

# Details about Your Aeration Basin & Clarifier No One Told You About

*Operator Training Course*

Thursday, July 28, 2016

8:00AM – 5:00PM | LeTourneau University, Longview, TX

8 HOURS OF CEU CREDIT FOR WASTEWATER OPERATORS HAVE BEEN APPROVED BY THE TCEQ

Geared for operators and plant personnel, this workshop will focus on lessons learned over the years as well as tricks and techniques that can be used to optimize the operation of aeration and settling basins. Instructors Gary Sober and Mary Evans both have over 30 years experience working in the water and wastewater industry and have extensive experience in operation, optimization, and maintenance of aeration basins and clarifiers. Both Mary and Gary are hold A level wastewater licenses.

## ***FULL AGENDA ON THE FOLLOWING PAGE***

### ***REGISTRATION***

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Op License#: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_

Zip: \_\_\_\_\_ Phone: \_\_\_\_\_

Email: \_\_\_\_\_

### ***REGISTRANT TYPE & PAYMENT***

WEAT member ----- \$85

\*\*Non WEAT member ----- \$135

\*\* Includes one year membership to WEAT

CHECK  MC  VISA  AMEX

CC No.: \_\_\_\_\_

Expiration Date.: \_\_\_\_\_

Name on CC: \_\_\_\_\_

Signature: \_\_\_\_\_



Send registration form with payment to:  
Water Environment Association of Texas  
1825 Fort View Road, Suite 108, Austin, TX 78704  
Phone: 512.693.0060 | Fax: 512.693.0062

**Email: Julie@weat.org**



# WATER ENVIRONMENT ASSOCIATION OF TEXAS

*Preserving & Enhancing the Water Environment of Texas*

WEAT | 1825 Fort View Road Suite 108 | Austin, TX 78704 | 512.693.0060 | [www.weat.org](http://www.weat.org)

## WEAT Training Agenda Information Fact Sheet

Workshop Topic: "Details about Your Aeration Basin & Clarifier No One Told You About"  
Series Number: Part 1  
Credit Hours: 8 hours  
Time: 8:00 AM to 5:00 PM  
Instructors:  
Location: LeTourneau University, Longview, TX

Time	Item
7:30 AM to 8:00 AM	Registration
8:00 AM to 8:15 AM	Workshop Introduction
8:15 AM to 10:00 AM Gary Sober Gary Sober	<ul style="list-style-type: none"><li>• Aeration Basins Introduction</li><li>• Flow/aeration patterns</li><li>• Diffuser types</li></ul>
<b>10:00 AM to 10:15 AM</b>	<b>BREAK</b>
10:15 AM to 12:00 PM Mary Evans Mary Evans Mary Evans Mary Evans Mary Evans Mary Evans Mary Evans Mary Evans	Definition of alkalinity <ul style="list-style-type: none"><li>• Relationship between alkalinity and pH</li><li>• pH (alkalinity) vs. nitrification rate</li><li>• Nitrification activities and pH rates</li><li>• The importance of alkalinity</li><li>• Determining alkalinity needs for facility operations</li><li>• Bio-available alkalinity</li><li>• Hands on alkalinity testing and profiling</li></ul>
<b>12:00 PM to 1:00 PM</b>	<b>CATERED LUNCH</b>
1:00 PM to 2:30 PM Gary Sober Gary Sober Gary Sober Mary Evans	Activated Sludge sampling/process tests <ul style="list-style-type: none"><li>• Settling test: Settleometer</li><li>• Imhoff Cone: Variations and uses</li><li>• Sludge judge</li><li>• Alkalinity/DO profile</li></ul>
<b>2:30 PM to 2:45 PM</b>	<b>BREAK</b>





# WATER ENVIRONMENT ASSOCIATION OF TEXAS

*Preserving & Enhancing the Water Environment of Texas*

WEAT | 1825 Fort View Road Suite 108 | Austin, TX 78704 | 512.693.0060 | [www.weat.org](http://www.weat.org)

2:45 PM to 4:45 PM

Gary Sober  
Gary Sober  
Gary Sober  
Gary Sober  
Gary Sober  
Gary Sober  
Gary Sober  
Gary Sober  
Gary Sober  
Gary Sober

Clarifiers and Settling Basins

- Rectangular clarifiers
- Circular clarifiers
- Lessons learned
- Sampling/process tests
- Flow patterns
- Sludge judging blankets
- Dissolved oxygen
- RAS/WAS
- Foam/scum
- MLSS/MLVSS

4:45 PM to 5:00PM

Mary Evans and  
Gary Sober

Q&A and Discussion

