biomedical Sciences, Room 310B

9:00am: The Importance of 14-3-3 (YWHA) Proteins in Mammalian Reproduction and Fertility
Santanu De and Dr. Douglas Kline
Biological Sciences

9:15am: Inhibitory Cells in Inferior Colliculus Surrounded by VGLUT2+ Terminals are Also Surrounded by Perineuronal Nets
Nichole Foster
Biological Sciences

9:30am: Reflex Modification Audiometry as a Tool to Assess Hearing in CBA/CaJ Mice
Ryan Longenecker
Biological Sciences
9:45am: The Role of Osteoactivin in Osteoblast and Osteoclast Differentiation
   Hilary Stinnett
   Biological Sciences

10:00am: Glioma Stem Cells Promote Endothelial Cell Migration via a Novel Mechanism of their Cell-Cell Direct Interaction
   Monica Burgett
   Biomedical Sciences

Marketing, Room 313

9:00am: The Evolution and Dynamic Persistence of Impulse Purchasing
   Jamie Grigsby
   Marketing

9:15am: Understanding Indecisiveness in Consumer Behavior: Preliminary Findings from Interviews with Self-Identified Indecisive Consumers
   Hillary Mellem
   Marketing

9:30am: Follow Their Nose: Scented Product Development Using Consumer Preferences and Web Data
   Hua Meng
   Marketing

9:45am: Dual-Objective Incentives and Marketing Employee Performance: Evidence from Laboratory and Call Center Field Experiments
   Chanho Song
   Marketing

Curriculum & Instruction, Room 314

9:00am: A Study on How International Students Perceive their Language Learning Experience in Kent State University
   Murat Dagistan
   Curriculum & Instruction

9:15am: Conversation Partnerships: An Educational Tool for Cross-Cultural Understanding
   Murat Dagistan
   Curriculum & Instruction
9:30am: Using Reading Logs to Stimulate Students from Multicultural Backgrounds to Read and Write
Yang Gao
Curriculum & Instruction

9:45am: An Examination of Text Authenticity: Adopted Materials, the Perceptions of Student Language Learners, and the Insights of ESL/EFL Instructors
Amal Laba
Curriculum & Instruction

10:00am: An Investigation in the Collateral Effect of School Theatre Programs on Struggling Readers
James Nageldinger
Curriculum & Instruction

Education I, Room 315

9:00am: Investigating the Impact of Field Trips on Teachers’ Mathematical Problem Posing
Rashmi Singh
Curriculum & Instruction

9:15am: Assessment Planning for Academic Departments: Considering Learning Inside and Outside of the Classroom
Thomas Benjamin
Higher Education Administration & Student Personnel

9:30am: It is Okay to be Wrong: Reflections from Qualitative Research Across Institutions
Liana Carroll
Higher Education Administration & Student Personnel

9:45am: Taking Action to Reduce Threats to International Students
Steven Walters
Higher Education Administration & Student Personnel

10:00am: The Citizen-Artist: Service-Learning in the Theater Arts Curriculum
Tracee Patterson
Theatre and Dance

10:15am: Diversity and Discrimination Training
Steven Walters
Higher Education Administration & Student Personnel
The Experience of Social Isolation, Room 316

9:00am: Physician-Patient Communication Regarding Out-of-Pocket Health Care Costs: A Systematic Review of the Literature
Andrea Meluch and Dr. William Oglesby
Communication & Information

9:15am: Perceived Racism as a Predictor of Psychological Well-Being among Southeast Asian American College Students
Maiko Xiong
Counseling & Human Development Services

9:30am: Black LGBTQ Academic Identity Formation on Predominantly White Campuses
Jillian Watts
Cultural Foundations

9:45am: Affect Control Theory: At-Risk Youth Perception of Prototypical Leadership
Tré Myers
Sociology

10:00am: Older Male Inmates and the Factors that Influence Preferences for Advance Care Directives: Preliminary Findings
Meghan Novisky
Sociology

History & Political Science, Room 317

9:00am: Middle Ground, Borderlands, and American Empire: Re-evaluating American History
Michele Curran Cornell and Emily Hagar Kasecamp
History

9:15am: The FBI, COINTELPRO, and Black Nationalism
Dwight Meyer
History

9:30am: Nationalist Rhetoric and the 1907 Irish International Exhibition
Jeffrey O'Leary
History
9:45am: Replying to the Devil in Tito’s Yugoslavia: Black Wave Protest Films Seeking Social Justice
Sarah Zabic
History

10:00am: Relationship among Participants in Regional Organizations in the Post Soviet Space
Yeo Jung Yoon
Department of Political Science

Liquid Crystals & Physics, Room 318

9:00am: Nanosecond Switching of Nematic Liquid Crystals
Volodymyr Borshch, Sergij Shiyanovskii, and Oleg Lavrentovich
Liquid Crystal Institute

9:15am: Living Liquid Crystals
Shuang Zhou
Liquid Crystal Institute

9:30am: BLM-Mediated Telomeric G-Quadruplex Unfolding in the Absence of ATP
Jagat Budhathoki
Physics

9:45am: G-Quadruplex Formation in Telomeres Enhances POT1/TPP1 Protection Against RPA Binding
Sujay Ray
Physics

10:00am: Highly Unusual Many Body States in Correlated Heavy Fermion System Ce1-xYbxCoIn5
Yogesh Singh
Physics

10:15am: 2D Fermi Liquids Near Pomeranchuk Instabilities
Kelly Reidy
Physics
Poster Presentations

Undergraduate

1.) Addressing Fluorescent Alkoxy-Functionalized Perfluoroaryls via SNAr Reaction: Self-Assembled Liquid Crystals and Low Molecular Weight Organogels
   Dylan Grenier and Tawfik A. Khattab
   Chemistry and Biochemistry

2.) The Roles of Maintenance Self-Efficacy and Motivational Barriers in Daily Physical Activity
   Hannah Kelling
   Psychology

3.) Cognitive Dysfunction is Associated with Increased Physical Limitations but Not Greater Symptom Burden in Heart Failure Patients
   Carly Logan and Carly Goldstein
   Psychology

4.) The Impact of Social Defeat on the Ability to Discriminate between Auditory Cues
   Jessica Mulvany
   Psychology

5.) Influence of the Anterior Cingulate Cortex on Memory Precision in GABAB(1a) Knockout Mice
   Samantha Ortiz
   Psychology

6.) The Effects of Estradiol and Testosterone on Fear Generalization in Rats
   Tyler Vanderhoof
   Psychology

7.) The Influence of the Deletion of GABAb Receptors in Corticotrophin Releasing Factor (CRF)-Containing Neurons on Fear and Anxiety
   Natalia Webster
   Psychology

8.) Inhibition of GABAb1a Interferes with the Maintenance of a Precise Context Memory
   Patrick Winiecki
   Psychology, Behavioral Neuroscience
9.) Characterization of the Effect of Zinc Nanoparticles on Tumor Angiogenesis
   Haiwa Wu
   Biological Sciences

10.) Effects of Competitors or Cheaters and Temperature on Physiological Performance and Gene
    Transcription of Model Fungi
   Devinda Hiripitiyage
   Biological Sciences

11.) The Ontogeny of the Mouse Oxytocin System and Potential Organizational Effects of Oxytocin on
    Intermale Aggression
   Steven Tamborski
   Biological Sciences

12.) WT1 Regulation of VEGF is Cell Specific
   Shorog Al Omair
   Biomedical Sciences

13.) Development of Hyporheic Exchange, Biogeochemistry, and Microbial Assemblages
    Following Stream Restoration
   Stuart Baker
   Geology

14.) Undrowning a Creek: Groundwater-Stream Interactions and Water Quality Characteristics of
    Former Reservoirs in Northeastern Ohio
   Krista Brown
   Geology

15.) Taphonomy of the Blue Springs Locality, Coon Creek Formation (Late Cretaceous), Mississippi:
    Preservation of a Decapod Lagerstätte
   Krystyna Kornecki
   Geology

16.) An Investigation of the Effects of Andean Volcanism on Marine Invertebrate Communities of
    Northern Patagonia During the Late-Middle Miocene
   Evin Maguire
   Geology
17.) Identification of Local Ground Water Pollution in Northeastern Pennsylvania: Marcellus Flow-back or Not?
Darren Reilly
Geology

18.) Microwear Analysis of Crab Claws: A Functional Morphological Approach
Eric Sload
Geology

19.) Decapod Crustaceans of the Seroe Domi Formation of Curaçao
Ashleigh Stepp
Geology

20.) Acute Estradiol Injections have a Genomic Effect on Fear Generalization
Joseph Lynch III
Psychology

21.) Influence of Anxiety on Neurocognitive Outcomes in Children
Elle Brennan
Psychology

22.) Liberal Feminist Attitudes and Parental Education as Moderators of the Motherhood Penalty
Alynn Gordon
Psychology

23.) Effects of Early Social stress on the Ontogeny of Maladaptive Behavior
Maeson Latsko
Psychology

24.) Exploring the Relationship between Executive Functioning and Social Emotional Development during the Preschool Years
Ashley Johnson
School Psychology

25.) Using Play-Based Interventions in Early Intervention to Promote Functional Language
Heather Brownfield
Special Education

26.) Increasing Toddler Communication with Parent-Focused Intervention
Stacey Jenkins
Special Education
27.) Engagement Strategies for Toddlers in Natural Environments  
Alleiah Keeley  
Special Education

28.) Cents-able Sensory Input Interventions that are Sensible for the Family  
Rachelle Lay Hughes  
Special Education

29.) Prelinguistic Milieu Teaching as an Intervention for Fostering Communication in Children with Autism  
Kathy Supple  
Special Education

30.) Exploring Educational Opportunities for Students with Disabilities in Southern Africa  
Steven McIntosh  
Special Education

31.) Translating Fun: Inside Game Localization Agencies and Game Translation  
Liv Sommerlot  
Translation Studies

32.) Culture and Translatability: A Case Study on the English Subtitles of Spanish Web Series  
Meredith Cannella  
Translation Studies

33.) A Content Analysis of Abortion Advertisements in China  
Qinyu E  
Communication Studies

34.) Private Labels and Personal Care: A Focus on Store Brand Package Design and Consumer Attitudes  
Larrie King  
Visual Communication Design

35.) Active Latin in the Classroom  
Michael Sweet  
Modern and Classical Language Studies

36.) Will the Medicaid System be Overwhelmed with High Financial Costs from a Higher than Anticipated Enrollment if Employers Choose Self-Insured Health Plans?  
Eric Hutzell  
Public Health
37.) The Swiss Health Care System: Consumer-Driven Care
    Donna Miller
    Public Administration

38.) Flow + Regrow
    Lauren Konopka, Jon Nagy, and Megan Haftl
    Architecture

39.) Envisioning Brownfield Hydrology for Tomorrow: Collinwood Neighborhood Study
    Chis Dohar and Dr. Reid Coffman
    Architecture

40.) Car Parks as Ecological Hubs
    Claire Markwardt
    Architecture

41.) Understanding the Effects of Permanent Urban Space on the Usefulness of Cities
    Jonathan Nagy
    Architecture

42.) Reconcentrating Cleveland: A Response to Urban Sprawl and Population Stagnation
    Max Wagner
    Architecture

43.) Archaeological Investigation of Space and Ceramic Use in Classic and Terminal Classic Maya Households: Understanding the Effects of Collapse
    Lucas Wright
    Anthropology

44.) The Sculpture, Drawings, and Etchings of Áfangar by Richard Serra
    Sandi Thouvenin
    Art History

45.) Chicago Travel
    Shawn Kerns
    Painting
46.) Examining Patterns of Mitochondrial Genome Diversity within a Gynodioecious Species Lobelia Siphilitica
Binaya Adhikari, Christina Caruso, and Andrea L. Case
Biological Sciences

47.) Rats Deficient in Melanocortin 4 Receptor Lose Less Weight during Calorie Restriction
Tariq Almundarij
Biological Sciences

48.) A New Method for the In Vitro Reconstitution of Bacterial Cytokinesis
James Redfearn
Biological Sciences

49.) Relating Microbial Physiological Performance to Genome Content
Nivedita Clark
Biological Sciences

50.) Identification of a Novel Protein Phosphatase (PP1) Regulatory Protein, PPP1R36, in Testis and Sperm
Suranjana Goswami
Biological Sciences

51.) Effects of Short-Term O2 Exposure on Biogenic N2O Emissions
Jonathon Gray and Dr. Laura Leff
Biological Sciences

52.) The Complex of NGAL and MMP-9 as a Potential Biomarker for Stroke Xiqian Han, Wen-Hai Chou
Xiqian Han
Biological Sciences

53.) Local Translation of Down Syndrome Cell Adhesion Molecule in Axon Growth and Guidance
Shruti Jain
Biological Sciences

54.) Structural Characterization of ATP Analog-Sensitive Protein Kinase C Delta
Varun Kumar and Wen-Hai Chou
Biological Sciences
55.) Regulation of Cyclin A1 Promoter by the Wilms Tumor Gene, WT1  
  Sony Pandey  
  Biological Sciences

56.) Differential Binding Effects of Phosphatidic Acid Binding Proteins to Phosphatidic Acid in Complex Lipid Mixtures  
  Priya Putta  
  Biological Sciences

57.) Purification of a Lipid Droplet Associated Protein, Tip 47/Perilipin-3 and its N-Terminal Truncation Mutants for Biophysical Characterization  
  Sewwandi Rathnayake  
  Biological Sciences

58.) The Effect of Chronic Minocycline Treatment on Stress Sensitization in an Animal Model of Recurrent Depression  
  Jennifer Remus and Destiny Jamison  
  Biological Sciences

59.) Urbanization Effects on Community Composition of Stream Sediment Bacteria  
  Alescia Roberto  
  Biological Sciences

60.) Maternal Behavior and Postpartum Mood in Vasopressin 1b Knockout Mice  
  Shannah Witchey  
  Biological Sciences

61.) RACK1 Regulates the Local Translation of β-actin mRNA at Point Contacts  
  Leah Kershner  
  Biological Sciences

62.) Connexin 43 and E-cadherin Modulate Prostate Cancer Cell Migration  
  Abdulaziz Aloliqi  
  Biomedical Sciences

63.) Lipocalin 2 is a Detrimental Gactor Induced After Stroke-Reperfusion Injury  
  Guona Wang  
  Biomedical Sciences

64.) Regulation of Murine MAPT Pathology by Soluble Versus Membrane Bound Fractalkine  
  Shane Bemiller  
  Biomedical Sciences
65.) Neuronal Luteinizing Hormone Activation Affects Synaptic Plasticity
    Jeff Blair
    Biomedical Sciences

66.) Intrinsic and Synaptic Properties of Dorsal Nucleus of the Lateral Lemniscus Neurons: Implications for Avian Interaural Level Difference Circuitry
    Rebecca Curry
    Biomedical Sciences

67.) PP1γ2, the Testis Specific Protein Phosphatase 1 Isoform can be Substituted by the Ubiquitously Expressed PP1γ1 in Spermatogenesis.
    Tejasvi Dudiki
    Biomedical Sciences

68.) The Impact of Fibroblast Phenotype on Myoblast Behavior in a Three-Dimensional Tissue Engineered Model of Skeletal Muscle Fibrosis
    Jess Krieger
    Biomedical Sciences

69.) Activation of Bile Acid Receptor (FXR) Attenuates Osteoclast Differentiation, Survival and Function
    Fouad Moussa
    Biomedical Sciences

70.) Mechanism of Bevacizumab Internalization and Fate by Glioma Stem Cells
    Gaelle Muller-Greven
    Biomedical Sciences

71.) Discovery of Conformation-Independent B Cell Epitopes on HER3 Breast Cancer Vaccine Target
    Prachi Namjoshi
    Biomedical Sciences

72.) Molecular Evolution of HIV-1 Epitopes
    REEBA PAUL Reeba Paul
    Biomedical Sciences

73.) Altered Glutamate Receptor Expression and Partial Rescue of PCP-Disrupted PPI in Oxytocin Knockout Mice
    Megan Rich
    Biomedical Sciences
74.) The Effects of Recombinant Osteoactivin on Signaling Pathways in Osteoblasts  
Greg Sondag  
Biomedical Sciences

75.) Modeling Shape Evolution of Nematic Actuators with Complex Blueprinted Director Field  
Vianney Gimenez-Pinto  
Chemical Physics

76.) Surface Anchoring of Vertical Alignment Liquid Crystal Displays Enhanced by Surface Polymer Stabilization  
Libo Weng  
Chemical Physics

77.) Probing Liquid Crystal Elastomer Structure with Polarized Light Scattering  
Mykhailo Pevnyi  
Chemical Physics

78.) Highly Porous Carbon Spheres with Incorporated Nitrogen and Metal Nanoparticles for Supercapacitors  
Nilantha Wickramaratne  
Chemistry

79.) Mesopores Alumina-Magnesia based Composites for CO2 Sequestration  
Chamila Gunathilake  
Chemistry

80.) Studying the Surface Activity and Lipid Binding Properties of Perilipin 3/TIP 47  
Mona Sadat Mirheydari and Sewwandi S. Rathnayake  
Physics

81.) Exploring the Allosteric Cooperativity of Ligand Binding to the Domains of Calmodulin through Coarse-Grained Simulations  
Prithviraj Nandigrami  
Physics

82.) Photogeneration and Charge Transport in a Liquid Crystalline Organic Semiconductor  
Sanjoy Paul, Jarrod Williams, Robert Twieg, and Brett Ellman  
Physics

83.) Liquid-Crystal-Based Biosensor Without Alignment Substrate  
Piotr Popov  
Physics
84.) Cluster Vertex Finder with the Heavy Flavor Tracker for STAR Experiment
Amilkar Quintero
Physics

85.) Influence of Desolvation Barriers in Coupled Folding and BINDING Kinetics of PKID-KIX
Talant Ruzmetov
Physics

86.) Liquid Crystals Devoid of Alkyl Tails for Potential Midwave Infrared Applications
Suvagata Tripathi
Chemistry and Biochemistry

87.) Divalent Metal Cations Destabilize a Hyper Stable RNA G-Quadruplex Structure
Sumirtha Balaratnam
Chemistry and Biochemistry

88.) CD44+ Tumor Targeting Pentium Complex for More Efficient Drug Delivery
Nathan Beals
Chemistry and Biochemistry

89.) Interaction of Phosphatidylinositol-4,5-Bisphosphate with Potential Clustering Agents Ca2+, Mg2+, and Cholesterol
Zachary Graber
Chemistry and Biochemistry

90.) Study of Oxidative Damage of Nucleic Acids in Multiple Sclerosis
Prakash Kharel
Chemistry and Biochemistry

91.) Nascent RNA Transcripts Facilitate the Formation of G-Quadruplexes
Prakash Shrestha
Chemistry and Biochemistry

92.) Modeling and Simulation Analysis of Delay Tolerant Networks
Rahul Sehgal
Computer Science

93.) A Historical Perspective on the 2014 January Polar Vortex
Michael Allen and Tom Ballinger
Geography
94.) Cardiovascular-Related Mortality and Links to Multivariate Surface Weather Types
Cameron Lee
Geography

95.) Potential Tornado Vulnerability Variance Over a 24-hour Cycle for an Urban Metropolitan Region
Marius Paulikas
Geography

96.) Mountains and Climate: What if the Himalayas Didn’t Exist?
Chenjian Fu
Geology

97.) Evaluation of Collaborative Testing in Nursing Education Research
Amal Al-Alawi
Nursing

98.) Intensification of Care in the Diabetic Patient by the Nurse Practitioner: Using the Chronic Care Model
Phillip Moser
Nursing

99.) A Retrospective Analysis of Peak Plantar Shear and Diabetic Ulceration Sites
Samuel Gray, Ashley Jensen, Kevin Garfield, Sarah Richards, and Nilin Rao
Podiatric Medicine

100.) What is the Optimal Orientation of Two-Screw Fixation for Oblique Closing Base Wedge Osteotomy in the First Metatarsal When the Medial Cortical Hinge is Lost?
Amanda Lutter, Nathan Shane, Katherine Kirtley, and Kevin Wang
Podiatric Medicine

101.) Measuring the Cultural Awareness Among Graduate Nursing Students in a Training Program in Ohio
Obianuju Aguolu
Public Health

102.) Results from a Process Evaluation of the Task Force to Improve Public Health in Portage County
Carissa Bowlin and Aimee Budnik
Public Health
103.) Perception of Racial Discrimination Among US Adults Seeking Health Care: Association with Health-Related Quality of Life
Neda Kasim, Subir Goyal, and Vinay Cheruvu
Public Health

104.) Development of a Novel Assay to Measure Flight Capacity of Anopheles Gambiae s.l.
Amy Krystosik
Public Health

105.) Using Geospatial Video to Understand Social and Environmental Risk Factors for Diarrheal Diseases in Children Under Five Living in Mathare Informal Settlements of Nairobi, Kenya
Lorriane Odhiambo
Public Health

106.) The Determinants of Influenza Vaccine Uptake and Perceived Barriers Among Public University Employees: A Mixed Methods Approach
Diana Kingsbury
Public Health

107.) The Influence of Lateral Foot Displacement on Cycling Efficiency and Maximal Cycling Power
Sara Harper
Exercise Physiology

108.) Single Trial Effects of Dynamic Cycling: How Long Does it Last?
Robert Phillips, Kathleen Linke, Bradley Minkowski, and Angela Ridgel
Exercise Physiology

109.) Cognitive Function During Lower Body Water Immersion and Post-Immersion Afterdrop
Yongsuk Seo
Exercise Physiology

110.) Theory of Mind: Intervention Strategies for Children with Autism Spectrum Disorders
Andrea Vantaggi
Speech Language Pathology

111.) An Examination of Body Tracing Among Women with High Body Dissatisfaction
Gail Williams
Psychology
112.) Application of a Cumulative Risk Index Approach to Understanding the Association between Stress and Obesity Risk Among Adolescents
Amy Fahrenkamp
Psychology

113.) FlashPlate: A Pilot Study of a Novel Portion Control Plate
Carly Goldstein, Misty Hawkins, Carly Logan, and Joel Hughes
Psychology

114.) Brief Massed Training Causes Persistent Retardation of Rat Serial Pattern Learning
Samantha Renaud
Psychology

115.) A Multi-Level Modeling Approach Examining PTSD Symptom Reduction during Prolonged Exposure Therapy: Moderating Effects of Complex Trauma History Among HIV Positive Adults
Brian Smith and Jennifer Coleman
Psychology

116.) The NMDA Receptor Antagonist MK-801 Renders Pavlovian Fear Conditioning State-Dependent
Adam Ulmen
Psychology

117.) Delay Effects of Terror Management Threats on Death-Thought Accessibility: A Meta-analysis
Chris Steinman
Psychology

118.) Emotional Flexibility Across Affective Stimuli: A Comparison of Anxious and Healthy Individuals
Lindsey Matt, Kathrine Shepherd, and Karin G. Coifman
Psychology

119.) Support for the Running rEVOLUTION’s Mission
Robin Eastman
Counseling & Human Development Services

120.) Composition and DIY: Considering Digital Communities and "Making" as an Act of Resistance
Barbara George
English

121.) Conduct Books and Gender Performance in American Literature, 1865-1914
Colleen Thorndike
English
122.) Theory of Mind: Intervention Strategies for Children with Autism Spectrum Disorders  
Andrea Vantaggi  
Speech Language Pathology

123.) A Survey Study of the Perceptions of Middle School Personnel with Respect to Learning Disabled Students as Victims of Bullying/Harrassment and the Corresponding Relationships with Bullying Prevention and Discipline  
Matthew Bradic  
Foundations, Leadership, and Administration

124.) Intimate Partner Violence in Southeastern Appalachian Ohio: A Literature Analysis and Pilot Study  
Amanda Burke  
Health Education and Promotion

125.) Getting in the Game: A Quantitative Study of Second-Year Student-Athletes’ Experiences Utilizing Existing Data of the 2010 Sophomore Experience National Survey  
Talea Drummer  
Higher Education Administration & Student Personnel

126.) Impact of Leadership Development Involvement on Students’ Sense of Spirituality/Meaning-Making  
Brenda McKenzie  
Higher Education Administration & Student Personnel

127.) Adding Innovation Characteristics and Environmental Factors to the Technology Acceptance Model to Determine Factors that Influence eLearning Usage  
Donna VanRooy  
Instructional Technology

128.) Computer-Directed Instruction (CDI): “From Cognitive Tutors (CT) to Cognitive Teachers”  
Jeffrey Chandler  
Lifespan Development and Educational Sciences
Oral Presentations: Session 2

Health & Wellness II, Room 304

11:00am: Perception of Thailand Youth Towards Intention of Voluntary HIV Counseling and Testing: An Integrative Review
Pimpanitta Jittapirom
Nursing

11:15am: A Framework for Measuring Key Performance Indicators of the Office of Government & Community Relations at Cleveland Clinic
Carissa Bowlin
Public Health

11:30am: Local Public Health Policy Initiative for Fast Food Restaurants and Obesity
Jennifer Bryant
Public Health

11:45am: Community-Based Application of Crime Prevention Through Environmental Design Principles: Youngstown, Ohio
Jennifer Burrell
Geography

12:00pm: Childhood Lead Poisoning: Identification of Opportunities for Primary Prevention from an Environmental Justice Perspective
Laura Schuch
Geography

Art, Music & Theatre, Ballroom Balcony

11:00am: Out of 100
Veronica Ceci
Art

11:15am: Iconography of Saint Peter: Finding Meaning in the Brancacci Chapel
Andrea Maxwell
Art
11:30am: Power Point
Jessica Todd
Art

11:45am: Human Interaction with Frequency and Wavelengths: A Look at the Whirling Dervish in the
Culture of the Sufi Tradition
Mary L. Tuck
Music

12:00pm: Non-Traditional Casting: Diversifying or Destroying
Colleen Longshaw
Theatre and Dance

Modern & Classical Languages II, Room 309

11:00am: Beyond Bricolage: Archaeological Evidence for the Relationship between Mystery
Traditions in Ancient Greece
Shellie Smith
Liberal Studies

11:15am: Epigraphic Evidence of Violence
Amanda Kelley
Modern & Classical Language Studies

11:30am: Roman Love Letters: Spousal Love as Depicted in Ancient Roman Letters
Heather Moser and Amanda Kelley
Modern & Classical Language Studies

11:45am: The Effects of Word Frequency and Neighborhood Density on Decoding in Listening
Kelli Ryan, Randi Cline, Katie McClaren, Mishel Sanchez and Dr. Phillip Hamrick
Modern & Classical Language Studies

12:00pm: Linguistic Implications that Aid or Undermine National Unification: France and the Former
Yugoslavia
Anton Vegel
Modern & Classical Language Studies
Chemistry, Biochemistry & Exercise Physiology, Room 310A

11:00am: Studies on the Reactions of Reduced Vitamin B12 Complexes with Nitroxyl (HNO): HNO Oxidizes the Transition Metal Center of Cob(I)alamin
   Harishchandra Subedi
   Chemistry and Biochemistry

11:15am: Controlling the Shape and Properties of Iron Oxide Nanoparticles
   Matthew Worden
   Chemistry and Biochemistry

11:30am: Use of Passive Movement to Illicit a Transient Hyperemic Response in the Lower and Upper Limbs
   Keith Burns
   Exercise Physiology

11:45am: The Effect of Peer Influence on Exercise Behavior and Liking in Recreational Runners
   Andrew Carnes
   Exercise Physiology

12:00pm: Changes in POMS and Body Fat Percentage During a 12-Week University Based Exercise Program
   Kylene Peroutky
   Exercise Physiology

Biomedical Sciences, Chemistry & Biochemistry, Room 310B

11:00am: Chimpanzees Shed Light on Alzheimer’s Pathology in Humans
   Melissa Edler
   Biomedical Sciences

11:15am: Perforated patch clamp recording is required to observe GPCR-induced modulation of voltaged-gated K⁺ currents
   William Hamlet
   Biomedical Sciences

11:30am: Fecal Fatty Acid Profiles Across Heart Disease Status in Captive Male Gorillas
   Eric Henthorn
   Biomedical Sciences
11:45am: Divalent Metal Cations Destabilize a Hyper Stable RNA G-Quadruplex Structure
Sumirtha Balaratnam
Chemistry and Biochemistry

12:00pm: Induced RNA-DNA G-Quadruplex Structures Elicit Anti-Cancer Effects by Inhibiting Endogenous eIF4E Expression
Debmalya Bhattacharyya
Chemistry and Biochemistry

Business Administration, Finance & Marketing, Room 313

11:00am: Limits of the Bazaar: Tragedy of the Commons in F/OSS
Geoffrey Hill, Pratim Datta, and Marmahdi Darbanhosseinamirkhiz
Business Administration

11:15am: Municipal Market Systemic Risk in Light of Regulatory Reform
Candice Vander Weerdt
Business Administration

11:30am: The Choice between Supplier Financing and Bank Financing
Zilong Liu
Finance

11:45am: Brand Engagement Online: Development and Validation of a Scale
Qin Wang
Marketing

12:00pm: Subsequent Product and Charity Choice: Cause-Related Marketing and Choice Overload
Erik Zemljic
Marketing

Education & English, Room 314

11:00am: In Shakespeare's Empire Who is Roman and Who is Barbarian?
Shazia Nasir
English

11:15am: Short and Sweet: The Epigraph as Authorial Device in 20th Century American Fiction
Ross Tangedal
English
11:30am: International Students in Online Courses: Critical Issues for Learning Experiences  
Onur Topuzlu  
Educational Psychology

11:45am: Faculty Perspectives on Student Evaluations of Teaching Effectiveness: A Pilot Study  
Hannah Wilson  
Foundations, Leadership and Administration

12:00pm: Special Education Administrators' Experience of Spirituality in their Work Lives  
Merritt Waters  
Educational Leadership

Education II, Room 315

11:00am: An Opening Towards Global Citizenship: How Universities Worldwide Can Benefit from Global and Dual Citizenship  
Carla Mattiussi  
Higher Education Administration & Student Personnel

11:15am: Women Superintendents, the Feminist Ethic, and Organizational Leadership  
Carol Winter  
Higher Education Administration & Student Personnel

11:30am: Investigating Effect of Language Ideology on English Curriculum Development in China  
Yang Gao  
Teaching, Learning and Curriculum

11:45am: "Well, it's not a choice to pick at the salt": The Recalcitrance of Tinythings in a Kindergarten Classroom  
Casey Myers  
Teaching, Learning and Curriculum Studies

12:00pm: The Whole Enchilada: Bundling Research, Education, and Outreach to Improve Student Learning in the Sciences  
Lisa Regula Meyer  
Biological Sciences
Networks, Space & Environment, Room 316

11:00am: A Content Analysis of the Environmental Protection Agency’s Most-Viewed Video Public Service Announcements on its YouTube Web Page
   William Kelvin
   Communication Studies

11:15am: Correlation of Mass Dependent Sr Isotope Fractionation and Coordination Environment in Continental Barite from Zodletone Spring, Oklahoma
   Inoka Widanagamage
   Geology

11:30am: If a Ball is the Best Shape of All, Then What is the Worst?
   Galyna Livshyts
   Mathematics

11:45am: A Cross-Cultural Qualitative Examination of Social-Networking Sites and Academic Performance
   Ipek Ozer
   Foundations, Leadership and Administration

Political Science, Room 317

11:00am: Congressional Court-Curbing and Legislative Gridlock: Constraining or Maintaining Judicial Independence?
   Lisa Hager
   Political Science

11:15am: The Challenges of Health Care Reform
   Alireza Raisi
   Political Science

11:30am: Everyone’s Doing It: Examining the Innovation and Diffusion of Performance-Based Funding 2.0
   Joshua Testa
   Political Science

11:45am: Focused on Growth: A Case Study of the Hydraulic Fracturing Business in Youngstown
   Kristen Traynor
   Political Science
Psychology, Room 318

11:00am: Testing the Buffering Model of Support in Stress Spillover
Alexandra Chong
Psychology

11:15am: Why Did You Two Hook-Up? An Examination of Motives for Engaging in Various Casual Sexual Relationships and Experiences
Shannon Claxton
Psychology

11:30am: Number Set Processing: Do We Generate Implicit Mean Values?
Patrick Cravalho
Psychology

11:45am: Preschoolers' Communication About Discovery
Jenna Wall
Psychology
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 each general 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.

GSS Executive Board (2013-2014)

Michael Allen, Executive Chair    Lindsey Westermann Ayers, Vice-Executive Chair
Alex Lesak, Finance Chair    Larrie King, Information Services Chair
Krysia Kornecki, Advocacy Chair    Natalie Fox, Symposium Chair
Deb Lamm, Administrative Assistant    Dr. Kate McAnulty, Adviser

Additional information

Website:  www.kent.edu/graduatestudies/gss
Email:  gss@kent.edu
Facebook:  Kent State Graduate Student Senate
Twitter:  @KSUGSS

Save the date! The 30th Annual Graduate Research Symposium will be held on Friday, April 3, 2015.

A sincere thank you to all who served as judges and volunteers!