



Algae Bloom, HABs & Toxic Algae Remediation Workshop

September 10-11, 2019

University of Toledo - Nitschke Auditorium/Brady Center, Toledo, Ohio

Join solutions-oriented stakeholders, algae bloom, HABs, toxic algae, red tide researchers, agriculture and commercial remediation technology experts in the US and around the world as they tackle these devastating problems through open collaboration.

Agenda - Tuesday, September 10th

9:00-9:30 Welcome. "Harmful Algal Bloom Research at the University of Toledo"
Thomas Bridgeman, Professor of Ecology and Lake Erie Center, Director

9:30-10:00 "Microcystin toxin (MC-LR) degradation using naturally-occurring bacterial isolates from Lake Erie and its implications for future water treatment practices." Jason Huntley, Ph.D. Associate Professor and BSL3/ABSL3 Director

10:00-10:30 "The Monitoring and Management of Harmful Algal Blooms in Potable Water Supplies and Recreational Lakes in the Mid-Atlantic Region of the United States".
Fred S. Lubnow, Ph.D. Princeton Hydro, LLC

10:30-11:00 Break

11:00-11:30 "Remediating Harmful Algal Blooms & Related Toxins with Non-Invasive OpenCell Foam Technology" Scott Smith, CEO, AquaFlex, Holdings, LLC.

12:00-12:30 "Archaea-based Biomimetic Remediation: The Unexpected Path from Hydrocarbons in Retention Ponds to Algae Overgrowth on Agricultural Irrigation Ponds." Kevin Mirise, Managing Partner, Akaya

12:30-1:00 "All-Natural" Water Treatment System that remediates organic pollutants and more. Josh Mass, Regional Sales, Premier Materials Technology, Inc.

1:00-2:30 Lunch and Networking

2:30- 3:00 "The Commercialization of Nano Bubble Ozone Technology and the Remediation of Algae Blooms." Mike Peelish, CEO, Blue Nano Technologies, LLC

3:00-3:30 "Algae Control without Chemicals For UTILITIES" Devon Assael, VP Sales & Marketing, SonicSolutions, LLC

3:30-4:00 "The Successful Application of Electrochemistry for Algae Bloom Prevention and Remediation" Marco Polverari, VP Business Strategy and Business Development, E2Metrix.

4:00-4:30 "Biological Solution to Aquatic Pollution". Delvia Lukito, Ecological Laboratories, Inc.

4:30-5:00 "Public-Private Partnerships to Advance HAB Prevention, control, and Mitigation." Felix Martinez, Ph.D., Program Manager, NOS/NCCOS/Competitive Research Program, National Oceanic and Atmospheric Administration

Open Discussion and Networking

Agenda - Wednesday, September 11th

9:00-9:30 "Red Tide and Blue Green Algae Blooms: Sustainable Solutions for Agriculture, Industry, Environment, and Economy". Keith Ervin, CEO, Omega Material

Sciences

9:30-10:00 "Microalgae harvesting boat to prevent harmful algal blooms using, plate and frame filter presses with cellulose addition" Dr. Kevin Shurtleff, Utah Valley University

10:00-10:30 "Cost Effective Method to Remove Phosphorus from Water Bodies".

James Gaspard, Biochar Now.

10:30-11:00 Break

11:00-11:30 "On-Site Aerosolization of ALL Algae Blooms - A safe, effective, efficient, immediately deployable, all natural and very cost effective system and method for bloom reduction and management". Kelly Houston, Aerosolization Equity Investments

11:30-12:00 "Controlled Photosynthesis in large waterways" MV Bhaskar, Director, Kadambari Consultants Pvt Ltd

12:00-2:00 Lunch and Networking

2:00-2:30 TBD

2:30-3:00 "Stop HABs at the Source: Closing the Loop on Nutrient Runoff with Shallow Subsurface Soil Spectroscopy". Lamalani Sive, rts, Phd. Student, Biomimicry Fellow

3:00-3:30 "Environmental Balance Device (EBD) Technology offers new hope for long term, scalable, affordable, non-chem prevention and remediation of HABs". David F. Roberts, Pres. (MBA, JD, MAF), Freytech Inc.

3:30-4:00 "Propagation of BioHaven Floating Islands as an Alternative to HABs". Bruce Kania, CEO of Floating Island International and WaterRR

4:00-4:30 "A Simple, Fast and Economical Solution to Harmful Algal Blooms"
Waleed Nasser, Ph.D., Director of Operations, BlueGreen US Water Technologies

4:00 -5:00 Visualization of national data bases of minerals and nutrients using the U.S. EPA Freshwater Explorer

*Agenda to change. First come, first served.

Open Collaboration + Innovation = Algae Bloom Remediation Implementation and Deployment

Areas of discussion:

1. Differences between algae blooms and HAB's
2. Existing Algae Bloom Testing and Monitoring
3. Commercial algae bloom technologies proven outside the lab, scalable and economically feasible.
4. Collaboration opportunities between algae bloom researchers and private industry.
5. Pilot tests and monitoring progress on remediation, dewatering methods
6. Potential co-products made from algae blooms.
7. Current state and federal legislation in the State of Florida
8. Funding available for remediation.

Sponsorship:

\$1500 – Company recognition on NAA's website, membership and advertisements for the Workshop and two attendee passes to the Workshop.

Attendance fee:

\$250 – per person

For further information contact: barry@nationalalgaassociation.com

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