



# Onsite Journal

National Onsite Wastewater Recycling Association

Volume 12, No. 6  
November-December  
2003



- ◆ Wrapping Up a Successful Education Conference & Exposition
- ◆ NEW NOWRA Benefit Programs
- ◆ Messages from EPA

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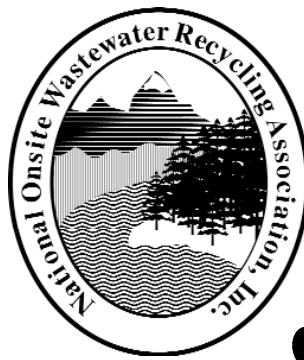
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# Onsite Journal

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# FRANKLY SPEAKING...

by *Tim Frank,*  
*NOWRA President*

**N**OWRA's 12th ANNUAL CONFERENCE AND EXPO is a reality. Our conference committees did a wonderful job to make the conference a success.

NOWRA's Executive Director, Linda Hanifin Bonner, worked diligently to provide the guidance to make all aspects of this conference come together and flow smoothly. Hanifin Associates filled our exhibit hall to overflowing with exhibitors, made arrangements for the pre-conference workshops, handled the monumental task of selecting food for the breaks, snacks, and luncheons. I know this is their job, but I think we all have to agree that our conference was handled professionally and is a great attribute to the onsite industry.

I must also recognize the amount of energy spent by the NOWRA Conference Committee, Brenda Guy and Leann Whitehead. They worked closely with the Tennessee Onsite Wastewater Association to make us feel welcome in their state and to make the conference a success.

The conference, although being specific and directed toward education, didn't slow these two ladies down. It was not all work and no play. They figured out how we could have fun along with learning.

My wife, Lori, tells me that the Spouse/Guest Hospitality Breakfast Reception was enjoyable and relaxing. The type of activity provided allowed for spontaneous conversation that was very informative.

Although I could not attend the annual golf tournament because I was working, I understand that attendance was good and the competition was tough. Once again, Butch handled the event with style. Thanks, Butch for a job well done.

Remember the golf course uses recycled wastewater to water the greens. That is another plus.

The 50/50 raffle and silent auction provided for a change of pace. The golf putting green, provided by Delta Environmental, was very popular and provided a challenge of skill and perseverance.

The pre-conference workshop, CPR FOR ONSITE SYSTEMS, was very well attended. It was organized by Dr. James Converse and Dr. Margaret (Peggy) Minnis. A lot of work and thought went into selecting presenters and I must say that I have had many good comments about this portion of our conference

I want everyone who participated in making our Conference a success to know that their efforts are deeply appreciated. I thank you all.

Model Performance Code Co-Chairs, Michael Corry and Jean Caudill, held the pre-conference workshop for NOWRA's Model Performance Code Committee. This is one of the most important outreach programs that NOWRA has ever undertaken. I am very pleased with the progress the Committee has made and extremely pleased with the comments from the conference attendees regarding the Model Code.

Our State Association Presidents met at the conference. It was decided that a one-hour meeting is not enough time and they are planning to gather for a full-day meeting. Even though the one-hour meeting was too short, a lot of very valuable ideas surfaced and will be acted upon.

The Technical Practices Committee has a new Chairman. It will now be under the guidance of Robert B. Mayer, P.E. We all know Bob as a past president of NOWRA. His committee is working on some new practices of critiquing industry procedures with the goal of developing an installer certification course and manual.

Our Onsite Conference was very well attended. This tells us that more and more people in the onsite industry are interested in the clean water business. This is good because many cities in the United States are at a crisis for good drink-

ing water. The U.S. EPA and NOWRA realize that onsite systems help to recharge our aquifers and replenish our drinking water. The fact that this Conference was well attended shows that you care and you are the reason that we try to get the topics of interest and outreach that provide you with the information to install or repair systems that work. Our soils are a wonderful purification system and when used correctly, will provide us sustainability in the clean water business.

When we try to achieve this, we must also remember that maintenance is the answer, and for the majority of our industry, we are still struggling with what the answer to maintenance is. Let's not undersell it. Let's go for the best possible solutions for saving our onsite business and attainable clean water. You, as an onsite professional, can make this happen.

## One Final Message!

You, as an onsite practitioner, have to get involved. You have to let our NOWRA board know the problems you are experiencing and the information you need to make your business a successful segment of the onsite industry. All of us must keep in mind that when a problem or an obstacle presents itself, we must look at it as a challenge and an opportunity to move forward.



*Tim is president of Tim Frank's Septic Tank Cleaning—a successful business of installing, servicing and managing onsite systems throughout Ohio.*

## A WELCOMING MESSAGE FROM EPA

In expressing her appreciation to NOWRA for the invitation to the 12th Annual Conference, EPA Director (Municipal Support Division) Sheila Frace congratulated NOWRA on its accomplishments in

- establishing prominence as a national spokesman for the industry,
- its leadership role in providing strategic direction (consensus-based strategic planning)
- providing a national forum for exchanging ideas, working out differences, and mobilizing for action,
- promoting and conducting education and training programs to improve the knowledge base of practitioners, and the role it has taken in...
- developing a national framework for the evaluation of treatment technologies which, if successful, should encourage innovation, accountability and better performance of onsite systems within the industry.

Similarly, she brought a message to NOWRA in relating the joint accomplishments of EPA and the industry over the last few years, and shared with the audience the “vision of where we would like to be in a few years, and how we can partner together to reach our goals.”

EPA’s role over the past several years has focused on the development of the Design Manual, Management Guidelines and outreach products. In addition, the agency has supported NOWRA’s work to develop a Model Performance Code; NAWT’s Inspector Training and Education Program; and the State Regulators Network (staffed by NETSC).

### **EPA’s VISION: WHERE WE’RE GOING**

**Vision:** Decentralized wastewater treatment systems are appropriately managed, perform effectively, and are widely acknowledged as key components of our nation’s wastewater infrastructure.

**Key concepts:** EPA is a facilitator, working through partnerships (with national organizations such as NOWRA, NAWT, NEHA, NACo, NACCHO, NESC, RCAP, etc.)

Our program is primarily voluntary. However, we will meet our regulatory responsibilities with regard to illegal surface discharges, systems that come under the UIC program, illegal discharges to storm water collection systems, and other regulated activities.

We will emphasize environmental results. Our goal is improved performance of decentralized wastewater treatment for the purpose of protecting public health and the environment.

EPA’s planned activities for the next three years include:

- *Completing the management handbook.* The agency is currently working on making it user-friendly, and will develop a CD and web-based format;
- *Funding an initiative by NEHA* to develop a series of credentialing programs for various categories of practitioners in the onsite industry;
- *Sponsoring a series of regional forums,* to be hosted by our regional offices, for the purpose of discussing how we can most effectively achieve implementation of the management guidelines at the state and local levels;
- *Aggressively promoting use of the CWSRF* for funding decentralized wastewater systems and management programs;
- *Continuing the efforts to better integrate decentralized wastewater issues* across the various water-related programs at EPA, including NPDES, TMDLs, watershed programs, UIC, etc.;
- *Exploring ways to scientifically document* on the national level the water quality impacts and beneficial results; and
- *Promoting a national discussion* on how to collect data on decentralized systems at the national level, and how to document their water quality impacts under managed and non-managed contexts.

### **HOW WE CAN GET THERE TOGETHER**

EPA is a facilitator or catalyst and we depend on our PARTNERS for actual implementation. Areas where EPA needs the active participation of NOWRA members include:

- Data management (agreeing on minimum data elements, database architecture, roles and responsibilities, etc.);
- Measuring environmental results (incorporating as an element when we undertake demonstration projects, initiate management programs, etc.);
- Implementing management programs at the state level (working at the state level for reform of existing statutes and regulations, for training programs, credentialing requirements, etc.);
- Developing a “report card” to document the progress of states in moving toward implementation;
- Gaining acceptance of the national performance code at the state regulatory level (through consensus-building, promotion through NOWRA affiliates, etc.);
- Leadership strategies (by starting NOWRA affiliates and other organizations, providing a forum for outreach, education and other activities to promote professionalism in the industry).

During her participation at NOWRA’s conference, Ms. Frace encouraged members to share with her their ideas as to how we can better work together to accomplish our common goals. In her closing comments, she stated her desire to continue to work together in the years to come, and requested that NOWRA consider signing on as a formal partner of EPA through a *Memorandum of Understanding*, that would be widely publicized through some national events. With applause of appreciation from NOWRA members, she challenged each of us to actively work in our own local and state settings, and to make a difference toward the implementation of EPA’s management guidelines. ♦

## *Why Do We Do What We*

*Excerpts from a luncheon presentation, made during  
the NOWRA 12th annual pre-conference workshop*

How often are we asked why we do what we do? And how do we try to answer this question others ask of us—or for that matter, one we may often ask ourselves. Our work is tied to an industry that, for over a century, has provided a vital service to a major and growing segment of the population. In the future, the need will continue to grow... for the services and expertise!

Why do we choose to work in an area that has to deal with human waste? We all know where it came from. We know that it contains germs that cause terrible disease and chemical compounds that are hazardous to the environment. Why do we choose to treat human waste using natural systems?—*because this is the most effective means available to treat and renovate.*

Why do we...pursue and nurture a passion for our work?

Because it's the passion for knowledge addressing the elements of our work—the science, engineering, and business of waste management is as deep and hungry a passion for us as for any profession. We constantly strive to improve as others in different professions are driven by the passion to excel.

The athlete is driven by the quest for first place—and to achieve their personal best. They know that achievement requires effort. The long hours of practice, the grueling work-outs help realize that athlete's personal goal; the long hours of practice operating equipment,

designing a facility to serve a specific need, evaluating a plan, developing a new and innovative method to manage and treat waste, or examining a site, help us to achieve our personal best.

The artist is driven by a passion to create and establish a legacy. Long hours in a studio are necessary to nurture this passion to create and express their passion through painting, sculpture, words or music; long hours spent on equipment, at a drawing board (or on a screen with a CAD program), developing a new system, or developing rules and regulations destined to better protect the public and the environment help us create our legacy.

The wastewater profession requires long periods of hard work punctuated by false starts and losses, disappointments, and mistakes. The science, engineering and business aspects of this profession drive us to achieve our personal best, to be creative in our solutions. The moments when we are truly creative in our endeavors, the exhilarating discovery of some new insights leading to improved practice, sustain us as professionals

Advancing the state of practice requires knowledge and knowledge comes with difficulty—through wrestling with ideas or problems until issues focus. Advancing our level of knowledge or state of practice requires constant commitment to the profession and the public we serve.

For those of us who have chosen this profession, there are elements of faith that there is general commitment to

improve the practice and elements of passion and fervor that sustain us all. The commitment to improve reflects the passion to succeed, which in turn sustains us through the petty disagreements prevalent throughout the industry; through the endless red tape necessary to progress; through the encounters with our peers and colleagues who just don't get it (or perhaps just don't care)!!!

We have progressed dramatically since the septic tank was developed at the turn of the 19th century. The 1950s saw tremendous interest in the application of onsite systems to solve housing needs of returning military, the 1970s saw interest in the development of innovative and alternative technologies to solve development needs of a growing population, and now we are involved in efforts to protect water supplies and environmental quality through improvements in system design and management.

If we are to address the challenges facing the industry, several critical tasks remain. Challenges include:

1. Replacing myths, anecdotes, and empiricism with science. Developing a thorough understanding of system performance is essential. Science must be used to describe system performance, not mere observation that some configuration works, but that the performance can be described scientifically. Wastewater characteristics, soil absorption system sizing, system geometry, fate and

transport phenomena...

2. Combining the best of prescription and performance into comprehensive programs. As system function is better described, the potential to continue with prescriptive programs will be maintained and the opportunity to develop performance based programs will be enhanced. Performance based programs will allow designers the freedom to develop systems consistent with needs of specific receiver environments.
3. Developing comprehensive management efforts that allow replacement of the conservative with the progressive. Appropriate management activities for any element of infrastructure are necessary and essential to achieve sustainability.
4. Developing comprehensive standards that promote innovation and appropriate solutions.
5. Developing educational programs for all involved in the profession: the evaluators, installers, operators, and regulators.
6. Enforcing high standards of practice and product quality throughout the industry.

As we leave the conference this week, we must seek to renew efforts to develop consistency throughout the industry; to seek product standards, acceptance criteria, evaluation criteria that are consistent where appropriate, but reflect the differences justified by geography.

The U.S. EPA is committed to assure that well managed onsite wastewater systems remain an essential element of the nation's infrastructure. That statement is

## NOWRA 2003 AWARDS

### BOARD OF DIRECTORS SERVICE AWARD

Appreciation and Recognition for the Commitment to Service as a Member of the NOWRA Board of Directors

- ★ Jack A. Myers – 2000-2003
- ★ Jeff A. Snowden – 2001-2003
- ★ Ronnie Thomas – 2000-2003
- ★ David C. Flagg – 2002-2003

### MERITORIOUS SERVICE AWARDS

Appreciation and Recognition for Providing Meritorious Service to NOWRA

- ★ Brenda Guy – Conference Sponsorships and Fundraising
- ★ Richard J. Otis – Technical Practices Committee Chairman
- ★ James Converse and Peggy Minnis – Education Committee Co-chairs
- ★ Leanne Whitehead and Brian Corwin – Tennessee Local Host Co-Chairs

### NOWRA APPRECIATION AWARDS

For the Valuable Support Provided to the National Onsite Wastewater Recycling Association for the Work of the Model Performance Code and Committee in 2003

- ★ U.S. Environmental Protection Agency – Office of Wastewater Management
- ★ Infiltrator Systems Inc.
- ★ Advanced Drainage Systems (ADS)
- ★ Hancor
- ★ American Decentralized Wastewater Association

### RECOGNITION OF COMMITTEE CHAIRS

Appreciation and Recognition of the Invaluable Service Provided to NOWRA

- ★ Mike Stephens – Communications/Promotions
- ★ Robert Himschoot – Government Relations
- ★ David Linahan – License and Ethics
- ★ Robert E. Lee – Membership
- ★ Tom Fritts – State Association Presidents
- ★ Robert B. Mayer – Technical Practice
- ★ Michael Corry and Jean Caudill – Model Performance Code Leadership

### CONFERENCE SPONSOR APPRECIATION AWARDS

- Platinum* Tennessee Wastewater Systems, Inc.
- Gold* Delta Environmental Products, Inc.
- Gold* Infiltrator Systems, Inc.
- Silver* GeoFlow, Inc.
- Bronze* Advanced Drainage Systems, Inc.
- Bronze* Bord na Móna
- Bronze* Consolidated Treatment Systems, Inc.
- Bronze* Ecological Tanks, Inc.
- Bronze* Goulds Pumps/ITT Industries
- Bronze* NORWESCO
- Bronze* NSF International
- Bronze* Orenco Systems, Inc.
- Bronze* Polylok, Inc.
- Bronze* SJE-Rhombus Controls
- Bronze* Sta-Rite Industries, Inc.



L-R, Winners Jamie League, Larry McElroy, Kevin Kickerson, Mike Clingenpeel

## 2003 GOLF TOURNAMENT WINNERS

The Annual NOWRA Golf Tournament was held at the beautiful Legends Golf Course in Franklin, TN. Participating golfers had a fabulous day

with 82° temperatures and clear

blue skies. Thirty-six golfers participated in the tournament with varying degrees of playing skills.

The novel contest held this year was a “predict your drive” event. Golfers guessed the distance and after driving their ball a person would go to that ball & hold it up and another person with a laser gun would record the distance from the tee. Believe it or not, there were golfers who tied for this contest by coming within one yard of their prediction! Brian McQuestion guessed his drive would go 267 yards—and achieved the distance of 266 yards. David Hall predicted his drive at 196 yards and achieved 197 yards.

Golfers also received towels and other items, compliments of the Tennessee Valley Authority, that were provided by Leanne Whitehead, Conference Host Committee Chairperson.

- LONGEST DRIVE Ryan Fickes, *Hydromatic Pump*
- PUTTING CONTEST Bob McKinney, *River to River Onsite*
- CLOSEST TO THE HOLE Jamie League, *Effluent Collection Supply*  
 Richmond Perry, *EZ Set Tank*

TEAM WITH MOST IMPROVEMENT – *Effluent Collection Supply*  
 Mark Innman, Bob Conard, Mark Lee, Gabriel  
 Score: 72—one over par

BEST STATE TEAM – *Effluent Collection Supply*  
 Bruce Dixon – Randy Wilkins  
 Charles Pickney  
 Score: 71—even par

BEST TEAM NET SCORE – *Effluent Collection Supply*  
 Score: 60—11 UNDER PAR  
 Jamie League, Larry McElroy, Kevin Kickerson, Mike Clingenpeel

**SEE YOU IN ALBUQUERQUE IN 2004!**

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# Conference

**It's Showtime!**  
 NOWRA honors its dedicated members for their invaluable service.



*David Linahan  
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*Tom Fritts  
 State Association Presidents*



*Bob Himschoot  
 Government  
 Relations*



*Peggy Minnis  
 Education &  
 Training*



*Mike Stephens  
 Communications/Promotion*



*Bob Mayer  
 Technical Practices*



*Jim Converse  
 Education & Training*



*Jean Caudill  
 Model Performance  
 Code*



*Dick Otis  
 Technical Practices*



*Mike Corry  
 Model Performance Code*



*Bob Lee, Membership*



*Brenda Guy, honored for her tireless work as Chair of both the 2003 Conference and Fundraising Committees, also accepted the Model Performance Code Award for ADWA.*



*Joyce Hudson, U.S. EPA*



*Shawn Luton, Hancor, Inc.*



*Bryan Chriske,  
 Advanced Drainage Systems*



*Carl Thompson  
 Infiltrator Systems, Inc.*

NOWRA expresses its appreciation for financial support to the Model Performance Code

Activities in the Exposition Hall kept the exhibitors busy...



NOWRA thanks Tennessee Host Committee Chairs Brian Corwin and

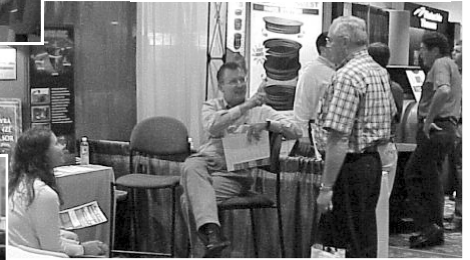


Tom Petty and Brian Borders sell Zabel



The "Easy Sell" style

Tom Murphy, Andrea Arenovski & Rodney Ruskin



Bennette Burks visits Consolidated Treatment Systems



Keynote Speaker Sheila Frace, Director, U.S. EPA Municipal Support Division, delivered a message of EPA's plans and strategies, and requested that NOWRA sign a partnering "Memorandum of Understanding" regarding future endeavors.



Scott Drake chats up a visitor



Leanne Whitehead just "dripping" with excitement



Bruce Dixon & Mark Innman



Mixing business with pleasure...



Tim the Raffle Man



Raymond Peat at the putting green

Brenda Guy yuks it up with Dick Otis at the Awards Luncheon

...and there was FUN!

"Is this real money?"





# Onsite Journal

## COMING NEXT ISSUE:

- 2004 Education & Training Programs
- NOWRA National Legislative Forum
- Year-End Reports and Accomplishments
- State & National Legislative Updates
- NOWRA's 2004 Action Plan
- Membership Recruitment—

## K-RAIN 4000 & 6000 ONSITE WASTEWATER DISTRIBUTING VALVES...

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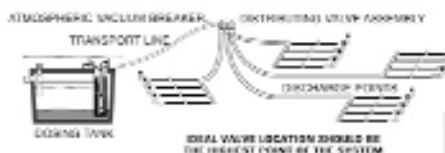
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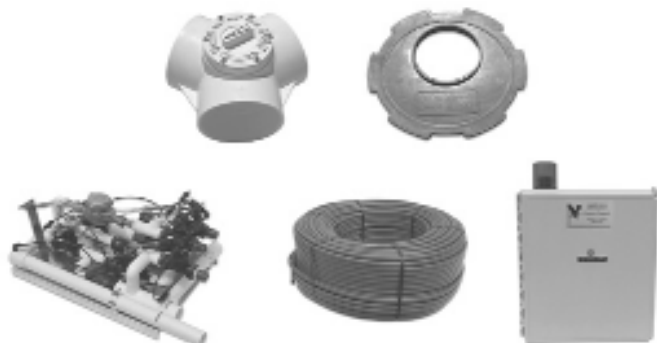
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...provide onsite equipment?  
...install my new system?  
...inspect my system?  
...help me with a design?  
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maintenance?*

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  - ~ **YOUR COMPANY'S CONTACT INFORMATION, 50-WORD PRODUCT OR SERVICE DESCRIPTION, HYPERLINK TO YOUR COMPANY'S WEB SITE**
  - ~ **FREE NOWRA LOGO ART PACKAGE**  
(HELP SEPARATE YOUR COMPANY FROM YOUR COMPETITION! USE IT IN YOUR ADVERTISING, INVOICES, YELLOW PAGES, ETC.)
- **COST: ONLY \$350.00 FOR ALL OF 2004 – LESS THAN \$1 PER DAY!**

*Here's how regulators, builders, homeowners and others learn about your products and services...*

**NOWRA will promote the Locator service in many ways, including:**

- *Placing advertisements, press releases and public service announcements in trade magazines and various publications.*
- *Sending brochures and e-mail notices to county & state agencies, regulators and homebuilder organizations*

\*NOWRA membership required

**SIGN UP NOW!**

*It's as EASY as 1...2...3!*

# NOWRA ONLINE PRODUCT & SERVICE LOCATOR APPLICATION FORM

Complete the form.  
Include all applicable product/  
service information. This form is  
also available at [www.nowra.org](http://www.nowra.org)

Sign the form.  
NOWRA Business Participants  
agree to support the NOWRA  
Code of Ethics.

Send the form with payment  
information via fax or mail to  
the address provided below.

**National Onsite Wastewater Recycling Association**  
**P. O. Box 1270, Edgewater, MD 21037-7270**  
**Phone: 800-966-2942 • Fax: 410-798-5741**

## LOCATOR LISTING INFORMATION – GET STARTED TODAY!

Company Name \*NOWRA Membership #

---

Company Contact

---

Address

---

City State Zip

---

County/Township

---

Region: (check boxes) –  national  northeast  mid-atlantic  
 southeast  mid-west  northwest  
 southwest  other \_\_\_\_\_

---

Phone Fax

---

E-mail Web Site URL:

---

PRODUCTS (include product category and trade names)

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SERVICE

Installer/Contractor (new or repairs/maintenance)  Manufacturer/Supplier  Site Designer/Site Evaluator  
 Service Provider (pumper/maintenance)  System Inspector  Other \_\_\_\_\_

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50-word Description

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**INCREASE YOUR VISIBILITY!** For a limited time, NOWRA will display your company/product logo with your listing at no additional charge. Please attach a copy of your logo to this form or call to make arrangements to send digitally.

PAYMENT INFORMATION  Check Enclosed  Mastercard  Visa


Card Number Expiration Date

---

Signature

---

\*At least one staff member of your company must be a NOWRA member in order to participate. To become

Remember to  
sign the 

National Onsite Wastewater  
Recycling Association  
**Code of Ethics**

November, 2002

**PREAMBLE**

Members of the National Onsite Wastewater Recycling Association (Association) are committed to the highest standards of integrity and professionalism in the onsite wastewater recycling Industry (Industry). They are dedicated to providing quality service, products, education, and research. The members of NOWRA shall uphold this Code of Ethics.

**GENERAL OBLIGATIONS**

Members shall endeavor to know and understand the local, state/provincial, and national statutes, codes, laws, and regulations applicable to the Industry as well as to their own activities. They shall compete honestly and lawfully, building their businesses through their own skills and merits in the Industry. Members shall avoid any act that might promote their individual interests at the expense of the integrity of the Industry, and avoid conduct that might discredit the Industry or deceive others.

**OBLIGATIONS TO OTHERS**

Members shall represent themselves and the benefits of the Association faithfully and honestly with integrity and professionalism. They shall convey their credentials, training, experience, and abilities with integrity and pride. Members shall always seek to enhance the reputation of the Industry with others by the way they communicate and interact. Members shall avoid conflicts of interest through disclosure to appropriate parties.

**OBLIGATIONS TO PROFESSIONALISM**

Members shall strive to maintain and advance their skills and knowledge of the Industry. They will continually seek to improve their own professional expertise by staying informed of scientific and technological developments in the Industry. They shall always seek to advance the integrity of the Industry. Members shall admit and take responsibility for their own errors when proven wrong, and not seek to alter or distort facts in an effort to justify decisions.

*By signing this contract, NOWRA business participants agree to support the NOWRA Code of Ethics.*

Signature

---



# NOWRA 2004 Business Benefit

This benefit package for businesses is truly an exceptional value, but the greatest benefit of NOWRA membership is derived through

**B**uilding on the successes achieved in unifying the onsite industry, NOWRA is moving forward to further strengthen the industry's leadership role. To that end, we are offering an invaluable business benefit program that promotes the products and services of NOWRA onsite industry business members and organizations, and increases their leadership visibility. This partnership will enhance the success of onsite businesses while helping NOWRA fulfill its mission to protect human health and the environment through education.

To help achieve this goal, NOWRA will provide promotional packets for this program for members to use at State Conferences and elsewhere to solicit Business Members.

## Participation Requirements

- Your business must have at least one NOWRA member on staff in order to participate in the program.
- Business must sign a statement subscribing to the NOWRA Ethics Policy.

## Additional Benefits

In addition to the benefits listed for each membership category in the chart below, participating businesses receive:

- A NOWRA Business Membership Plaque
- A large NOWRA logo sticker for posting on an office door or window
- Two similar stickers for display on company vehicles
- Small stickers earned through employee attendance at the National Annual Educational Conference, to be displayed on the Membership Plaque
- A logo for display in your Annual Conference booth for Gold, Silver, and Bronze participants

Business Benefit Packages	GOLD '04		SILVER '04		BRONZE '04		BUSINESS '04	
	Annual Fee	Value	Annual Fee	Value	Annual Fee	Value	Annual Fee	Value
MEMBER BENEFIT			\$6,005			No		No
Additional Subscription(s) to Onsite Journal	\$5,000		\$3,500		\$3,780		\$2,365	
Discount Website Advertising	4	\$80	3	\$60	2	\$40	1	\$20
Website Link + <u>Online</u> Directory participation	Yes	\$350	Yes	\$350	15%		No	
Conference Program Advertising (black & white)	Full Page	\$975	1/2 Page	\$720	Yes	\$350	Yes	\$350
Discount on any size black & white ad in Onsite Journal, or Products & Services Directory	25%	\$1,200	20%	\$700	1/4 Page	\$450	N/A	
Booth at Annual Conference	Yes (2)	\$1,900	Yes (1)	\$950	50% Off	\$475	N/A	
Conference Sponsorship	Gold	\$1,500	Silver	\$1,000	Bronze	\$500	N/A	
% off on additional Employee Full Conference Registrations	25%		20%		15%		N/A	
Products & Services Directory Listing	Yes		Yes		Yes		Yes	
Membership Rates at National Conference for two guests	25%		20%		Yes		Yes	
Discount for all member employees attending non-Conference Continuing Education Programs	25%		20%		15%		10%	
Discount on Exhibit Booth at special education	Yes (x3)		Yes (x2)		15%		N/A	
	Yes				Yes (x1)		No	

# NOWRA 2004 Business Benefit Program Application

Benefit Category     Gold     Silver     Bronze     Business

Company Name \_\_\_\_\_ \*NOWRA Membership # \_\_\_\_\_

Company Contact \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

County/Township \_\_\_\_\_

Region: (check boxes) –     national     northeast     mid-atlantic  
     southeast     mid-west     northwest  
     southwest     other \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

E-mail \_\_\_\_\_ Web Site URL: \_\_\_\_\_

PRODUCTS (include product category and trade names)

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**SERVICE**

Installer/Contractor (new or repairs/maintenance)     Manufacturer/Supplier     Site Designer/Site Evaluator  
 Service Provider (pumper/maintenance)     System Inspector     other \_\_\_\_\_

50-word Description

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**INCREASE YOUR VISIBILITY!** For a limited time, NOWRA will display your company/product logo with your listing at no additional charge. Please attach a copy of your logo to this form or call to make arrangements to send digitally.

**PAYMENT FOR GOLD, SILVER AND BRONZE CATEGORIES CAN BE MADE IN THREE (3) INSTALLMENTS, WITH THE FINAL PAYMENT DUE BY OCTOBER 1, 2004.**

PAYMENT INFORMATION     Check Enclosed     Mastercard     Visa

Card Number \_\_\_\_\_ Expiration Date \_\_\_\_\_

Signature \_\_\_\_\_

\*At least one staff member of your company must be a NOWRA member in order to participate. To become

## National Onsite Wastewater Recycling Association Code of Ethics

November, 2002

**PREAMBLE**

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*By signing this contract, NOWRA business participants agree to support the NOWRA Code of Ethics.*

Signature \_\_\_\_\_

***As a Gold, Silver, Bronze or Business Member, your company's products or services are automatically included in NOWRA's Online Locator Directory***



# EPA Sends Mixed Messages about Residential Cluster Systems and Commercial Onsite Treatment

An important observation made during NOWRA's recent Annual Conference in Nashville, Tennessee, is that the onsite industry is beginning to understand the need for installed system maintenance, and that the U.S. EPA *Voluntary Management Guidelines* provide a menu of options to achieve it. The excellent presentations from EPA's Joyce Hudson, Steve Hogye and Rod Frederick about the EPA programs and the need for system management supported this message during the well attended sessions by conference participants. There was, however, another presentation that requires all of us in the onsite industry to take notice!

U.S. EPA Region IV staff delivered a message on the Underground Injection Control (UIC) program. It was the statements about the standards within this program that brought NOWRA to immediate action. The bottom line is that because of the requirements placed within these standards, they can become so strict that they could potentially eliminate the use of residential cluster systems and the ability of schools, restaurants, rest stops, multifamily housing and the like to use onsite subsurface treatment systems.

Major points by the UIC program staff:

- The UIC program classifies onsite systems as injection wells if they serve two or more private homes or any other occupancy designed for 20 or more people.
- The rules require that all covered well systems need to meet performance standards at the last point where samples can be obtained—at the d-box—and that the effluent performance standards are zero total coliform and 10 mg/l nitrate.
- Regional and state UIC programs have discretion to interpret the law and to require stricter standards and reporting

requirements.

- All UIC systems need to be registered either with the EPA regional office or an approved state UIC program.
- The office with authority will issue a certificate authorizing the system as permitted by rule. The permit by rule could be withdrawn for failure to comply with a requirement, or at the discretion of the regulating agency if there were reason to believe the system would endanger the drinking water supply. In that case an individual permit would be issued with stricter administrative requirements.
- **SPECIAL NOTE:** The Region IV staff publicly acknowledged that, "all covered onsite systems currently fail to meet these standards."
- **NOWRA's response:** "These performance standards are practically unachievable by natural treatment systems, and further—they ignore the soil as a media commonly used to treat both onsite wastewater and storm water!"

NOWRA wasted no time in addressing the alarm expressed by attendees. The week immediately following NOWRA's conference, a discussion occurred between the U.S. EPA Wastewater program staff, UIC staff and Mike Corry, Model Performance Code committee chairman, representing NOWRA. The November 18th teleconference resulted in the following position statements.

## U.S. EPA

1. The rules were primarily designed for UIC wells that injected hazardous materials that are not treated by the soil. Therefore, the requirement of meeting standards at the d-box is appropriate.
2. Application of the standard at the d-box for contaminants capable of

being treated in the soil may be inappropriate. Further that UIC rules can be interpreted in guidance to provide for a different enforcement point for soil based treatment systems and that the EPA will issue guidance to that effect.

## NOWRA Representative Mike Corry

"While this guidance is useful in the short run, in the long term, these regulations must be modified to clearly reflect the intent."

NOWRA's Board of Directors fully supports the position that interpretation needs to be accompanied by a code revision, especially with 40 states interpreting the UIC regulations differently in their own ways. Leaving the standards subject to changeable and challengeable interpretation is not a stable base to regulate the important onsite treatment industry.

NOWRA is requesting additional discussions on this matter with the U.S. EPA Administrator and staff to address an approach to resolving this problem. An update on this matter will follow in the January/February *Onsite Journal* issue.

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# AN IMPORTANT MESSAGE TO OFFICERS AND DIRECTORS OF ALL NOWRA STATE CONSTITUENT GROUPS AND NON-MEMBER STATE ASSOCIATIONS

## *Membership Recruitment and State Group Benefits*

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On December 4, 2004, the NOWRA Board of Directors formally adopted and launched an aggressive Membership Recruitment and State Group Revenue Development Program. This Program is designed to provide essential membership benefits and revenue gains to both the National and State organizations. It includes the following items.

☞ **An Innovative Business Services & Products Locator**— on NOWRA and State websites, exclusively designed to promote NOWRA small business members whose membership is in good standing (must have one member within the company). It will be online in February, 2004.

- The purpose of the Services Locator is get information out to communities, homeowners and regulators, about the services and products offered by companies and businesses within their regional area. Businesses will also be required to sign NOWRA's Ethics Statement.

☞ **STATE GROUPS** are requested to support this aggressive marketing and membership recruitment program, by mailing special brochures (provided by NOWRA) to all onsite industry companies within their states, and heavily advertising this information in their publications. Brochures and generic copy will be provided in time for all state meetings.

- **FOR EVERY BUSINESS SIGNING ONTO THE LOCATOR, NOWRA WILL GIVE A 10% REBATE TO THE STATE IN WHICH THE APPLICATION ORIGINATES.**
- Since this program requires the business to have a current NOWRA membership, States marketing this program have the opportunity to both secure new members and obtain additional revenues. A "Win-Win" for all!
- State Groups participating must have their 2003 membership fees fully paid.

☞ **A 2004 National Business Benefit Package Program**— directed to larger companies, offers valuable savings to participate in NOWRA's marketing and promotion of the Onsite Industry's members and their work.

- **FOR COMPANIES SIGNING A CONTRACT FOR THE 2004 BUSINESS BENEFIT PROGRAM, NOWRA WILL GIVE THE STATE GROUP IN WHICH THE BUSINESS IS LOCATED A BONUS FEE OF \$150.00 (Gold), \$100.00 (Silver), \$50.00**

(Bronze). (Since each of the business plans includes access to the website services locator, the 10% rebate does not apply).

- State Groups participating must have their 2003 membership fees fully paid.

In addition, NOWRA offers to State Member Groups the following Services to support their program efforts.

☞ **Website Links and Hosting**

NOWRA will provide to State Member Groups a link and hosting service at no charge. This benefit results in considerable savings to NOWRA State Groups for use in other program endeavors.

☞ **State "Directors and Officers" Liability Insurance**

State Groups can obtain an insurance policy that safeguards officers and directors with protection affecting the financial management of their organization. This program can be offered through NOWRA's existing policy as an independent certification.

- State member groups should contact the headquarters office with information on preparing the application form.

☞ **Membership Management Services**

The NOWRA headquarters office will provide membership invoicing and database services for State Groups at a negotiated fee.

- A separate agreement will be established, with funds sent quarterly to the participating state group. State groups will have a separate code through the website to access their updated membership database. This offer gives States the opportunity to use its valuable resources for additional program efforts.

☞ **Legislative Program Support**

The Onsite Industry is facing numerous challenges within respective states. The NOWRA Legislative Committee is available to support state member groups in organizing to prepare statements to public officials and drafting legislation. A primary need within many states is the requirement for continuing education.

- NOWRA is planning a major 2004 Legislative Forum this spring in Washington, D.C. We will be contacting all State Group officers to participate in the action plan to contact their senators and congressional representatives. In the interim, NOWRA also needs to know about

# 2004 CALL FOR PAPERS

## NOWRA's 13th Annual Technical Education Conference and Exposition

NOWRA welcomes all industry representatives to submit proposals for papers to be presented at the Annual Technical Education Conference in Albuquerque, N.M. All papers accepted will be included in the Proceedings distributed to conference participants and be available for sale. Individuals making presentations *must provide a paper for the proceedings*. Alternate selections for the respective sessions will also be identified. Education session topics include, but are not limited to the areas listed here.

Proposed papers are given consideration only if the materials requested in this form are delivered complete and in a timely way. E-mailed or faxed submissions are acceptable, with details provided in the following format *and produced in a Microsoft Word or WordPerfect document*.

**E-mail to:** [nowra@hanifin.com](mailto:nowra@hanifin.com); **Fax to:** 410-798-5741;

**Mail to:** NOWRA, P.O. 1270, Edgewater, MD 21037

**DEADLINE: Abstracts cannot be accepted after March 30, 2003.**

*Please complete the sections below and on the reverse side.*

### Topics include, but are not limited to:

Nutrient – projects and research

Planning

System and Operations Design

Innovative Programs

Regulatory and Legislative

Technical Systems

Operations and Maintenance

Management

Communications & Public Information

Other Areas

*This form is available for download from NOWRA's website: [www.nowra.org](http://www.nowra.org)*

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Proposed Paper Title

---

Relevant Topic Area

Length of Presentation (25 minutes or 50 minutes )

---

Presenter's Name

---

Position and Organization

---

Street Address

---

City State/Province Zip/Postal Code Country

---

Phone Fax Email

---

Co-authors

---

*continued on reverse*

# 2004 CALL FOR PAPERS

NOWRA's 13th Annual Technical Education Conference & Exposition  
Albuquerque, New Mexico • November 7-11, 2004

## **Biographical Information of Presenter (Not a detailed résumé.)**

**Education:**

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**Relevant details affecting your work within the onsite industry:**

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## **Presentation Proposal Section**

**Short Abstract: Condense the abstract to a 3-4 sentence statement. This brief statement is used in program promotions and in fulfilling CEU credit requirements from various states.**

**Regular Abstract: The abstract should provide enough information for the Program Committee to determine how the presentation fits into the Program. Describe the information to be presented, the status of the work, the insights gained in the remaining space below. This abstract should be no more than 200 words. Please do not submit a finished presentation or a PowerPoint presentation. Keep it simple.**

NOWRA is continuing its improvements in our main publication to our members—the Onsite Journal—providing benefits to both our advertisers and our membership. We are advertising NOWRA as well as all those products for which vendors and manufactures place ads. The Onsite Journal now reaches regulators throughout the U.S. and is placed on our website—even before it is mailed. Our goal in 2004 is to reach local public officials making decisions on the wastewater infrastructure. The 2004 publication themes are listed below. You are encouraged to submit articles of interest and new product promotions. This has had a positive effect with the regulatory community, resulting in

Issue	Theme	Deadline
January/February 2003	2003 Annual Report/2004 State Programs & Legislation Affecting the Industry	December 15,
March/April	Product and Services Guide	February 1, 2004
May/June 2004	Treatment Technology: Maintenance & Operations: Preliminary Conference Promotion & Registration	April 1,
July/August	Conference Registration/Model Code Update; Industry Communications & Management	June 1, 2004

## 2004 ONSITE JOURNAL ADVERTISING RATES

Page Size	Single ✓ Issue	Month	Annual ✓ (6 issues)
<b>BLACK &amp; WHITE</b>			
Full Page	<input type="checkbox"/>	\$1,050	_____
<input type="checkbox"/> \$5,800			
Half Page	<input type="checkbox"/>	\$750	_____ <input type="checkbox"/>
\$4,250			
Quarter Page	<input type="checkbox"/>	\$450	_____ <input type="checkbox"/>
\$2,650			
Business Card	<input type="checkbox"/>	\$150	_____ <input type="checkbox"/>
\$840			
Classified Ad	<input type="checkbox"/>	\$50	_____ <input type="checkbox"/>
\$275			
<b>FULL COLOR</b>			
Full Page Inside Front Cover	<input type="checkbox"/>	\$1,550	_____ <input type="checkbox"/>
\$8,850			

For a single issue advertisement, write the Issue months in the Issue column; to prepay for all six (6) issues place a 4 in the column to the left of the Annual Payment column, and to pay per issue with an annual (six (6) issue) commitment place a 4 in the column to the left of the Pay per Issue column.

Payment and copy is due by the above listed Copy Deadline dates for the individual issues. All NOWRA publications are produced on a Macintosh G4 system using QuarkXpress. Preference is to receive ads via e-mail as eps or pdf files. Hard copy is also accepted, but caution that the quality of a scanned ad may not be as crisp as the original. Questions on the formatting specifics of an ad should be addressed to Susan Rutter, NOWRA publications

This contract is not subject to cancellation after the date of the copy deadline listed on page 1. The advertiser is responsible for furnishing final files along with proofs, prints, and copy for the aforesaid advertisement(s) by the deadline dates specified. In the event copy is not received by the closing date, the publication of the name and address of the advertiser(s) will be considered in compliance with the terms of this contract. NOWRA hereby reserves the right to reject advertising copy furnished by the advertiser under this contract.

I (we) do hereby authorize the National Onsite Wastewater Recycling Association, Inc. (NOWRA) to publish our advertisement(s) as indicated above. It is agreed that no other understanding exists except as specified in this contract.

Company: \_\_\_\_\_ Contact

Person: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ email: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_

## In Memoriam



Sadly, NOWRA lost dear Peter Casey, who passed away on the evening of Tuesday, October 28, after several weeks of hospitalization following emergency cardiac surgery.

As evidenced in both his professional and personal relationships, Peter lived every moment of life and loved people. That he was recognized and respected in his career as an engineer is not surprising. Peter was a dedicated practitioner of his craft, and a fine teacher and mentor. But, most importantly, he applied his engineering skills and knowledge to solving real human problems: those that involve water, the essence of life. This he did with great compassion and with understanding for the people involved and the complex struggles that they faced in try-

ing to clean up their environment and meet their water needs. Peter's professional affiliations were many, as were his colleagues and friends.

During his 9 years with the National Small Flows Clearinghouse, an organization dedicated to helping small communities solve wastewater problems, Peter championed numerous initiatives to reach out to communities in need, and was an energetic and innovative thinker. Most importantly, he carried out his professional responsibilities and the business of life in a way that emphasized bringing people together for the common good.

As we mourn his passing, we also celebrate his life and his legacy, that of a kind, loving, decent human being. Peter, by example, turned our hearts toward kindness.

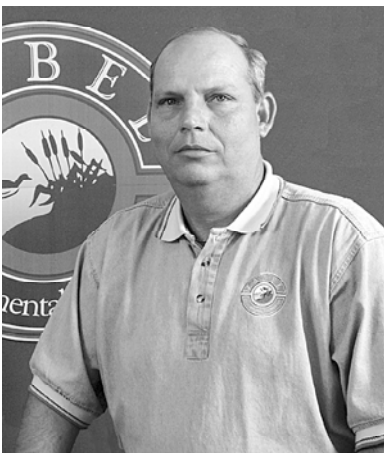
Peter J. Casey, MPH, P.E., was the program coordinator of the National Small Flows Clearinghouse (NSFC), based at the West Virginia University in Morgantown, West Virginia. Small Flows, as most people in the industry call it, is an organization, established by the U.S. Congress in 1977, that helps small communities and individuals find the best means of collecting, treating, and dispersing wastewater and of planning, operating, financing, and managing new or existing wastewater systems.

Peter earned a Master of Public Health (MPH) degree in environmental engineering and an undergraduate degree in civil engineering. In addition to his academics, Peter took various short courses in planning, administration, water supply, and emergency measures.

Previously, Peter was director of environmental health and before that director of public engineering for the Nova Scotia Department of Health over a span of approximately 24 years. During this term, Peter worked with various environmental health issues with special emphasis on drinking water and onsite wastewater problems.

As the program coordinator of NSFC since 1995, Peter developed new initiatives to achieve the objectives laid by this organization. Peter also assisted the U.S. Environmental Protection Agency (EPA) in producing their new onsite wastewater treatment systems design manual.

An extremely popular person among his co-workers, Peter and his team at NSFC are dedicated to helping small communities with their wastewater related problems. When not busy reading through his files, Peter liked to go hiking or read a book on history. Traveling to new destinations and eating at fine restaurants were also among his favorite hobbies.



William (Bill) Rawlins, Jr., 55, Senior Environmental Specialist with Zabel Environmental Technology of Ponte Vedra Beach, FL, went home to be with the Lord unexpectedly on Saturday, November 29,

2003.

Bill was a key player in Zabel's success and was visionary in his commitment to installer education. He was one of the original twelve members of NOWRA where he served on the education and membership committees in the beginning years. Most recently he was an active supporter and participant at the Alabama Onsite Training Center and with the Florida Onsite Wastewater Association's installer training program.

Bill held three beliefs above all else; God, Country and Family. He firmly believed that God was responsible for making all things possible in his life and thanked God daily for the blessings he received. Bill was a faithful soldier in the military for 26 years, serving both in Vietnam and

the Gulf Wars. After God and Country, Bill's strongest love was for his family and he put them above all others. Anyone who knew him can quote his favorite saying, "If you don't have family, you don't have anything."

When Bill wasn't teaching or down in a hole helping an installer get it done, he enjoyed spending time with his grandson and fishing and hunting with his friends. We will always remember him as a loving husband, father, grandfather, friend and patriot.

Our heart-felt sympathies go out to his wife, Jan Rawlins; his son, Billy Rawlins; his daughter, Jodie Reeves; son in law, Brian Reeves and his grandson, Jacob Reeves and the other members of Bill's



## MANAGEMENT OF ONSITE SYSTEMS

*It only seems like we've been talking  
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Orengo's VeriComm<sup>®</sup> Monitoring System provides affordable, invisible, round-the-clock supervision of onsite systems, saving time and money in O&M. VeriComm gives you...

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**"VeriComm protects the system, protects me, and protects my installer, and gives our customers peace of mind."**

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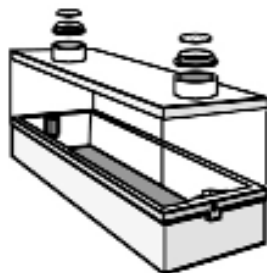


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## Colorado

### Colorado Professional Onsite Wastewater Association UPDATE November 24, 2003

#### In this update:

- Election Results
- The CEHA Annual Education Conference
- NOWRA Annual Conference
- A winter CPOW meeting.

There are now 60 members of CPOW from all of the member sectors. Bylaws are being completed and activities are being planned.

#### The following officers were elected:

<i>President</i>	Ed Church, CHURCH & Assoc.
<i>Vice President</i>	Jim Rada, Summit Co. Health Dept.
<i>Secretary</i>	Beck Dutton, Max Heacock Constr.
<i>Treasurer</i>	Derrick Eggleston, Valley Precast

#### Sector representatives chosen include:

Maintenance:	Denny Nessler, Columbia Sanitary
Contractor:	Debra Patterson, Septic Masters, LLC
Engineer:	Jean Ernstberger, HP, Geotech
Regulator:	Warren Brown, Tri-County Health Dept.
Academic:	Kathryn Lowe, Colorado School of Mines
Manufacturer:	Angela Helliwell, SCG Enterprises, Inc.

For the remainder of the sector nominees, there are plenty of committee chair positions that need to be filled and people will be calling for your assistance.

The CEHA Education Conference was a success in Steamboat Springs. There were 59 people in attendance who got to listen to Richard Otis, Terry Tyler, and Rein Laak. The speakers were excellent and there were good discussions.

It was a great fall trip to Nashville for the NOWRA meeting. More than 600 attended. There were four tracts of talks all the time with the topics of: Planning, Technology, Nutrients and Operation and Maintenance. There was an all-day "basic" course for an over-view of design, a short-course on the Model Code, reports on ongoing demonstration projects, as well as a sold-out exhibit, with extra exhibitors shoe-horned in the exhibit area. A great place to meet other onsite people from around the nation.

Start planning for next year's meeting, which will be in Albuquerque, NM, in early October 2004. I have already received a call for papers for the meeting. Abstracts are due March 31, 2004.

Planning is underway for a CPOW conference in March, 2004, with a low registration fee, so watch for notices. A one-day conference is planned to determine the "state" of ISDS/OWS in Colorado. This will be a once, and one-time-only, chance to identify problems (complain). From here on, CPOW will be working on solutions. Be thinking of others in your area that you would like to work with on solutions, particularly contractors/installers. Contractors are typically not meeting attendees and we are interested in how to get them to meetings, besides free food.

A website is in the works. Until then please contact Ed Church at [echurch@geo-church.com](mailto:echurch@geo-church.com) <<mailto:echurch@geo-church.com>> for information or a membership application.

## Ohio

### OOWA - Ohio Onsite Wastewater Association

Final preparations are underway for our January 7 & 8, 2004 Convention & Trade Show in Akron, OH. OOWA partners with the Ohio Land Improvement Contractors Association (OLICA) and the Ohio Waste Haulers Association (OWHA) to put on a full week of training opportunities for onsite professionals in Ohio. The week starts with a two-day (Jan 5 & 6) onsite seminar sponsored by OLICA with Ohio State University and other trainers on soils, design, field surveying and job control techniques. The OOWA/OLICA Convention & Trade Show follows on Wednesday and Thursday with the very popular Trade Show Dinner Party on

Wednesday evening. NOWRA President Tim Frank will be there to kick-off the convention activities. On Friday (Jan 9) the week ends up with the OWHA sponsoring a day of service provider training.

Within this week long conference schedule the pilot OOWA Installer Qualification (IQ) Program has classes for its renewing Charter IQ Contractors and welcomes the second group of installer members into the pilot IQ program. The OOWA Board of Directors, Committees and members have all been working hard to make our 5th Annual Convention in Akron a big success in 2004. We are also looking forward to hosting the NOWRA Convention & Exhibition in Cleveland in 2005.

Finally, we want to recognize Susan Ruehl as our new OOWA Administrative Assistant. Susan has been very helpful in organizing the IQ program and will take on more OOWA responsibilities in the upcoming year. Susan is married to Board Member Doug Ruehl and has been an active participant with Doug in both OOWA and NOWRA activities. Susan can be reached at our new OOWA toll-free number: (866) 843-4429.

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## ANNOUNCEMENT

The Consortium of Institutes for Decentralized Wastewater Treatment has been developing a series of onsite wastewater treatment modules for university curriculum and modules for practitioner training. These modules are in various stages of review with final reviews to be completed by the first of the year or so. If you would like to access them, go to [www.onsiteconsortium.org](http://www.onsiteconsortium.org).

For the academic curriculum, hit the bar in the top center of the page, then hit Activities on the left side of the next page and you will see the 18 modules listed.

For the practitioner training, hit the bar in the top center, then hit Activities on the left side of the next page and then hit the words in the center of the page "Practitioner's Curriculum Development Project." You will then see 5 modules listed. If you want to make comments on any of the modules, send your comments to the authors associated with the particular modules and copy your comments to Nancy Deal, who is coordinating the activities, at [nancy\\_deal@ncsu.edu](mailto:nancy_deal@ncsu.edu).

—Jim Converse

Co-chair of NOWRA Education Committee

### **Tenth National Symposium on Individual and Small Community Sewage Systems**

#### **Concurrently Sponsored with the Eighth International Drainage Symposium**

WHEN: March 21-24, 2004

WHERE: Sheraton Grand Sacramento Hotel & Sacramento Convention Center, Sacramento, CA

WHAT: Two separate conferences with attendee crossover privileges. The Tenth National Symposium on Individual and Small Community Sewage Systems will have 12 concurrent sessions over the three days, covering such issues as risk assessment, design & evaluation of technologies, soils, fate of contaminants, source and wastewater characterization, and small community systems. The Eighth International Drainage Symposium will have nine concurrent sessions over drainage and water-table management, drainage of irrigated lands, water quality, and tools and models for monitoring and design.

WHO SHOULD ATTEND: All types of professional in both onsite wastewater treatment and those working with drainage systems, including designers, engineers, soil evaluators, soil scientists, contractors, installers, regulators, students, educators, and researchers.

Registration: online at <http://www.asae.org/meetings/index.html>



## 2004 Calendar

January 5-6, 2004

Onsite Waste Management Seminar

Sponsored by the Ohio Land Improvement Contractors Association

Registration Contact: Dale Arnold – 614-246-8294

January 7-8, 2004

Ohio Onsite Wastewater Association Convention & Trade Show

Hilton-Akron-Fairland Hotel – Akron, Ohio

Registration Contact: Susan Ruehl – (866) 843-4429

January 22, 2004

Illinois Onsite Wastewater Association

Peoria, Illinois

Registration Contact: Doug Toole

January 27-28, 2003

Iowa Onsite Wastewater Association Annual Conference

Registration Contact: Charles Schmidt - 319-338-4939

February 11-12, 2004

Nebraska Onsite Wastewater Association & Well Drillers Association Annual Conference

Agricultural Exhibit Hall – State Fairgrounds

Registration Contact: Terry Jordan - 402-476-0162

February 22-23, 2004

NOWRA Model Performance Code Committee Meeting

Grosvenor Resort Hotel – Lake Buena Vista, FL 32830

February 24, 2004

NOWRA Board of Directors Meeting

Grosvenor Resort Hotel – Lake Buena Vista, FL 32830

### **NAWT 2004 INSPECTOR (EDUCATION/TRAINING) CERTIFICATION PROGRAM**

January 30-31, 2004

Laughlin, NV

Post-Conf. Workshop to SW Onsite Management Conf. AZ County Dept. of Environmental Health and Safety Assoc.

Registration Contact: Kitt Farrell Poe - 928-782-3836

Fees: \$250.00

February 7-8, 2004

Georgetown, DE

Environmental Training Center at Delaware Tech Owens Campus – Room 529

Registration Contact: Laurie, 302-855-1617

Fees: \$200.00 (members) \$250.00 (non-members)

\$150.00 (two or more from same company)

February 16-17, 2004

Nashville, TN

Pumper & Cleaner Exposition

Registration Contact: NAWT, 800-236-6298 (NAWT)

June 3-5, 2004

Verde Valley, AZ

Registration Contact: Kitt Farrell-Poe – 928-783-3836

NOWRA's first-ever Silent Auction was a resounding success! We thank the 2003 Conference Committee members for all their hard work on this new event and a special thanks goes out to all those businesses, organizations and individuals who donated items. In addition, we wish to thank the Tennessee Valley Authority for their donation of spouse gifts, and all conference attendees for their participation and bids.

#### DESIGNER PURSE

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*Won by Linda Hanifin Bonner*

#### ORIGINAL ART OF NOWRA THEME

*by Susan B. Rutter, Designer*

*Won by Mark Riether*

#### COMPLETE BOOK OF FLY FISHING

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*Won by Jean Caudill*

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*Won by Justin Volrath*

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*Won by Tom Frank*

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