



## **Greetings from the 2012 Operations Challenge Committee**

The 2012 Texas State Championship will be held in San Antonio at the Henry B. Gonzalez Convention Center. We expect fierce competition as we will only be able to send the top three teams to WEF Nationals which will be held in October 2012 in New Orleans.

Enclosed are the "**RULES AND REGULATIONS**" for this year's competition. Please read the complete packet carefully. If you have any general questions, we will try to answer them for you. Specific details on the competition will be made available to you at the Pre-Competition meeting.

Keep in mind as you prepare for this year's competition that, education, teamwork, pride, and professionalism is what the Operations Challenge is all about. **Be prepared to demonstrate your team spirit, professionalism, and dedication.**

These events are not possible without the dedication of several individuals and all our sponsors. Please be sure to acknowledge the contribution of our sponsors when you see them out and about.

### **New this year: Division III! (See inside for more details)**

If you need any information or if we can assist in any way, please let us know.

Sincerely,

Jeff Sober  
WEAT Operations Challenge Committee Chair  
Cell: (214) 883-6263  
Email: [jsober@carollo.com](mailto:jsober@carollo.com)

Orren West  
WEAT PWO Board Member  
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***OPERATIONS CHALLENGE***  
***April 11<sup>th</sup> & 12<sup>th</sup> 2012***

***PROMOTING EXCELLENCE AND PROFESSIONALISM IN  
WASTEWATER OPERATIONS***

***RULES AND REGULATIONS PACKET***

## **SCHEDULES**

Tuesday:	April 10, 2012		
	8:00 AM - 3:00 PM	Equipment Move-in	Exhibit Hall
Wednesday:	April 11, 2012		
	9:00 AM - 10:00 AM	Pre-Competition Meeting	Convention Center Hall XXXX
	10:00 AM - 11:00 AM	Process Control Event	Convention Center Hall XXXX
	1:00 PM - 3:00 PM	Laboratory Event	Exhibit Hall Competition Area
	4:00 PM - 5:30 PM	Victaulic Exhibition Event	Exhibit Hall Competition Area
Thursday:	April 12, 2012		
	9:45 AM	Team Check In	Exhibit Hall Competition Area
	10:00 AM - 2:00 PM	Maintenance Event	Exhibit Hall Competition Area
		Safety Event	
		Collection System Event	
		(See rotating schedule)	
	2:15 PM - 3:00 PM	Texas Shoot Out	Exhibit Hall Competition Area
	3:15 PM - 3:45 PM	Awards Ceremony	Exhibit Hall Competition Area
	5:01 PM	Equipment Removal	Exhibit Hall Competition Area

## **LOCATION**

Texas Water 2012  
WEAT/AWWA Joint Conference  
Henry B. Gonzalez  
200 East Market Street  
San Antonio, Texas 78206

## **PURPOSE**

To recognize excellence and professionalism in wastewater treatment, operations, maintenance, laboratory, safety, and collection systems personnel.

## **DIVISIONS**

This year there will be two divisions: DIVISION I and DIVISION II. The events for each Division will be exactly the same (same rules, same judging criteria, etc...). Division II allows teams that have no prior knowledge of Operations Challenge to learn about the program.

In general, a Division I team is a team that has prior experience in Operations Challenge. A team is considered Division I if any of the following qualifications are met:

1. The Utility that the Team represents has competed in any Texas Ops Challenge Competition within three years.
2. The Team will compete in all five scored events.
3. The Team is a current WEF Division I team, or has been within the past five years.

Division I teams are required to compete in all of the events. Division I teams are the only teams eligible to go to the WEF Nationals competition in October.

A Division II team is a team that meets the following qualifications:

1. All four competing members have never competed in an Operations Challenge Competition.
2. The Team will compete in less than five scored events.

A Division II team is not required to compete in all the events. A Division II team can choose to compete in any number of events, including only 1 event. A Division II team is not eligible to advance to the WEF National competition. A Division II team can compete with two, three, or four members, plus an optional Coach.

## **NATURE OF THE COMPETITION**

All teams will compete in all events (depending on Division). Each event will be judged and scored separately against established criteria. The scores of all events will be totaled and the champion team will be selected based on the scores. The scores are a weighted average. The scoring system utilized is the same scoring system used at WEF Nationals, regardless of the number of teams competing. The scoring system assigns points from 100 points (first place in an event) to 25 points (last place in an event).

The information below is for general discussion only; the individual data packet for each event sets the actual rules and requirements. Shall any information in this document disagree with the event packet/rules, the event packet/rules will take precedence. Each event is subject to modifications until the day of the event. The event rules will be communicated through the following means:

1. Texas Water Website (Competitions Page)
2. WEAT Website (Operators Page)
3. Emails from Ops Challenge Committee

Five separate competitive events are scored for the Overall prize. These events include:

1. **Pump Maintenance:** The purpose of this event is to test the knowledge and skill of each team to respond to separate and simultaneous "Moisture Reset" failure conditions for a WILO submersible pump and a WILO submersible mixer.
2. **Collection System:** Teams will be required to cut out a section of an 8" PVC sewer pipe with water flowing through it, drill and install a 4" service saddle in the replacement pipe, cut and install the replacement section with couplings. A pipeline condition assessment test is also required.
3. **Safety:** Teams will be required to rescue a downed co-worker from a simulated manhole. Team members will set up a retrieval system, two members will perform a permit required confined space entry, place retrieval harness on the downed co-worker and remove him from the manhole.
4. **Process Control:** Teams will solve problems from up to eight types of operational wastewater technologies. The selected types will be announced at the Pre-Competition Meeting.
5. **Laboratory:** Perform all steps of a BOD analysis using Hach products following all method requirements and aseptic techniques as outlined.

Each event will be timed separately and all team members are expected to participate. Further details, such as supplied equipment specification, equipment to be supplied by competitors, and examples of judging criteria is supplied in each events rules packet.

## **SPONSORS**

This years sponsors are:

### **Event Sponsors**

Maintenance Event	Walter Chiang
Safety Event	Carollo Engineers
Process Control	Freese and Nichols
Laboratory	Hartwell Environmental
Collection Systems	AECOM
Exhibition Event	Victaulic
Texas Shoot Out	Environmental Improvements

### **Platinum Sponsors**

## **AWARDS**

Awards are provided as follows:

### **Overall Champion Team:**

- Opportunity to represent Texas at the National WEF Conference (WEFTEC) in October 2012 in New Orleans, LA.
- Entry fee and travel expenses, paid by WEAT
  - Daily Per Diem, as determined by WEAT
  - Hotels
  - Air Fare
- First Place Trophy Plaque
- Team Jackets

### **Overall Second Place Team:**

- Opportunity to represent Texas at the National WEF Conference (WEFTEC) in October 2012 in New Orleans, LA.
- Entry fee and travel expenses, paid by WEAT
  - Daily Per Diem, as determined by WEAT
  - Hotels
  - Air Fare
- Second Place Trophy Plaque
- Team Jackets

### **Overall Third Place Team:**

- Opportunity to represent Texas at the National WEF Conference (WEFTEC) in October 2012 in New Orleans, LA.
  - Entry fee and travel expenses, paid by WEAT
    - Daily Per Diem, as determined by WEAT
    - Hotels
    - Air Fare
- (If State Operations challenge budget will allow)

**The Awards Ceremony will be held following the events for the day and will be presented in the Exhibit Hall Competition Area.**

**Winners of Each Event:**

- First Place Custom Trophy for the event

**Each Team Member:**

- Commemorative Texas Operations Challenge T-shirt and eight hours of general training credits from the TCEQ.

**ELIGIBILITY (DIVISION I)**

1. A maximum of 6 teams will be accepted for the 2012 competition.
2. Entries will be accepted on a first come first served basis until the maximum is reached.
3. Teams must be composed of no less than four members.
4. Teams must be composed of the same four individuals for all five events.
5. Members of a team may come from the same employer or from multiple employers.
6. Individual team members must meet the qualifications described below.

**QUALIFICATIONS**

Individual team members will be persons actively employed by a responsible operating wastewater entity or its agent, at a facility site on a day-to-day basis. Furthermore, they must be actively employed in the operations/maintenance of the collection system, treatment facility, or laboratory facilities provided for them.

The intent is that team members will be those actually involved in wastewater operations, laboratories, pretreatment, or maintenance functions. Individual entrants will be checked for compliance with this intent.

**JUDGING**

- Each event will be scored by the time required to perform the event, plus timed penalties for procedural and safety violations. The final time, adjusted for penalties, will be converted to a "point" score. The best time for each event is worth 100 points, and the worst time for the event is given a score of 25 points. The points awarded for team finishes between first and last place are based on a weighted average of their score versus the overall difference of the two outlying scores.
- Judges will be trained volunteers from the WEAT membership and sponsors. Judges cannot compete or assist teams. Judges from the same employer as the team or team member will abstain from judging their "home" team.
- Teams will compete concurrently in each event. There will be one or more judges per team per event, with a separate head judge for each event.
- Team captains will be informed of their teams infractions immediately following the completion of their event. However, they will not be told of their overall penalty time. This information will be made available upon written request after the competition.
- Disagreement with a judge's ruling will be handled as follows:  
The team captain will speak with the event judge; any team member wanting to communicate with a judge must do so through his team captain in order to reduce confusion. All team

members except for the Captain are required to leave the event area while a challenge to the judge's decision is being made. Failing resolution with the event judge, a team may petition the Event Coordinator, for the particular event in question to act as an arbitrator. Any protest of the Event Coordinator's decision must be made immediately, in writing to the Chair of the Operations Challenge Committee. Attempts will be made to settle the protest as soon as is practical. There will be a fifteen (15) minute time limit for protest. Protest will not be accepted after fifteen (15) minutes past completion of event being protested. It is requested that throughout this process courtesy and professionalism be extended to all parties involved. Failure to render courtesy to judges and event staff can result in penalty time being assessed to, or disqualification of, the offending team.

## **EQUIPMENT AND SUPPLIES**

The Water Environment Association of Texas and its conference exhibitors will supply all equipment required for the competition except for calculators, tape measures, and personal items such as safety shoes, gloves, safety glasses and hard hats as specified in the specific event rules. The contestants must supply these items.

## **COMPETITION TIMING**

Each team will be allowed 20 minutes for each event from the time the team is scheduled to start. This includes a maximum of 5 minutes, prior to the competition of the event, for the team to make preparations for that event. Teams will be expected to assist event coordinators and judges in resetting the event for the next team as required.

## **VICTAULIC EXHIBITION EVENT**

For the second year in a row, Victaulic has stepped forward to be a major supporter of our Texas Operations Challenge Program. We will hold an exhibition event on the first day of competition after the lab event. The event will be a timed race to see which team can build a piping tree of DIP process pipe in the fastest time. The competition will utilize Victaulic's Style 31 Grooved Fittings. Each Ops Challenge Team will participate by running the event as a team. The event will be judged based on raw time. The lowest time wins.

Awards and prizes will be given to the first, second, and third place teams.

This competition has no bearing or influence on the standard Operations Challenge Competition, and the results are not included in the final scores. This competition is designed to provide a friendly, competitiveness atmosphere among our teams. Victaulic has provided a generous donation to the program for this opportunity.

## **CONTACTS**

<b>Position</b>	<b>Name</b>	<b>Email</b>	<b>Phone Number</b>
Competition Coordinator	Jeff Sober	<a href="mailto:jsober@carollo.com">jsober@carollo.com</a>	(972) 239-9949
Co-Coordinator/PWO	Orren West	<a href="mailto:orren.west@austintexas.gov">orren.west@austintexas.gov</a>	(512) 738-6757
Maintenance Event Coord.	Jared Schmerse	<a href="mailto:jschmerse@cpyi.com">jschmerse@cpyi.com</a>	(972) 365-6266
Laboratory Event Coord.	Mary Evans	<a href="mailto:mevans@premiermagnesia.com">mevans@premiermagnesia.com</a>	(903) 245-6316
Process Control Coord.	David Barker	<a href="mailto:APlusIndustrial2@aol.com">APlusIndustrial2@aol.com</a>	(512) 694-8072
Safety Event Coord.	Mike Young	<a href="mailto:YoungM@trinityra.org">YoungM@trinityra.org</a>	(214) 876-1479
Collection Systems Coord.	Andrew McBride	<a href="mailto:amcbride@saws.org">amcbride@saws.org</a>	(210) 393-6870
Exhibition Event Coord.	John Kauffman	<a href="mailto:jkauffman@victaulic.com">jkauffman@victaulic.com</a>	(512) 627-0885



**WEAT Operations Challenge 2012  
Team Entry Form**

**(Please Type or Print Neatly)**

**Utility:** \_\_\_\_\_

**Team Name:** \_\_\_\_\_

**Team Member/Captain:** \_\_\_\_\_ **DL #:** \_\_\_\_\_

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

**City/State/Zip:** \_\_\_\_\_

**Day Phone #** \_\_\_\_\_ **Email** \_\_\_\_\_

**Team Member:** \_\_\_\_\_ **DL #:** \_\_\_\_\_

**Day Phone #** \_\_\_\_\_ **Email** \_\_\_\_\_

**Team Member:** \_\_\_\_\_ **DL #:** \_\_\_\_\_

**Day Phone #** \_\_\_\_\_ **Email** \_\_\_\_\_

**Team Member:** \_\_\_\_\_ **DL #:** \_\_\_\_\_

**Day Phone #** \_\_\_\_\_ **Email** \_\_\_\_\_

**Optional Coach Designation**

The individual below is designated as "coach" and will receive all mailings sent to the Captain.

**Name:** \_\_\_\_\_ **DL #:** \_\_\_\_\_

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

**City/State/Zip:** \_\_\_\_\_

**Day Phone #** \_\_\_\_\_ **Email** \_\_\_\_\_

**Part 3. Entry Fee**

Enclosed is a team entry fee of \$ **400.00** for each **Division I five member team**. Roster members over five (any stand-by competitors) must pay an extra \$80.00 per person over 5. Please understand that this entry fee does not cover travel or hotel expenses of team members. No teams will be allowed to participate until this fee is paid in full.

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_  
Team Captain/Manager/Supervisor

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

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For WEAT Use Only	\$Received	Date Received	Check #
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**Water Environment Association of Texas  
Operations Challenge 2012**

**This form is required for each team member competing in the Texas Water 2012 Operations Championship.**

I, \_\_\_\_\_, will participate in the Texas Water 2012 Operations Championship competition. I acknowledge that while participating in any and all events, which make up the Operations Championship, I will encounter the risk of injury or accident. I hereby accept and assume all such risks and danger incidental to my participation in the 2012 Operations Championship. I agree that Texas Water 2012, the Water Environment Association of Texas (WEAT), American Water Works Association, Texas Section, Operations Championship Committee, Operations Challenge Sponsors, and any and all suppliers of products and equipment for Texas Water 2012 Operations Championship are not liable for any injuries I may sustain resulting from any and all such risks and danger. I hereby release, acquit and discharge Texas Water 2012, the Water Environment Association of Texas (WEAT), American Water Works Association, Texas Section, Operations Championship Committee, Operations Challenge Sponsors, and any and all suppliers of products and equipment for the Texas Water 2012 Operations Championship from all claims and demands of whatever nature, actions and causes of action, damages, cost, loss of service, expenses and compensations on account of or in any way growing out of personal injuries and/or property damage having already resulted or to result at any time in the future as a result and by reason of my participation in the Texas Water 2012 Operations Championship.

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

Name (Please Print): \_\_\_\_\_

Date: \_\_\_\_\_

**This form must be completed by each team member**

Please bring a copy of this form to the pre-competition meeting.

**Failure to do so will result in disqualification from the event.**

**Water Environment Association of Texas  
Operations Challenge 2012  
T-shirt Order Form**

Team Utility: \_\_\_\_\_

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

Team Member Name (**Please Print**)

T-shirt Size  
(S, M, L, XL, XXL, XXXL)

1. \_\_\_\_\_  
Team Member

\_\_\_\_\_  
Size

2. \_\_\_\_\_  
Team Member

\_\_\_\_\_  
Size

3. \_\_\_\_\_  
Team Member

\_\_\_\_\_  
Size

4. \_\_\_\_\_  
Team Member

\_\_\_\_\_  
Size

5. \_\_\_\_\_  
Coach

\_\_\_\_\_  
Size

Please return completed form with your Team Entry Form and payment to:

Attn: Julie Nahrgang  
Association Manager  
Water Environment Association of Texas  
1825 Fortview Road, Suite 102  
Austin, Texas 78704  
Phone: 512-693-0060 Fax: 512-693-0062  
Email: [julie@weat.org](mailto:julie@weat.org)  
Website: [www.weat.org](http://www.weat.org)