Graduate school is forged with emotions and wrought by experiences. Today, I hope those emotions will be ones of celebration and the experiences, ones of camaraderie and self-betterment. We’ve been working all year to make this day one such day. Regardless of your role—presenter, judge, or spectator—we’re happy you’re here.

This year’s theme, *A World of Research*, was inspired by the holiday with which our event coincides this year: Earth Day. To show our commitment to the ideals of this day, we have taken steps to reduce the ecological impact of our event as we planned this event. In addition, we will be planting an American elm tree on Front Campus to celebrate our event. We can only hope that this tree will experience the same exuberant growth as the event that it commemorates.

Only six years ago, this event hosted only 40 presenters, and this year are very proud to report more than 320 presenters! This sort of success would have been impossible, first and foremost, without the efforts of many graduate-student senators and volunteers. Also, the GSS executive board has invested countless person-hours into making this day a success, and a number of committees, including an actual task force, were assembled from the GSS to aid in the planning for this event. Nearly 100 faculty members have volunteered to judge today’s event, and I cannot adequately express my gratitude for their taking the time to help adjudicate our record number of presentations. Finally, I am thrilled and very thankful that this year’s keynote speaker is Dr. Paul DiCorleto, who is himself a champion of research, and we should all be excited to learn from the experiences and wisdom he will share with us this afternoon.

I hope that you learn about something new today.

Sincerely,

Morgan E. Chaney, M.A.
GSS Symposium Chair, 2015-2016
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1:00pm – 2:30pm: **Awards Luncheon (Ballroom)** ........................................................................ 35

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ORAL PRESENTATIONS I

Anthropogenic Disturbance & Disasters
Room 306B
JUDGE(S): Dr. Dave Kaplan; Dr. Marilyn A. Norconk, PhD
9:00  Drew Fernando, Modern & Classical Language Studies
The 2011 Fukushima, Japan nuclear disaster: Four years later
9:15  Mohammed RummanHossain, Miao Jiang, QiHuo Wei, Laura Leff, Biological Science
Adhesion of bacteria to microplastics in freshwater
9:30  Raissa Mendonca, David Costello, G. Allen Burton, Biological Science
Coupling geochemistry and community ecology: Effects of nickel-contaminated sediments on benthic macroinvertebrate communities
9:45  Laura Zemanek, David Singer, Elizabeth Herndon, Geology
A geochemical and mineralogical comparison of soil formation on mine tailings and undisturbed shale and their contributions to stream chemistry, Huff Run Watershed, Ohio

Applied Clinical Research
Room 306C
JUDGE(S): Dr. Laurie M. Wagner, MCHES; Dr. Vincent J. Hetherington, DPM
9:00  Curtis Fennell, Mallory Kobak, Ellen Glickman, Jacob Barkley, Health Science
Validation of a low-cost commercially-available accelerometer during low and high physical activity conditions in children.
9:15  Zahra Ghasemahmad, Saeid Farahani, Biomedical Science
Enhanced auditory steady state responses in subjective idiopathic tinnitus
9:30  Taissir Nouri, Biological Science, Non-self MHC* conversion into self MHC* utilizing a gene editing technique

Applied Physical Science
Room 304
JUDGE(S): Evren Koptur, PhD; Dr. Yanhai Du
9:00  Abdullah Alalawi, Applied Engineering, Sustainability, & Technology
Electron beam technology
9:15  Sunil Badal, Jacob T. Shelley, Chemistry & Biochemistry
Changes in plasma and ionization chemistry of a flowing atmospheric-pressure afterglow (FAPA) ambient desorption/ionization (ADI) source
9:30  Aliaa Maar, Applied Engineering, Sustainability, & Technology
Development of advanced ceramic fuel cells using additive manufacturing technology: Design and modeling

9:45  Imtiyaz Siddiqui, Mohammed Abdul Azeez, Applied Engineering, Sustainability, & Technology
A transformer less grid connected photo voltaic system based on coupled inductor

10:00 Theo Woodson, Applied Engineering, Sustainability, & Technology
Development of tubular-solid oxide fuel cell anode substrates by freeze casting and freeze drying processes

10:15 Tinghe Xu, Karthik Rayala, Sreenivasa Reddy Ambati, Applied Engineering, Sustainability, & Technology
Hybrid solar-fuel cell power systems

Nucleic Acids Research
Room 308
JUDGE(S): Dr. Bansidhar Datta
9:00  Chiran Ghimire, Yunxi Cui, Hanbin Mao, Chemistry & Biochemistry
Determination of ligand-binding quartets in telomeric G-quadruplex by mechanochemical dissection

9:15  Prakash Kharel, Soumitra Basu, Chemistry & Biochemistry
Investigation of RNA oxidative damage in human neuronal cells

9:30  Parastoo Maleki, Hamza Balci, Physics
Single molecule dynamics of G-quadruplex and telomestatin interactions

9:45  Gayan Mirihana Arachchilage, Joshua Reid, Soumitra Basu, Chemistry & Biochemistry
Locked nucleic acid (LNA) mediated targeting of microRNAs to inhibit human lung cancer cell proliferation

10:00 Sangeetha Selvam, Chemistry & Biochemistry
Molecular population dynamics of tetraplexes in duplex DNA

10:15 Sumirtha Thanikaikumaran, Chemistry & Biochemistry
G-quadruplex (GQ) driven functional modulation in the human piwi interacting RNAs (piRNAs)

Art & Music
Room 309
JUDGE(S): Dr. Linda Hoeptner Poling, PhD; Eric van Baars
9:00  Sarah Bartram, Art
The fragment as a manifestation of non-finito in Rodin’s oeuvre: The amputated form, the isolated body part, and assemblages

9:15  Shawn Diamond, Art
Requiem for the shadows: Future memory in the light strings of Felix Gonzalez-Torres

9:30  Kevin Alexander Wilson, Music
Weepers: A duo for flute and clarinet
9:45 Xiaorong Yuan, Music
Authenticity in Chinese minority rock and roll: A case study of Shanren, an ethnic minority indie band from Yunnan, China

10:00 Shasha Zhu, Art
Wooden fish from a religious sacrificial vessel to a percussion instrument verify the transnational functional change

**Biological Science I**

Room 322
JUDGE(S): Dr. Tariq M. Haqqi, PhD; Prof. Songping D. Huang

9:00 Fouad Moussa, Gregory Sondag, Thomas Mbimba, Kimberly Novak, Biomedical Science
A novel role of miR-150 in bone homeostasis

9:15 Sewwandi Rathnayake, Edgar Kooijman, Biological Science
Lipid interactions of proteins carrying amphipathic alpha helix bundles

9:30 Aidan Ruth, Tobin Heironymus, Owen Lovejoy, Biomedical Science
Differences in anterior cruciate ligament fiber orientation between digitigrade and palmigrade animals

9:45 Priya Putta, Biological Science
Differential binding of protein to phosphatidic acid

**Biological Science II**

Room 302
JUDGE(S): Dr. Heather Caldwell; Jeffrey G. Mellott, PhD

9:00 Holly Cappelli, Roslin J. Thoppil, Ravi Adapala, Biomedical Science
Mechanosensitive ion channel TRPV4 negatively regulates angiogenesis via modulation of Rho/Rho kinase pathway

9:15 Rebecca Curry, Yong Lu, Biomedical Science
Much ado about chloride: How a dynamic intracellular chloride concentration influences a sound localization circuit

9:30 Ashley Nemes, Katayoun Ayasoufi, Zhong Ying, Imad Najm, Biomedical Science
The role of growth associated protein 43 (GAP-43) in epileptogenesis

9:45 Gina Wilson, Matthew A. Smith, Christine M. Dengler-Crish, Samuel D. Crish, Biomedical Science
Seeing past the eye: How cytoskeletal protein modifications in the brain may drive development and progression of glaucoma
Clinical Science
Room 314
JUDGE(S): Dr. Vinay K. Cheruvu, PhD; Dr. Sheryl Chatfield
9:00 Lauren Birmingham, Thaddeus A. Cochran, Jennifer A. Frey, Kirk A. Stiffler, Scott T. Wilber, Public Health
Barriers and service for frequent emergency department users
9:15 Alexa Copeland, Adil Sharag-Eldin, Architecture & Environmental Design,
The impact of patient room design on airborne hospital-acquired infections (HAI)
9:30 Leen Nahouli, Health Science
Audiology without borders: Hearing beyond ears
9:45 Carissa Smock, Public Health
Physician utilization, training and acceptance of exercise prescriptions
10:00 Anush Yarava, Public Health
Implementation of clinical pharmacists activities in identifying drug therapy problems and improving medication adherence to provide better patient care

Cognition & Memory
Room 315
JUDGE(S): Dr. Clarissa Thompson; Dr. Judith Gere
9:00 Michael Baranski, Christopher Was, Psychological Sciences
Brief mindfulness training leads to improved executive function
9:15 Dale Hirsch, Lifespan Development & Educational Science
Declarative and procedural mechanisms in long-term memory
9:30 Amber Rochette, Mary Beth Spitznagel, John Gunstad, Gladys Strain, Psychological Sciences
Mild cognitive impairment is prevalent in persons with severe obesity
9:45 Rachael Todaro, Bradley Morris, Christopher Was, Colleen Dragovich, Lifespan Development & Educational Science
Investigating the role of context in interleaved problems
10:00 Mengjiao Wu, Christopher Was, Kristen Chorba, Lifespan Development & Educational Science, The relationships between executive functions and metacognition

Computer Science
Room 320
JUDGE(S): Prof. Jonathan I. Maletic, PhD; Dr. Hai Q. Dinh
9:00 Naser Al Madi, Mohammed Alali, Ismael Ali, Basma Alqadi, Tahani Albalawi, Computer Science
Online hypergraph visualization tool using d3.js
9:15 Rusul Alsaedi, Gokarna P. Sharma, Computer Science
Mutual visibility for fat robots
9:30 Mehdi Ghayoumi, Arvind K. Bansal, Computer Science
An integrated approach for efficient analysis of facial expressions

9:45 Nahla Abid, Natalia Dragan, Michael L. Collard, Jonathan I. Maletic, Computer Science
Using stereotypes in the automatic generation of natural language documentations for C++ method

Earth Science
Room 321
JUDGE(S): Dr. Tom Schmidlin

9:00 Chenjian Fu, Christopher Rowan, Xinyue Ye, Geology
Building better apparent polar wander paths: Measuring similarity between calculated paleomagnetic APWPs and the fixed hotspot model predicted APWP

9:15 Md Islam, Scott Sheridan, Geography
Self-organizing map: The monsoon seasonality in Bangladesh

9:30 Johnathan Kirk, Geography
Defining and characterizing large precipitation events in the Upper Colorado River Basin

9:45 Erik Smith, Geography
The seasonality of cold air outbreaks in the Eastern United States and the influence of atmospheric teleconnections

Fashion
Room 316
JUDGE(S): Cynthia R. Stillings; Dr. Catherine A. Leslie

9:00 Sophia Adodo, Fashion
Royal Mbebana

9:15 Sophia Adodo, Fashion
The fashion runway through a critical race theory lens

9:30 Lauren Brallier, Fashion
A point of tension: Using personas to improve the apparel design process - A BMX analysis

9:45 Gordon Stumpo, Margarita Benitez, Fashion
3D parametric modeling and digital fabrication: Creation of custom display and designer dress/body forms

10:00 Caroline Surrarrer, Fashion
Behind the labels: Libby Payne, fashion designer for “Mrs. Main Street America”

Foundations, Leadership, & Administration
Room 317
JUDGE(S): Dr. Swathi Ravichandran, PhD; Dr. Greg E. Blundell, PhD

9:00 Suliman Al Musaiteer, Foundations, Leadership, & Administration
Saudi students’ experience of intercultural communication
9:15 Erika Gallion, Tabetha Maly, Erika Gallion, Foundations, Leadership, & Administration
American student affairs practices abroad: A summer spent in Bulgaria and Kuwait

9:30 Mayagul Satlykgulyjova, Foundations, Leadership, & Administration
Toward identity construction of central Asian women students in American higher education

9:45 Carol Winter, Foundations, Leadership, & Administration
Women superintendents, the feminist ethic, and organizational leadership

10:00 Tianhong Zhang, Foundations, Leadership, & Administration,
Transfer: A threshold concept in intercultural competence
development in case of intercultural interactions between international and America students

Gender & Feminism
Room 318
JUDGE(S): Caylee M. Heiremans, MLIS
9:00 Delilah Ellzey, Kallie Petitti, Angela Neal-Barnett, Psychological Sciences
Don't nobody care about us girls

9:15 Leigh Hughes, Visual Communication Design
Video games help to prepare girls for a competitive future: Investigating how interactive games develop visual-spatial skills and the influence early childhood gaming has on female development

9:30 Jaietta Jackson, Foundations, Leadership, & Administration
Dear Mama: The parental influence of a single mother on black male college success

9:45 Bethanie Mauerman, Lifespan Development & Educational Science
Living outside the lines: Possible challenges of living within the binary system

History & Archaeology
Room 319
JUDGE(S): Dean Jim Bracken, PhD; Dr. Yuko Kurahashi
9:00 Michelle Bebber, Anthropology
Experimental ceramics and determining the force of change: A material science approach to understanding temper selection in the prehistoric ceramic sequence of the Scioto River Valley, Ross County, Ohio

9:15 Philip Shackelford, History

9:30 Pietro Shakarian, History
Journey to Ararat
9:45  Wesley Toth, History
      The 79th Pennsylvania Volunteer Infantry: Civil War experiences culminating in the March to the Sea

10:00  Stephanie Vincent, History
      The effects of welfare capitalism on American pottery workers

10:15  Brittney Harrell, Theater & Dance
      The trouble with masking: Cultural ramifications from the practice of masking during the seventeenth-century Venetian carnival season

Urban Issues & Design
Room 313
JUDGE(S): Dr. V. Kelly Turner; F. William Lukac

9:00  Hanieh Haji Molana, Architecture & Environmental Design,
      Evaluating sense of community in the public spaces of residential neighborhoods in Tehran, Iran

9:15  John Orsini, Architecture & Environmental Design,
      The wall as moment and place: Case studies on the wall’s significance

9:30  Benjamin Schanfish, Adil Sharag-Eldin, Architecture & Environmental Design
      Survival city: A resilience model for a shrinking Ohio city

9:45  Joe Tokosh, Geography,
      Shopping malls: Detriments of performance and elements of adaptation

10:00  Christopher Willer, Geography,
      From commercial strip to urban village: A historical geography of the elmwood village

10:15  Ryan Hammond, Visual Communication Design,
      Designer as cultivator: An exploration in critical making for the care of interdisciplinary culture

Poster Presentations

Poster Session 1
JUDGE(S): Dr. John Updegraff; Dr. Doug Delahanty

1  Naser Al Madi, Computer Science
   Predicting learning performance and cognitive activity using EEG

2  Jason Anderson, Rachel Galioto, John Gunstad, Mary Beth Spitznagel, Psychological Sciences
   Effects of sleep quality and glucoregulation on sustained attention, working memory, and inhibitory control in healthy young adults

3  Alanna Feltner, Clarissa Thompson, Psychological Sciences
   Playing to learn: Helping children learn fraction magnitudes through board games

4  Kevin Lancki, James Bates, Alan Taylor, Kelly Cichy, Sociology
   A blast from the past: Grandfather age and lineage work
5 Emily Munger, Atsushi Takemoto, Katsuki Nakamura, Anthropology
Learning and memory in aged common marmosets

6 Amanda Zamary, Katherine A. Rawson, Psychological Sciences
Example classification as a strategy for learning declarative concepts

Poster Session 2
JUDGE(S): Kelly A. Riley; Dr. Suzy D’Enbeau

7 Abdulelah Al-Tokhais, Ning-Kuang Chuang, Foundations, Leadership, & Administration
Impact of tourism development on perception of community life

8 Kate Klonowski, Foundations, Leadership, & Administration
A case study of collaborative journalism across diverse student communities

9 Anna Solberg, Geography
Tourists: Perceptions of their environmental impact within Tanzania

10 Qiong Tao, Kim Hahn, Fashion
The best niche market and the optimized design for dresses with modernized Chinese motif: A case study of Qinghua (Blue-and-White)

11 Qiong Tao, Kim Hahn, Fashion
Self-construals, types of social media usage and consumer decision-making styles: A study of young Asian Americans

Poster Session 3
JUDGE(S): Dr. Yanhai Du

12 Srijana Bhandari, Barry D. Dunietz, Chemistry & Biochemistry
Theoretical study of photo-physical processes for coumarins inside a shell of octa acid capsule: An LRC-TDDFT approach

13 Arosha Dassanayake, Nilantha Wickramaratne, Songping D. Huang, Mietek Jaroniec, Chemistry & Biochemistry
Efficient uranium extraction from oceans: Economical strategy to upkeep nuclear reactors in the future

14 Pramila Ghimire, Chamila Gunathilake, Chemistry & Biochemistry,
Amidoxime-based carbon-silica composite materials for carbon dioxide sorption

15 Chamila Gunathilake, Mietek Jaroniec, Chemistry & Biochemistry
Amidoxime-functionalized microcrystalline cellulose-mesoporous silica composites for carbon dioxide sorption at elevated temperatures

16 Catherine Laspina,
Chemistry & Biochemistry
Hyaluronic acid curcumin conjugate for rheumatoid arthritis treatment
Poster Session 4
JUDGE(S): Dr. Adil Sharag-Eldin; Rui Liu, PhD
17 John Adkins, Ji Young Cho, Applied Engineering, Sustainability, & Technology
   Biophilia and behavior: The relationship between nature and productivity
18 Kelsey Atchison, Ji Young Cho, Architecture & Environmental Design
   Studio culture’s effects on motivation
19 Leandra Buchin, Architecture & Environmental Design
   Creating an image: Impact of architecture firm branding on client identification
20 Zachary Forney, Architecture & Environmental Design
   The optimization of collaborative design through an egalitarian team structure
21 Marc Lins, Ji Young Cho, Architecture & Environmental Design
   The distorted image: How architectural marketing practices create misconceptions of building development
22 John Popple, Architecture & Environmental Design
   Building a brand: Expanding architecture across new forms of information

Poster Session 5
JUDGE(S): Dr. Elwin C. Robison
23 Saloomeh Gharehgozlou, Architecture & Environmental Design
   Using cool roofs to reduce urban heat island
24 Zachary Karto, Architecture & Environmental Design
   Supplemental green roof system; an algal Trombe wall addition
25 Tyler Lunevich, Architecture & Environmental Design
   Studio culture’s effects on motivation
26 Kyle Matheny, Architecture & Environmental Design
   Urban heat island: Mitigating negative impacts through urban forms and building surface materials
27 Taylor Pfeffenberger, Architecture & Environmental Design
   Reduction of carbon footprint in Cleveland’s industrial sector
28 Laura Sugano, Anne Jefferson, Lauren Kinsman-Costello, Pedro Avellaneda, Geology
   Evaluating bioretention cell and green roof performance in Parma, OH

Poster Session 6
JUDGE(S): David Durca
29 Matt Fisher, Architecture & Environmental Design
   Design for the re-building community: Community development in forgotten cities through construction/renovation
30 Adrian Helton, Adil Sharag-Eldin, Architecture & Environmental Design
Participatory architecture +
Re-urbanization: Discourse continued

31 Forrest Paige, Architecture & Environmental Design
A phenomenological study of the hyper-normative appropriation of urban space by parkour runners

32 Christopher Persons, Ji Young Cho, Architecture & Environmental Design
Digital access: The affect of connected society on architectural space and organization

33 Christopher Persons, Architecture & Environmental Design
User affect: The possibilities of responsive surfaces in architecture

34 Adam Prenjak, Architecture & Environmental Design
Subconscious qualities of color and sound of space

37 Joseph Lynch III, Jordan Adkins, Megan Butler, Aaron Jasnow, Psychological Sciences
Glutamate receptor antagonists block estradiol induced generalization

38 Jon Stavres, Hayden Gerhart, Ellen L. Glickman, YongSuk Seo, Health Science,
Predictors of mathematical performance in normoxia and normobaric hypoxia

Poster Session 7
JUDGE(S): Dr. Mary Beth Spitznagel PhD; Dr. Karin Coifman

35 Monica Garcia, Douglas L. Delahanty, Psychological Sciences
Hydrocortisone treatment study: The effects on hyperarousal symptomology in PTSD

36 Angela Junglen, Anna Wise, Monica Garcia, Douglas L. Delahanty, Psychological Sciences
Dopamine levels as a predictor of PTSD symptoms in individuals with an HIV diagnosis

39 Matthew Dyne, Geography
The (not so woody) woodlands?: The case of Harris County, Texas

40 Andrea Fitzgibbon, David Costello, Biological Science
Micron-scale spatial and diel variation in oxygen at the biofilm-sediment interface

41 Angelica Scianna, Alescia Roberto, Biological Science
Distribution of tetracycline resistance genes in an urban northeast Ohio stream

42 Andrew Skrinyer, Anthropology
Living on the edge: An assessment of habitat disturbance and primate distribution on the Osa Peninsula, Costa Rica
Poster Session 9
JUDGE(S): Dr. Linda Hoeptner Poling, PhD; Ching-I Chen

43 Sebiha Balci, Bradley J. Morris, Jonathan M. Secaur, Lifespan Development & Educational Science
Effects of different gamification tools on academic performance and motivation

44 Kyle Bauer, Lifespan Development & Educational Science
Coaching caregivers on Incidental teaching strategies to enhance the communication and spontaneous speech in young children with expressive language delays

45 Jenny Worthington, Lifespan Development & Educational Science
Using computer-assisted lessons to teach social skills to children with higher functioning autism spectrum disorder

46 Ethan Rothermel, Ji Young Cho, Architecture & Environmental Design
Let them compete: The effects of competition on design education

47 Kimberly Travers, Lifespan Development & Educational Science
Individual family service plan outcome assessment tool: Validation and community implementation

48 Colleen Tullis, Lifespan Development & Educational Science,
Increasing joint attention between young children with autism and their primary caregivers.

Poster Session 10
JUDGE(S): Dr. Tara C. Smith; Dr. Laurie M. Wagner, MCHES

49 Weichuan Dong, Geography
Analyzing Twitter data as a proxy to examine relationship between socioeconomic status and vaccination choice

50 Jhalka Kadariya, Dipendra Thapaliya, Sabana Bhatta, Tara Smith, Public Health
Prevalence and molecular epidemiology of Staphylococcus aureus among Bhutanese refugees in Nepal and in northeast Ohio

51 Rachael Nolan, Sheryl L. Chatfield, Public Health
A qualitative meta-study of hand hygiene practices among healthcare workers worldwide: Research synthesis and practical implications

52 Lorriane Odhiambo, Public Health
Prevalence of asthma, chronic obstructive pulmonary disease (COPD) and smoking in an urban African American church population.

53 Karuna Ramcharran, Public Health
Emergency preparedness plan for infectious disease outbreaks in Portage County
Poster Session 11
JUDGE(S): Dr. John Gunstad; Jeffrey G. Mellott, PhD

54 Angela Freeman, James F. Hare, W. Gary Anderson, Heather K. Caldwell, Biological Science
Sex-dependent effects of central vasopressin administration on Richardson’s ground squirrel social behavior

55 Leah Kershner, Kristy Welshhans, Biological Science
RACK1 is necessary for the formation of point contacts and regulates axon growth

56 John Shelestak, Biomedical Science
Assessing toxic demyelination induced via Cuprizone treatment

57 Alyx Weaver, Ernest Freeman, Biological Science
Melatonin as a drug for the preservation of lipid metabolism and myelination in Multiple Sclerosis

58 Shannah Witchey, Heather K. Caldwell, Biological Science
Maternal behavior in virgin forebrain oxytocin receptor knockout mice

Poster Session 12
JUDGE(S): Dr. Julia J. Huyck, PhD; Dr. Wendy Umberger, PhD

59 Spencer Andrei, Pritam Sinharoy, Ian N. Bratz, Derek S Damron, Biomedical Science,
Functional expression of TRPA1 and TRPV1 in adult ventricular cardiomyocytes

60 Sara Harper, Morgan Cooper Bagley, Lisa Chinn, John McDaniel, Health Science
Comparison of peak torque and aerobic capacity imbalances in the lower limbs

61 Tracey Motter, Karen Mascolo, Nursing
Improving RN competencies with a nurse internship (NI)

62 Laurie Robinson, Nursing
Is Foley catheter induction as effective and safe as Misoprostol for cervical ripening: A look at evidence-based practice

63 Cody A. Ruiz, Morgan E. Chaney, Anthony J. Tosi, Anthropology
Medical-grade buccal swabs vs. drugstore cotton swabs: No difference in DNA yield

64* Erica Stahl, Nursing
Transitioning to a validated behavioral pain scale for critically ill adult patients

Poster Session 13
JUDGE(S): Dr. Kathy Siesel, DPM

65 Nicholas DiMassa, Podiatric Medicine
The dumb tendon: Replacement of tendon with granulation tissue during wound healing can result in maintenance of tendon function

1This poster is nominated for the President’s Award (p. 25) and should not be judged by the judges in session 12.
Mina Ghassemi, Eugene Cheng, Scott Bastian, Steven Stuto, Podiatric Medicine
Average foot temperatures in the healthy, diabetic and neuropathic foot

Terryn Marette, Podiatric Medicine
Case study report: Chronic venous ulcer subsequently diagnosed with acroangiodermatitis

Ian Newport, Jeffrey Whitaker, Podiatric Medicine
Treatment of chronic Achilles tendinopathy with a modified flexor hallucis longus tendon transfer/augmentation

Stephanie Petrofski, Kati Waters, Carl Kurzel, Bryan Caldwell, Podiatric Medicine
Multiplex PCR with pyrosequencing in the diagnosis of onychomycosis

Emily Zulauf, Podiatric Medicine
Does implantation of verruca plantaris into abductor hallucis muscle belly prevent recurrence?

Rachel Kirkwood, Adil Sharag-Eldin, Architecture & Environmental Design
The effects of cool paving on pedestrian comfort levels

Brandi Miller, Architecture & Environmental Design
Resilient small towns: Marietta

Regan O’Neill, Architecture & Environmental Design
Tiny housing: Viable solution or 21st century fad?

Walter Vanscoter, Architecture & Environmental Design
Primary motivation for walking path selection on Kent State University, Main Campus

Nicholas Young, Architecture & Environmental Design
Building material shapes a city

Poster Session 14
JUDGE(S): Peter V. Marks; Dr. Maggie Stedman-Smith, PhD

Michael Carnessali, Architecture & Environmental Design
Health habits and risk factors in current studio culture

Pamela Haberman, Architecture & Environmental Design
Health Concerns: The impact of sustainable design inside hospitals

Poster Session 15
JUDGE(S): Dr. Joel W. Hughes, PhD; Dr. Jennifer Taber

Shaima Almahmoud, Shaima Almahmoud, Karin Coifman, Psychological Sciences
Self-enhancement and emotional experience among patients with chronic illnesses

Marissa Gastelle, Aimee Hammer, Josefina Grau, Psychological Sciences
Latina adolescent mothers’ parenting attitude: Relations to parenting stress

* This poster is nominated for the President’s Award (p. 25) and should not be judged by the judges in session 15.
Lauren Wood, Aimee Hammer, Marissa Gastelle, Josefina Grau, Psychological Sciences
Latina adolescent mothers and toddlers’ compliance: Maternal affect moderates control

Lauren Wood, Aimee Hammer, Josefina Grau, Psychological Sciences
Reported parenting stress predicts observed guidance and control behaviors for Latina adolescent mothers

Poster Session 16
JUDGE(S): Dr. Sloane R. Burgess; Dr. Belinda S. Zimmerman

Danielle Dillon, Public Health
Youth leadership summit: Empowering adolescents through service

Erin Goodridge, Lifespan Development & Educational Science
Coaching parents on intervention strategies to increase communication during play

Logan Kochendorfer, Kathryn Kerns, Psychological Sciences
Romantic relationships in adolescence: Understanding the influence of parents and friends

Randi McDaniel, Lifespan Development & Educational Science
The effects of parent-implemented prelinguistic language strategies on young children with communication delays

Linda Wiley, Lifespan Development & Educational Science
Using multimedia podcasts to support parent-implemented language intervention

Amanda Yoho, Lifespan Development & Educational Science
Enhancing communication during play-based interactions between the parent and child in the natural environment

Poster Session 17
JUDGE(S): Caylee M. Heiremans, MLIS; Emmanuel Dechenaux

Jennifer Cooks, Mansi H. Mehta, Kate J. Zelic, Jeffrey A. Ciesla, Psychological Sciences
Examining perfectionism and changes in affect and rumination

Alynn Gordon, Kristin Mickelson, Psychological Sciences
A preliminary test for egalitarian essentialism in the general population of the United States

Mansi Mehta, Kate J. Zelic, Jennifer A. Cooks, Jeffrey A. Ciesla, Psychological Sciences
Daily fluctuations in women’s mood

Neslihan Unluol Unal, Suleyman Akcil, Lifespan Development & Educational Science
Factors influencing treatment acceptability: A review of the literature

* This poster is nominated for the President’s Award (p. 25) and should not be judged by the judges in session 17.
Phil Willke, Library & Information Science
Authentic leadership and psychological capital

Kate Zelic, Mansi Mehta, Jennifer Cooks, Jeffrey Ciesla, Psychological Sciences
A multidimensional view of relational victimization

Poster Session 18
JUDGE(S): Dr. Soumitra Basu, PhD; Dr. Sanjaya C. Abeyesirigunawardena

Nathan Beals, Prakash Kharel, Werner Geldenhuys, Soumitra Basu, Chemistry & Biochemistry
New outlook on Parkinson’s treatment: A dual targeting nanoparticle complex for more efficient delivery of Curcumin improves neuroprotection

Anthony Giovengo, Chemistry & Biochemistry
Probing vitamin B12 processing and storage with advanced Cobalamin conjugates

Sranjana Goswami, Rahul Bhattacharjee, Srinivasan Vijayaraghavan, Biological Science
Identification of substrates of sperm protein kinase A using a chemical-genetics approach

Mohammad Rahman, Yang Zhou, Nicola E. Brasch, Paul Sampson, Chemistry & Biochemistry
Synthesis and photochemical studies of new photoremovable nitroxyl (HNO) releasing compounds

William Roy, Mohamed Farhath, Soumitra Basu, Hamza Balci, Physics
A single molecule study of G-quadruplex and short duplex DNA structures

Prakash Shrestha, Hanbin Mao, Chemistry & Biochemistry
Single-molecular mechanoanalysis reveals hierarchical formation of G-quadruplexes during transcription

Sumirtha Balaratnam, Joel Caproso, Stephanie M. Bilinovich, Thomas Leeper, Soumitra Basu, Chemistry & Biochemistry
SHARP protein causes the remodeling of SRA1 IncRNA structure

Sriramakrishna Yarabarla, Chemistry & Biochemistry
Copper based nanoparticles exhibit higher cytotoxicity toward cancer cells
Poster Session 19
JUDGE(S): Brian Peters
102 Lauren Dargay, Journalism & Mass Communication. 
Relationships between elite news frames and frames in user comments: An analysis of terrorism coverage and follow-up comments on the New York Times online.

103 Caleb Heller, Kelsey Atchison, Saloomeh Gharaghizlo, Hanieh Haji Molana, Architecture & Environmental Design. 
An autopsy of an environmental tragedy: 1995 Chicago heat wave.

104 Danielle Jones, Adil Sharag-Eldin, Architecture & Environmental Design. 
9/11: A 9-1-1 call the nation wasn’t prepared for.

105 Haley Wachholz, Geography. 
One disaster leads to another: A look at the outcome of a dual disaster in Seattle, WA.

106 Zheyi Wang, Xinyue Ye, Geography. 
Multi-dimensional analysis of Twitter for wildfire hazards in San Diego County, California.

107 Huanyang Zhao, Geography. 
Simulating natural disasters: An integration of Netlogo and R statistical environment.

Poster Session 20
JUDGE(S): Dr. David E. Sharp
108 Hayden Gerhart, Yongsuk Seo, Jon Stavres, Ellen Glickman, Health Science. 
Gender differences in running memory and mood state during submaximal exercise in normobaric hypoxia.

109 Maeson S. Latsko, Aaron M. Jasnow, Psychological Sciences. 
Does elevated corticosterone predict adult resistance to prepubertal social defeat?

110 Scout McCully, Psychological Sciences. 
Task-switching predicts spontaneous means-shifting in young adults’ physical activity.

111 Maria Nylocks, Lee T. Gilman, Maeson Latsko, Karin G. Coifman, Psychological Sciences. 
Influence of the COMT Val158Met polymorphism in set-shifting ability and emotion processing during Cyberball.

112 Anna Wise, Brian Smith, Aaron Armelie, Douglas L. Delahanty, Psychological Sciences. 
Age moderates social support and mental health in LGB youth.

113 Kathryn Wissman, Katherine Rawson, Psychological Sciences. 
The context shift account: Not an explanation for the fragility of interim test effect with text material.
Poster Session 21
JUDGE(S): Suzy Campbell; Joe Clark
114 Yu Lei, Theater & Dance
Lighting design process for side show
115 Kevin Leistner, Theater & Dance
Designing nouvelles rencontres
116* Andy Martinez, Anthropology
"Take down my old violin, play it all
you please": The dispersal of an
Appalachian murder ballad
117 Kevin Alexander Wilson, Music
The Eastern and Western schism: The
dominating musical modes and forms
of Eastern chant.

Poster Session 22
JUDGE(S): Dr. Hai Q. Dinh;
Dr. Vic Perera, PhD
118 Mark Bissler, Mathematics
Character degree graphs of solvable
groups
119 Isaac DeFrain, Mathematics
Chebyshev polynomials on compact
sets in the complex plane
120 Ian Hogan, Mathematics
The Brauer Complex and
decomposition numbers of Sp(4,q) in
defining characteristic
121 Pablo Jimenez-Rodriguez,
Richard Aron, Mathematics
Interpolation of compact analytic
mappings by the techniques of M.
Cwikel and N. J. Kalton

122 Mykhailo Kuian, Lothar Reichel,
Sergij Shiyanovskii, Mathematics
Sensitivity analysis of measuring
systems with control parameters
123 Mona Matar, Mathematics
Determining the edges with high
traffic in a network using matrix
functions
124 Casey Wynn, Mathematics
Supercharacter theories of
semieextraspecial p-groups and
Frobenius groups

Poster Session 23
JUDGE(S): Dr. Alexa L. Sandmann;
Sonali S. Kudva
125 Andrew Fogle, Visual
Communication Design
Strategies for graphic design aimed at
the multiple sclerosis community: The
development of the inclusion
framework to assist in design thinking
and visual communication artifacts
126 Jordan A. Kauffman, Hamidreza
Sohrabi,
Visual Communication Design
Community curation: A participatory
curation experience for art museum
attenders that helps museum staff
learn what people want to see from
their non-displayed collection.
127 Zuzana Kubisova,
Visual Communication Design
How might cardboard toys be used to
deter children from accessing, using
digital technologies?

* This poster is nominated for the President's Award (p. 25)
and should not be judged by the judges in session 17
128 Cassandra Reese,
Visual Communication Design
Mindful design: An investigation into how mindfulness-based design facilitates mindful user experiences

129 Jennifer Rice, Cindy Kristof,
Library & Information Science
Selling the stream: Getting the word out on digital media

Poster Session 24
JUDGE(S): F. William Lucak; Dr. Brett Tippey

130 Brigid Callaghan,
Architecture & Environmental Design
Developing an alternative construction method for Arctic Canada: 3D printing concrete panels

131 Brigid Callaghan,
Architecture & Environmental Design
Testing and analyzing resistance properties of 3D printing materials using a hot box

132 Christian Ford, Bill Lucak,
Architecture & Environmental Design
Applications for user-responsive tracking surfaces using Arduino programming and communicating sensor systems

133 Christian Ford, Adil Sharag-Eldin,
Architecture & Environmental Design
Familial structure and consumer transiency of rural migrants in urban China

134 Tyler Middendorf,
Architecture & Environmental Design
Urban complexity and bodies of networks

135 Brandi Miller,
Architecture & Environmental Design
Arduino: Applied force with movement

Poster Session 25
JUDGE(S): Dr. Ji Young Cho

136 Abby Baker, Adil Sharah-Eldin,
Architecture & Environmental Design
The climatic effects of rapid urban expansion in Shanghai, China: A comparative analysis of the urban heat island condition as it pertains to structural density

137 Eleanor Hertzfeld,
Architecture & Environmental Design
Urban heat islands and the vegetative waterfront

138 Dana Libert, Adil Sharag-Eldin,
Architecture & Environmental Design
Light and safety in the urban environment

139 Benjamin Punturi,
Architecture & Environmental Design
Urban slum typology: A guideline for temporary urban shelters

140 James Skimin, Adil Sharag-Eldin,
Architecture & Environmental Design
Designing the small to be strong: The relationship between population density and urban resilience
Poster Session 26
JUDGE(S): Dr. Yaorong Zheng; Dr. Vincent J. Hetherington, DPM

141 Asaad Aladlan, Tariq M. Haqqi, Fayez Safadi, Biomedical Science
A novel role of osteoactivin/GPNMB in osteoarthritic articular cartilage

142 Nazar Hussein, Thomas Mbimba, Fayez Safadi, Biomedical Science
Role of TRAPPC9 in protein trafficking in osteoclasts

143 Fatima Jaber, Gregory R. Sondag, Mohammad Y. Ansari, Fayez F. Safadi, Biomedical Science
Osteoactivin/LC3 interaction regulates autophagy in osteoblasts

144 Nicole Siegel, Christopher Vinyard, Matthew Ravosa, Biomedical Science
Functional scaling trends in the trabecular architecture of the mandibular condyle of Strepsirrhine primates.

Poster Session 27
JUDGE(S): Dr. Varun Kumar; Dr. Fayed F. Safadi, PhD

145 Binaya Adhikari, Andrea Case, Christina Caruso, Biological Science
Discordant patterns of cytoplasmic genetic variation in a native flowering plant (Lobelia siphilitica, Campanulaceae)

146 Leighannah Akins, Laura Leff, Biological Science
Bacteria from Lake Erie induce aggregation of toxic and non-toxic Microcystis aeruginosa

147 Dulci Avouris, Joseph Ortiz, Kyle Carey, Geology
Keeping an eye on Lake Erie: Identifying color-producing agents using derivative spectroscopy

148 Amber Hill, Geography
Using conventional and social media to evaluate expert and public perceptions of risk during the toxic algae outbreak in Lake Erie

149 Anjali Krishnan, Xiaozhen Mou, Biological Science
Isolation and characterization of microcystin degrading bacteria from Lake Erie

150 Matt Mackey, Mark W. Kershner, Biological Science
Analysis of diversity and structure of a Lake Erie coastal fish community

Poster Session 28
JUDGE(S): Insook Kim, PhD

151 Bushra Aldosari, Christopher Was, Lifespan Development & Educational Science
The effect of word pair directionality on Arabic students learning English as a second language to learning a second language for Arabic speakers: Can word pair directionality make a difference?

* This poster is nominated for the President's Award (p. 25) and should not be judged by the judges in session 27.
152  Abeer Alsaeed, 
Modern & Classical Language Studies  
The impact of Tatweer program on English as a foreign language (EFL) teachers’ professional development in Saudi Arabia in general education  

153  Tim Meyers, Foundations, Leadership, & Administration  
The relationship between socioeconomic Status (SES) and the National Council Licensure Examination for Registered Nurses: Comparing SES indicators in medication and moderated logistic regression.  

154*  Shabnam Moini Chaghervand, English  
Effects of background knowledge and cultural familiarity of students in ESL reading classroom  

155  Neete Saha, Foundations, Leadership, & Administration  
International students’ experiences with academic advising at a midwestern public research university  

156*  Mengjiao Wu, Nadeen Katz, Sayuri Minakuchi, Lifespan  
Development & Educational Science  
Application of apology strategies between Chinese and Arabic ESL speakers  

Poster Session 29  
JUDGE(S): Kevin D. Wolfgang, Lisa A. Valendza, MA  

157  Maya Brown, Music  
Women in Capoeira: History and performance  

158  Kristin Coen-Mishlan, Music  
A place on the podium: Sociological factors influencing female band directors and their practice  

159  Robert McKinney, Lifespan  
Development & Educational Science  
The role of religion among gay male individuals  

160  Emma Peterson, Fashion  
Hazards, negligence, and abuse in the apparel manufacturing industry: Labor conditions from 1910-2015  

161  Ryan Tingler, Ilia Otero-Cruz, Jose Garcia-Fragoso, Carlos Rodríguez-Díaz, Public Health  
Experiences of discrimination and priorities of well-being among a sample of lesbian, gay, bisexual, trans, and queer (LGBTQ) individuals attending the 2015 Pride Parade in San Juan, Puerto Rico.  

* These posters are nominated for the President’s Award (p. 25) and should not be judged by the judges in session 28.
Poster Session 30
JUDGE(S): Pamela R. Mitchell, PhD
162 Jeannette Iskander, Kara Monnin, Beth Wildman, Psychological Sciences
Examining the association between anxiety, daily activity adherence, and responsibilities: Differences between adolescents with SCD and healthy controls
163 Kimberly Kobzowicz, Leen Nahouli, Health Science
Audiology without borders
164 Brian Smith, Psychological Sciences
A multiple mediator model of PTSD symptoms and physical health complaints: The unique contributions of sleep quality and anxiety sensitivity
165 Fawn Walter, Ryan Lackner, Joel W. Hughes, Psychological Sciences
Self-compassion predicts better supervisor evaluations in university faculty and staff

Poster Session 31
JUDGE(S): Dr. David Pereplyotchik
166 Vinicius Carmello, Scott Sheridan, João Lima Sant’Anna Neto, Geography
Analyzing the effect of rainfall variability on soybean crop yield in northwest Ohio

167 Chenjian Fu, Christopher Rowan, Geology
Measuring similarity between two spatiotemporal trajectories on spherical surface: Application to paleomagnetic apparent polar wander paths
168 Andrew Kramer, Anthropology
The tale teeth tell: Dental calculus and paleodietary reconstruction at a Middle Woodland fishing village in northwestern Ohio
169 Kalpani Ratnayake, P.N. Ranasinghe, Joseph D. Ortiz, A.L.T Hewawasam, Geology
Exploring late Quaternary monsoon variability using marine and terrestrial sedimentary archives of Sri Lanka
170 Angelia Werner, Anthropology
North America’s first invention: The Clovis projectile point

Poster Session 32
JUDGE(S): Dr. Barry D. Dunietz
171 Abdullah Alalawi, Applied Engineering, Sustainability, & Technology,
Electron beam technology
172 Sreenivasa Reddy, Ambati Karthik Rayala, Tinghe Xu, Applied Engineering, Sustainability, & Technology,
Hybrid solar-fuel cell power system
Mona Mirheydari, Elizabeth K. Mann, Edgar E. Kooijman, Physics
Modeling amphipathic alpha-helix bundle of a protein binding to an aqueous-glycerophospholipid-oil interface

President’s Award Nominees
These nominees were selected because of their excellent abstracts, and they will be judged by a delegation of faculty from the Office of the President.

Karuna Ramcharran, Public Health, Emergency preparedness plan for infectious disease outbreaks for Portage County

Erica Stahl, Nursing, Transitioning to a validated behavioral pain scale for critically ill adult patients

Marissa Gastelle, Aimee Hammer, Josefina Grau, Psychological Sciences
Latina adolescent mothers’ parenting attitude: Relations to parenting stress

Jennifer Cooks, Mansi H. Mehta, Kate J. Zelic, Jeffrey A. Ciesla, Psychological Sciences
Examining perfectionism and changes in affect and rumination

Andy Martinez, Anthropology
"Take down my old violin, play it all you please": The dispersal of an Appalachian murder ballad

Matt Mackey, Mark W. Kershner, Biological Science
Analysis of diversity and structure of a Lake Erie coastal fish community

Shabnam Moini Chaghervand, English
Effects of background knowledge and cultural familiarity of students in ESL reading classroom

Mengjiao Wu, Nadeen Katz, Sayuri Minakuchi, Lifespan Development & Educational Science
Application of apology strategies between Chinese and Arabic L1 speakers

Excellent Presentations from the Undergraduate Research Symposium
These award-winning undergraduate presentations can be found in The Nest on the second floor of the KSC.

Melissa S. Bleininger, Senior, Sociology
An examination of self-control and the family structure

Angela C. Ehrich, Senior, Psychology
The effects of romantic partner instrumentality and goal progress

Katherine M. Greskovich, Freshman, Biochemistry
Investigating group 3 metal hydroxide nanoparticles for targeted cancer therapy

Victoria Shaker, Junior, Biochemistry
Transgenerational epigenetic effects of cocaine on circadian behavior and cocaine reward

Joshua C. Tingle, Senior, Fashion Merchandising
A cause for change: How recycling and sustainable resources, pre-consumption, can
A World of Research

change the footwear industry—one shoe at a time

Brandon T. Whitecotton, Junior, Biology
Mentor: Sanjaya Abeysirigunawardena, Ph.D.
Investigation of folding thermodynamics and kinetics of cobalamin riboswitch

A World of Objects: A Popup Exhibit of Graduate Research (Ballroom Balcony)
Organized by Mitch Sumner and Kaitlyn Gutshall, this exhibit will only last the duration of the Symposium and will highlight the different and varied types of research being conducted by the following KSU graduate students in an alternative and exciting format:

Aidan Ruth, Biomedical Sciences

Aliaa Maar, Applied Engineering, Sustainability & Technology

Angelia Werner, Anthropology

Brooke L. Long, Sociology

Chenjian Fu, Geology

Forrest Paige, Architecture & Environmental Design

Jordan Kauffman & Hamidreza Sohrabi, Visual Communication Design

Nicki Siegel, Biomedical Sciences

Taissir Nouri, Biological Sciences
ORAL PRESENTATIONS II

Apps & Social Media
Room 320
JUDGE(S): Dr. Xinyue Ye; Prof. Jonathan I. Maletic, PhD

11:35 Mehdi Ghayoumi, Arvind K. Bansal, Computer Science
Human emotion recognition using deep learning

11:50 Adiyana Sharag-Eldin, Xinyue Ye, Brian Spitzberg, Geography
Analyzing of geolocated Twitter as a proxy to examine public opinion on fracking

12:05 Snigdha Snigdha, Computer Science
Mom: An app to help students transition successfully from home to dorm

12:20 Alan Walker, Erica Lull, Shelby Muter, Sarah Holzer, Visual Communication Design
Convoy: Travel crisis management mobile application

12:35 Mohammed Mubeen Raoof, Digital Science
Wireless sensor network security

Learning I
Room 306C
JUDGE(S): Dr. Elena Novak, PhD; Dr. Kelly E. Cichy

11:35 Naser Al Madi, Computer Science
Is learning by reading a book better than watching a movie? A computational analysis of semantic concept network growth during text and multimedia comprehension

11:50 Ahmed Alsaghiar, Teaching, Learning, & Curriculum Studies
Using mentor texts to improve second language learners’ writing skills

12:05 Eren Cifci, Economics
Effects of parental characteristics on child earning

Human Behavior
Room 306B
JUDGE(S): Dr. Kathryn Kerns; Dr. Jon A. Sefcek

11:35 Kyle Henning, Psychological Sciences
The disambiguation effect: Predicting the “right choice”
Are badges or goals more relevant to online learning?

12:35  Caleb Heller, Architecture & Environmental Design
Designing for human performance: The significance of daylighting in Ohio schools

Learning II
Room 322
JUDGE(S): Dr. Sloane R. Burgess; Dr. Greg E. Blundell

11:35  Suleyman Akcil, Lifespan Development & Educational Science
Cyberbullying is real and we need to talk about it now

11:50  Fatemeh Dehghan Manshadi, Teaching, Learning, & Curriculum Studies, School bullying

12:05  Haylee Deluca, Manfred van Dulmen, Psychological Sciences
Peer competence during childhood and adolescence in at-risk populations

12:20  Beatrice Olesko, Music
Minding the gap: Perspectives on connecting students’ school and non-school music experiences in elementary general music classrooms

Liquid Crystals I
Room 309
JUDGE(S): Dr. Ann C. Abraham, PhD

11:35  Afsoon Jamali, Douglas Bryant, Achintya Bhowmik, Philip Bos, Liquid Crystal Institute
Design, fabrication and characterization of tunable liquid crystal lens for 3D/AR/VR applications

11:50  Shokir Pardaev, Zeinab Parsouzi, James Gleeson, Samuel Sprunt, Physics
Layer thinning and dynamics in freely suspended thin films of smectic liquid crystals

12:05  Zeinab Parsouzi, Shaikh Shamid, Shokir A. Pardaev, Samuel Sprunt, Physics
Dynamic light scattering studies in twist-bend nematic liquid crystal

12:20  Andrii Varanytsia, Liquid Crystal Institute
Bistable and photoswitchable diffractive liquid crystal light shutter

12:35  Junren Wang, Chemistry & Biochemistry
Liquid crystal/polymer core/sheath fibers produced by electrospinning and airbrushing
**Liquid Crystals II**
Room 315
JUDGE(S): Dr. Hanbin Mao; Dr. Antal Jakli

11:35 Salma Begum, Sanjoy Paul, Physics
Development and analysis a method to measure ionic concentration in nematic liquid crystals.

11:50 Leah Bergquist, Torsten Hegmann, Liquid Crystal Institute
Detecting chirality of L-glutathione functionalized gold nanoparticles using lyotropic chromonic liquid crystals.

12:05 Ayhan Duzgun, Liquid Crystal Institute
Active Brownian particles near straight or curved walls: Pressure and boundary layers.

12:20 Kun Gao, Philip Bos, Liquid Crystal Institute
A non-mechanical zoom lens for infrared imaging based on Pancharatnam phase.

12:35 Colin McGinty, Valerie Finnemeyer, John West, Phil Bos, Physics
The effect of azodye alignment layer thickness on activation energy, order parameter, anchoring energy, and stability.

**Literary Analyses**
Room 304
JUDGE(S): Dean Jim Bracken, PhD

11:35 Leanna Lostoski, English
The Ecological Passage of Time in James Joyce's Ulysses.

11:50 Emily Oliver, English
The exchanges of food and power in Jane Austen's Emma.

12:05 Shazia Nasir, English
Locating nation states in the inner places of the modernist novel.

**Literature & Film**
Room 313
JUDGE(S): Dr. Ralph Lorenz; Suzy Campbell

11:35 Danielle Hart, English
"How is Cecil going to give birth?": Non-normative bodies and male pregnancy in Welcome to Night Vale slash fiction.

11:50 William Kiskowski, Geography
Roma characterizations in popular film: Geographic exclusion in fiction.

12:05 Kevin Leistner, Theater & Dance
The romanticism of Christopher Marlowe’s "The Tragical History of the Life and Death of Doctor Faustus".

12:20 Bahareh Gharehgozlou, Modern & Classical Language Studies
Mapping Persian into English literary translation flows.

**Mathematics**
Room 314
JUDGE(S): Dr. Oana Mocioalca

11:35 Lopamudra Chakravarty, Jing Li, Mathematics
A hybrid domain decomposition algorithm for a symmetric problem.
11:50 Francisco Javier, Falco Benavent
Vassili Nestoridis, Mathematics
Approximation by rational functions

12:05 Anthony Harrison, Mathematics
The lattice size of convex polytopes:
Progress and problems.

12:20 Lisa Hendrixson, Mathematics
Products of characters and derived
lengths of groups

12:35 Sergii Myroshnychenko,
Mathematics
On a functional equation related to
pairs of hedgehogs with congruent
projections

12:20 Nancy Weissman, Lifespan
Development & Educational Science
Evaluating the effectiveness of a
synchronous online environment in
establishing social, cognitive and
teaching presence: The process and
product of coding chat transcripts

Philosophy
Room 302
JUDGE(S): Dr. Frank X. Ryan;
Dr. Kim Garchar

11:35 Brian Bieganski, Philosophy
Can video games be art?

11:50 Ryan Marx, Philosophy
Jus ad vim: Creating space between
law enforcement and war

12:05 Dylan Scott, Philosophy
On normative limitations of religious
and self-knowledge in covenant
epistemology

12:20 Kristin Weis, Philosophy
Art as negation: A defense of
conceptual art as art

Online Discourse
Room 316
JUDGE(S): Melissa M. Spohn;
Lala Hajibayova

11:35 Catherine Hessick, Jennifer
Wiggins Johnson, Pamela A.
Grimm, Business Administration
Sharing a laugh: The moderating role
of need for humor on the sharing of
online advertisements

11:50 Virginia Little, Timothy Rose,
Sociology
Tackling problems of participation in
online discussion boards

12:05 Alison Rossi, Kim Hahn, Fashion
Key elements for sustaining and
enhancing influence for fashion
bloggers

12:05 Arosha Dassanayake, Chamila
Gunathilake, Mietek Jaroniec,
Chemistry & Biochemistry
Efficient uranium (VI) sequestration
under seawater conditions using novel
organo functionalized mesoporous
silica

Physical Science
Room 321
JUDGE(S): Lewis L. Sharpnack

11:35 Arosha Dassanayake, Chamila
Gunathilake, Mietek Jaroniec,
Chemistry & Biochemistry
Efficient uranium (VI) sequestration
under seawater conditions using novel
organo functionalized mesoporous
silica
11:50  Ammar Kirmani, Khandker Quader, Maxim Dzero, Physics  
Population imbalanced p-wave superfluid in trap

12:05  Lin Li, Miroslaw Salamonczyk, Chemistry & Biochemistry  
Dual modulated homochiral helical nanofilament phase

12:20  Yi You, Sunil Badal, Jacob Shelley, Chemistry & Biochemistry  
Automatic analyte ion recognition and background removal for ambient mass spectrometry data based on cross correlation

12:35  Yi You, Sunil Badal, Jacob Shelley, Chemistry & Biochemistry  
Cross correlation as a tool for automated, high-throughput mass-spectral analysis of complex samples

Refugees & Resettlement

Room 319
JUDGE(S): Dr. Jan D. Yoder; Dr. Ratchneewan Ross, PhD

11:35  Anuj Gurung, Political Science  
Anatomy of refugee resettlement: Experiences of Bhutanese refugees in Akron

11:50  Diana Kingsbury, Sheryl Chatfield, Public Health  
A metasummary of published qualitative research on pregnancy and resettlement among refugee women

12:05  Sunita Shakya, Diana Kingsbury, Madhav Bhatta, Public Health  
Assessing potential risks for childhood failure to thrive (FTT) among Bhutanese refugee mothers in the United States

12:20  Daniel Socha, Journalism & Mass Communication  
Rationalizing resettlement: Construction of the ideal refugee in cultural orientation resources

12:35  Kathryn Hannum, Geography  
Pious Policy: Cultural preservation and regional convergence in the EU

Race & Racial Biases

Room 318
JUDGE(S): Dr. Susan Roxburgh, PhD; Andrea B. Szell, MA

11:35  Andria Blackwood, Geography  
Exploring the relationship between race, place, self-efficacy, and community engagement

11:50  Zach Humphries, Journalism & Mass Communication  
How athletes of race are portrayed in the media: The portrayal of Latino and Asian baseball players on ESPN: Sunday Night Baseball
<table>
<thead>
<tr>
<th>Time</th>
<th>Name</th>
<th>Field</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:35</td>
<td>Jennifer Burrell</td>
<td>Geography</td>
<td>Mapping environmental and societal factors as proxies to determine the status of neighborhood recovery in Youngstown, Ohio</td>
</tr>
<tr>
<td>11:50</td>
<td>Brooke Long</td>
<td>Sociology</td>
<td>What if my neighbor is a criminal? The “Love Thy Neighbor Hypothesis” and pro-social behavior</td>
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<tr>
<td>12:05</td>
<td>Meghan Novisky</td>
<td>Sociology</td>
<td>Cultural health capital and chronic disease management among older inmates</td>
</tr>
<tr>
<td>12:20</td>
<td>Melissa Phillips</td>
<td>Geography</td>
<td>Lightning and Hurricane Safety Knowledge and the Effects of Education Modes on Elementary School Children</td>
</tr>
<tr>
<td>12:35</td>
<td>Kristen Traynor</td>
<td>Political Science</td>
<td>Frame by frame: The framing of prisoner treatment at Guantánamo Bay during the 2005-2006 hunger strike</td>
</tr>
<tr>
<td>11:35</td>
<td>Jenna Brinker, Vinay Cheruvu</td>
<td>Public Health</td>
<td>Association between social and emotional support and psychological distress among individuals with adverse childhood experiences</td>
</tr>
<tr>
<td>11:50</td>
<td>Emily Dames, Dianne Kerr</td>
<td>Public Health</td>
<td>Hormonal treatment, depression, and suicide in transgender women</td>
</tr>
<tr>
<td>12:05</td>
<td>Christi Gross</td>
<td>Sociology</td>
<td>Maternal age and postpartum depression during the transition to parenthood</td>
</tr>
<tr>
<td>12:20</td>
<td>Shawn Starcher</td>
<td>Journalism &amp; Mass Communication</td>
<td>Depression: Keeping it in the family</td>
</tr>
<tr>
<td>12:35</td>
<td>Kaela Stuart, Kathryn Kerns</td>
<td>Psychological Sciences</td>
<td>Family processes in child anxiety: The long-term impact of fathers and mothers</td>
</tr>
</tbody>
</table>
Awards Luncheon: 1:00pm – 2:30pm, Ballroom

Keynote Speaker: Paul E. DiCorleto, PhD

Dr. DiCorleto was named Vice President for Research and Sponsored Programs and Professor of Biological Sciences at Kent State University in August, 2015. He was previously Sherwin-Page Chair of the Cleveland Clinic Lerner Research Institute and Chair of the Department of Molecular Medicine at Case Western Reserve University. He was also Principal Investigator and is now Co-Principal Investigator, of the NIH Center for Accelerated Innovations-Cleveland Clinic – one of three such Centers nationally.

Dr. DiCorleto received his undergraduate training in chemistry at Rensselaer Polytechnic Institute and his doctorate in biochemistry from Cornell University. Dr. DiCorleto is a vascular cell biologist with extensive experience in the role of endothelial cell signaling pathways and gene expression in atherosclerosis and other inflammatory diseases. He was with the Cleveland Clinic for over 30 years, having served as an Associate Chief of Staff and a member of the Clinic’s Board of Governors and Board of Trustees.

Dr. DiCorleto has published more than 125 peer-reviewed articles, invited reviews, and book chapters and has maintained continuous support from the NIH for over 30 years. Dr. DiCorleto has chaired multiple NIH and American Heart Association review panels, as well as several national conferences on research into heart and vascular disease. He has served as President of the North American Vascular Biology Organization, and is currently a member of its Scientific Advisory Board. He has been a long-time member of the Association of American Medical Colleges’ Advisory Panel on Research and was elected a Fellow of the American Association for the Advancement of Science in 2007. Dr. DiCorleto has served as a consultant and Board member of multiple companies and has served on the Clinic’s Commercialization Council (internal focus) and Innovation Advisory Board (external focus) for many years. He is on the Board of the Clinic’s Global Cardiovascular Innovation Center. He is also a Director of Shield Biotech, Inc. which seeks to commercialize the first preventative vaccine for breast cancer.

Dr. DiCorleto is also a member of the Board of Directors of the Holden Arboretum/Cleveland Botanical Garden and of the Cleveland Water Alliance.
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, 2015-2016

Fritz Yarrison, Executive Chair
Andrea Meluch, Vice Executive Chair
Suparna Navale, Finance Chair
Mark Rhodes, Information Services Chair
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Morgan Chaney, Symposium Chair
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