The California Water Quality Monitoring Collaboration Network Announces

Swimmable California Webinar Series

Join the California Water Quality Monitoring Collaboration Network along with Yiping Cao from Source Molecular for the presentation "***QMRA Eligibility: Molecular Source Tracking and Disease Detection***". Please join us on Wednesday March 21, 2018 from 11:30 AM -12:30 PM (PST).

Sponsored by the California Water Quality Monitoring Collaboration Network the goal of this webinar series is to focus on elements that support California's water monitoring and management programs that provide for a ***Swimmable California***. Safe to Swim water quality programs are an important part of ensuring public health while people recreate at the State's many beaches and swimming holes or using these same waters for cultural or subsistence uses. As California's population continues to grow, more people are recreating in surface waters, especially freshwater. Water quality monitoring and management continue to be challenging for many agencies and the webinar series should be of assistance to many groups as they face these challenges. Organizers of this webinar series encourage participants to engage with the California Water Quality Monitoring Council's California Safe-to-Swim Workgroups. Through networking, sharing and building capacity we can work together supporting a swimmable California.

Webinar Topic and Agenda Pages can be found here.

Watch all webinars video recordings in the "Swimmable California Webinar Series" Playlist here.

Topic: QMRA Eligibility: Molecular Source Tracking and Disease Detection

Recognizing sites differ in sources, and that these sources differ in their human health risk, USEPA allows the establishment of site-specific alternative criteria through Quantitative microbial risk assessment (QMRA) provided that the fecal indicator bacteria (FIB) sources at the sites are proven to be predominantly non-human. While microbial source tracking (MST) methods exist to effectively distinguish human vs. non-human fecal contamination, little guidance exists on how to apply these methods in determining QMRA eligibility. This presentation aims to assist in addressing three main issues related to determining QMRA eligibility: 1) interpretation of "predominantly non-human", 2) MST marker and technology choices, and 3) sampling design choices

Presenter: Yiping Cao

Dr. Yiping Cao, Source Molecular's VP of Technology (formerly at SCCWRP) and leading expert on applying molecular technology and statistical modeling for water quality improvement. Dr. Cao works on issues of water quality and resources. She has an extensive background in developing and evaluating microbial source tracking as well as rapid detection for assessing microbial contamination in water. She also specializes in developing and applying statistical and next generation sequencing tools towards the issue of water quality. She has authored over 40 peer review publications and over 800 citations

CWQMCN Communication:

- CWQMCN webinar listserv: www.waterboards.ca.gov/resources/email_subscriptions/swrcb_subscribe.shtml After opening the above web-site, enter your email address and name, click on State Water Resources Control Board - Covering statewide issues, next click General Interests, and then place a check mark next to "Water Quality Monitoring Collaboration Network - Webinar Sessions", then click the "subscribe" button.
- We have set up a webpage for the California Water Quality Monitoring Collaboration Network www.mywaterquality.ca.gov/monitoring_council/collaboration_network/index.html
- We also have a LinkedIn Group, California Water Quality Monitoring Professional Network. This group was formed to facilitate water quality monitoring communication and discussions. www.linkedin.com.
- Watch CWQMCN videos and find video playlists organized by topic at www.youtube.com/cwqmcn.

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