



URBAN ONE HEALTH: Environmental Stressors, Determinants of Health and Resilience

Wayne State University, Detroit,
MI Virtual Symposium:
December 2 and December 3, 2021



WAYNE STATE
UNIVERSITY

FINAL AGENDA

TO ATTEND ANY ZOOM SESSION, CLICK 'Ctrl' and the link OR
VISIT THE SYMPOSIUM WEBSITE:

go.wayne.edu/onehealth

ALL TIMES LISTED ARE IN EASTERN TIME



Intended Audience:

Academic Researchers, Educators, Public Health Practitioners, Urban Planners, Students and Trainees, Medical, Environmental Law, Engineering Professionals, Government Agencies, Community Organizations and Members of the Urban Community, Infectious Disease Experts, Social Scientists, Veterinary Health Professionals, Communicators



What is Urban One Health? The Centers for Disease Control and Prevention (CDC) defines "One Health" as a "collaborative, multisectoral, and transdisciplinary approach – working at the local, regional, national and global levels – with the goal of achieving optimal health outcomes recognizing the interconnection between people, animals, plants and their shared environment." Detroit and our sister cities across the world face unprecedented challenges related to local, regional and global environmental pressures. "One Health" urban environmental solutions are now required if we are ever to discover the roads that lead to environmental health and ecosystem resilience for all of us.

Sponsored by Wayne State University's:

[Integrative One Health Initiative](#)

[Healthy Urban Waters](#)

[Center for Urban Responses to Environmental Stressors \(CURES\) \(P30 ES020957\)](#)



DAY 1 MAIN SESSION:

<https://wayne-edu.zoom.us/j/94126253528?pwd=dlllMTUxUk80aDduSkJZeUI3NmFNQT09>

Meeting ID: **941 2625 3528**

Passcode: **232269**

THURSDAY DECEMBER 2, 2021

11:30 AM – 4:30 PM ET

11:30-11:40 AM	President M. Roy Wilson, MD, M.S. President, Wayne State University Video Welcome and Introduction
11:40-11:55 PM	Carol J. Miller, PhD, PE Professor, Civil and Environmental Engineering, Director of Healthy Urban Waters (HUW) & Melissa Runge- Morris, MD Director of the Institute of Environmental Health Sciences, Director of the Center for Urban Responses to Environmental Stressors (CURES) Introduction and Overview from Symposium Co-Chairs
KEYNOTE SPEAKER	
12:00 PM	Colin Basler, DVM, MPH, DACVPM Deputy Director, One Health Office Centers for Disease Control and Prevention One Health: How Collaboration Can Effectively Address Shared Health Threats
SESSION 1: Zoonotic Diseases, Surveillance, Prevention Moderators: Paul Kilgore, MD, MPH & Jeffrey Ram, PhD	
12:45- 1:15 PM	Emily Dinh, PhD, MSPH Medical Entomologist, Michigan Department of Health and Human Services Michigan Emerging and Zoonotic Disease Surveillance, 2020
1:20- 1:50 PM	Jorge Hidalgo, MD, MACP, MCCM, FCCP President-Elect, World Federation of Intensive and Critical Care Professor of Critical Care and Head of the Division of Critical Care, Karl Heusner Memorial Hospital, Belize City, Belize The Sudden Appearance of SARS-CoV-2 from Zoonotic Reservoirs
Break	
SESSION 2: The Built Environment and One Health Moderator: Carol Miller, PhD, PE	
2:05- 2:30 PM	Shawn McElmurry, PhD, PE Professor, Civil and Environmental Engineering, Wayne State University, Detroit, MI



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	<u>Winter Storm Uri: How Non-Resilient Infrastructure Threatens Public Health</u>
2:30- 2:55 PM	<p>Elaine Faustman, PhD Professor, Environmental & Occupational Health Sciences; Director of the Institute for Risk Analysis and Risk Communication (IRARC), University of Washington; Seattle, WA</p> <p><u>Embracing Metagenomic approaches for Surveillance and Monitoring Using an Urban One Health Platform</u></p>
2:55- 3:20 PM	<p>Jorge A. Trejo, PhD Marine Biology, Corozal College; Corozal Town, Belize Consultancy to Ministry of Agriculture, Fisheries, Forestry, the Environment, Sustainable Development and Immigration (MAFFESDI)</p> <p><u>Perspectives on the Development and Environmental Challenges in Belize: Trends, Practices and Future Outlook</u></p>
Break	
Early-Stage Investigator Lightning Talks	
Moderator: Michael Petriello, PhD	
3:35- 4:15 PM	<p style="text-align: center;"><u>Flash Talks from Early-Stage Investigators</u></p> <p>These talks are 5 minutes in length and are geared to communicating their science to a broad interdisciplinary audience on a variety of One Health-relevant topics.</p> <ol style="list-style-type: none"> 1. Lucas Debarba, PhD: <i>VOC-induced Neuroinflammation and Metabolic Disease</i> 2. Cynthia Gutierrez-Navarro: <i>The Characterization of Ecological Processes that Stabilize Pathogenic Microbial Communities in Green Stormwater Infrastructure</i> 3. Grace Swanson, PhD: <i>Phthalate Exposure on Sperm RNAs and Microbiome Impact the Paternal Specific Factors Contributed at Fertilization</i> 4. Breanna A. Borg, MPH: <i>Science Policy Network-Detroit (Scipol-Detroit) Action Groups: A Collaborative Initiative Acting Against Environmental Hazards in Detroit</i> 5. Sarah S. Comstock, PhD: <i>Relevance of One Health for Pregnancy and Birth Cohorts</i> 6. Víctor D. Carmona-Galindo, PhD: <i>A Maximum Entropy Approach for Mapping the Potential Distribution of the Parasite Trypanosoma Cruzi DTU TcI Using the Vector-ecology of Infected Triatoma Dimidiata in El Salvador</i>
4:15- 4:30 PM	Questions for ESIs; Wrap Up and Reflection on Day 1
ADJOURN DAY 1	



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DAY 2 MAIN SESSION:

<https://wayne-edu.zoom.us/j/93763967056?pwd=WlovMlFPTXFwa1lxczlwQW9wdzlhZ09>

Meeting ID: **937 6396 7056**

Passcode: **693723**

FRIDAY DECEMBER 3, 2021 11:30 AM – 4:45 PM ET

11:30- 11:40 AM	Stephen M. Lanier, PhD Vice President for Research, Wayne State University <u>Welcome and Opening Remarks</u>
KEYNOTE SPEAKER	
11:45 AM- 12:30 PM	Peter S. Fiske, PhD Executive Director of the National Alliance for Water Innovation (NAWI), Director of the Water-Energy Resilience Research Institute (WERRI), Lawrence Berkeley National Laboratory <u>Urban Innovations for Water Security, Public Health and Community Happiness</u>
SESSION 3: Community-Based Urban Health Moderator: Christopher Trentacosta, PhD	
12:30- 1:05 PM	Jennifer Carrera, PhD Assistant Professor, Sociology, Environmental Science and Policy Kent Key, PhD, MPH, Academic Outreach Specialist, Division of Public Health Michigan State University, East Lansing, MI Cynthia Watkins, Director, Wells Ministries, Community Advocate & Flint, MI Resident <u>Advancing a Community Driven Research Model for Environmental Justice</u>
1:05- 1:40 PM	Natalie Sampson, PhD Associate Professor, Public Health, Director of the Environmental Health Research-to-Action (EHRA) Youth Academy Malak Elayyan & Horacio Garcia, EHRA Fellows University of Michigan- Dearborn, MI <u>Building Youth Capacity for Moving Environmental Health Research to Action in Metro Detroit</u>
Break	
SESSION 4: Concurrent Sessions Moderators: Melissa Runge-Morris, MD & Carol Miller, PhD, PE <i>Sessions focused on the topics of One Health Initiative Pilot Projects</i> <u>*CLICK + "Ctrl" ON THE TITLE OF YOUR PREFERRED SESSION TO GO TO THAT ZOOM ROOM*</u>	
1:55- 2:25 PM	<u>Flooding in the Jefferson-Chalmers Neighborhood: Does Green Infrastructure Decrease Mold Infestation?</u>



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	<p>Judy Westrick, PhD</p> <p><u>Applying the One Health Approach to Identifying Community Risk Factors for Antibiotic Resistance in Southeastern Michigan</u></p> <p>Yifan Zhang, PhD</p> <p><u>ddLAMP Platform Development for Sensitive Detection of Vector-borne Disease Organisms</u></p> <p>Jeffrey Ram, PhD</p>	
Break		
<p><u>RETURN TO MAIN ZOOM SESSION</u></p> <p>SESSION 5: One Toxicology</p> <p>Moderator: Christopher Kassotis, PhD</p>		
2:40- 3:10 PM	<p>Ed Kolodziej, PhD</p> <p>Associate Professor, Civil & Environmental Engineering, University of Washington, Seattle, WA</p> <p><u>Water Quality Impacts of Roadway Runoff on Coho Salmon</u></p>	
3:10- 3:40 PM	<p>Tamara Tal, PhD</p> <p>Helmholtz Centre for Environmental Research, Bioanalytical Ecotoxicology Department, Leipzig, Germany</p> <p><u>Rapid Gene Editing in Zebrafish to Understand How PFAS Exposure Causes Hyperactivity</u></p>	
Break		
<p>SESSION 6: Scientific, Community and Policy Panel</p> <p>Moderator: Nick Schroeck, J.D.</p>		
3:50 PM- 4:35 PM	<p><u>Panel Discussion: Developing Law and Policy to Achieve Optimal Health Outcomes Between People, Animals, Plants in Our Interconnected Environment</u></p>	<p>Stephanie Chang, MPP, MSW, Michigan Senate, 1st District</p> <p>Kyle Whyte, PhD, George Willis Pack Professor of Environment and Sustainability, University of Michigan</p> <p>Andrew Bashi, JD, Attorney, Great Lakes Environmental Law Center</p>
4:35- 4:45 PM	Closing Remarks and ESI Awards	
ADJOURN SYMPOSIUM		



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