

American Institute of Chemical Engineers, Cleveland Section



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Thursday, June 11, 2020



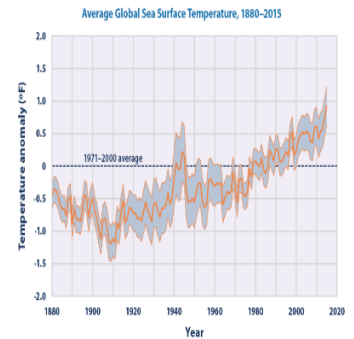
JOSEPH D. ORTIZ

Geology

Professor and Assistant Chair

Campus: Kent

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Data source: NOAA National Oceanic and Atmospheric Administration, 2016. Extended reconstructed sea surface temperature (ERSST.v4). National Centers for Environmental Information. Accessed March 2016. www.noaa.gov/data-access/waterresources/datasets/extended-reconstructed-sea-surface-temperature-erst.



Climate Change Threatens Drinking Water Quality Across the Great Lakes

Warmer waters, heavier storms and nutrient pollution are a triple threat to the Great Lakes cities drinking water. The solution of cutting nutrient releases and installing systems to filter runoff should be implemented. The Great Lakes together hold 20% of the world's surface freshwater that provides drinking water to over 48 million people. The Great Lakes poorest quality was in the 1970's, and the best quality was in the 1990's. Since the 1990's climate change has increased precipitation carrying growing quantities of nutrient runoff into Lake Erie triggering Harmful Algal Blooms (HAB). Infrastructure projects are needed to improve stormwater management and municipal sewer systems. The Cleveland Water Alliance is using smart technologies and improved remote sensing methods to create near-real-time warning systems for HABs to help avert crises.

Dr. Joseph D. Ortiz has training in Aquatic Biology and Oceanography, he works at the interface between sciences unraveling climate mysteries, exploring the relationship between sedimentary strata, and helping to improve water quality using electromagnetic sensing techniques. He is a Fellow of the Geological Society of America, and a member of the Hudson Environmental Awareness Committee.

His primary research interest is in the area of paleoclimate. He studies sedimentary records to extract climate-related information on seasonal to glacial-interglacial time scales. He employs methods ranging from marine micropaleontology to light isotope geochemistry and core & well logging to decipher Earth's climate record.

His expertise lies in Sedimentology, Climate Change, Well Logging Energy/Sector, Water Quality, Environmental Geology, Environmental Well and Core Logging, Climate, Environment, diversity in STEM education, geoscience STEM education, diversity and intercultural dialogue, interconnections of human organizations and social groups.

His affiliations are with the American Geophysical Union (AGU), Oceanography Society (TOS), Geological Society of America (GSA), Sigma Xi (scientific research honor society), American Quaternary Association (AMQUA), National Association of Geoscience Teachers (NAGT), and the Northern Ohio Geological Society (NOGS)

Meeting Location: Zoom venue meeting from your home location, RSVP attendees will receive further information the day of the event (you will receive an email with http Link for your PC, or a meeting ID and password for your Smart Phone from Dr. Ortiz just before the 6 pm June 11 Zoom meeting). During the meeting please mute your microphone so we hear only Dr. Ortiz, and when we begin the question and answer portion of the meeting please enable your microphone for your comments and or questions. Thank you.

Presentation: 6:00 pm – 6:30 pm, Followed by questions and comments

Dining: Take-Out Home Delivery (at your own accord)

Cocktails: BYOB (Bring Your Own Bottle)

Cost: Please download a free Zoom Application from the Zoom website to your PC or Smart Phone and follow attached procedures.

RSVP by Wednesday June 10th with Joe Yurko at j.yurko@sbcglobal.net

