



CONFERENCE PROGRAM

**A REGIONAL TECHNICAL EDUCATION
CONFERENCE OF INDUSTRIAL
OPERATORS AND MUNICIPAL
PRETREATMENT COORDINATORS**

April 10-12, 2018

WYNDHAM INDIANAPOLIS WEST

Conference Center

**Pollution Prevention and New
Technologies in Wastewater Treatment**



Water Quality Protectors



Water Quality Protectors!



Volume 18 Issue 4

IIOA Journal

www.iioa.net

A NEWSLETTER PUBLISHED FOR PROFESSIONALS IN INDUSTRIAL WASTEWATER TREATMENT

IWEA Welcomes Attendees



CHERYL CARLSON
IWEA
MUNICIPAL
PRETREATMENT
COMMITTEE
CHAIR

Greetings and welcome to WITtec 2018 from the IWEA Pretreatment Committee. Through collaboration and knowledge sharing, WITtec provides a forum for connecting people with information. As you enjoy this year's conference, take to time to ask questions and interact with your fellow professionals. You may believe that your issues and challenges are uniquely yours, but more likely than not, someone attending this conference is facing something similar. Learn, grow, and collaborate.

As you think about this year's theme and participate in the many technical sessions, continue to seek opportunities to learn about reducing, eliminating, or preventing pollution. Encourage thinking about things in a new way rather than how it's always been done.

Pollution Prevention and New Technologies in Wastewater Treatment

Welcome to WITtec 2018

We hope you enjoy the Conference this year. We would like to thank our exhibitors, speakers, volunteers and attendees for making WITtec the place where Water Quality Protectors Meet. And thank you for choosing WITtec for your choice of wastewater education opportunities. Our theme

Pollution Prevention and New

Technologies in Wastewater Treatment is bringing timely topics to the attention of our attendees. The courses are full and we hope you find them worthwhile place to earn contact hours and credentials. Everyone is welcome to attend the meet'n greet exhibit hall session and speak with our exhibitors from 4:30—6:30 pm on Wednesday.

As is customary, on Thursday we offer the concurrent sessions (Industrial and Municipal Pretreatment), in which attendees may choose topics of interest and go between the sessions each hour. Please visit with the exhibitors during your breaks as well. The Awards program is at Lunch on Thursday and we would like to congratulate the deserving awardees.



JIM COLLINS
IIOA PRESIDENT

Thursday Luncheon Awards Program—Hall of Champions 2 & 3

The IIOA Industrial Awards program will be held at lunch on Thursday. The Awards Committee would like to congratulate the following Awardees:

2018 Industrial Class D Operator of the Year

Mr. Dwane Smith
Environmental Management Solutions, Inc.

2018 Industrial Operator of the Year 2018 Industrial Plant and of the Year

Mr. Curtis Prater
Perdue Farms, Washington, IN

0.5 T.

Time	APRIL 10 TUESDAY - SCHEDULE OF EVENTS		
Noon	Registration - CONFERENCE CENTER ENTRANCE (West Side of Hotel)		
Golden Ballrms 4-5 2:50 Break	Pollution Prevention Technology and Realities in Industrial Wastewater Treatment		4 T.
	1:00 PM	Reducing Impact on Wastewater Treatment	Jim Collins, Brenntag Mid-South
	2:00 PM	Operation and Filter Press Maintenance A-Z	Scott Hardy, H&T Systems
	3:00 PM	Metal Fin P2; P2 in Food	John Dailey, Brenntag Mid-South
4:00 PM	Pollution Prevention Techniques in Ind WW	Jim Collins, Brenntag Mid-South	
Time	APRIL 11 WEDNESDAY - SCHEDULE OF EVENTS		
7:00 AM	Registration - CONFERENCE CENTER ENTRANCE (West Side of Hotel)		
Golden Ballroom 7 9:50 Break	IWEA - Registered Pretreatment Coordinator Course (RPC)		8 T.
	The IWEA Pretreatment Committee is sponsoring the Registered Pretreatment Coordinators (RPC) Course . <u>All are welcome to attend and earn the 8 hours; however, to earn the credential and lapel pin one must pass the credential exam and have the required experience.</u>		
		Title of Module	Presenter
	8:00 AM	Pretreatment Standards	Tamara Roberts, City of Bloomington
	9:00 AM	Sewer Use Ordinance & Enforcement Resp Plan	Cheryl Carlson, Citizens Energy Group
	10:00 AM	Wastewater Sampling	John Rigdon, Element Materials Tech.
	11:00 AM	Industrial Waste Surveys	Erin Johnson, Connersville Utilities
	NOON	LUNCH INCLUDED - HALL OF CHAMPIONS	
	1:00 PM	Industrial Inspections	Lloyd Lamberton, Evansville Utilities
	2:00 PM	Industrial User Permits	Duane Griner, City of Warsaw
	3:00 PM	Fats, Oils, and Grease	Bill Boetcker, Aqua Indiana
4-5 PM	RPC - Certification Exam	RPC Instructors	
Golden Ballroom 6 9:50 Break 2:50	IIOA - REGISTERED INDUSTRIAL WASTEWATER PROFESSIONAL COURSE (RIWP)		8 T.
	Basic Certification Course. An overview of the basic principles of industrial wastewater treatment.		
		Title of Module	Presenters
	8:00 AM	Introduction	Tom Martin, Delta Chem & Equip
	9:00 AM	Rules and Regulations	Russ Eiler, Allegion
	10:00 AM	Laboratory and Chemistry	Bradley Crowe
	11:00 AM	Chemical Treatment	Russ Eiler
	NOON	LUNCH INCLUDED - HALL OF CHAMPIONS	
	1:00 PM	Physical Treatment	Tom Martin
2:00 PM	Pumps and Instrumentation	Russ Eiler	
3—5 PM	RIWP - Certification Exam	Russ Eiler	

IDEM has approved all Tuesday and Wednesday courses and sessions for technical hours for wastewater treatment contact hours.

Time	APRIL 11 WEDNESDAY - SCHEDULE OF EVENTS		
7:00 AM	Registration - CONFERENCE CENTER ENTRANCE (West Side of Hotel)		
Golden Ballrms 4-5	IIOA - 2018 INDUSTRIAL HOT TOPICS		8 T.
	*A discussion about relevant industrial issues impacting chemical and physical treatments. This session will focus on issues of concern to all industries and includes:		
		Title of Module	Presenter
9:50 Break	8:00 AM	Part 1 Anatomy of a Startup - Current WWT Topics	Jim Collins, Brenntag Mid-South
	9:00 AM	Part 2 WWT Topics - Oxidation Chemistry/Regs Update	Jim Collins, Brenntag Mid-South
	10:00 AM	New Technologies—Microbiocides, Ind. ww	Jeff Long, Buckman Labs
	11:00 AM	Hands On Jar Testing Demo—Removing Pin Floc	Dave Taylor, AT Environmental
	NOON	LUNCH INCLUDED—HALL OF CHAMPIONS	
2:50 Break	1:00 PM	pH Illustrated	Eric Link, Labtronx
	2:00 PM	New Technologies	Ray Graffia, Jr, Arbortech
	3:00 PM	Instrumentation and Testing	Austin Collins, Hach
	4:00 PM	Bioaugmentation—Activated Sludge	Patrick Beamon, Brenntag Mid-South
Golden Ballrms 1-3	IIOA - Industrial Environmental Management Masters Course (IEM-M)		8 T.
	Earn a new Masters Certification and lapel pin in this Masters course that covers advanced aspects of wastewater treatment and pollution prevention.		
		Title of Module	Presenter
9:50 Break	8:00 AM	Rules and Regulations	Russ Eiler, Allegion
	9:00 AM	Stormwater Management	William Boetcker, III Aqua
	10:00 AM	CWA, Clean Air Act	Shane Wingler, Supreme Corp.
	11:00 AM	National Pretreatment Program	William Boetcker, III Aqua
	NOON	LUNCH INCLUDED—HALL OF CHAMPIONS	
2:50 Break	1:00 PM	Pretreatment Inspections	Justin Maxwell, Delta Chem & Equip
	2:00 PM	Hazardous Waste Management	Justin Maxwell
	3-5 PM	IEM-M Certification Exam	IEM-M Instructors
NOON	LUNCH INCLUDED IN SESSION AND COURSES —Hall of Champions #2		
12:00	IIOA Business Meeting - Financial Report, Election of Directors		
1:00 PM	All Technical Courses Continue		
2:50 PM	Break		
4:30 PM	EXHIBIT HALL OPENS (Meet n Greet) Golden Preconvence		

APRIL 12, 2018 THURSDAY – SCHEDULE OF CONCURRENT SESSIONS

(FEEL FREE TO GO BETWEEN SESSIONS) All Hours Technical Except as Noted

TIME	INDUSTRIAL SESSION Hall of Champions 1	PRETREATMENT SESSION Golden Ballrooms 4-5
8:00 AM	The Realities of Water and Wastewater, Jim Collins, IIOA President, Brenntag Mid South—Out in the Field Not in the Books Electronic Manifest Update, Angela Martin, Heritage-Environmental	IDEM/EPA Pretreatment Program Update Natalie Maupin, Pretreatment Coordinator, Office of Water Quality Newton Ellens, Pretreatment Program, US EPA Region V
9:00 AM	Biological Removal, Pat Beamon and Mike Gerardi, Brenntag	Panel Discussion-Lab Results that Don't Make Sense—Now What? John Rigdon Panel Moderator
9:50 AM	Break—Exhibit Hall	Break—Exhibit Hall
10:20 AM	The Legislative Agenda Dr. Bill Beranek, Jr. (General) Indiana Environmental Institute	G
10:20 AM	Panel Discussion-Fats, Oils, and Grease Program Lessons Learned: Bill Boetcker, Aqua Indiana Garth Farley, Biodyne ; Lynn Brabec, City of Elkhart	
11:10 AM	IDEM Update (General) Bruno Pigott, Commissioner, Indiana Department of Environmental Management	G
11:10 AM	Combined Session: Please proceed to the Industrial Session in Golden 1-4 for Bruno Pigott, IDEM Commissioner and his IDEM update.	
12:00 PM	Lunch (included) - Hall of Champions #2 & #3 Awards Program	Lunch (included) - Hall of Champions #2 & #3 Awards Program
1:00 PM	Pretreatment Inspections, Lloyd Lamberton, City of Evansville	Pollution Prevention in the Metal Finishing Industry, Larry Beals, Winona PVD
2:00 PM	How do you know what you need for a Wastewater Treatment Plant Tim Courtney, EPS Wastewater.	Stormwater – Illicit Discharge and Sampling Panel Discussion – Richard Dewitt, Franklin, IN (IWEA Storm Water Committee) and Skipp Kropp, Steptoe and Johnson
2:50 PM	Break—Exhibit Hall	Break—Exhibit Hall
3:20 PM	Compliance with Air Regs Scrubber Water, Clean Air Act and impact on Wastewater Treatment. Guillermo (Gary) Jose Vanegas, VANAIRE	US EPA Criminal Investigations Leonard Merriam, Criminal Investigations Division, US EPA
4:10 PM	Industrial Operator Challenge Teams Compete for Trophy	Municipal Pretreatment Session Ends. Feel free to attend the Industrial Session.
5:00 PM	Session Ends—Turn in signed contact forms at registration desk area.	Session Ends—Turn in signed contact forms at registration desk area.

IDEM has approved all Thursday sessions for technical hours (except as noted above) for wastewater treatment contact hours.

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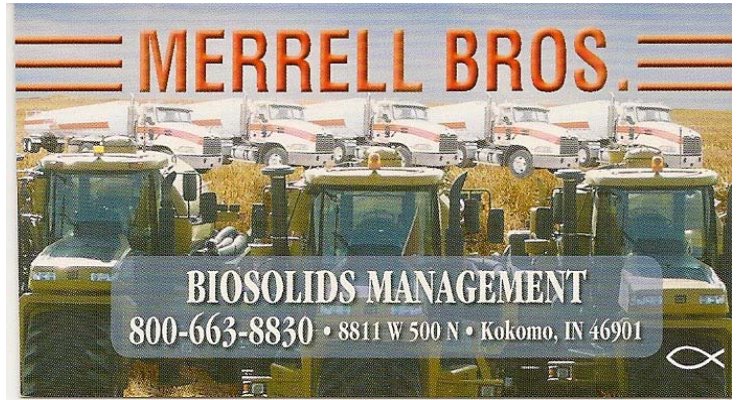
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Wednesday Meet n Greet

Exhibit Hall
Golden Preconvene
4:30 pm—6:30 pm
Join your colleagues for refreshments and drinks.

*Exhibitors listed as of 3/15/2018



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President

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Franklin IN. 46131

Thank you for Attending!!

Concurrent Sessions Speaker Contact Information**Municipal Pretreatment Session**

William Boetcker, III waboetcker@aquaamerica.com

Larry Beals larrybeals@winonapvd.com

Richard Dewitt rdewitt@franklin.in.gov

Newton Ellens ellens.newton@epa.gov

Natalie Maupin nmaupin@idem.in.gov

Leonard Merriam merriam.leonard@epa.gov

John Rigdon john.rigdon@element.com

Industrial Concurrent Session

Jim Collins jcollins@brenntag.com

Mike Gerardi mgerardi@brenntag.com

Dr. Bill Beranek, Jr. inenviro@iquest.net

Bruno Pigott bpigott@idem.IN.gov

Lloyd Lamberton llamberton@ewsu.com

Tim Courtney tcourtney@epswastewater.com

Gary Vanegas gvanegas@vanaire.com

Tom Martin thomasmartin@comcast.net



Delta Chemicals & Equipment, Inc.
Delta Compliance Consultants

Our Team:

Justin Maxwell, Chet Graham, Jeff Graham

Office: Pam Graham

Thomas H. Martin—317.439.8350

President: Martha Martin—317.502-1380

5439 N Acorn Ct, Greenfield, IN 46140

Signup for the Operator Challenge.

Persons desiring to compete in the Thursday 4:00 pm operator challenge should sign-up on the Operator Challenge board in the Registration hall area. As in the past if all the teams fail to answer a question correctly, then the question goes to the audience to the first one holding up the number which is determined by the spotters. If you know the answer—hold up your number right away.

Save the Dates—visit websites for more details

August 15-17, 2018 **IWEA** Annual Conference,

Westin Hotel and Conference Center

September 19, 2018 **P2** Annual Conference, Marriott

North Hotel and Conference Center

April 2-4, 2019 **WITtec**, WYNDHAM Indianapolis West

Hotel and Conference Center—we'll be back next year.

IIOA Awards

If you wish to be considered for an award, then please submit a written request outlining your experience and award to be considered for to:
info@iioa.net

Awards Available for 2019

Industrial Plant and Industrial Operator of the Year

Class D, C, B, or A Industrial Operator of the Year

Environmental Stewardship

Or mail request to:

Indiana Industrial Operators Association, Inc.

Attn: M. Martin, 5439 N. Acorn Ct., Greenfield, IN 46140



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“Do the Math”

The effluent from a treatment plant is 40,000 gpd and contains 0.02 mg/l of Copper. How much copper (pounds/day) is discharged?

A 1,000 ml “jar test” takes 1.2 mls. of mixed polymer solution to make a good settling floc. What (mls/min) should the metering pump deliver if the influent flow into the wastewater treatment system is 25 gpm?

Determine Efficiency

$$\% = \frac{\text{in} - \text{out}}{\text{in}} \times 100$$

Determine the **efficiency** of these systems:

- a. influent = 330mg/l of nickel, effluent = 2.1 mg/l of nickel
- b. influent = 470,900 mg/l of solids, effluent = 170 mg/l of solids

E	F	F	L	U	E	N	T	R	E
C	E	T	T	I	W	I	A	E	S
T	N	A	L	P	T	B	D	A	D
N	X	M	A	R	G	O	S	E	N
A	W	O	A	V	R	U	L	W	U
H	R	T	V	T	I	N	O	I	O
P	E	O	C	D	G	O	F	R	P
E	N	E	A	D	U	L	S	A	P
L	L	R	E	M	Y	L	O	P	H
E	E	L	G	N	A	T	C	E	R

WORD SEARCH: Rectangle, Effluent, EPA, Elephant, Polymer, Fly, Electrode, pH, Pilot, Titrate, Radius, Pounds, IWEA, Gram, NOV, NOI, Plant, ORP, FOG, WITtec

Determine Tank Volume

Gallons = cubic feet x 7.48

Rectangular Tank, cu. ft. = length, ft. x width, ft. x height, ft.

Cylindrical Tank, cu. ft. = 3.14 x radius² ft. x height. ft.

Radius = ½ of the diameter

Calculate the **volume** in gallons of the following tanks:

- a. 25’ long by 5’ wide by 3.5’ deep
- b. 20’ long by 6’ wide by 4’ deep
- c. 120’ diameter by 10’ high



April 2 - 4, 2019



**IIOA WITtec
Committee**

**IWEA Municipal
Pretreatment Committee**

***Chair, Jim Collins,**
Brenntag, Mid-South Inc.

***Jaima Ballentine, HML**

***William Boetcker III, Aqua Indiana**
Debi Coughenour, Registration Manager

***Brad Crowe Sr., VP, IIOA**
Jennifer Eiler, WITtec Photographer
Jim Gibson, IT Manager
Jeff Graham, IT Support Staff
Patsy Gibson, IIOA Staff

***Al Goodman, CDM Smith**
Pam Graham, Exhibit Manager

***Carroll Koch, IIOA**

***Ken Kaufman,**
LSAI Laboratories, LLC

***Anthony Kunkler, Allegion**

***Martha Martin, Business Mgr.**

***Tom Martin,**
Delta Chemicals & Equip., Inc.

***John Sanders, Keihin-IPT**

***Steve Spurgeon, IIOA Treasurer**

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AT Environmental

Jane Wheatley, Harwell Graphics

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Operator Challenge Judges:
***Russell Eiler, Allegion**
***John Wheatley, IIOA**
David Turner, Turner Tech.

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Chair, Cheryl Carlson,
Citizens Energy

Mark Curtis, City of Mishawaka

Erin Johnson, Connersville Utilities
Tamara Roberts, City of Bloomington
Lloyd Lamberton, Evansville Water & Sewer
Bill Boetcker III, Aqua Indiana
Lynn Brabec, City of Elkhart
Manuel Bueno, City of South Bend
Pam Kirklin, New Indy Container Board
Rick Conrad, BWQ Muncie
Duane Griner, City of Warsaw
Larry Keil, City of Goshen
Kevin Kredit, Shelbyville WWTP
Nara Manor, City of Anderson
Natalie Maupin, IDEM
Perry Mincy, City of Elkhart
Tim Orrill, City of Richmond
Becky Ruark, IDEM
Steve Swoveland,
City of New Castle

***Dave Taylor, IIOA & IWEA—Board Member,**
AT Environmental

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Please Complete Credit Form and Get Each Day-Each Hour Stamped and Sign Your Forms

Need your license number? Go to registration desk or www.iioa.net home page under Conference Program to IDEM link.



WASTEWATER OPERATOR/APPRENTICE CONTINUING EDUCATION CREDIT REPORT
 State Form 51139 (R3/4-08)
 INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

To ensure proper credit, the wastewater approval number **MUST** be provided.
 Training Course Approval Number:
 Technical Contact Hours Earned:
 General Contact Hours Earned:

Operator Apprentice

INSTRUCTIONS:
 In accordance with 327 IAC 5-22-17(c), the training provider shall submit this form within ninety (90) days of the completion of the training course to the Indiana Department of Environmental Management, 200 North Senate Avenue, Indianapolis, IN 46204-2251.

- Incomplete forms will be returned to the training course provider for completion and resubmission to IDEM. Participants shall not be allowed to attend future training courses until the current course is completed.

- The training provider shall certify the credit reporting form to the certifying authority.

CERTIFIED OPERATOR/APPRENTICE INFORMATION

1. NAME: _____
 2. ADDRESS (number and street): _____
 City: _____ State: _____ ZIP code: _____ Telephone number: _____
 Work: _____ Home/Cell: _____
 E-mail Address: _____
 Check here if this is an address change

COURSE INFORMATION

3. NAME OF TRAINING COURSE: _____
 4. NAME OF TRAINING COURSE PROVIDER: _____ 5. NAME OF ORGANIZATION SPONSORING COURSE: _____
 6. DATE OF COURSE: _____
 8. TOTAL NUMBER OF CONTACT HOURS ATTENDED BY CERTIFIED OPERATOR/APPRENTICE AND VERIFIED BY INSTRUCTOR AND TRAINING COURSE PROVIDER: _____
 9. CERTIFICATE OF COMPLETION IS REQUIRED FOR ALL ON-LINE COURSES.

10. SIGNATURE OF INSTRUCTOR: _____ 11. PRINTED NAME OF INSTRUCTOR: _____
 12. SIGNATURE OF CERTIFIED OPERATOR/APPRENTICE: _____ 13. PRINTED NAME OF CERTIFIED OPERATOR/APPRENTICE: _____
 14. CONTINUING EDUCATION CREDIT HOURS ARE TO BE APPLIED TO: _____
 Operator certification/apprentice number: _____ Class: _____ Expiration date: _____
 Operator certification/apprentice number: _____ Class: _____ Expiration date: _____

Use one Credit Report for Entire Conference.

Your 2-day Total Conference Hours Here.

Your Signature is required.

WITtec 2018 Wednesday, April 11, 2018 - Stamp Form				
Date	Pretreatment RPC Course/Exam	RIWP Basic Course/Exam	Industrial Hot Topics 2018	IEM-Masters Course/Exam
4/11/2018				
8:00 AM	Pretreatment Standards 1.0 T	Introduction to Wastewater Treatment 1.0 T	Anatomy of a Startup 1.0 T	Rules and Regulations 1.0 T
9:00 AM	Sewer Ordinance & Enforcement Response Plan 1.0 T	Rules and Regulations 1.0 T	Oxidation Chemistry Regulation Update 1.0 T	Stormwater Management 1.0 T
10:00 AM	Wastewater Sampling 1.0 T	Microbiology 1.0 T	New Technologies in Wastewater Treatment 1.0 T	Clean Water and Clean Air Act 1.0 T
11:00 AM	Industrial Waste Surveys 1.0 T	Chemical Treatment 1.0 T	Flames On - Removing Pin Floc 1.0 T	National Pretreatment Program 1.0 T
1:00 PM	Industrial Inspections 1.0 T	Physical Treatment 1.0 T	Removal of Oil & Grease from Wastewater 1.0 T	Pretreatment Inspections 1.0 T
2:00 PM	Industrial User Terms 1.0 T	Pumps and Instrumentation 1.0 T	Instruments & Transforming Data to Knowledge 1.0 T	Hazardous Waste Management 1.0 T
3:00 PM	Fats, Oils and Grease 1.0 T	RIWP Exam 1.0 T	Bioaugmentation - Activated Sludge 1.0 T	IEM-M Exam 2.0 T
4:00 PM	RPC Exam 1.0 T			
Total Hours for Day Wastewater: T 8 G 0 Drinking Water/Engineering - See Registration Desk				
Attendee Printed Name: _____		Attendee Signature: _____		
Maximum Hours for Wednesday = 8 Hours WITtec Verification Signature: _____				
Top copy of IDEM form and Daily Stamp Forms must be left at WITtec Registration when you leave the Conference. No signed forms = No Credit				

Use New Stamp Form Each Day.

