

A Water Luncheon Seminar



▶ Presented by:
The Water Management Association of Ohio
and
The Ohio Water Resources Center

October 18, 2017; 11:30 - 1:00 p.m.

BYRD POLAR and CLIMATE RESEARCH CENTER,
1090 Carmack Road, Columbus, OH 43210
(\$4 for parking - further instructions and a map will be sent to registrants)



From St. Rt. 315, exit onto Lane Avenue west, left onto Carmack Road, continue straight into parking lot. Use kiosk near footbridge to pay for parking.

Macro- and Micro-nutrient Control of Algal Growth in Great Lakes Aquatic Ecosystems

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The increased frequency and extent of harmful algal blooms (HABs) has sparked the need for greater knowledge about the physical factors that control algal growth. Although primary producers require at least 20 different elements, the vast majority of what is known about nutrient limitation in aquatic ecosystems focuses on just two elements: N and P. Macronutrients (N and P) provide the fuel for algae but micronutrients (e.g., Fe, Mo, Zn) form the enzymatic engines that promote rapid and efficient growth. Using the theories of nutrient limitation and ecological stoichiometry, I can make predictions about the mechanisms of macro- and micro-nutrient limitation under different ambient water quality conditions. I will present data from nutrient manipulation experiments completed in the Great Lakes and neighboring tributaries that demonstrate micro-nutrient limitation in both pristine and human-dominated basins and watersheds. These data demonstrate that a more holistic view of elemental requirements is needed to understand the physical drivers of algal growth in the Great Lakes.

Please register by October 13, 2017. Late or on-site registrations cost \$5 extra and are not guaranteed a meal. For registered engineers who need Professional Development Hours (PDHs), this presentation offers 1 PDH.

WMAO Member (\$15) Nonmember (\$18) Student (\$7) Special meal? _____

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Please send form and check to: WMAO-Luncheon, 8584 E. Washington St. #206, Chagrin Falls OH 44023.

OR, register online with a credit card at: www.wmao.org.