## OPERATIONS CHALLENGE

What's the big deal?



Jackie Jarrell, John Bennett, Jim Borton, and Steve Harrison



## What is Operations Challenge?



## Operations Challenge is the water quality industry's premier professional skills competition



#### Ops Challenge is composed of five separate events







LABORATORY



**MAINTENANCE** 



COLLECTION **SYSTEM** 



**SAFETY** 









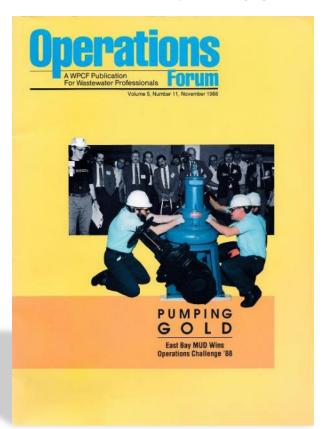


## Now in its 29<sup>th</sup> year at WEFTEC, the concept originated in Ohio

Ohio 1985



WEFTEC 1988



#### Today's characters, um...cospeakers...

John Bennett

Jim Borton



# What do people learn from Ops Challenge?

John Bennett

Trinity River Authority of Texas

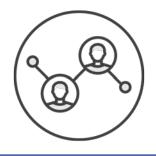
Denton Creek Regional Wastewater System Plant Manager



## What are the benefits of participating in this program?







**Teamwork** 

**Technical Skills** 

**Networking** 







Leadership Development Professional Growth

Recognition and FUN!

#### Leadership / Teamwork Opportunities



As a team member

As a utility employee

As a competition committee member

As a MA member

As a WEF member



### Further Develops Much Needed Technical skills



In their area of focus

### In technical areas within the facility

- Multi-skilled
- Multi-tasking
- Increased communication
- Appreciation

#### In support areas:

- Laboratory
- Engineering / Design
- Pretreatment
- Management
- Regulatory

#### Networking with other Professionals in the Industry









Greater appreciation of the industry as a whole

What we do is: Important, Appreciated, Essential Greater understanding of the challenges we all face

We are not in this alone!

Parts of the world face challenges much greater than ours.

Greater appreciation for our utility

Pride, Appreciation, Dedication



#### History of Professional Growth

- Promotion within the utility:
  - Increased responsibility, leadership, supervision and management
- Numerous current and former competitors have returned to college and now have or are currently working on a degree
- Motivated, knowledgeable, skilled staff, Can you place a price on this?



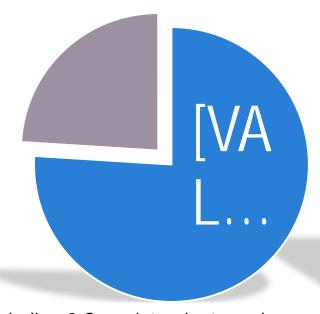
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Class A WW License in Texas are current or former Ops Challenge Competitors

#### **Steve Johnson Jr**

Superintendent of Treatment Plant Operations

Valencia Water Reclamation Plant 60 MGD



Including 2 Superintendents and an Operations Engineer



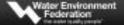
#### Wesley Warren of Hampton Roads Sanitation Districts began competing in 1989



#### Superintendent, Nansemond Treatment Plant

The Nansemond Treatment Plant is designed to clean up to 30 mgd of wastewater per day. The Nansemond Struvite Recovery Facility removes more than 85 per cent of the phosphorus from solids recycle streams and has the capacity to produce more than 450000 kg of Crystal Green fertilizer annually.







#### **Dedication!**



#### **Family Tradition**



#### Recognition and FUN!



#### **Awards Ceremony**

#### Magazine coverage

WEF, MA, TPO, Local News Outlet, YouTube

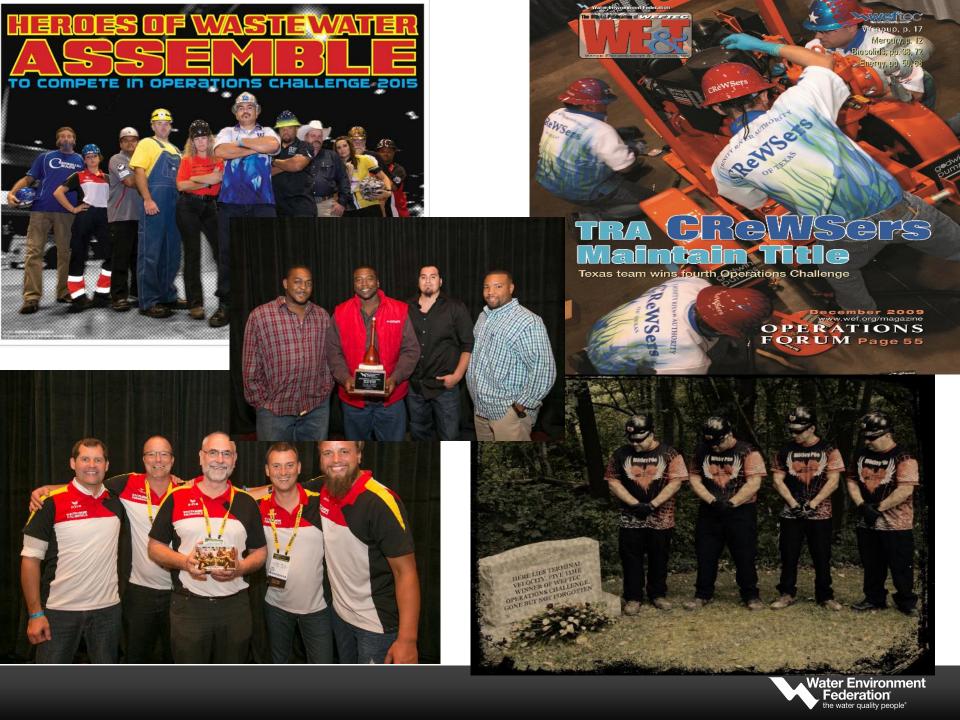
#### **MA** Recognition

#### **Utility Recognition**

#### **FUN!**

What happens at the challenge stays at the challenge...





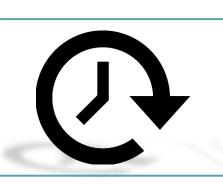
# How do I make this work at my utility?

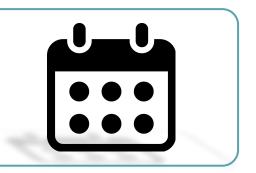
Jim Borton – Ch2m Operations Challenge Committee Chair



## It takes commitment to make this work including lots of practice







Frequency

Time

Schedule

#### Materials and training

- Starting out none?
- Highly competitive
  - Pipe, saws, fittings, sampler and tables
  - Pump and tools
  - Laboratory Instruments/Supplies
  - CSE equipment, platform, valve mock up
  - Lots and lots of process scenarios and now a laptop
- In between operators are very creative…



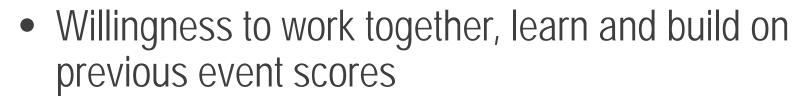
#### **Funding support**

Varies by situation

- On your own to compete at state/MA level
- Some MA's sponsor teams or arrange sponsorships
- Some Utilities allowed to find own sponsors
- Costs?
  - Attend WEFTEC typically about \$7500/team depending

#### Sustainable team

- Coach(es)
- Captain
- 3 additional players
- No age requirements



Able to have fun...



#### The "support team"



- Opportunities for other staff to develop and train while helping the ops team to prepare
- Lab techs train team on lab practices
- Process staff train team on PC calculations
- The team that stays home to keep doing what we do while the competition ensues



#### Choosing a team

- Varies by situation
  - Some all operations
  - Some all mechanics
  - Some all collection staff
  - Some a mix of operations, mechanics, collections and lab staff
- Key is willingness to:
  - put forth the efforts required
  - step out of comfort area and work with new teammates to learn



#### I can't do that...



- Consider this:
  - utility with only 29 total people (Water/Wastewater, Collections and Distribution)
  - Fielded 2 teams to WEFTEC in 2004 each team with coach
  - Left 19 staff at home to cover plants and systems
  - OR regulatory agency sends a team to compete
  - How do I know?
- Team doesn't have to be from same entity, work with neighbors



# How do I start the program In my Member authority?

Steve Harrison
WEF Operations Challenge



## Teams must be endorsed by member associations but there is no mandated selection criteria. Some unique and recommended examples include









Asociación Argentina de Ingeniería Sanitaria y Ciencias del Ambiente









#### What lies ahead?





#### Dave Vogel (left), 2016 - Munich, Germany



#### **Finalist-Operations Challenge**

Application of Content/
Education on the Show Floor

2014











### Operations Challenge... Where will it take you?

