EPA's Webinar on the Draft Recreational Criteria and/or Swimming Advisories for Cyanotoxins

EPA held a webinar on February 15, 2017 to discuss the basic science used in the development of the Recreational Criteria and/or Swimming Advisory for Cyanotoxins released for public comments on December 2016. The webinar also discussed implementation considerations for the criteria, and provided an opportunity to receive feedback from participants. The public comments period has been extended to March 20th. For more information or to review the draft document please visit the criteria website here: https://www.epa.gov/wqc/microbial-pathogenrecreational-water-quality-criteria#swimming

Lake Erie HABs

The University of Toledo published a web based online information database tool for research and studies on Lake Erie HABs. This website sources of information on various Lake Erie HABs-related science and public policy research including: public health, water quality, monitoring, land use management practices, drinking water treatment technologies, policies and regulations, economics, and general related information related to the Lake Erie.

Possible Funding Sources for Managing Cyanobacterial Harmful Algal Blooms and Cyanotoxins in Drinking Water Fact Sheet

On January 2017, EPA published a fact sheet with possible funding sources that can be used to manage cyanobacterial harmful algal blooms and cyanotoxins. These sources include the Safe Drinking Water Act and Clean Water Act revolving funds and other possible funding sources to support drinking water systems in managing risks to drinking water from harmful algal blooms and cyanotoxins.

Inland HABs Discussion Group Webinar

On February 14th, the Inland HABs Discussion Group hosted a webinar on toxin monitoring for HABs in freshwater systems, including a presentation on the Solid Phase Adsorption Toxin Tracking (SPATT) and the Cyanobacteria Monitoring Collaborative. Presentations are posted here.

Updated Sampling Guidance for Unknown Contaminants in Drinking Water

The guidance provides utilities, emergency responders, and laboratories with recommended procedures for conducting routine and baseline monitoring in response to a contamination incident and sampling in support of remediation or decontamination efforts. It covers the collection, storage, preservation and transport of potentially contaminated water samples and provides recommendations for better supporting the detection and identification of many types of contaminants.

This newsletter was created by Dr. Lesley V. D’Anglada, Office of Water, Office of Science and Technology, United States Environmental Protection Agency. For more information, please visit the USEPA's CyanoHABs Website.
HABs, BEACH CLOSURES and HEALTH ADVISORIES, FEBRUARY 2017

**Oregon**: South Umpqua River - Permanent Advisory

## Recently Published Articles

**Eutrophication and Warming Boost Cyanobacterial Biomass and Microcystins**

**Occurrence and State Approaches for Addressing Cyanotoxins in US Drinking Water**

**Spatial and temporal variation in microcystins occurrence in wadeable streams in the southeastern USA**

**Pulmonary and hepatic injury after sub-chronic exposure to sublethal doses of microcystin-LR**

**Engineering *Escherichia coli* to bind to cyanobacteria**

**Characteristics of water obtained by dewatering cyanobacteria-containing sludge formed during drinking water treatment, including C-, N-disinfection byproduct formation**

**Carotenoid glycosides from cyanobacteria are teratogenic in the zebrafish (Danio rerio) embryo model**

**Advanced oxidation processes to remove cyanotoxins in water**

### Useless Resources

- Great Lakes HABs Collaboratory
- 9th Biennial State of Lake Michigan/15th Annual Great Lakes Beach Association Joint Conference Slides
- Climate Change Indicators in the US Report
- NCCOS Phytoplankton Monitoring Network
- EPA Tools and Resources Webinar: HABs

### Toxins Journal Topical Collection

"Freshwater HABs and Health in a Changing World"
Manuscripts on cyanobacterial exposure assessment; health outcomes; outbreak investigations; wild and domestic animal poisonings; toxicology of cyanobacterial toxins in animals and humans, production of toxins in the environment, absorption, distribution, and elimination of toxins in animals and humans, and the control of toxins in the built and natural environment, are invited. Go to [www.mdpi.com](http://www.mdpi.com) and register to login and to submit a manuscript.

To sign up for the newsletter please send an email to Dr. Lesley V. D’Anglada at danglada.lesley@epa.gov