

# Inter American University of Puerto Rico

Center for Environmental Education, Conservation and Research (CECIA-IAUPR) in collaboration with the US EPA

#### Preliminary Program

13th CECIA-IAUPR Biennial Symposium on Potable Water Issues in Puerto Rico: Science, Technology and Regulation

### Extreme weather, droughts and hurricanes - what needs to change?

Th	ursday - February 14, 2019 (Bayamón IAUPR Campus
07:30 - 08:15 AM	Registration
08:15 - 08:30	Opening Remarks
	Welcome – Carlos J Olivares, Chancellor, Bayamón Campus, IAUPR
	Message – Manuel Fernós, President, IAUPR
	Message – Carmen Guerrero, Director, CEPD, US EPA
	Resilience of potable water systems and extreme weather: lessons for the future
08:30-09:15	Potable water, droughts and hurricanes health outcomes
	✓ Paul Hunter, East Anglia University, UK
09:15-10:00	EPA's Water Sector Emergency Response Role During Disasters
	✓ Brian Pickard, ERT Lead WSD, US, EPA OGWDW
10:00 - 10:15	Break
	Extreme weather: watershed issues and source water
10:15-10:45	Droughts and floods in the US and the Caribbean; what the data tell us
	✓ Jared H. Bowden, NSCU
10:45-11:15	Ecological droughts: impacts to agriculture, water supply and distribution
	Speaker to be announced, USGS Climate Adaptation Science Center
11:15-11:45	Understanding the risk of antibiotic resistant bacteria in rivers and streams
	✓ Jay Garland, US EPA
11:45 - 12:45 PM	Break
	Extreme weather: water quality issues
12:45-01:30	Harmful Algal Blooms in the United States; Past, Present and Future
	✓ Timothy Davis, Bowling Green State University
01:30-02:00	Potential Corrosion Issues resulting from Extreme Weather Events
	✓ Thomas Speth, US EPA
02:00-02:30	Hurricane Katrina revisited: emergency response for Public Water Supplies in 2005
	✓ Craig Patterson, US EPA ORD-NRMRL
02:30 - 02:45	Break
	Development and implementation of tools to protect public health
02:45-03:15	Hydroshare: a tool to build resilience
	✓ Christina Bandaragoda, University of Washington
03:15-04:15	Hurricane Maria deployment experiences in assessing Healthcare Facilities
	✓ Morris L. Maslia, Consulting Engineer
04:15-04:45	RAPID Boulder: Post-Hurricane Potable Water Quality Assessment in Puerto Rico
	✓ Julie Ann Korak, University of Colorado, Boulder



First day closing remarks

04:45 -05:00





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F	riday - February 15, 2019 (Bayamón IAUPR Campus)
07:30 - 08:20 AM	Registration
08:20	Opening remarks
	Working with the public; citizen science as tools to protect public health
08:30-09:00	Flint & Citizen Science for the protection of the public
	✓ Speaker to be announced.
09:00-10:00	US EPA perspective on Citizen Science.
	✓ Rachael Graham, US EPA Region II
	✓ Fernando Lloveras, Para la Naturaleza
	✓ Speaker to be announced, San Juan Bay Estuary Program
10:00-10:30	Relief for Rural PR after Maria: the experience of an International NGO
	✓ Haley Broder, IsraAID
	12000, 20000, 20000, 20000
10:30-10:45	Break
10.00 10.10	Water supply systems as ecosystems
10:45-11:30	Monitoring for <i>Legionella pneumophila</i>
10.45-11.50	✓ Mark W. LeChevallier, Dr. Water Consulting, LLC
11:30-12:00	Intermittent sand filtration with gravel pre-filtration for household systems
11.00 12.00	✓ Rafael Rios Dávila, UPR
12:00-12:30	Presence of Shiga toxin-producing <i>E. coli</i> (STEC) in small potable water systems in PR
	✓ Melitza Crespo Medina, CECIA, IAUPR
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12:30-01:15 PM	Break
	Water supply systems as ecosystems (second part)
01:15-01:45	Non-PRASA Biosand Filter and Water Quality Monitoring Studies
	✓ Rajib Sinha, Trihydro Corporation
01:45-02:15	Tools to investigate potential exposure to microbial contaminants from drinking water in rural PR
	✓ Shannon Griffin, US EPA, ORD/NERL
02:15-02:45	Hazardous Chemicals after hurricanes; the experience of Harvey, Irma and Maria
	✓ Carlos Huertas Hernandez, US EPA Region II, US EPA
02:45-03:00	Break
	Thinking outside of the box
03:00-04:00	Panel: Reflecting on Response of Recovery from Hurricanes Irma and Maria
	Case Studies speakers (FEMA, AAA, RCRA, COE, DOH, DOE)
	✓ Anahita Williamson, US EPA Region II - Moderator
04:00-04:30	Final Remarks
04.00-04.30	THU REHUNS

Chris Lyon, Chief of Staff, USEPA Region II



Closing remarks

04:30 -04:40

