30TH ANNUAL
GRADUATE RESEARCH SYMPOSIUM
APRIL 3, 2015 | KENT STUDENT CENTER

Sponsored by
Graduate Student Senate
Presenters, Judges, & Attendees,

Welcome, and thank you for attending Graduate Student Senate’s 30th Annual Graduate Research Symposium! Whether you’re here to present your own research, to judge presentations, or to simply take in the work of Kent State’s graduate students, we’re glad you’re here.

Anniversary years give us special occasion to pause and reflect on where we have been and where we are headed. The long history of the event shows the dedication of the Kent State’s graduate student body to supporting and celebrating graduate research and scholarship. But dedication alone would not explain the rampant growth of the event over the last five years—from just 40 presentations in 2010 to over 300 in 2015. What explains this growth? I’m inclined to believe that it is due to our increasingly strong and motivated graduate student body, trained in programs becoming more competitive and renowned by the year. Let’s continue to build on this momentum together.

This event truly could not be possible without our faculty and staff judges who so graciously volunteer their time and expertise, the GSS Executive Board members who have put in countless hours helping organize this event, and our many gracious day-of volunteers. My sincere thanks to President Warren for her willingness to share words of wisdom and inspiration at our Awards Luncheon today. Thanks also to Dean Stephens whose support has facilitated the growth of this event. Finally, my utmost thanks and appreciation go to Dr. Kate McAnulty, who dedicated so much of her time to help us make this day a success—from high-level planning to logistics to unending encouragement.

Enjoy this day of research and scholarship!

Sincerely,

Scout McCully
2014-2015 GSS Symposium Chair
Check-in begins at 8:30am outside of Ballroom

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Oral Presentations: Session 1 • 9:00 AM - 11:00 AM

Teaching, Learning, & Diversity

Ballroom Balcony

JUDGE(S): Dr. Brian Barber, Dr. Sara Raven

9:00  Murat Dagistan
Teaching, Learning, & Curriculum

*A nationwide study on how and to what extent diversity has been integrated into syllabi and university policy in American universities.*

9:15  Yang Gao
Teaching, Learning, & Curriculum

*How EFL teachers’ beliefs about reading and teaching reading inform their actual practice? A mixed method case study.*

9:30  Rashmi Singh
Teaching, Learning, & Curriculum

*Solving linear equations: Approaches in traditional and reformed curriculum of mathematics in United States.*

9:45  Neete Saha
Foundations, Leadership, & Administration

*International students’ experiences with academic and career advising.*

10:00 Tanesha Walker
Lifespan Development & Educational Sciences

*The inclusion of counselor education in teacher education research.*

10:15 Nancy Weissman
Lifespan Development & Educational Sciences

*Social, cognitive and teaching presence in the synchronous online environment.*
Across the Nation

Room 309

JUDGE(S): Dr. Chris Post, Dr. Xinyue Ye

9:00  Carl Jacklitch
      Geology
      "A geotechnical investigation of the 2013 fatal rockfall in Rockville, Utah."

9:15  Thomas Ballinger
      Geography
      "Does Arctic sea ice influence North American climate?"

9:30  Johnathan Kirk
      Geography
      "Multi-scale climatic factors of the ongoing drought in the southwestern United States."

9:45  Gordon Cromley
      Geography
      "‘Yearning to Breathe Free’: Liberty Island and the demilitarization of memorialization."

10:00 William Kiskowski
      Geography
      "The cultural geography of metropolitan Detroit, Focusing on the Arab American community in Dearborn."
Around the World
Room 309
JUDGE(S): Dr. Reid Coffman, Dr. Tom Schmidlin, Ms. Shazia Nasir

9:00 Denise Jenison
History
Making the desert bloom: Modernization as a reference culture in the debate over Palestine.

9:15 Turki Alosimi
Architecture
The urban design of religious tourism: Case study of pilgrimage in Makkah, Saudi Arabia.

9:30 Anuj Gurung
Political Science
Diaspora and globalized civil war: A statistical analysis.

9:45 Yeo Jung Yoon
Political Science

10:00 Shakhnoza Yakubova
Foundations, Leadership, & Administration
Transition from secondary to higher education: A case study of ethnic Uzbeks in rural southern Kazakhstan.

10:15 Abdulelah Alqarni
Foundations, Leadership, & Administration
The relationship between student evaluations and teacher quality in high school in Saudi Arabia: Item Response Theory (IRT) analysis and multilevel modeling.
Environment  
*Room 310A*

**JUDGE(S):** Dr. Yanhai Du, Ms. Cindy Kristof, Dr. William Willoughby  

**9:00** Said Abiakl  
Architecture  
*Urban density and overpopulation in Cairo: Environmental and social problems.*

**9:15** Chris Willer  
Geography  
*Intersections of community gardens and economic revitalization in postindustrial cities.*

**9:30** Sravan K. Karpurapu  
Computer Sciences  
*C Campus Environment Maintenance (CEM)*

**9:45** Andrea Meluch  
Journalism & Mass Communication  
*“There’s no real support system”: Institutional support failures in a slowly-evolving environmental disaster.*

**10:00** Stian Rice  
Geography  
*Putting the natural (disaster) back in famine: Malawi, 2001-2002.*

Health & Biomedical Sciences  
*Room 310B*

**JUDGE(S):** Dr. Lisa Chinn, Dr. Derek Kingsley, Dr. Laurie Wagner  

**9:00** Keith Burns  
Health Science  
*The use of passive limb movement to increase femoral artery blood flow in the lower limbs of paraplegics.*
9:15  Yu Lun Tai  
Health Sciences  
The effects of acute free-weight resistance exercise on autonomic modulation.

9:30  Jessica Sanata  
Nursing  
Acceptability, benefits, burdens and feasibility of a guided imagery intervention for persons undergoing a total knee replacement.

9:45  Aidan Ruth  
Biomedical Sciences  
Bundle number and bipedality: Probing the comparative anatomy of the anterior cruciate ligament.

10:00  Brandon Pollock  
Health Sciences  
Comparing cardiovascular responses between upper body negative pressure and lower body negative pressure.

10:15  David Cunningham  
Biomedical Sciences  
Neurophysiologic response to bilateral vs. unilateral therapy for chronic stroke patients with varying degrees of motor impairment.

Artistic Expression & Innovation  
Room 313  
JUDGE(S): Dr. Yuko Kurahashi, Ms. Megan Pitcher, Ms. Cynthia Stillings  
9:00  Samuel Boateng  
Music  
The dimensions of social and artistic expressions in Ghana’s Kpanlogo Dance.
9:15 Rachel Hellgren
Visual Communication Design
Improving innovation in museums with design thinking.

9:30 Joe Karlovec
Art
Evolving landscapes at Footprints Farm.

9:45 Rachel Smith
Art
Schmuck Jewelry Fair.

10:00 Kimberly Minarich
Music
Awakening possibility in students through the power of music.

10:15 Sophia Adodo
Art

Language & Communication
Room 314
JUDGE(S): Dr. Julia Huyck, Dr. Stephanie Libbon, Dr. Jennifer Roche

9:00 Kathryn Hannum
Geography
Geographies of language subordination in Galicia, Spain.

9:15 Md Rony
Foundations, Leadership, & Administration
A scale to measure foreign language anxiety: Its latent factor structure and construct validity.
9:30  Michael Sweet  
Journalism & Mass Communication  
*The work of translation and art of Ovid’s Metamorphoses.*

9:45  Kara Kirby  
Journalism & Mass Communication  
*Access and use of ICTs by Tanzania women: Imagining a world beyond socio-cultural expectations.*

10:00  Margaret Cogar  
Journalism & Mass Communication  
*The impact of forum status on content in student media: A mixed-methods analysis of Ohio high school publications.*

**Perspectives on Violence & Tragedy**  
*Room 315*  
JUDGE(S): Dr. Doug Delahanty, Mr. Adam Steele

9:00  Savina Sirik  
Geography  
*Everyday experiences of Cambodian Genocide survivors in hidden landscapes of violence.*

9:15  Kristen Traynor  
Political Science  
*Controlling the conversation: Framing of prisoner treatment during the 2005-2006 hunger strike at Guantánamo Bay.*

9:30  Kristin Weis  
Philosophy  
*Capital punishment and the social contract: A critique of capital punishment in the context of Thomas Hobbes' Leviathan.*
9:45 Amanda Clark  
Political Science  
*Let’s (not) talk about sex: The impact of issue framing by anti-trafficking NGOs in northeast Ohio.*

10:00 Sweta Sen  
Political Science  
*Non-violent tendencies among violent groups.*

10:15 Hana Alghamdi  
English  
*Tragic heroes and social justice in The Merchant of Venice and Othello.*

**Physics, Chemistry, & Biochemistry**  
*Room 316*  
JUDGE(S): Dr. Jake Shelley, Dr. Bansidhar Datta

9:00 Sonya Adas  
Chemistry & Biochemistry  
*N-Hydroxysulfonamide nitroxy (HNO) donors and their reactions with vitamin B<sub>12</sub>.*

9:15 DJ Haney  
Physics  
*CeCoIn5: Superconductivity and quantum criticality.*

9:30 Sanjoy Paul, Brett Ellman, and Robert Twieg  
Physics  
*Liquid crystalline organic semiconductor for organic electronics applications.*

9:45 Lewis Sharpnack,  
Physics  
*The surface morphology of arsenic sulfide glass thin films and their prospects for display applications.*
10:00 Yang Zhou
Chemistry & Biochemistry
*
*Synthesis and photolysis of a novel family of photoactivatable HNO donors using the (3-hydroxy-2-naphthalenyl)methyl photolabile protecting group.*

Gender Studies
*Room 317*

JUDGE(S): Dr. Susan Roxburgh, Ms. Melissa Spohn, Dr. Keith Wisdom

9:00 Alynn Gordon,
Psychological Sciences
*What does it mean to be egalitarian or traditional today? A qualitative analysis.*

9:15 Alexandra Riecke-Gonzales and Angela Duck
Journalism & Mass Communication
*Modern day motherhood: Lessons from Sex & the City.*

9:30 Andria Blackwood,
Geography
*Client AWOL behavior within a Community-based Correctional Facility (CBCF): Examining issues of masculinity, risk factors, and influences.*

9:45 Karen Tollafield,
Teaching, Learning, & Curriculum
*Finding his narrative voice: Case study of a trans*man.

10:00 Rob Mckinney,
Lifespan Development & Educational Sciences
*Does location really matter? Rural and urban health of LGBTQ.*

10:15 Shellie Smith,
Modern & Classical Language Studies
*Medea: The (d)Evolution of a Goddess.*
**Attitudes, Emotions, & Behavior**

*Room 318*

JUDGE(S): Mr. Greg Blundell, Dr. Judith Gere, Dr. Kathryn Kerns

9:00  Virginia Little  
*Sociology*  
*Genetically modified (GM) food and the European Union: How trust in infrastructure and technological attitudes towards science shape European lay attitudes across 43 countries.*

9:15  Hua Meng  
*Business Administration*  
*This is not my lavender: The effect of scent names on scented product purchase intention.*

9:30  Steven Winterfeldt  
*Philosophy*  
*Attachment and suffering in Buddhism and Stoicism.*

9:45  Cody Ruiz  
*Anthropology*  
*Redefining behavioral modernity with new fossil evidence from South Africa.*

10:00  Shannon Claxton  
*Psychological Sciences*  
*Daily changes in affect following casual sexual relationships and experiences.*

10:15  Mehdi Ghayoumi  
*Computer Sciences*  
*Facial expression for emotion recognition.*
Cognition & Language

Room 319

JUDGE(S): Dr. Sloane Burgess, Dr. Clarissa Thompson, Dr. Sonya Wisdom

9:00  Patrick Cravalho
Lifespan Development & Educational Sciences
How far will the ball go next time? Children and adults predictions imply implicit estimation of number sets.

9:15  Kyle Henning
Psychological Sciences
Children's understanding of a word-learning strategy.

9:30  Dale Hirsch
Lifespan Development & Educational Sciences
Unique facilitation of semantic operations.

9:45  Jeremy Slocum
Psychological Sciences
Investigating children's metacognitive representation of language.

10:00 Jenna Wall
Psychological Sciences
Awareness of Lexical Ignorance predicts double-checking during novel word mapping.
Master’s Posters
Room 306

Master’s I
JUDGE(S): Dr. Jacqueline Curtis, Dr. Brett Tippey

1  Matthew Dyne
   Geography
   *A tale of two cities: Comparative analysis of colonial capitals Léopoldville and Brazzaville.*

2  Elizabeth Emerson
   Philosophy
   *The distance of authority.*

3  Huanyang Zhao
   Geography
   *Spatio-temporal analyses of religious establishments in China: A case study of Zhejiang Province.*

4  Lucas Koenig
   Architecture
   *The economic issues of twentieth century American housing.*

5  Andrew Kramer
   Anthropology
   *Tracing the Chan Polity: An epigraphic examination of the building and maintenance of hegemonic power at Calakmul.*

6  Kyle Delker
   Architecture
   *Why homeowners choose not to invest in retrofitting: A study of energy retrofits on historical homes (pre 1950) in America.*
7  Hanieh Haji Molana  
   Architecture  
   *Evaluation of the sense of community in modern Iranian residential buildings, case of: Maskan-e Mehr, Shiraz, Iran.*

8  Matt Dureiko  
   Architecture  
   *The symbiotic stadium: A design solution for integrating the stadium into the city.*

**Master’s II**

JUDGE(S): Mr. William Lucak, Dr. Mary Hricko

9  Kaitlyn Moynihan  
   Architecture  
   *Process in a building: Wine making.*

10 Matthew Nykamp  
   Architecture  
   *Blurring the edges: A study of alcohol friendly public spaces.*

11 Abagale Burton  
   Architecture  
   *Abandonment or demolition: The value of historic neighborhood schools.*

12 Jennifer Carnprobst  
   Architecture  
   *Adaptive installations: Interactions for revitalizing urban streetscapes.*

13 Rachel Smith  
   Architecture  
   *Potential of media facades to improve communication in urban environments.*
14 Alexa Copeland  
Architecture  
*Natural ventilations impact on preventing the spread of Airborne Influenza A and design of hospital patient rooms.*

15 Carolyn Emmer  
Architecture  
*Phenomenological re-takes.*

**Master’s III**

JUDGE(S): Mr. Jon Yoder, Mr. Mark Pike

16 Clarisse Gates  
Architecture  
*Where does the perception of built environment overlap?*

17 Eric Leathers  
Architecture  
*Process to place: Purpose in architecture at the local scale.*

18 Jonathan Nagy  
Architecture  
*Situating the individual: To choose to be a body in public.*

19 David Sparling  
Architecture  
*Place attachment and participatory value: Battling designer colonialism.*

20 Christopher Moyer  
Architecture  
*The perception of contemporary architecture and the “starchitect”: A study of buildings by famous architects as experienced by the layperson.*
Lydia Karoscik
Architecture
*The architecture of science fiction film - Alien influences on modern building typologies.*

Katie Hartman
Architecture
*Soundscape: Urban ecology and environmental health.*

Master’s IV
JUDGE(S): Mr. Joseph Ferut, Ms. Cindy Kristof
Andrew Sansone
Architecture
*The affects of sound in an urban setting.*

Tyler Middendorf
Architecture
*The sound of religion: Asserting authority through architectural acoustics.*

Ariel Yang
Music
*Representing China's musics: An analysis of Disney's Mulan soundtracks.*

Deanna Nebel
Music
*Maï: A Western saxophone and Eastern shakuhachi hybrid.*

Krystal Duchi
Health Sciences
*Acoustic correlates of speaker confidence: Can they tell I don’t know?*
Stephen Bennett
Architecture
Biomimicry for the photothermal properties of the building envelope.

Master’s V
JUDGE(S): Dr. Adil Sharag-Eldin, Ms. Karen Hillman

Keith Ely
Architecture
Biomimicry in architecture: Methods of improved building skin performance through integration of structural color.

Jonathan Connelly
Architecture
Biomimetic applications in architecture: Economy and sustainability.

Jeffrey Ury
Architecture
Applications of structural coloration in thermoregulation through building skin design.

Ben Wilston
Architecture
Bioclimatic design in an urban context.

Nathan Yanosick
Architecture
Urban form and outdoor thermal stress.

Cathleen Matuzak
Architecture,
Asthma and allergies exacerbated by buildings.
Amanda Curry
   Architecture
   *Living walls: A green way to transform the built environment for the healthier.*

Master’s VI

JUDGE(S): Dr. Richard Mangrum, Dr. Reid Coffman

Colin Fishbaugh
   Architecture
   *The biophilic city: Urban spatial recovery through revealing the urban landscape.*

Jonathan Holland
   Architecture
   *Climatic resiliency: Environmentally resilient design strategies for Slavic Village, Cleveland, Ohio.*

Peter Harjung
   Architecture
   *Adapting to climate change: The role of demographics and the built environment in legacy cities.*

Katherine Mitchell
   Architecture
   *Green infrastructure: A devise for reducing rising rates of obesity.*

Aliaa Maar
   Applied Engineering, Sustainability, & Technology
   *Fuel cells as an alternative source of energy and spiral fuel cell manufacturing investigation.*

Nuttapong Phantkankum
   Applied Engineering, Sustainability, & Technology
   *Development of a small energy electron accelerator for surface treatment and coatings.*
42  Justin Fye
   Architecture
   *Digitally mobile design [experiential architecture for stadia]*.

**Master’s VII**

JUDGE(S): Mr. Ken Burhanna, Dr. Yanhai Du

43  Jeffrey Jasinski
   Architecture
   *PIN [Protean Infrastructural Network]*.

44  Bosheng Liu
   Architecture
   *Potential of module construction for architecture industry: Using 3D printed flexible surface*.

45  Adam Reis
   Architecture
   *3D printing and the construction industry*.

46  Max Wagner
   Architecture
   *The urban implications of the autonomous vehicle: Proposing a pedestrian focused system within the current urban fabric of a city*.

47  Joshua Kruszynski
   Visual Communication Design
   *Intelligent user interfaces*.

48  Prerna Suri
   Fashion
   *Technology-enhanced adaptive clothing for the physically disabled*.

49  Elizabeth Nelsen
   Modern & Classical Language Studies
   *CAT tools in the rapidly growing translation industry*.
Anjanette Barrick
Architecture
Sprawl and public health: How to redesign suburban environments in order to decrease physical illnesses.

Master’s VIII
JUDGE(S): Dr. Jennifer Mapes, Dr. William Willoughby
Mykie Hrusovski
Architecture
Self-imposed social isolationism in public urban environments.

Mary Franciosa
Architecture
Urban interventions and innovative urbanism ideas: Creative planning for streetscape comfort.

James Lennon
Architecture
Urban density and public transportation: Cleveland.

Daniel Fox
Architecture
The psychological transformation of the urban fabric through sociological obtrusions.

Caleb Heller
Architecture
Designing healthy and sustainable schools: The impact of daylighting on student health and performance.

Brian Karcher
Architecture
The impact of urban design on the human's psychological and social behavior.
57  Kiley Maas  
   Architecture  
   *Main street revival: Creating a sense of place through shared space.*

58  Shannon Lesnak  
   Lifespan Development & Educational Sciences  
   *Activity-based intervention for early intervention in natural environments.*

**Master’s IX**

JUDGE(S): Dr. Ching-I Chen, Dr. Sara Raven

59  Yolanda Mahoney  
   Lifespan Development & Educational Sciences  
   *The effect of joint attention on play skills in children with autism.*

60  Corey Raleigh  
   Lifespan Development & Educational Sciences  
   *Development of a curriculum enhancing character development for children in generational poverty.*

61  Kaitlyn Warren  
   Teaching, Learning, & Curriculum  
   *Coaching caregivers to implement music therapy as a tool to improve expressive language skills in young children.*

62  Lolagul Raimbekova  
   Teaching, Learning, & Curriculum  
   *Development of early childhood education and care in Tajikistan: Hope for accessibility, affordability, and quality in early years education.*
Daniel Smith  
Sociology  
*Merely players: Reviewing literature on video game careers and parental career support.*

Phyllis Jadosh  
Lifespan Development & Educational Sciences  
*The effects of parent implemented communication intervention to foster positive adult-child interactions and child communication at home setting.*

Elizabeth Lattime  
Teaching, Learning, & Curriculum  
*Effective coaching: Empowering families.*

Bridget Tompkins  
Lifespan Development & Educational Sciences  
*Coaching caregivers on the use of a play-based communication strategy to enhance the social skills of young children with communication delays.*

Ryan Buck  
Teaching, Learning, & Curriculum  
*The effects of naturalistic communication promoting strategies on a child’s expressive language at a home setting.*

Jenna Dodson  
Lifespan Development & Educational Sciences  
*The effects of responsive teaching practices, on communication through parent to child interactions.*
Maryam Hima  
Lifespan Development & Educational Sciences  
*The effect of activity choice and social and primary reinforcement on sitting on floor behavior.*

Qiong Tao  
Fashion  
*Clothing attributes that influence purchase intention.*

Master’s XI

JUDGE(S): Dr. Jeanne Smith, Ms. Julie Gabella, Dr. Kathryn Kerns

Yan Wang  
Journalism & Mass Communication  
*Dialogs with Chinese audiences through Sina Weibo: Case studies of Chinese and American celebrity social media practices.*

Yuandong Chen  
Journalism & Mass Communication  
*Possible factors that might change Chinese people’s attitudes towards media.*

Rachel DeFranco  
Psychological Sciences  
*Witness uncertainty and its effects on jurors' beliefs.*

Daniel Armagno  
Architecture  
*The psychological effect of artificial light: Cognitive performance impact in a work environment.*

Tim Magner  
Architecture  
*The effects of varied lighting styles on patrons' experiences at bars: A case study of four environments.*
Graduate Student Senate

76 Sandeep Kumar Gudipati
Digital Science
Leadership makes a difference.

77 Anna Wise
Psychological Sciences
Family social support protects against suicide behavior and ideation in a diverse sample of LGBT adolescents.

Master’s XII
JUDGE(S): Ms. Amanda Burke, Dr. Yafen Wang

78 Lisa Manderino
Psychological Sciences
Traditional cognitive deficiencies predict impaired performance on an emotion recognition task in bariatric surgery candidates.

79 Elizabeth Ruzicka
Psychological Sciences
Examining the relation between weight control strategies and eating disorder symptomatology in first year college females.

80 Maria Teran-Somohano
Modern & Classical Language Studies,
Translating health promotion materials for true patient-centered care.

81 Jessica Sanata, Carol A. Sedlak, and Cyndi Gale Roller
Nursing
Osteoporosis prevention knowledge in transgender individuals.
82  Christine Scaglione
    Architecture
    *Walkable neighborhoods: A development of walkability criteria and an analysis of a suburban community.*

83  Apoorva Juneja
    Architecture
    *Energy and health implications of physical attributes of the community: A study of Slavic Village, Cleveland, Ohio.*

84  Pavan Sarisa
    Digital Science
    *Meditation.*

85  Shorog Al Omair
    Biomedical Sciences
    *Splicing regulation of major VEGF isoforms.*

**Master’s XIII**

JUDGE(S): Dr. John McDaniel, Mr. Varun Kumar

86  Lydia Heemstra
    Biological Sciences
    *Melatonin and Cortisol in night shift work.*

87  Jessica Krieger
    Biomedical Sciences
    *The inhibitory effects of Fibrosis on muscle regeneration in a self-assembled tissue engineered model of skeletal muscle.*

88  Maeson Latsko
    Psychological Sciences
    *Neuroendocrine and gene expression changes are associated with different phenotypic responses to juvenile social defeat.*
89 Karin Maria Nylocks
Psychological Sciences
  Influence of the BDNF Val66Met polymorphism on autonomic nervous system activation to emotional stimuli.

90 Adam Ulmen
Psychological Sciences
  Is anisomycin-induced amnesia for reconsolidation of auditory fear conditioning state-dependent?

91 Julia Yeakley
Geology
  Influence of salt tectonics on seafloor morphology from Algeria to Sardinia.

Master’s XIV
JUDGE(S): Dr. Daniel Holm, Dr. Jeremy Green

92 S. Lindsay Poluga
Geology
  Rock mass characterization and stability evaluation of Mount Rushmore National Memorial, Keystone, South Dakota.

93 Andrew Gerwitz
Geology
  Changes in limb bone size of Florida Odocoileus virginianus (Mammalia: Cervidae) from the early Pleistocene to Holocene.

94 Raissa Marques Mendonca
Biological Sciences
  Effects of nickel-enriched lotic sediments on macroinvertebrate community assemblages.
95 Alexa Stephenson  
Anthropology  
*A comparative study of the cholinergic innervation of the basal ganglia among human and nonhuman primate species.*

**Doctoral Posters**

2nd Floor Lobby/Balcony

**Doctoral I**

JUDGE(S): Dr. Soumitra Basu. Dr. Elda Hegmann

97 Jibin Abraham Punnoose  
Chemistry & Biochemistry  
*DNA secondary structures in the full-length 3’ telomeric overhang.*

98 Sumirtha Balaratnam  
Chemistry & Biochemistry  
*SHARP protein causes the remodeling of SRA1 lncRNA structure.*

99 Nathan Beals  
Chemistry & Biochemistry  
*G-Quadruplex inducing hyaluronic acid hydrogel for potential biomedical applications.*

100 Chamila Gunathilake  
Chemistry & Biochemistry  
*Uranium extraction from seawater using amidoxime modified mesoporous silica.*

101 Jowita Ludwinowicz  
Chemistry & Biochemistry  
*Tailoring micro-mesoporosity in carbon spheres for carbon dioxide adsorption.*
Sangeetha Selvam  
Chemistry & Biochemistry  
*Effect of DNA supercoiling on G-quadruplex formation under torsional stress.*

Mona Mirheydari  
Physics  
*Investigation into the biophysics of lipid droplet fusion.*

Andrea Fitzgibbon  
Biological Sciences  
*Micro-cubed: Microbes, microelectrodes and microhabitats.*

**Doctoral II**

JUDGE(S): Dr. Fayez Safadi, Dr. Edgar Kooijman, Dr. Diane Stroup

Sewwandi Rathnayake  
Biological Sciences  
*The interactions of the exchangeable PAT protein, perilipin 3 with lipid monolayers.*

Pritam Sinha Roy  
Biological Sciences  
*Propofol causes vasodilation in vivo via TRPA1 Ion Channels: Role of nitric oxide and BKCa channels.*

Anjali Krishnan  
Biomedical Sciences  
*Culture dependent identification of microcystin degrading bacteria.*

Holly Cappelli  
Biomedical Sciences  
*TRPV4 channels modulate pathological angiogenesis via Rho/Rho kinase pathway.*
109 Gaelle Muller-Greven
Biomedical Sciences
*Glioma stem cells internalize perivascular bevacizumab via a non-canonical pathway and target it for recycling or degradation.*

110 Michal Marszewski
Chemistry & Biochemistry
*Effect of scaffold source on titania materials obtained by scaffold-assisted templating.*

111 Anna Droz and Max Wagner
Biological Sciences
*Mobile as a forklift: Movable ecosystems.*

**Doctoral III**

JUDGE(S): Dr. Jay Jahangiri, Dr. Vladimir Gurau

112 Chenjian Fu
Geology
*Paleomagnetic apparent Polar wander paths, the plate tectonics' storyteller, with varying smoothing algorithms.*

113 Jonathon Van Gray
Biological Sciences
*Stream biofilm recovery trajectory after compounded perturbations.*

114 Binaya Adhikari and Andrea L. Case
Biological Sciences
*Exploring distribution of sex-determining genes and sex phenotypes in gynodioecious wildflower Lobelia siphilitica L. (Campanulaceae).*
115 Michelle Cordier
Mathematics
If you can hide behind it, can you hide inside it (with rotations)?

116 Mike Doyle
Mathematics
Partitioning the set of subgroups of a finite group using Thompson's generalized characters.

117 Abdulaziz Aloliqi
Biomedical Sciences
Connexin 43 and E-cadherin modulate prostate cancer cell migration.

Doctoral IV
JUDGE(S): Dr. Mary Ann Raghanti, Dr. Anthony Tosi
118 Spencer Andrei
Biomedical Sciences
Expression of TRP Ion Channels in Cardiac Myocytes.

119 Rahul Bhattacharjee
Biological Sciences
Gsk3a is essential for sperm function and male fertility.

120 Lucy Coughlin
Biomedical Sciences
Mitophagy and autophagy in the DBA/2J glaucomatous mouse optic nerve.

121 Sara Harper
Health Sciences
Cognitive function and fitness improvements after a multidimensional exercise intervention in healthy older adults.
122 Adrienne Hopson  
Biological Sciences  
*Sound production by Procambarus acutus crayfish.*

123 Philip Iffland  
Biomedical Sciences  
*Neuroprotective role of the humoral immune response in an animal model of SE.*

124 James Redfearn  
Biological Sciences  
*A complete reconstitution of the Escherichia coli Cytokinetic Ring.*

125 Shane Draper  
Health Sciences  
*High-intensity exercise on central and peripheral vascular function.*

**Doctoral V**  
JUDGE(S): Dr. Derek Kingsley, Dr. Laurie Wagner

126 Curtis Fennell  
Health Sciences  
*Arterial stiffness and wave reflection following an acute bout of resistance exercise in resistance-trained individuals.*

127 Hayden Gerhart, Jon Stavres, and Shane Draper  
Health Sciences  
*Forearm blood flow and reactive hyperemia in response to an acute bout of resistance exercise using free-weights.*
Rao Nilin, Melissa Ricci, and Lauren Sciarappa
Health Sciences
Thermochromic liquid crystal fabric for early home detection of potential high risk foot complications: A proof-of-concept study.

Gan Golshteyn and Alton Johnson
Podiatric Medicine
Common foot deformities associated with falls among elderly patients in nursing homes.

Dina Keeler
Podiatric Medicine
The effect of circular static external fixation in the management of post-debridement foot wounds.

Sarah Richards and Michael LeCastre
Podiatric Medicine
Synovial lipoma of the subtalar joint: A rare case report.

Ryon Wiska, Lauren Coe, and Nickil Nayee
Podiatric Medicine
Functional ankle instability: A long term complication of conservative and surgical therapy.

Angela Freeman
Biological Sciences
Arginine vasopressin influences social behavior in Richardson's ground squirrel.

Doctoral VI
JUDGE(S): Dr. Gemma Casadesus, Dr. Kristy Welshhans
Shruti Jain
Biological Sciences
Local translation of Down syndrome cell adhesion molecule in axon growth and guidance.
134 Leah Kershner
Biological Sciences
*RACK1 is necessary for the formation of point contacts and axon growth.*

135 Shannah Witchey
Biological Sciences
*Immediate early gene activation in postparturient oxytocin receptor forebrain knockout mice.*

136 Jeffrey Blair
Biomedical Sciences
*Neuronal luteinizing hormone receptor activation affects synaptic plasticity.*

137 Travis Miller
Biomedical Sciences
*Peripartum neurogenesis in forebrain oxytocin receptor knockout mice.*

138 Lee Gilman
Psychological Sciences
*Optogenetic activation of corticotropin releasing factor neurons in the central nucleus of the amygdala abolishes contextual and cued fear responding.*

139 Joseph Lynch III
Psychological Sciences
*Estradiol increases fear generalization through activation of nuclear estrogen receptors and a genomic effect on fear memory retrieval.*

140 Chutarat Akkarawongvisit
Nursing
*Depression and the impact of meditation practice on Thai undergraduate nursing students.*
Doctoral VII

JUDGE(S): Dr. Doug Delahanty, Dr. Yea-Jyh Chen, Dr. Maggie Stedman-Smith

141 Lori Margevicius
   Nursing
   A practice change initiative to study the effects of a Herpes Zoster education program on long-term care staff's knowledge.

142 Jennifer Bryant
   Public Health
   Perceived harm of prescription opiate drugs and reasons for misuse.

143 Diana Mendez
   Psychological Sciences
   Using an invisible message to promote sunscreen use.

144 Aimee Smith
   Psychological Sciences
   Psychophysiological profile in pediatric pain rehabilitation.

145 Julie Schaefer
   Public Health
   College curriculum to increases intuitive eating in college students.

146 Diana Kingsbury
   Public Health
   Effects of a pilot hand hygiene randomized cluster trial to reduce communicable infections among U.S. office-based employees.

147 Dana Unger
   Lifespan Development & Educational Sciences
   Creating a safe space in counselor education and supervision programs.
Doctoral VIII
JUDGE(S): Dr. Keith Wisdom, Dr. Adam Steele

148 Ashley Johnson
Lifespan Development & Educational Sciences
*Culturally responsive positive behavior support: A model for increasing equity in justice in school discipline.*

149 Homood Alharbi, Carol A. Sedlak, and Cyndi Gale Roller
Nursing
*Osteoporosis prevention behaviors in transgender individuals.*

150 Homood Alharbi, Carol A. Sedlak, and Cyndi Gale Roller
Nursing
*Osteoporosis health beliefs in transgender individuals.*

151 Heather Flynn
Library & Information Science
*Understanding the experience of international graduate students in their online search activities for academic purposes: A Phenomenological approach.*

152 Jillian Watts
Foundations, Leadership, & Administration
*Disrupting the subtractive identity of black queer faculty on predominantly white colleges and universities.*

153 Noraliz Ruiz Caraballo
Music
*Abrazados por el mar: An ethnographic account of the musical collaborations between Puerto Rico and the Canary Islands.*
154  Kevin Wilson  
Music  
*Early music of Brazil: A historical outline with emphasis on José Maurício Nunes Garcia.*

155  Amal Al-Alawi  
Teaching, Learning, & Curriculum  
*Collaborative learning in education: Evidence-based teaching literature review.*

**Doctoral IX**

JUDGE(S): Dr. Sonya Wisdom, Dr. Brian Barber

156  Hamad Alazzaz  
Teaching, Learning, & Curriculum  
*Teacher adjustment to a new curriculum.*

157  Rajlakshmi Ghosh  
Teaching, Learning, & Curriculum  
*Envisioning successful teaching by scientific inquiry for diverse learners in the classroom: Insights from preservice special education teachers.*

158  Karly Cochran  
Psychological Sciences  
*The influence of relationship goals on relationship quality and affective well-being.*

159  Lindsey Matt  
Psychological Sciences  
*The stability of negative affect differentiation in emotional disorders across contexts.*

160  Emily Mupinga  
Lifespan Development & Educational Sciences  
*Experiential learning at the village of hope.*
161 Michael Varga  
Liquid Crystal Institute  
* A solution to the community parking dilemma. 

162 Amber Rochette  
Psychological Sciences  
* Gender is associated with memory task performance in older adults with heart failure.

**Doctoral X**

JUDGE(S): Dr. Sanna Harjusola-Webb, Dr. Kelly Cichy

163 Rachael Todaro  
Psychological Sciences  
* Interleaving across contexts. 

164 Rashmi Singh  
Teaching, Learning, & Curriculum  
* Scaffolding through questioning enhances student’s understanding of mathematical proof concept: A discourse analysis of teacher-student communication. 

165 Sebiha Balci  
Lifespan Development & Educational Sciences  
* Badges versus goals: What really predicts learning? 

166 Omer Farooq  
Library & Information Science  
* Learning theories and information literacy instruction in virtual learning environments. 

167 Jennifer Toney  
Teaching, Learning, & Curriculum  
* Third grade comic club: Student experiences. 

168 Ilfa Zhulamannova  
Teaching, Learning, & Curriculum  
* Storytelling.
An overview of Saudi Arabian early childhood education: Meeting the needs of Saudi children.
Oral Presentations: Session 2 • 11:00 AM - 12:30 PM

Meaning, Value, & Identity
Ballroom Balcony
JUDGE(S): Dr. Rachael Blasiman, Dr. Fashaad Crawford, Ms. Virginia Little

11:00 William Weaver
Journalism & Mass Communication
The phenomenology of value.

11:15 Brooke Long
Sociology
Multiple counter-normative identities: An empirical test of competing hypotheses.

11:30 Cadey Korson
Geography
Self-determination, national identity, and reconciliation in the New Caledonian independence debate.

11:45 Brian Don
Psychological Sciences
Purpose in life trajectories from middle to older adulthood.

12:00 Sureeeporn Suwannaosod
Nursing
Hope and spiritual well-being in adolescents with cancer: An integrated review.

12:15 Mark Rhodes
Geography
A Paul Robeson philosophical framework for academic application: Trans-scalar, transcultural, and transdisciplinary approaches.
Business & Leadership

Room 307

JUDGE(S): Dr. Pratim Datta, Dr. Claudia Gomez, Dr. Eric Pempus

11:00  Paul Mills  
Business Administration  
Pull mobile coupons: Scanning for discounts at the first moment of truth.

11:15  Sunbong Jung  
Business Administration  
Geographic and business line diversification and the mix of debt and equity issuance.

11:30  Puneeth Kumar Jethwa  
Digital Science  
Management and leadership.

11:45  Jason Murdock, Leigh Hughes, and Shelby Muter  
Visual Communication Design  
NASA as a leader & innovator.

12:00  Philip Shackelford  
History  

12:15  Megan Shaeffer  
Sociology  
Becoming an archaeologist: Professionalization in the applied sciences.
Local Studies

Room 309

JUDGE(S): Dr. Jim Bracken, Dr. Sarah Smiley, Dr. Scott Sheridan

11:00  Jennifer Burrell
Geography
Can environmental and societal factors determine the status of neighborhoods in Youngstown, Ohio?

11:15  Krystal Levstek
Geography
An institutional analysis of Northeast Ohio’s regional bus transportation systems throughout rural and urban service areas.

11:30  William Kelvin
Journalism & Mass Communication
Kent State Recycling Survey.

11:45  Zhuo Chen
Geography
Geography of social media: A look at geographic and temporal trends of the April 2nd shooting incidence at Kent State University.

12:00  Sunita Shakya
Public Health
Cellular Mechanisms

Room 310A

JUDGE(S): Dr. Soumitra Basu

11:00  Debmalya Bhattacharyya
Chemistry & Biochemistry
A G-quadruplex forming domain in the IRES A of the hVEGF folds independently and directly recruits 40S ribosomal subunit.

11:15  Jagat Budhathoki
Physics
Mechanistic insight into unfolding of G-Quadruplex by bloom helicase.

11:30  Rebecca Curry
Biomedical Sciences
Understanding the role of dorsal nucleus of the lateral lemniscus neurons in the avian interaural level difference circuit.

11:45  William Hamlet
Biomedical Sciences
Uncovering GPCR modulation: Mechanistic and functional implications.

12:00  Gayan Mirihana Arachchilage
Chemistry & Biochemistry
A non-canonical RNA structure regulates microRNA biogenesis.
Health & Wellness Across the Lifespan

Room 310B

JUDGE(S): Dr. Vinay Cheruvu, Dr. John Updegraff

11:00 Samantha Jones
Lifespan Development & Educational Sciences
More than just parents: The importance of siblings as supportive others during the transition to college.

11:15 Susanne Mitchell
Public Health
Adolescent mental health & related issues in prevention science.

11:30 Shawn Starcher
Journalism & Mass Communication
Depression: Keeping it in the family.

11:45 Meghan Novisky
Sociology
End of life care planning among older, incarcerated men: What matters?

12:00 Nancy Woolverton
Lifespan Development & Educational Sciences
Heart to heart – life after a cardiac event: A couples approach to health and well-being.

12:15 Alexandra Chong
Psychological Sciences
The conditional effects of home-work conflict on mental health benefits of breastfeeding.
Art, Literature, & Philosophy
Room 313
JUDGE(S): Dr. Ji Young Cho, Dr. Bill Sallak, Dr. E. Sue Wamsley

11:00 Adam Shatsky
Philosophy
The time traveler's alternative possibility.

11:15 Amanda Stovicek
English
Zombie representation and posthuman consciousness.

11:30 Lorianna Clarke-Alexander
Art
The Netherlands in the Fifteenth Century: Books of hours produced in Haarlem and Ghent-Bruges.

11:45 Stephanie Kowalczyk
Art
The influence of Las Meninas in the work of Sargent, Eakins and Whistler.

12:00 Paul Floriano
Theater & Dance
Bullying in theatrical literature.

12:15 Joshua Murray
English
Amiable with manuscripts: In the archives with Claude McKay.
Computer Science, Math, & Engineering
Room 314
JUDGE(S): Dr. Jonathan Maletic, Ms. Tuyet Pham

11:00  Corey Lyons
Mathematics
*Induced characters with equal degree constituents.*

11:15  Kavia Aruchamy
Applied Engineering, Sustainability and Technology
*Analysis of geodome vertical axis wind turbine.*

11:30  Michael Decker
Computer Sciences
*Heuristic syntactic differencing for source code change comprehension.*

11:45  Naser Madi
Computer Sciences
*Above the clouds: An overview of cloud computing.*

12:00  Christian Newman
Computer Sciences
*Normalizing refactorings: A means to simplify the construction of source code transformations.*

Beyond the Microscope
Room 315
JUDGE(S): Dr. Gail Fraizer, Mr. Prithviraj Nandigrami

11:00  Sahil Sandesh Gandhi and Chanjoong Kim
Liquid Crystal Institute
*Stimuli-responsive gelatin nanoparticles.*
11:15  Brian Hunt  
Physics  
*Understanding nucleon resonances through the use of photons.*

11:30  Shokir Pardaev  
Physics  
*Angle-resolved second harmonic light scattering from defect structures in nematic and twist-bend phases of liquid crystals.*

11:45  Chamila Gunathilake  
Chemistry & Biochemistry  
*Mesoporous Organosilica with Amidoxime Groups for CO₂ Sorption.*

12:00  Karla Gutierrez-Cuevas  
Chemistry & Biochemistry  
*Novel light-modulated gold nanorods in liquid crystal host.*

12:15  Jowita Ludwinowicz  
Chemistry & Biochemistry  
*Potassium salt-assisted synthesis of highly porous carbon spheres for CO₂ adsorption.*

**Animal Studies & Animal Models**

*Room 316*

JUDGE(S): Dr. P. Bagavandoss, Dr. Min-Ho Kim

11:00  Morgan Chaney  
Anthropology  
*Learning to live, or living to learn? The life history and foraging behavior of white-faced capuchin monkeys.*
11:15  Jennifer Sensor  
Biomedical Sciences  
*Whale evolution and management: Contributions from the inner ear.*

11:30  Angela Freeman  
Biological Sciences  
*I'm a runner, not a fighter: vasopressin influences predator vigilance and social aggression in Richardson's ground squirrels.*

11:45  Gina Wilson  
Biomedical Sciences  
*Characterization of cytokine levels in the DBA/2J mouse model of glaucoma.*

12:00  Wade Jones  
Geology  
*The first paleozoic record of true crabs.*

12:15  Jennifer Remus  
Biological Sciences  
*Neuroimmune mechanisms in an animal model of recurrent depression.*

**Health Attitudes & Experiences**

*Room 317*

JUDGE(S): Dr. Rebecca Cline, Dr. Christine Hudak, Dr. Ann Jacobson

11:00  Marissa Fye and Stacey Diane A. Litam  
Lifespan Development & Educational Sciences  
*Multicultural therapeutic play: Promoting creativity within diverse groups.*
11:15 Robin S. Eastman  
Lifespan Development & Educational Sciences  
*Experiences of participation in the running rEVOLUTION.*

11:30 Amal Albeshri  
Health Sciences  
*Dietary intake and food craving during normal menstrual cycling.*

11:45 Aimee Smith  
Psychological Sciences  
*Improving acceptance of hydroxyurea in sickle cell disease using an ethnically sensitive revision in consent procedure.*

12:00 Chutarat Akkarawongvisit  
Nursing  
*Mindfulness meditation: A challenging alternative intervention to reduce depression in HIV/AIDS patients.*

**Water & Ecology**  
*Room 318*  
JUDGE(S): Dr. Jeremy Green, Dr. Tom Schmidlin  

11:00 Krista Brown  
Geology  
*After the dam comes down: Groundwater-stream interactions and water quality effects of restored and unrestored reaches in Northeastern Ohio.*

11:15 Sebastian Dirringer  
Geology  
*Landslide inventory and susceptibility mapping of the Driftcreek Watershed, Lincoln County, Oregon, using LiDAR data.*
11:30  Eric Traub  
Geology  
*Effects on the mobility of trace metals in an area affected by acid mine drainage.*

11:45  Ryan Schoeneman  
Biological Sciences  
*Hacking the sciences: Open source hardware in the lab and field.*

12:00  Joshua Moore  
Anthropology  
*Tropical lianas: Correlations with habitat type and primate use at Brownsberg Nature Park, Suriname.*

12:15  Andrew Skrinyer  
Anthropology  
*Ecology of edges: Effects of disturbance on primate distribution on the Osa Peninsula.*

**Mechanisms of Disease**  
*Room 319*  
JUDGE(S): Dr. Ratchneewan Ross  
11:00  Sony Pandey  
Biological Sciences  
*WT1 regulation of Cyclin A1 in leukemia.*

11:15  Monica Burgett  
Biomedical Sciences  
*Cancer stem cell contact with endothelial cells mediated through L1CAM and Integrin αvβ3 promotes endothelial cell migration.*
11:30 Reeba Paul
Biomedical Sciences
Identification of geographical trends of substitution patterns in CTL epitopes of HIV-1: Influence of socioeconomic status of the host population.

11:45 Madara Hetti Arachchilage
Biological Sciences
Identification of protein-protein interaction sites between HIV-1 reverse transcriptase and integrase using coevolutionary analysis.

12:00 Prakash Kharel
Chemistry & Biochemistry
Evidence of extensive RNA oxidation in multiple sclerosis brain.

12:15 Rituparna Ganguly, William M. Chilian, and Priya Raman
Biomedical Sciences
Atheroprotective mechanism of Chromium picolinate in Streptozotocin-induced diabetic ApoE−/− mice.
Keynote Speaker:  Dr. Beverley Warren

Dr. Beverley Warren became Kent State University's 12th president on July 1, 2014. As the university’s chief executive officer, Dr. Warren oversees one of the nation's largest university systems. Kent State's eight campuses provide more than 300 academic programs to more than 41,000 undergraduate and graduate students from throughout Ohio and the nation, and from over 100 countries. One of the largest employers in Northeast Ohio, the university employs more than 5,700 full- and part-time faculty and staff.

Prior to coming to Kent State, Dr. Warren had served as provost and senior vice president at Virginia Commonwealth University (VCU) since 2011. She arrived at VCU in 2000 as a professor and head of the School of Education’s Division of Health, Physical Education and Recreation, and went on to serve as dean of the School of Education. Before joining VCU, Dr. Warren held faculty positions at Smith College in Massachusetts; Auburn University in Alabama; Appalachian State University in North Carolina; and Lander University in South Carolina.

Dr. Warren is an internationally respected and widely published scholar in the fields of education and exercise physiology. Her most recent research focused on urban education, including access and success for urban youth, the preparation of teachers for urban environments and coordination of education through P-20 initiatives. She is a Fellow of the American College of Sports Medicine and the Research Consortium of the American
Graduate Student Senate

Alliance for Health, Physical Education, Recreation and Dance. She was elected to the Board of Trustees of the American College of Sports Medicine in 2004 and is a former president of its Southeast Chapter.

A North Carolina native, Dr. Warren earned a Bachelor of Science degree from the University of North Carolina at Greensboro and a Master of Science degree from Southern Illinois University. She holds two doctorates, an Ed.D. in administration of higher education from the University of Alabama and a Ph.D. in exercise physiology from Auburn University.
The Graduate Student Senate (GSS) represents the concerns of the graduate student community at Kent State University. By serving as an allocation body, GSS is responsible for assisting with graduate student travel and research funding. Additionally, GSS organizes and provides financial support for social activities for graduate students. Each spring GSS sponsors the Graduate Research Symposium, an event that displays, recognizes, and celebrates research and scholarship across all academic disciplines. 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 GSS.

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

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