URBAN ONE HEALTH: Environmental Stressors, Determinants of Health and Resilience
Wayne State University, Detroit, MI Virtual Symposium: December 2 and December 3, 2021

**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=dllIMTUxUk80aDduSkJZeUl3NmFNQT09

Meeting ID: **941 2625 3528**  
Passcode: **232269**

**THURSDAY DECEMBER 2, 2021  11:30 AM – 4:30 PM ET**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
</tr>
</thead>
</table>
| 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** |
| 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 |

**Sponsored by Wayne State University’s:**

**Integrative One Health Initiative**  
**Healthy Urban Waters**  
**Center for Urban Responses to Environmental Stressors (CURES)(P30 ES020957)**
Winter Storm Uri: How Non-Resilient Infrastructure Threatens Public Health

2:30- 2:55 PM
Elaine Faustman, PhD
Professor, Environmental & Occupational Health Sciences; Director of the Institute for Risk Analysis and Risk Communication (IRARC), University of Washington; Seattle, WA
*Embracing Metagenomic approaches for Surveillance and Monitoring Using an Urban One Health Platform*

2:55- 3:20 PM
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)
*Perspectives on the Development and Environmental Challenges in Belize: Trends, Practices and Future Outlook*

Break

Early-Stage Investigator Lightning Talks
Moderator: Michael Petriello, PhD

3:35- 4:15 PM
*Flash Talks from Early-Stage Investigators*
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.

1. Lucas Debarba, PhD: *VOC-induced Neuroinflammation and Metabolic Disease*
2. Cynthia Gutierrez-Navarro: *The Characterization of Ecological Processes that Stabilize Pathogenic Microbial Communities in Green Stormwater Infrastructure*
3. Grace Swanson, PhD: *Phthalate Exposure on Sperm RNAs and Microbiome Impact the Paternal Specific Factors Contributed at Fertilization*
4. Breanna A. Borg, MPH: *Science Policy Network-Detroit (Scipol-Detroit) Action Groups: A Collaborative Initiative Acting Against Environmental Hazards in Detroit*
5. Sarah S. Comstock, PhD: *Relevance of One Health for Pregnancy and Birth Cohorts*
6. Víctor D. Carmona-Galindo, PhD: *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*

4:15- 4:30 PM
Questions for ESIs; Wrap Up and Reflection on Day 1

**ADJOURN DAY 1**
FRIDAY DECEMBER 3, 2021  11:30 AM – 4:45 PM ET

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker/Panel</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30- 11:40 AM</td>
<td>Stephen M. Lanier, PhD</td>
<td>Welcome and Opening Remarks</td>
</tr>
<tr>
<td>11:45 AM- 12:30 PM</td>
<td>Peter S. Fiske, PhD</td>
<td>Urban Innovations for Water Security, Public Health and Community Happiness</td>
</tr>
<tr>
<td>12:30- 1:05 PM</td>
<td>Jennifer Carrera, PhD</td>
<td>Advancing a Community Driven Research Model for Environmental Justice</td>
</tr>
<tr>
<td>1:05- 1:40 PM</td>
<td>Natalie Sampson, PhD</td>
<td>Building Youth Capacity for Moving Environmental Health Research to Action in Metro Detroit</td>
</tr>
<tr>
<td>1:55- 2:25 PM</td>
<td>Flooding in the Jefferson-Chalmers Neighborhood: Does Green Infrastructure Decrease Mold Infestation?</td>
<td></td>
</tr>
</tbody>
</table>

**SESSION 4: Concurrent Sessions**
Moderators: Melissa Runge-Morris, MD & Carol Miller, PhD, PE
Sessions focused on the topics of One Health Initiative Pilot Projects

*CLICK + “Ctrl” ON THE TITLE OF YOUR PREFERRED SESSION TO GO TO THAT ZOOM ROOM*

Sponsored by Wayne State University’s:
Integrative One Health Initiative
Healthy Urban Waters
Center for Urban Responses to Environmental Stressors (CURES)(P30 ES020957)
<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Presenter/Title</th>
</tr>
</thead>
</table>
| 2:40-3:10 PM    | Ed Kolodziej, PhD, Associate Professor, Civil & Environmental Engineering, University of Washington, Seattle, WA  
**Water Quality Impacts of Roadway Runoff on Coho Salmon** |
| 3:10-3:40 PM    | Tamara Tal, PhD, Helmholtz Centre for Environmental Research, Bioanalytical Ecotoxicology Department, Leipzig, Germany  
**Rapid Gene Editing in Zebrafish to Understand How PFAS Exposure Causes Hyperactivity** |
| 3:50 PM-4:35 PM | Stephanie Chang, MPP, MSW, Michigan Senate, 1st District  
**Panel Discussion: Developing Law and Policy to Achieve Optimal Health Outcomes Between People, Animals, Plants in Our Interconnected Environment**  
Kyle Whyte, PhD, George Willis Pack Professor of Environment and Sustainability, University of Michigan  
Andrew Bashi, JD, Attorney, Great Lakes Environmental Law Center |
| 4:35-4:45 PM    | Closing Remarks and ESI Awards                                                          |