



IOWPA Newsletter

Indiana Onsite Wastewater Professional Association
7915 S. Emerson Ave., Suite 132, Indianapolis, IN 46237
Phone: 317-889-2382 • Fax: 317-889-3935
Email: info@iowpa.org • Website: www.iowpa.org

IOWPA 2012 CONFERENCE & TRADE SHOW

Living with the New Rule ... One Year Later

SUNDAY, JANUARY 29, 2012

- | | |
|----------------|--|
| 4:00 – 6:00 pm | Exhibitor Set-up |
| 5:30 pm | Pizza Party (pre-registration requested) |

MONDAY, JANUARY 30, 2012

- | | |
|----------------|--|
| 6:30 am | Exhibitor Set Up |
| 7:00 am | Registration |
| 7:30 am | Continental Breakfast and Trade Show |
| 8:45 am | Welcome by IOWPA President Dave Sweet
Introduction of Featured Speaker |
| 9:00 am | Filter Basics: What You Need to Know
<i>Theo Terry, Bear Onsite</i> |
| 10:00 am | Trade Show and Break |
| 10:45 am | Pump Installation Principles and Practice
<i>Darren Meyers, Clarus Environmental</i> |
| 12:00 noon | Annual Meeting/Lunch
Awards Presentation
Election of 2012 Board |
| 2:00 pm | Handling System Problems: Filters and Their Use
<i>Matt Byers, Clarus Environmental</i> |
| 3:30 pm | Trade Show and Break |
| 4:00 pm | Conversation on Experiences with Filters |
| 5:15 – 7:00 pm | Past Presidents Dinner at Camp Camby |
| 7:00 pm | Vendor's Reception at Wyndham |

Michigan, Illinois and NGWA CEUs may apply

TUESDAY, JANUARY 31, 2012

- | | |
|---------|---|
| 7:30 am | Registration/Continental Breakfast/Trade Show |
|---------|---|

TRACK 1: New and Important Issues for Indiana Installers

- | | |
|----------|---|
| 9:00 am | Tips & Tricks of the Trade — A vendor show case on the latest and greatest featuring participating exhibitors only! |
| 9:30 am | Break / Trade Show / Door Prize Drawing |
| 10:15 am | Tips & Tricks of the Trade (continued) |
| 11:00 am | Indiana 811: Your Responsibilities as an Excavator |
| 11:30 am | ISDH Review of Experiences with the New Rule/Septic Tank Issues & Concerns |

TRACK 2: Review and Preparation for IOWPA Certification Exam

- | | |
|----------|--|
| 8:00 am | What You Need to Know about Soils |
| 8:15 am | Background: Requirements, Failures, Permits, Separation Distances, Dispersal Areas |
| 9:00 am | Septic Tanks, Distribution Boxes, and Drainage |
| 9:45 am | Break and Trade Show |
| 10:15 am | Subsurface Gravity Feed Systems |
| 11:00 am | Flood Dose Systems |
| 11:30 am | Elevated Sand Mound Systems |
| 12:30 pm | Lunch / Trade Show concludes |

IOWPA Testing

- | | |
|----------------|------|
| 1:00 - 5:00 pm | Exam |
|----------------|------|
- Don't forget to visit www.iowpa.org for the Practice Exam. You can also download a copy of the rule.*

**REGISTER BY
January 24, 2012**

First 75 registrants will be eligible for a drawing to win \$50 cash!

See page 3.

CONVENTION LOCATION:

CAMP CAMBY
10740 E Co Rd 700 S, Camby, IN 46113
317-856-6055

(Directions and map on page 2)

**Attend
IOWPA Conference
and get Pumper Show
full registration for \$30
(at door is \$70)!**

See registration form on page 3.

IOWPA 2012 CONFERENCE & TRADE SHOW

CONFERENCE AND TRADE SHOW:

CAMP CAMBY CONFERENCE AND RETREAT CENTER
10740 East County Road 700 S
Camby, IN 46113
317-856-6055

From I-465 on the SW side of Indianapolis: Take Hwy 67 (Kentucky Ave) south towards Mooresville. About 3-4 miles down Hwy 67 (Kentucky Ave) is Camby Road which is at a stop light. Take Camby Road west about 1 mile. Camp Camby Conference and Retreat Center will be on the north side of Camby Road.



HOST HOTEL OPTIONS:

Wyndham West Hotel (formerly Adams Mark)

2544 Executive Drive
Indianapolis, IN 46241

For Reservations call:
317-248-2481, ext 500.
Ask for IOWPA Rate: \$99
(+ tax) per night up to 4
persons per room.

*The Wyndham West Hotel is
located at the Indianapolis
International Airport.
HURRY— RATE IS BASED
UPON AVAILABILITY!*

Camp Camby

Camp Camby also has 24
motel rooms available.

Contact Vickie at
317-856-6055.

Rates are \$53 S/D, and \$5
for each additional person
up to five people.

EXHIBITORS (as of 12-6-11)

Advanced Drainage Systems
www.ads-pipe.com

Indiana 811
www.Indiana811.org

**Clear Water Environmental
Systems**
www.ClearWaterES.com

Tuf-Tite, Inc.
www.tuf-tite.com

Eljen Corporation
www.eljen.com

**Watermark Engineered
Product Sales, Inc.**
www.watermarkEPS.com

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IOWPA CONFERENCE 2012 REGISTRATION FORM

REGISTER BY January 24, 2012

First 75 registrants will be eligible for a drawing to win \$50 cash!

Please print legibly in black ink. (Insert the No. 1, 2, 3 or 4 below by the different registration options.)

Name/s: 1) _____ 2) _____
 3) _____ 4) _____

Company: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____ Email: _____

Attendees				Pre-register By 1/24/12	On-site	Amount Due	
1	2	3	4				
				Full 2-day (Jan. 30 & Jan. 31) conference registration	\$175 ea	\$200 ea	\$
				Additional registrants from same company – 2 day only	\$120 ea	\$145 ea	\$
				Monday, Jan. 30, only conference registration	\$100 ea	\$125 ea	\$
				Tuesday, Jan. 31, only conference/exam registration	\$100 ea	\$125 ea	\$
				Health Dept. conference registration	\$ 40 ea	\$ 40 ea	\$
				First-time Exam	\$ 50 ea	\$ 50 ea	\$
				Past President's Dinner at Camp Camby, Jan. 30	\$ 25 ea	\$ 25 ea	\$
				Corporate Tables of 8 for Past President's Dinner, Jan. 30	\$185	\$185	\$
				Dues renewal for 2012 – Required (if not paid previously)	\$ 75 ea	\$ 75 ea	\$
				Corporate Dues (recommended for 3+ from same company)	\$175	\$175	\$
				Pizza Party – Sunday, Jan. 29 only	N/C	N/C	N/C
				Pumper Show Registration Special for IOWPA Conference Attendees	\$30 ea (\$70 at door)		\$
Ralph Reed Scholarship Contribution (optional)							\$
TOTAL DUE							\$

PAYMENT INFORMATION

____ Enclosed is a check made payable to IOWPA
 (\$50 fee for returned checks)

____ Credit Card: ____MasterCard ____Visa ____Discover

Card Number _____

Expires _____ 3-digit security code _____

Billing Address _____

City, State, Zip _____

Authorized Signature _____

Mail this form to: Indiana Onsite Wastewater Professional Association
 7915 S. Emerson Avenue, Suite 132, Indianapolis, IN 46237

Fax form to: 317-889-3935

Questions, call 317-889-2382 or email dsheets@inla1.org

New Rule: The passing of the new rule requires all IOWPA certified professionals to take the new certification exam.
 NOTE: If your certification card is current, you do not need to pay the extra \$50 to take the exam. Check status at www.iowpa.org

If for any reason you cannot attend, all registration fees will be considered a donation to IOWPA— a not-for-profit organization.

IT'S THE SOIL

It's not the trench media but the surrounding soil that does the real work of treating wastewater in onsite systems.

By Dennis F. Hallaban, M.S.P.E.

Good onsite wastewater treatment combines proper soils evaluation, siting and installation with a homeowner who will maintain and not abuse the system.

While technology has made significant advancements with new products in lieu of conventional stone aggregate, it is the soil right under our feet that does the real work. As treatment technologies proliferate, it is easy to take for granted that in virtually all systems; natural processes provide the assurance that we protect the public health. Whether we build a conventional septic system or one of the many advanced treatment and distribution systems, the soil is the workhorse.

Elegant simplicity

The most common onsite wastewater treatment system is simply a tank and leachfield. When properly designed and installed, these systems provide highly effective treatment.

Unlike sewerage, which takes water away from the site, onsite treatment relies on the soil's surface area, oxygen-holding pore spaces and abundant life to clean the effluent and return it to the groundwater. It is also a passive system, requiring no outside energy. In our technological world, it can be hard to accept that something can function well without constant attention.

In the onsite profession, it helps to understand that the soil — and not the drainfield media — does the treatment. The media — no matter what kind — is there simply to help distribute the water to the soil. Here is how the soil does its work:

Effluent partially treated by the septic tank is delivered to the leachfield through a piping network. The leachfield consists of individual trenches or a bed, depending on the site and state or local code.

As the effluent enters the leachfield, it is still rich in organic matter that requires treatment. The organic matter is food for microbes ("bugs") that exist naturally in the soil and in the effluent itself. Each tiny particle of the soil has a tremendous amount of surface area on which the bugs can take up residence.

When effluent enters the field, the bugs are happy to be getting all of this free food. As they thrive and multiply, they form what is called a "biomat" at the surface where water infiltrates the soil. The biomat formation is caused by anaerobic bugs (those that live and thrive without oxygen) producing slimes. The biomat slows down the infiltration rate of water into the soil.

Although that may not sound like a good thing, it is! The reduced infiltration rate causes excess effluent to travel down the length of trench, and more biomat forms. The biomat eventually progresses down the length of the entire leachfield. In time, the entire bed or system of trenches is covered by the biomat, and effluent then becomes equally distributed throughout the system.

Once the biomat has formed over the entire bottom surface, water begins to pond in the trenches. This is not the same as ponding on the ground surface that can signal a system failure. It is another natural process that is actually a boon to treatment.

Ponding exposes the effluent to the trench sidewalls — another huge area where water can enter the soil and be treated. As effluent

flow progresses up the sidewalls, a biomat forms on those surfaces, as well.

Does the biomat eventually seal off the soil in the trench bottom and sides? No. The biomat still allows water to penetrate at a characteristic rate, known as the Long Term Acceptance Rate (LTAR) of the soil. When designed properly, drainfields are sized so that they can accommodate the expected flow from the house at the LTAR of the soil.

Soil goes to work

After passing through the biomat, the effluent moves down through soil that is not saturated and therefore contains oxygen. Most of the treatment takes place in this oxygen-rich (aerobic) zone. This is where more efficient aerobic bacteria do their processing work to clean up the effluent.

After the effluent passes through this zone, it has been treated to such an extent that it can be safely returned to the groundwater, replenishing losses from natural drainage and man-made activities.

Many media can be used in leachfield trenches to help apply the septic tank effluent to the soil. Stone aggregate is still widely used because it is abundant and in some areas, inexpensive. Newer media include gravelless pipe, plastic leaching chambers, synthetic aggregate, and bundled pipe.

To decide which medium best serves the site, the designer has to consider the type of soil, system capacity, and special environmental needs. Whether a professional chooses a trench system with gravel and pipe or engineered chambers with no gravel, the goal is to disperse the effluent so that it can infiltrate into the soil and be treated.

All systems change as they mature through time and use. As this happens, the quality and quantity of treatment will change. While systems can operate efficiently for a many years, misuse or lack of maintenance can compromise operation their operation. If that happens, the drainfield may need to be rested or replaced, or an advanced treatment technology could be installed.

Long and reliable life

Some claim that all septic systems are "destined" to clog and fail. In reality, systems that are properly, designed, maintained, and installed, are extremely effective treatment centers that can operate for a very long time.

Maintenance is the key to allowing the soil to continue its work and so extend system life. Because of the way the soil treats water, onsite systems have been and will continue to be the mainstays of wastewater treatment, available to the public where there are no other options, and at a cost no competitive technology can match.

Onsite systems will continue to protect community health. Better science, better understanding of processes, higher standards for installers, updated codes, and more thorough site evaluations will help to raise the bar in this growing field. But whatever else may change, the soil will still be working on our behalf.

Dennis F. Hallaban, M.S.P.E., (dhallaban@infiltratorsystems.net.) is technical director with Infiltrator Systems Inc. of Old Saybrook, Connecticut.

IOWPA CALL FOR 2012 BOARD AND AWARD NOMINATIONS

Board of Director Nominations

If you are interested or would like to nominate someone to serve on the IOWPA board of directors, please submit your nominations by January 15, 2012 or during the Annual Membership meeting on Monday, January 30th at the conference.

Write in candidate/s you would like to nominate:

Nominee's Name: _____

Nominee's Co: _____

Nominee's Name: _____

Nominee's Co: _____

Nominated by:

Name: _____

Company: _____

Fax to: 317-889-3935

**Mail to: IOWPA, 7915 S. Emerson Ave.
Suite 132
Indianapolis, IN 46237**

Volunteer of the Year Nominations

If you would like to nominate someone to win the Volunteer of the Year Award, please submit your nominations by January 15, 2012.

Write in candidate/s you would like to nominate:

Nominee's Name: _____

Nominee's Co: _____

Nominee's name: _____

Nominee's Co: _____

Nominated by:

Name: _____

Company: _____

Fax to: 317-889-3935

**Mail to: IOWPA, 7915 S. Emerson Ave.
Suite 132
Indianapolis, IN 46237**

Questions, call: 317-889-2382 or
email info@iowpa.org
www.iowpa.org

President's Letter

Dear IOWPA Members,

It has been a privilege and an honor to have served you as President. I am pleased about the accomplishments that have occurred over the last year, although I certainly cannot take credit for them. Proper credit belongs to the hard-working, talented and dedicated board and association members!

This past year, we have accomplished the following:

- Started along the right path with the "Train the Trainer" program which will help in County level onsite inspector training.
- Teamed with more County Health Departments that are accepting IOWPA certification.
- Increased our membership.
- Had a successful Summer Field Day program featuring drip irrigation on a non-typical, severe sloped jobsite.
- Offered two scholarships instead of one.
- Held multiple certification sessions at various sites around the State.
- Obtained a booth at the upcoming 2012 Pumper show to further educate specifiers, regulators and installers as well as recruit new membership.
- Put together a stellar, 2-track Winter Conference program for 2012.

As I move from the position of President to Past-President, I am glad this is not farewell, just a change of roles. It is such a pleasure to work with the board and members across the state who care deeply about the health of our environment and the important role onsite wastewater plays. We have many challenges ahead and must continue pursuing advocacy and education efforts toward improving the onsite wastewater industry. I challenge all IOWPA members to take an active role in our organization. Without the willingness of volunteers, we cannot move forward.

I wish you all a Joyous Holiday Season and Happy New Year. If I can be of any assistance to you, please feel free to contact me at admin@iowpa.org or 765.561.7545.

Best regards,

David C. Sweet, McCreary Concrete
President, Indiana Onsite Wastewater Professionals
Association



RALPH REED MEMORIAL SCHOLARSHIP APPLICATION DUE MAY 1, 2012

Application available online at www.iowpa.org or contact the IOWPA office at 317-889-2383.

CALL FOR VOLUNTEERS FOR THE PUMPER SHOW

IOWPA BOOTH • February 28 – March 1, 2012

*Earn up to 2 CEUs toward your IOWPA certification for volunteering.
Pumper Show pass to be included — this will be on a first-come, first-serve basis.*

The Pumper Show is coming to Indianapolis and providing IOWPA with a complimentary booth. We are taking this opportunity to promote “certified professionals” and our membership.

If you are interested in volunteering, please complete the form below with the shifts you would have available. Detailed information will follow soon. Sign up for your preferred shifts and fax by January 15, 2012

Tuesday, February 28:

___ 8:30 to 12 noon ___ 12:00 to 3:00 ___ 3:00 to 5:00

Wednesday, February 29:

___ 8:30 to 12 noon ___ 12:00 to 3:00 ___ 3:00 to 5:00

Thursday, March 1:

___ 8:30 to 2:00

Name _____

Company _____

Email: _____

Cell Phone: (_____) _____

Exhibit Hall Hours:

Tuesday, February 28: 9 a.m. – 5 p.m.

Wednesday, February 29: 9 a.m. – 5 p.m.

Thursday, March 1: 9 a.m. – 2 p.m.

**Fax to 317.889.3935
by January 15th, 2012**

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Or call: **800-473-5298**

INDIANA ONSITE WASTEWATER PROFESSIONALS ASSOCIATION ---- MEMBERSHIP APPLICATION ----

Membership Year: 2012

Member Type:

- Corporate: \$175
- Individual: \$75 (installers, suppliers, etc.)
- Student: \$35
- Health Department: 3 free memberships per county (each additional = \$75)

Note: Student members *must* be enrolled as a full-time student in an onsite wastewater technology related college level course of study. Student member applicants must supply, with their application, a photocopy of their current year full-time student ID card.

Please check the MEMBER CATEGORIES for IOWPA's Directory.

(5 can be listed. List 2 products/services that you provide in the blank spaces.)

<input type="checkbox"/> Academic/Educator	<input type="checkbox"/> Installer	<input type="checkbox"/> Registered Sanitarian	<input type="checkbox"/> Student
<input type="checkbox"/> Builder/Developer	<input type="checkbox"/> Laboratory Services Provider	<input type="checkbox"/> Researcher	<input type="checkbox"/> System Designer
<input type="checkbox"/> Compliance Monitor	<input type="checkbox"/> Maintenance Provider	<input type="checkbox"/> Service Provider	<input type="checkbox"/> System Inspector
<input type="checkbox"/> Consulting Engineer	<input type="checkbox"/> Operation/Maintenance	<input type="checkbox"/> Site Evaluator	<input type="checkbox"/> Tank Manufacturer/Supplier
<input type="checkbox"/> Contractor	<input type="checkbox"/> Operator	<input type="checkbox"/> Soil Evaluator	<input type="checkbox"/> Vendor/Product Supplier
<input type="checkbox"/> Environmentalist	<input type="checkbox"/> Other Interested Party	<input type="checkbox"/> Soil Scientist	<input type="checkbox"/> Waste Transporter
<input type="checkbox"/> Equipment Manufacturer	<input type="checkbox"/> Pumper	<input type="checkbox"/> Soil Tester	
<input type="checkbox"/> Government/Regulatory Official	<input type="checkbox"/> Realty/Mortgage Service Provider	<input type="checkbox"/> Statewide	

Please list the Counties in which you work.

Name & Address Information

Prefix _____ First _____ MI _____
 Last _____ Suffix _____
 Title _____
 Company Name _____
 Address _____
 City _____ St/Prov _____ Zip/Post Code _____
 Telephone _____ Fax _____
 Email _____

Payment Information

Amount Enclosed (US\$) \$ _____ Check Enclosed _____
 (\$50 processing fee for returned payments)

Please complete this form and either fax or mail to:
Indiana Onsite Wastewater Professionals Association, Inc.
 7915 S. Emerson Ave., Ste 132 * Indianapolis, IN 46237
 Phone: 317-889-2382 * Fax: 317-889-3935

Contributions to IOWPA are not deductible as charitable contributions for federal income tax purposes. However, dues payments may be deductible as an ordinary and necessary business expense. Please consult your tax advisor for more information.

INDIANA ONSITE WASTEWATER PROFESSIONAL ASSOCIATION
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CALENDAR OF EVENTS

December 2011

- 8 IEHA WWMC, 1:00 – 3:00 pm at IDEM
- 16 IEHA BOD – ISDH, 10:00 am – 1:00 pm, Dave Sweet
- 31 Membership Dues Deadline

January 2012

- 19 Indiana Soil Classifiers, Camp Camby
- 26 – 27 Indiana LICA Winter Convention
Marriott East, Indianapolis, IN
- 30 – 31 IOWPA Conference, Camp Camby (see pages 1–3)

February 2012

- 27 – 1 Pumper & Cleaner Environmental Expo, Indianapolis
Education: 27th / Show: 28th, 29th, March 1st
www.pumpershow.com

Additional Health Department training opportunities will be posted on the IOWPA website at www.iowpa.org