11ᵀᴴ U.S. SYMPOSIUM ON HARMFUL ALGAE

AN INTEGRATED APPROACH TO HABS MONITORING AND ADVISORY SYSTEMS

As the CDC's One Health approach to HAB management encourages a new level of interdisciplinary collaboration, the need for reliable and actionable water quality data has also increased. Resource managers are honing their interests on benthic bloom and nutrient dynamics, while public health officials seek to provide better warnings about bloom events. Learn about how vertical profiling, weather data, nutrient sensing, and predictive analytics combine to better answer research questions and enhance public safety.

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E. J. Neafsey has 20 years of experience in water quality monitoring, analytics, and consulting. He completed his PhD at Cornell University, focusing in part on assessing infrared spectroscopy and chemometrics's usefulness to subaqueous soil survey. His research at the University of Virginia examined the linkages between hydrologic connectivity, water quality, and mangrove health in Southwest Florida. At LG Sonic US, he guides continuous improvement of its predictive analytics suite, transforms customer data into management recommendations, builds stakeholder coalitions, and advocates for environmentally sound water quality stewardship.

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