



IOWPA Newsletter

Winter 2010

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

CONVENTION LOCATION:

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

(Directions and map on page 2)

SPEAKER HIGHLIGHT



Nancy Deal,
North Carolina State University

Ms. Deal is an Extension Associate with NC State University Soil Science Cooperative Extension and an adjunct lecturer with East Carolina University. She develops curricula, delivers training, education and technical assistance regarding decentralized wastewater treatment to homeowners, small communities, onsite professionals and government personnel. Ms. Deal is also engaged in research on system malfunction as related to best management practices (BMPs), fate and transport of nitrate from subsurface systems, and cost estimation of decentralized systems. She holds state and national certifications for subsurface system installation, inspection, operation and maintenance as well as land application of biosolids and surface irrigation system operation.

IOWPA 2011 CONFERENCE & TRADE SHOW

IOWPA Installers Progressing with Secondary Treatment

SUNDAY, JANUARY 30, 2011

- 4:00 – 7:00 PM Exhibitor Set-up
- 6:30 PM Euchre / Pizza Party (pre-registration requested)

MONDAY, JANUARY 31, 2011

- 6:30 AM Exhibitor Set Up
- 7:00 AM Registration
- 7:30 AM Continental Breakfast and Trade Show Opening
- 8:45 AM Opening Remarks and Vendor Introductions — *Dick Blazer, 2010 IOWPA President*
Featured Speaker, *Nancy Deal, North Carolina State University* presents, Secondary Treatment: What It Is and How It Works
- 10:00 AM Trade Show and Break
- 10:45 AM *Nancy Deal continues* — Secondary Treatment Using: Suspended Aeration, Fixed Film Treatment and Combinations
- 12:00 noon Lunch — Annual Member Meeting/ 2011 Election / Volunteer of the Year Award / Continuing Education Update
- 2:00 PM *Nancy Deal continues* — High Strength Waste: What It Is and How to Deal With It
- 3:15 PM Trade Show and Break
- 3:45 PM Model Operating Permit and Maintenance Ordinance, *Dick Blazer, Blazer Farms*
- 4:00 PM Panel discussion: Secondary Treatment Maintenance Experiences: Service Providers, Vendors and Regulators
Facilitator: Zak Sherman, Infiltrator Systems
- 5:00 PM Adjourn to Wyndham Hotel for Past President/Founders Reception & Dinner
- 6:00 PM Past Presidents/Founders Reception and Dinner — L.A. Brown, MC
Recognition of Past Presidents, Founders and Scholarship Recipient, Wyndham Hotel

TUESDAY, FEBRUARY 1, 2011

- 6:30 AM IOWPA 2011 Board Meeting and Breakfast
- 7:30 AM Registration/Continental Breakfast/ Trade Show
- 8:10 AM Welcome
- 8:15 AM ISDH Standards and Publication Update, *Alan Dunn*
- 8:45 AM Overview of Effluent Filters and Tank Connections — *Theo Terry, Bear Onsite; Brad Boyer, Watermark EPS*
- 9:45 AM Trade Show and Break
- 10:15 AM Certification Review: Gravity and Flood Dose — *ISDH Onsite Staff*
NOTE: Attendees interested in Gravity and Flood Dose only, may begin the exam immediately following lunch.
- 12:00 noon Lunch
- 1:00 – 2:00 PM Certification Review: Elevated Sand Mounds and Pressure Distribution — *ISDH Onsite Staff*
NOTE: Attendees interested in Sand Mound and Pressure Distribution may begin the exam immediately following this review session.
- 1:00 – 5:00 PM IOWPA Certification Gravity / Flood Dosed / Elevated Sand Mound / Pressure Distribution

Michigan, Illinois and NGWA CEUs may apply

**REGISTER BY
January 24, 2011**

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

See page 3.

IOWPA 2011 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.

SPONSORS (as of 12-9-10)

McCreary Concrete Products, Inc.

EXHIBITORS (as of 12-9-10)

AK Industries/Hydro Action Mfg
 Ashworth Train
 B&J Plastic Pipe Supply, Inc.
 Bord na Móna Environmental
 Products US, Inc.
 Clarus Environmental
 Clearwater Environmental
 Systems

Elkhart Environmental
 Processing Corp.
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IOWPA CONFERENCE 2011 REGISTRATION FORM

REGISTER BY January 24, 2011

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				Members By 1/24/11	Members After 1/24/11	Amount Due	
1	2	3	4				
				Full 2 day (Jan 31 & Feb 1) conference registration	\$175	\$200	\$
				Monday, Jan 31, only conference registration	\$100	\$125	\$
				Tuesday, Feb 1, only conference/exam registration	\$75	\$100	\$
				First-time exam or Expired certified individuals	\$50	\$50	\$
				Current certified individuals	\$ 0	\$ 0	\$

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

Please check all tests you wish to take:

- 1) ___ All three ___ Gravity ___ Flood Dosed ___ Pressure Distribution & Sand Mound
 2) ___ All three ___ Gravity ___ Flood Dosed ___ Pressure Distribution & Sand Mound
 3) ___ All three ___ Gravity ___ Flood Dosed ___ Pressure Distribution & Sand Mound
 4) ___ All three ___ Gravity ___ Flood Dosed ___ Pressure Distribution & Sand Mound

				Additional registrants from same company – 2 day only	\$120	\$145	\$
				Health Dept. conference registration (no discount for one day)	\$ 40	\$ 40	\$
				Founders/Past President's Dinner at the Wyndham Hotel, Jan 31	\$ 45	\$ 45	\$
				Dues renewal for 2011 – Required (if not paid previously)	\$ 75	\$ 75	\$
				Corporate Dues (recommended for three+ from same company)	\$175	\$175	\$
				Euchre/Pizza Party – Sunday, Jan 30 only	N/C	N/C	N/C

Ralph Reed Scholarship Contribution (optional)							\$
TOTAL DUE							\$

PAYMENT INFORMATION

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

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

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

Fax form to: 317-889-3935

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

THE CHOICES YOU MAKE HAVE LASTING IMPACTS

By Theo B. Terry, III

The passage of new onsite regulations in Indiana means that products are now required that, before, had limited use in your state. One example is effluent screens and filters. These products may be unfamiliar to many of you here in Indiana, but it's important for you to realize that they have over a fifty-year history in our industry, and Indiana actually played a leading role in the early history of filter usage. (To learn more about that history, refer to *It's Only Natural: The Evolution of Effluent Filters*, available at www.bearonsite.com.)

But the focus of this article is to educate you about the difference between filters and screens and to make you realize that you have choices—this component of a well-functioning onsite system is not a “one size fits all” type of product. You must take the time to understand the tools you need to make an informed decision that best serves both you and your customers.

So what kind of choices are we talking about here? To start with, there are multiple levels of filtrations available to choose from, and the various companies serving the industry offer products to fit one or more of these options. Types of filtration can be organized into three distinct categories: secondary strength applications, specialty applications, and ultra filtration applications.

Considering the level of filtration, secondary strength applications are the “workhorses” of this group. Products are in the marketplace with 1/8th", 1/10th" and 1/16th" levels of filtration. Generally speaking, the finer the filtration, the more solids are retained in the septic tank and therefore, the shorter the service interval. Specialty onsite wastewater filtration levels currently available in the marketplace are 1/25th" and 1/32th", and these are for applications that have high concentrations of hair, lint, and FOG (Fats, Oils & Grease). Businesses such as beauty parlors, laundry mats, dog kennels, restaurants, and the newly emerging market of rainwater recycling, need this level of specialty filtration. Ultra filtration products currently available in the marketplace have 1/48th" and 1/64th" levels of filtration. These types of products are needed for applications beyond onsite, and are found as components of systems for water reuse in industrial applications, food production and tertiary treatment applications.

The next choice you have to make concerns flow rating, which in actuality has greater relation to service life of the products than it does to the actual daily flow of effluent through the products. Flow rating of filters is the most misunderstood parameter of all relating to effluent screens and filters. Consider this: if you add up the open area within the smallest of filters, you see that the filter itself has more open flow-through area, than does the 4" septic tank outlet itself. So the *outlet itself* becomes the restriction on flow, not the filter. So what does the flow rating mean? For most filters, the flow rating that the manufacturer has placed on the product is designed to give the user some assurance that based on a certain level of flow the filter will be able to go a reasonable length of time between service calls. Unfortunately, once the first filter manufacturer assigned a flow rating to its product, then other manufacturers utilized a “me, too” system of assigning flow rating to their products. Because the *strength* of waste and not merely the *volume* of water to be passed through the filter is the important parameter, some manufacturers have adopted a sliding chart for the flow rating, based on the strength of waste so that the end user can make a more informed decision when selected the right filter for their particular application. Again, for ordinary usage, the higher the flow rating, the longer the filter will go between service calls and the better value it becomes for the end user. This can be seen by referring to Table 1: Average Five Year Cost to Homeowners (below). As you can see, a few more dollars spent on the front end can save the end-user (the homeowner) substantial dollars in the long run.

Finally, the last choice you must make is which distributor and brand of screens or filters you will trust with your business. Placing effluent filters in onsite systems means that there will be maintenance required for that system. Understanding *how* these products are designed to work will give you a competitive edge over others who do not. Look at the kind of support the distributor *and* manufacturer supply after the sale. What kind of operation and maintenance training do they provide as you are becoming familiar with these products to educate you on what is needed to properly maintain them for the life of the system. Review each manufacturer's product warranty. Because these products

(Continues on page 5.)

TABLE 1: AVERAGE 5 YEAR COST TO HOMEOWNER

	800 - 1000 GPD Filter Models	1200 - 1500 GPD Filter Models	1800 - 2400 GPD Filter Models	2500 + GPD Filter Models
Filter & Installation	\$35 to \$50	\$50 to \$60	\$70 to \$80	\$100 to \$120
Service Call(s) to Clean Filter	3 to 9 at \$75 to \$100 ea	2 to 4 at \$75 to \$100 ea	1 to 2 at \$75 to \$100 ea	0 at \$75 to \$100 ea
Service Call to Clean Filter & Pump Septic Tank	1 at \$250	1 at \$250	1 at \$250	1 at \$250
Average Annual Cost	\$510 to \$1200	\$450 to \$710	\$395 to \$530	\$350 to \$370
First Five Years	\$102 to \$240	\$90 to \$142	\$79 to \$106	\$70 to \$74

The Choices You Make Have Lasting Impacts (continued)

are a permanent part of the system, does the warranty reflect confidence on the part of the manufacturer in the longevity of the product?

Remember, the performance of any job reflects on the performance of your company. That's what is on the line, so take the time to learn about these products, and choose wisely.

About the Author:

Theo Terry is the President/CEO of Bear Onsite, LLC. He holds twelve United States Patents for wastewater products, five of which are for effluent filters with another six pending. He has developed effluent filters for Zabel Environmental Technology, Best Technology, Ring Industrial Group, and now his own company, Bear Onsite. Visit www.bearonsite.com to learn more about effluent filters and his company.



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Brace yourself for higher truck rates
By Mitch Mac Donald, DC Velocity

The cost of a barrel of crude oil moved up a full 1 percent on November 10, 2010, just the latest uptick in a trend that seems to be gaining momentum. That \$1.09 increase brought the commodity's price to \$87.81 a barrel, its highest point in over two years. And the rise will continue. Virtually all indicators point north when it comes to the cost of oil in 2011 and beyond.

In fact, just one day earlier, the U.S. Department of Energy had issued its forecast for both gasoline and diesel fuel for 2011, pegging the former at \$2.97 a gallon—an increase of 20 cents over the average price in 2010 and 62 cents over 2009.

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NEW SONG MISSION TOUCHED BY IOWPA MEMBERS

by Anne Waskom, New Song Ministries

IOWPA reaches out to the communities it serves with its whole heart and willing hands. Over the past few years and also very recently, IOWPA members have changed the face of a future children's home in beautiful Brown County, Indiana. New Song Mission has benefitted greatly from IOWPA members' time and talents. From digging trenches to soil quality tests to manual labor, IOWPA has made itself indispensable to the foundational growth of this important future home for abused and neglected children.



New Song Mission, a Christian not-for-profit organization, is building a campus of homes in beautiful Brown County, Indiana for abused and neglected children. Our homes are not institutional, but traditional family homes nestled in a

neighborhood setting with a future horse barn, a school, and a two acre pond. Each home will consist of house parents, a teacher/mentor, and 6-8 children. In the first phase there will be three homes. Three additional homes will be added in both Phase Two and Phase Three.

L.A. Brown, of LA Brown, Inc., an IOWPA member, has been extremely instrumental in bringing others into the development of the New Song campus. He heard about New Song Mission on the radio as he was driving through our area. Since then he has gotten many professional organizations involved in building New Song, including members of IOWPA.

President of IOWPA, Dick Blazer, has been extremely generous with equipment and the donation of time to projects on the New Song campus. Most recently he was instrumental in developing a drip field. He donated the time of two employees, an excavator, and a skidsteer loader. His donation to New Song equaled more than \$10,000.



Additional IOWPA members were on hand throughout the drip field project:

Soil scientists, Gary Hudson and Randy Staley, provided labor for the installation of the manifolds and drip tubing for the drip field. Scott Rexroth of Clearwater Solutions, was the overseer for the project and created the layout and helped with the installation of tubing for the drip field. L.A. Brown provided labor for 1000ft of the perimeter drain. Jay Ingram provided a backhoe and Dave Wagler helped with labor. Vermeer of Indiana provided a plowing machine and 8500 ft of drip tube. Buchner Distributing of Kokomo and Francisville Tile Company provided 1300 ft of tile with sock for a perimeter drain.

The hand of IOWPA reached out to a future children's home. We are very grateful for the heartfelt donations of time and equipment to establish this special place in Brown County, Indiana. We hope you will visit our campus to see first hand the hard work of your members. For more information regarding New Song Mission and ways to get involved, please visit our website www.NewSongMission.org. Thank you again, IOWPA, for being a champion to kids that need your support!

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UPON REFLECTION...

As a bagpiper, I play many gigs. Recently I was asked by a funeral director to play at a grave side service for a homeless man.

He had no family or friends, so the service was to be at a pauper's cemetery in the Kentucky back-country.

As I was not familiar with the backwoods, I got lost; and being a typical man I didn't stop for directions. I finally arrived an hour late and saw the funeral guy had evidently gone and the hearse was nowhere in sight.

There were only the diggers and crew left and they were eating lunch. I felt badly and apologized to the men for being late. I went to the side of the grave and looked down and the vault lid was already in place. I didn't know what else to do, so I started to play.

The workers put down their lunches and began to gather around. I played out my heart and soul for this man with no family and friends. I played like I've never played before for this homeless man.

And as I played 'Amazing Grace,' the workers began to weep. They wept, I wept, we all wept together. When I finished I packed up my bagpipes and started for my car. Though my head hung low my heart was full.

As I was opening the door to my car, I heard one of the workers say, "I never seen nothin' like that before and I've been putting in septic tanks for twenty years."

Form 1099 Repeal Update

The latest effort to repeal the much-hated health care Form 1099 reporting requirement has failed. On Monday, November 29, the Senate rejected two amendments, offered by Sens. Johanns (R-NE) and Baucus (D-MT) respectively, to the Food Safety reform bill now being debated. The Johanns amendment picked up 61 votes, but 67 votes were needed to prevail since the amendment involved suspension of Senate rules.

Despite the setback, the issue is not dead. There are still opportunities to secure repeal, even this year. One possibility is to get the repeal amendment attached to a bill to extend some of the Bush tax cuts. While action on the tax cuts is not a certainty, it is looking more and more like Congress will approve a short continuing resolution to fund the government for a couple of weeks. This means the repeal effort could have another shot between now and mid-December.

Pumper & Cleaner Show Coming to Indianapolis!

The Indianapolis Convention Center has been chosen as the site for the 2012 Pumper & Cleaner Environmental Expo International. Specific dates are yet to be announced.

Exhibit space will initially be made available at the 2011 Bumper & Cleaner Expo in Louisville, Kentucky.

For more information, visit www.pumpershow.com.



RALPH REED MEMORIAL SCHOLARSHIP APPLICATION DUE MAY 1, 2011

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



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IOWPA and ISDH hold regional trainings in Scott, Knox, Howard and Marshall Counties

More than 250 people attended the four free regional trainings covering the new state rule in December. These were trainings only to update industry on the new rule changes. The IOWPA certification exam will be offered at the conference January 31—February 1, 2011. (See enclosed.)

In order to be currently certified, you must retake the IOWPA exam due to the new rule changes. We would like to thank the following companies for their support of the trainings as luncheon sponsors. We really appreciate their contributions:

- Scott County: S&M Precast, Henryville, IN
- Knox County: Infiltrator Systems, Inc. & Wholesale Drainage Supply
- Howard County: Buckner Distributors, Kokomo
- Marshall County: Huff's Septic & Sewer, Plymouth and Stone Excavating, Plymouth

CALENDAR OF EVENTS

January 2011

30-1 IOWPA Annual Conference, Camp Camby
Visit www.iowpa.org for details.

February 2011

28-1 NAWT Inspector Training
Kentucky Exposition
Center - Pumper & Cleaner
Environmental Expo
Contact: NAWT Office at
(800) 236-6298

TBD NOWRA's 6th Annual Installer
Academy, Louisville, KY
www.nowra.org

March 2011

2-5 Pumper & Cleaner
Environmental Expo, Louisville;
*Pre-Registration rate until
January 28, 2011: \$40/person*
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*Additional Health Department training
opportunities will be posted on the IOWPA
website at www.iowpa.org*