

Climate and Health

Held in conjunction with:

- College of Dentistry Research Day
- College of Nursing Scholarship Showcase
- College of Public Health Research Day
- College of Health Sciences Research Day

Conference Chairs: Erin N. Haynes, DrPH, MS

Kurt W. Deuschle Professor of Preventive Medicine and Environmental Health
Deputy Director, UK-CARES
Associate Director, Center for Clinical and Translational Science
Chair Departments of Epidemiology, Preventive Medicine and Environmental Health
College of Public Health
University of Kentucky

William C. Haneberg, PhD, PG, FGSA

Research Professor, Department of Earth and Environmental Sciences
State Geologist
Director, Kentucky Geological Survey
University of Kentucky

7:45-8:30 am Registration

8:30-9:00 am Welcome: Philip A. Kern, MD, CCTS Director (Worsham Cinema)

Opening Remarks: Eli Capilouto, DMD, PhD, President, University of Kentucky

Introduction Plenary Speaker: Anastasia Curwood, PhD Associate Professor, Director,
African American & Africana Studies, College of Arts & Sciences, University of Kentucky

9:00-10:00 am Plenary Session (Worsham Cinema)

“The Quest for Environmental and Climate Justice”

Robert D. Bullard, PhD

Distinguished Professor, Urban Planning and Environmental Policy
Robert D. Bullard Center for Environmental and Climate Justice
Texas Southern University

10:00-11:00 am Panel (Worsham Cinema)

The Quest for Environmental and Climate Justice: Three Kentucky Perspectives

Crystal Felima, PhD, Session Moderator

Assistant Professor, Anthropology
College of Arts and Sciences
Commonwealth Institute for Black Studies
University of Kentucky

17th Annual CCTS Spring Conference

Tuesday, April 5, 2022

Gatton Student Center

Panelists:

William C. Haneberg, PhD, PG, FGSA

Research Professor, Department of Earth and Environmental Sciences
State Geologist
Director, Kentucky Geological Survey
University of Kentucky

LaLa Ma, PhD

Assistant Professor, Economics
Gatton College of Business
University of Kentucky

Tom FitzGerald, JD

Adjunct Professor of Energy and Environmental Law
Brandeis School of Law
University of Louisville

11:00-11:15 am

Break

11:15-11:45 am

**Presentation of Certificate & Degree Recipients and
Mentor Recognition Awards (Worsham Cinema)**

Philip A. Kern, MD

Professor and University Research Professor
Department of Internal Medicine, Division of Endocrinology
College of Medicine
Director, Center for Clinical and Translational Science
University of Kentucky

11:45 -12:50 pm

Lunch (Harris Ballroom or Grand Ballroom)

12:00-12:30 pm

Book Signing – Dr. Bullard (Harris Ballroom Mezzanine)

12:00-12:45 pm

High School Students Poster Session (Grand BallRoom)

12:30-3:00 pm

College Research Days

College of Dentistry Research Day (Worsham Cinema)
College of Health Sciences Research Day (Harris Ballroom)
College of Nursing Scholarship Showcase (Senate Chamber)
College of Public Health Research Day (Rm. 331)

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1:00-2:30 pm CCTS Scholar Presentations Session A (Rm. 330D)

Joel Thompson, PhD, Session Chair

Research Development Director
Center for Clinical and Translational Science
University of Kentucky

Sara Pasha, MD, Session Co-Chair

Assistant Professor, Department of Internal Medicine
Division of Pulmonary, Critical Care and Sleep Medicine
Medical Director, UK Sleep Disorders Clinic

1:00 “An Automated RNA Extraction Method for Wastewater Analysis of SARS-CoV2”

Mohammad Dehghan Banadaki, Graduate Student, Department of Mechanical Engineering, College of Engineering, University of Kentucky

1:15 “Carnitine Palmitoyltransferase 1a Modulates Lipoprotein and Hepatic Lipid Metabolism in a Sex-Specific Manner”

Robert N. Helsley, PhD, Assistant Professor, Department of Pharmacology and Nutritional Sciences, College of Medicine, University of Kentucky (CCTS New Investigator Pilot Recipient)

1:30 “Cerebrovascular Reactivity is Related to Enlarged Perivascular Spaces in the Basal Ganglia among Cognitively Normal Older Adults”

Timothy Libecap, MD/PhD Student, College of Medicine, University of Kentucky (CCTS PSMRF Recipient)

1:45 “Comparison of Hemostatic Dysregulation in HIV-1 and SARS-CoV-2 Infection”

Martha M. Sim, Graduate Student, Department of Molecular and Cellular Biochemistry, College of Medicine, University of Kentucky

2:00 “Comparison of Post-ARDS Fibrosis in Patients with COVID-19 and Non-COVID Etiologies”

Stephanie Mora, PharmD Candidate, College of Pharmacy, University of Kentucky (CCTS Pilot Award)

1:00-2:30 pm CCTS Scholar Presentations Session B (Rm. 330E)

Victoria King, PhD, Session Chair

Career Development Director, Center for Clinical and Translational Science
Associate Professor, Division of Cardiovascular Medicine, Department of Internal Medicine
University of Kentucky

Michael Samaan, PhD, Session Co-Chair

Assistant Professor, College of Education
University of Kentucky

1:00 “Low-dose Short-term Ketorolac Reduces Opioid Use and Pain Scores in Orthopaedic Polytrauma Patients”

Richard W. Pectol, B.S., Department of Orthopaedic Surgery & Sports Medicine, College of Medicine, University of Kentucky

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- 1:15** *“Developing Cancer Education Curriculum to Enhance Cancer Literacy in Appalachian Kentucky Middle and High School Students”*
Lauren Hudson, Undergraduate Student, University of Kentucky, UK ACTION Program, UK VPR Summer Undergraduate Research Fellowship Program
- 1:30** *“Primary Results of a Platform-based Clinical Trial for Persons Diagnosed with MCI”*
Allison Gibson, MSW, PhD, Associate Professor, College of Social Work, University of Kentucky
- 1:45** *“A cross-sectional Examination of the Early-onset Hypertensive Disorders of Pregnancy and Industrial Emissions of Toxic Metals Using Kentucky Birth Records, 2008-2017”*
Courtney Walker, PhD, Postdoctoral Fellow, Department of Behavioral Science, College of Medicine, University of Kentucky
- 2:00** *“What is the Association Between Quality of Life and Weight Change at 6 Months among African American Diabetes Prevention Program Participants”*
Amanda Akomah-Donkor, PharmD Candidate, College of Nursing, University of Kentucky (CCTS PSMRF Recipient)

1:00-2:30 pm **DREAM Scholars Oral Presentation Session** (Rm. 330A/B)

Lovoria Williams PhD, Session Chair

Associate Professor

Associate Director & Endowed Research Professor Cancer Health Equity, Markey Cancer Center

Associate Director, UK Center for Clinical and Translational Science & Director, Integrated Special Populations

Director, DREAM Scholars Program

University of Kentucky

Brittany Smalls, PhD, MHSA, Session Co-Chair

Assistant Professor

Department of Family and Community Medicine

Assistant Director, DREAM Scholars Program

University of Kentucky

- 1:00** *“Implementing Telehealth Psychological Interventions for Chronic Orofacial Pain: A Promising Approach”*
Ian Boggero, PhD, Assistant Professor, Division of Orofacial Pain, College of Dentistry, University of Kentucky
- 1:15** *“Direct and Indirect Relationships between Economic Hardships, Family Interactions, and Obesogenic Behaviors among Hispanic/Latinx Youth”*
Shelia Barnhart, PhD, Assistant Professor, College of Social Work, University of Kentucky
- 1:30** *“The Repairing Power of Relational Equity: A New Look at Relationship Models for Black Couples”*
Melinda Murdock, Graduate Student, Department of Family Sciences, College of Agriculture, University of Kentucky

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- 1:45 ***“Addressing the Racial Disparities of Endometrial Cancer Mortality Rates Through Engineering Approaches”*** **Brittany Givens- Rassoolkhani, PhD**, Assistant Professor, College of Engineering, University of Kentucky
- 2:00 ***“A Developmental Adaptation of a HIV Prevention Program for Older Black Women: Considerations and Challenges During Career Development ”***
Laneshia Conner, PhD, Assistant Professor, College of Social Work, University of Kentucky

1:00-3:00pm College of Health Sciences Research Day (Harris Ballroom)

Brian Noehren, PT, PHD, Session Chair

Interim Associate Dean for Research and Professor
College of Health Sciences
University of Kentucky

- 1:05 ***“Role of Stem Cells in Muscle Adaptation to Exercise”***
Charlotte A. Peterson, PhD, Emeritus Professor, College of Health Sciences, University of Kentucky
- 1:30 ***“Co-design for mHealth”***
Ming Yuan-Chih, PhD, MHA, Associate Professor, College of Health Sciences, University of Kentucky
- 1:55 ***“Facilitators and Barriers for Adult Use of Augmentative and Alternative Communication (AAC): A Qualitative Study”***
Judith L. Page, PhD, CCC-SLP Associate Professor, College of Health Sciences, University of Kentucky and **Mary Jo Cooley Hidecker, PhD, CCC-A/SLP** Associate Professor, College of Health Sciences, University of Kentucky
- 2:15 ***“Perceptual-Cognitive Function Following Lateral Ankle Sprain: New Directions for an Old Problem”***
Matt Hoch, PhD ATC Associate Professor, College of Health Sciences, University of Kentucky
- 2:40 ***“Computerized cognitive function does not correlate with choice-reaction time during a hopping task”***
Ke’La Porter, Student, University of Kentucky
- 2:50 ***“Satellite cell and myonuclear dynamics contribute to ACL injury-induced quadriceps atrophy”***
Nick Thomas, Student, University of Kentucky

12:30-3:00pm College of Dentistry Research Day (Worsham Cinema)

Luciana M. Shaddox, DDS, MS, PhD Session Chair

Associate Dean of Research
College of Dentistry, University of Kentucky
Professor of Dentistry

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- 12:30 Keynote Speaker**
“Social and Commercial Determinants of Health”
Scott L. Tomar, DMD, MPH, DrPH
Professor and Associate Dean for Prevention and Public Sciences,
University of Illinois Chicago College of Dentistry
Vice President, American Board of Dental Public Health
- 2:00 *“Dental Home Entryway During a Pandemic”* Susan S. Bishop, DMD, MHA**
Assistant Professor, Division of Restorative Dentistry, College of Dentistry, University of Kentucky
- 2:15 *“Lessons Learned from a 4-year Oral Cancer Project in East Kentucky and Next Steps”***
Pam Stein VanArsdall DMD, MPH Professor and Division Chief, Public Health Dentistry,
University of Kentucky
- 2:30 *“Utilizing KASPER to identify dental opioid prescription patterns”* Marcia Rojas Ramirez, DDS,** Assistant Professor, Division of Oral Diagnosis, College of Dentistry, University of Kentucky
- 2:45 *“Social Vulnerability, Community Resilience and Oral Health”* Richard C. Ingram, DrPH**
Associate Professor, College of Public Health, College of Dentistry, University of Kentucky

1:00-2:30pm College of Nursing Student Scholarship Research Day (Senate Chamber)

Martha Biddle PhD, APRN, CCNS, FAHA Session Chair

Associate Professor, Chair of Student Scholarly Affairs
Co-Director, RICH Heart Program
College of Nursing, University of Kentucky

- 1:00 Welcome**
- 1:05 Keynote speaker**
“Innovation in Health System Performance: Opportunities for Nursing Research” Tyrone Borders, PhD, Professor, College of Nursing, University of Kentucky
- 1:15 *“SARS-CoV-2 Results in Increased Risk for Suicide Ideation and Suicide Attempts in Rural Dwellers” (Von Allen participant)*** Hall, Claire M., UG student, College of Nursing
- 1:25 *“Incorporating an Implicit Bias Education Curriculum in an Undergraduate Nursing Program”*** Kline, Peyton, UG student, College of Nursing
- 1:35 *“Caring for Ourselves Before We Care for Others: A Mindfulness-Based Intervention for Acute Care Nursing Staff”*** Brouwer, Kent R., DNP student, College of Nursing
- 1:45 *“Exploring Palliative Care Education Needs and Desires of Advanced Practice Providers in the Critical Care Setting” (Von Allen participant)*** Clemmons, Jill M., DNP student, College of Nursing

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- 1:55 ***“Dyadic Strain Mediates the Association of Shared Care with Caregiver Burden in Caregivers of Patients with Heart Failure”*** Cha, Geunyeong, PhD student, College of Nursing
- 2:05 ***“Family support for healthy diet positively influences diet quality of Latinx adults at-risk for type 2 diabetes”*** Hawes, Natalie, PhD student, College of Nursing
- 2:15 **Closing Remarks**
Dr. Janie Heath, PhD, Dean of College of Nursing, University of Kentucky

12:40-1:40pm College of Public Health Research Day (Rm 331)

Doris M. Castellanos, MBA, MHA, CIP Session Chair

Assistant Dean of Research Operations
College of Public Health
University of Kentucky

- 12:40 ***“The Intersection of Sensemaking and Municipal Water Quality: A Case Study in One Rural Kentucky Community”*** Beverly May, RN, MSN, DrPH, Department of Epidemiology, University of Kentucky
- 1:00 ***“PFAS Incineration and Environmental Justice in East Liverpool, Ohio”*** Kaitlin Vollet Martin, PhD, Post-Doctoral Scholar, Department of Environmental Health, University of Kentucky
- 1:20 ***“Recharge Moments: A Pilot Study to Improve Mindfulness in the Workplace”*** Keerthana K. Kumar, MD, Department of Preventive Medicine and Environmental Health, College of Public Health, University of Kentucky

2:00-3:00pm Von Allmen Center for Entrepreneurship “1-Minute Pitch Your Poster” Competition (Grand Ballroom Stage)

Warren O. Nash III, JD

Executive Director, Von Allmen Center for Entrepreneurship

Mariam Gorjian

New Ventures Manager, Von Allmen Center for Entrepreneurship and Office of Technology Commercialization

3:00-5:00pm Poster Session (Grand Ballroom)

Thomas Kelly, PhD, Session Chair

Robert Straus Professor of Behavioral Science, College of Medicine
Chair, Department of Behavioral Sciences, College of Medicine
Associate Dean for Research, College of Nursing
Director, Training Education and Mentoring (TEAM) Core,
Center for Clinical and Translational Science
University of Kentucky