



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?

Thursday - 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 Baradagoda, 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*

04:45 -05:00 **First day closing remarks**



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Friday - 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**

10:30-10:45

Break

Water supply systems as ecosystems

10:45-11:30

Monitoring for *Legionella pneumophila*

✓ **Mark W. LeChevallier, Dr. Water Consulting, LLC**

11:30-12:00

Intermittent sand filtration with gravel pre-filtration for household systems

✓ **Rafael Rios Dávila, UPR**

12:00-12:30

Presence of Shiga toxin-producing *E. coli* (STEC) in small potable water systems in PR

✓ **Melitza Crespo Medina, CECIA, IAUPR**

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

✓ **Chris Lyon, Chief of Staff, USEPA Region II**

04:30 -04:40

Closing remarks