

# THREE COMMON RESERVOIR ISSUES AND COMMERCIALLY AVAILABLE SOLUTIONS



Join us for a discussion on how we are challenged by reservoir aging, specifically regarding nutrients, sediment, and loss of hard habitat, and how commercial solutions are becoming increasingly more available, and through Friends of Reservoirs, we are building partnerships to provide opportunities for grants to try their products in your waterbodies.

## NUTRIENTS

What drives nutrients into a system? How does it accumulate in a reservoir? What are the impacts?

**Speaker David Riedl**, Regional Water Quality Lead- Oase Water Technology's philosophy on nutrient reduction within the water column and at the sediment layer using their Lake Therapy product line.

**Speaker: David Beasley**, Director of Fisheries and Fisheries Biologist at SOLitude Lake Management, covers TryMarine and transforms the food web by decomposing organics, thereby incorporating the muck into the food web.

## SEDIMENT

How sediment turns to muck and creates unproductive waterbodies.

**Speaker: Todd Cruthird**, Cequel 4 of Tyler, Texas, providing insights to excavation of sediments in aquatics systems.

**Speaker: Ryan Sullivan,** BioBase Development and Marketing Manager, providing insights into mapping bottom hardness, vegetation density, topography, and fish usage as a point of pre- and post-project definition.

## **HARD HABITAT**

Working through the challenges of losing complex habitat and addressing the changing perspective of what is a safe choice for longevity.

**Speaker: Larry Beggs/James McFarlane, Reef Innovations Inc,** using molded concrete to supplement reservoir habitat

**Speaker: David King,** CEO Founder of MossBack Fish Habitat, redefining successful artificial habitat production by implementing steps in manufacturing and material makeup.

### **Here are some questions to help you get ready for the workshop:**

1. How many employees in your agency have the sole responsibility of addressing reservoir habitat loss?
2. How many habitat boats/barges does your agency have?
3. Does your agency have the necessary equipment to assist with habitat projects?  
If so, what equipment is available?
  - a. Light to medium-duty tractors or skid steers
  - b. Heavy-duty earth-moving equipment
  - c. Dump trailers
  - d. Etc.
4. What topographic mapping units are available to aid in habitat mapping?
5. What is the primary funding source for habitat work for your agency?
6. What percentage of habitat work is done by agency staff vs independent contractors?
7. What percentage of habitat materials are made by staff vs purchased from a commercial source?
8. Have you personally completed shoreline stabilization projects?
9. Have you personally completed sediment removal projects?
10. Have you personally applied nutrient mitigation techniques?