



Missouri Smallflows Organization

OUTHOUSE LEDGER

A Quarterly Publication

Spring 2020

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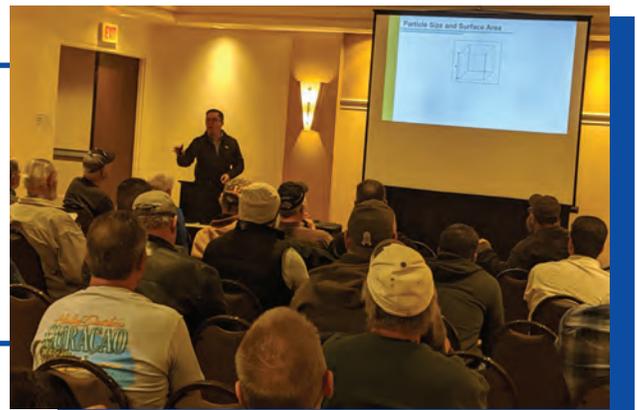
MSO
General
Membership
Meeting

THANKS FOR A GREAT 2020 MSO CONFERENCE & TRADE SHOW!



Tom Fritts teaching at the Conference

Sergio Abit
from Oklahoma
State University
speaking about
ATUs



LOOKING FORWARD TO ANOTHER GREAT YEAR!



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If you are interested in being a part of our Business Partner Program check out the program on our website for more information.

INTERESTED IN MAKING YOUR COMPANY A BUSINESS PARTNER?

We appreciate all of our BPP members. This program enables you and your company to purchase exhibit space, newsletter advertising and your MSO membership all in one stop.

As a BPP, your company logo and link to your website will be on the MSO website. You have a certain number of membership slots to whom you can assign anyone. Our newsletter reaches over 400 people quarterly and the list is growing. We send our newsletter via email and mail to some patrons.

We have varying levels of sponsorships based on your need. You should check out our BPP webpage (www.mosmallflows.org) for the full details.

If you would like a copy of the brochure with prices and details, you may always contact Tammy Trantham at contact@mosmallflows.org.

Let us help you get your company name out to our membership and more. Thank you for supporting Missouri Smallflows.

FROM THE PRESIDENT...

MSO Members,

First, thanks to all our members and sponsors for attending the 2020 MSO Conference & Trade Show in January. We had a great turnout and many people enjoyed and commented on the great sessions at the conference.

A few of the sessions, which I attended, were great. Troubleshooting the Soil Treatment, Lagoon Design for OWTS and Strategic Alliances were some of my favorites. I also found the keynote speaker Mr. Cheeseman very interesting, with a topic we sometimes do not think about all the time. A huge thank you to all of our presenters and congratulations on helping make our conference a success.

I was very excited to see how our membership numbers have grown over the past few years. I am confident we will hit the 500 number mark for 2020. Our industry is growing and you all play a big role. You all are the best of the best and it shows in your commitment to MSO and the industry.

Starting a new year for MSO, we have some goals that we are working on. We have been receiving much feedback on the need to update our classes and write new courses. This is going to be one of the priorities for this coming year. We are in the process of writing a new Media Filters class. We also hope to put together a few online courses. Keep in mind that every online course you take through MSO, supports our organization. Once we have more courses specific to Missouri, you will be the first to know.

Writing new courses takes time. We are pulling together content to update courses and realizing that some content needs to be broken into multiple topics. We are always looking for input on this so feel free to reach out to the MSO office with ideas.

As of this month our membership is just under 500 members. Thank you for helping make this organization great and continuing to support our mission. We look forward to working for you in the coming year.

On Behalf of the MSO Board of Directors,

Michael Bowers
President of MSO



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2020 MSO CONFERENCE REVIEW

BY: TAMMY TRANTHAM, EXECUTIVE DIRECTOR OF MSO

Thank you to everyone who attended the 2020 MSO Conference & Trade Show. Every year we pull together a great show with educational sessions. I heard a lot of positive feedback about the sessions and speakers. We appreciate all of the feedback. We will be looking into inviting a few popular speakers back for new topics next year.

I would like to thank many people who helped make this conference a success. Tom Fritts and Kyle Shern worked hard to bring a great Pre-Conference together. The topic of drip irrigation is gaining popularity in the state. We will work on having more breakout sessions on this topic in the future. Thank you to Rick Wilcockson for inviting our keynote speaker, William Cheeseman. Many people enjoyed learning about rules and how to protect their business legally from the eyes of an attorney that has seen real-life examples.

A huge thank you is in order to all of our exhibitors that attended. We appreciate you sponsoring our show and making the trip. There are so many shows that time of year and we enjoy having you at our show.

There was a lot of interest in the Roe-D-Hoe® this year. Every entry is \$5 and that money goes towards the Daryel Brock Memorial Scholarship. We had some stiff competition in the final round. Participants had to complete three obstacle courses: bowling, golf and basketball. The times are totaled and the participant with the fastest time wins the competition. Stanley Stoltzfus of Green Shore Excavating in Barnett won first place this year; he is actually the defending champion for five years. Second place went to Shane Poeling of Forstell and third place went to Daniel Shirk of Sanitary Septic Services of Barnett. Thank you to everyone who participated.

We had some great fundraisers for the Daryel Brock Memorial Scholarship and raised over \$1,700 for the scholarship. Thank you for participating in the fun! We also recognized our scholarship recipients from 2019 at the General Membership Meeting. Delaney Munden, granddaughter of Tim Colton; Anastasia Harwood, daughter of Chuck Harwood; and Ethan Folks, son of Eric Folks all received a \$500 scholarship in 2019.

There were many updates to the membership at the lunch membership meeting. In 2019, we hosted 26 continuing education seminars and had 426 people that attended the seminars. At the time of the conference, we had 460 members in our organization. We reached some goals that our organization set for the year; increased membership numbers, designated Rick Wilcockson as Education Committee Chairperson and Tom Fritts as Legislative Committee Chairperson. One of the goals for 2020 is to re-write and have new course development for classes.

We are looking ahead to 2021 already. Planning is in the works for more inspector specific courses for the conference. We would welcome any topic or speaker suggestions to help us bring in good educational information.

See page 6 for pictures of the Roe-D-Hoe® winners & 2019 Scholarship Recipients!

Left to Right:
Daniel Shirk - 3rd Place
Stanley Stoltzfus - 1st Place
Shane Poeling - 2nd Place

2020 ROE-D-HOE® WINNERS



MSO would like to congratulate our winners,
and thank all participants for their involvement and
support of the Daryel Brock Memorial Scholarship!

DARYEL BROCK MEMORIAL SCHOLARSHIP



Left to Right:
Chuck Harwood,
father of Anastasia Harwood
(not pictured)
Michael Bowers,
President of MSO
Delaney Munden,
granddaughter of Tim Colton
(not pictured)
Ethan Folks,
and father, Eric Folks

2019 Scholarship Recipients

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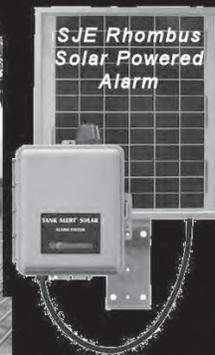
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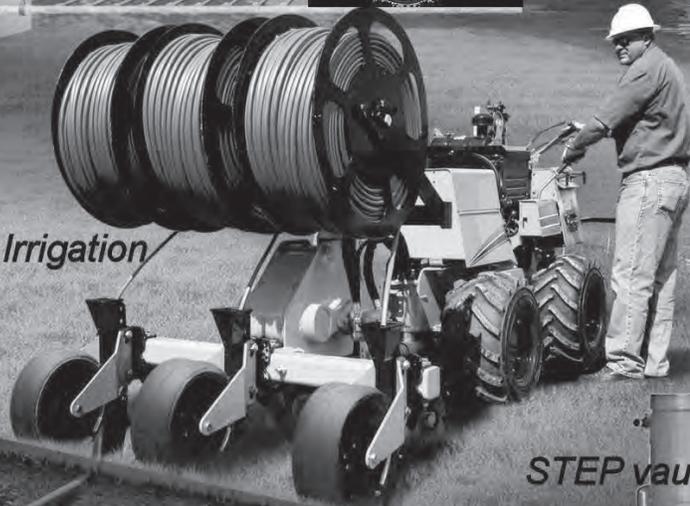


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HOW YOUR SEPTIC SYSTEM CAN IMPACT NEARBY WATER SOURCES

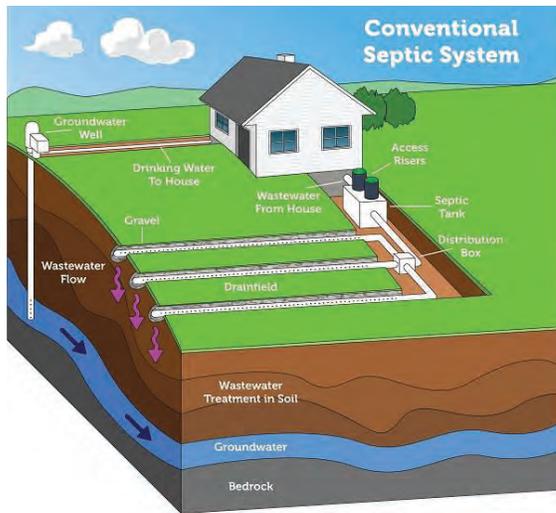
RICK WILCOCKSON, BS BIOLOGY, MSO EDUCATION COMMITTEE CHAIRMAN

IMPACT

Septic systems that are properly planned, designed, sited, installed, operated and maintained can provide excellent wastewater treatment. However, systems that are sited in densities that exceed the treatment capacity of regional soils and systems that are poorly designed, installed, operated or maintained can cause serious environmental and health issues. As we know from the hydrological water cycle, this can have severe implications on surface and ground water with disease-causing pathogens and nitrate contamination. Other problems include excessive nitrogen discharges to sensitive coastal waters and phosphorus pollution of inland surface waters, which increases algal growth and lowers dissolved oxygen levels. (United States Environmental Protection Agency)



GROUND WATER AND SURFACE WATER IMPLICATIONS



Please note: Septic systems vary. Diagram is not to scale.

More than four billion gallons of wastewater are dispersed below the ground's surface every day. Many homeowners rely on septic systems for safe and effective treatment of their wastewater. Household wastewater is treated by a septic system before it filters into the soil. Recycled water from a septic system can help replenish groundwater supplies; however, if the system is not working properly, it can contaminate nearby waterbodies. Ground water contaminated by poorly or untreated household wastewater poses dangers to drinking water and to the environment. Malfunctioning septic systems release bacteria, viruses, and chemicals toxic to local waterways. When these pollutants are released into the ground, they eventually enter streams, rivers, lakes, and more, harming local ecosystems by killing native plants, fish, and shellfish. (United States Environmental Protection Agency)

Septic systems can impact local drinking water wells or surface water bodies as well. The extent of this impact depends on how well your septic system is maintained and if it is used properly. Untreated sewage water in such areas can contaminate the environment and cause diseases. Some bacteria and diseases carried by sewage and wastewater are E. coli, shigellosis, typhoid fever, salmonella, and cholera. Fungi such as Aspergillus and other fungi often grow in compost. These can lead to allergic symptoms (such as runny nose), lung infection, or exasperate respiratory conditions. Sewage is wastewater that can be hazardous to the environment, which is why we don't want raw sewage to get into the groundwater or other bodies of water. E. coli can infect the water and cause disease. Other harmful solids and chemicals in sewage can also damage bodies of water that support wildlife and balance in the ecosystem. (United States Environmental Protection Agency) *The MSO will offer future educational events that will address these topics.

Continued on page 10

Continued from page 9

SEPTIC SYSTEMS AND DRINKING WATER

Septic systems provide wastewater treatment for many homeowners who also often get their drinking water from private wells. If a septic system is not working properly or is located too close to a drinking water well, contaminants from the wastewater can end up in drinking water. On-site assessment requires water testing and provides valuable information concerning the drinking water quality as related to coliform and E Coli for the homeowner. The sample is delivered to a Missouri certified lab usually within 24 hours of collection for testing. The sample is prepared at the lab with a Colilert solution and then placed in an incubator at 35°C (18 to 24 hours). Next, the sample is analyzed next to a comparator for total coliform bacteria and then under a UV light to test for E. coli. Testing results may be available as soon as 18 hours after the lab has custody of the sample, however typical turnaround time is 24 hours. (Missouri Department of Natural Resources) (Missouri Department of Health and Senior Services)



*The MSO will offer future educational events that will address these topics.

SEPTIC SYSTEM IMPROVEMENTS TO PROTECT NEARBY WATER SOURCES

As a homeowner, there are several steps you can take to prevent your home's septic system from negatively impacting nearby water sources. Some are simple, while others can be more involved and expensive. Consult with a professional in your area before making significant upgrades to your septic system.

The MO Department of Health and Senior Services provides a listing of several certified professionals along with their contact information at the following website:

<https://health.mo.gov/living/environment/onsite/>

REFERENCES

United States Environmental Protection Agency
 Missouri Department of Health and Senior Services
 Missouri Department of Natural Resources
 Photos courtesy of Accurate Septic & Well Inspections



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In partnership with NOWRA, Missouri Smallflows Organization has online courses available for onsite wastewater professionals to earn more CEUs for their license renewal. You can read all about these courses on our website with CEU summaries at:

www.mosmallflows.org

Be sure you are a member of Missouri Smallflows! You will save money on these courses as a member. Call our office to check your membership status!

Phone 417-631-4027 or Email contact@mosmallflows.org

NOWRA Installer Academy

- Chapter 1: Introduction & Safety
- Chapter 2: Planning
- Chapter 3: Soil & Site Evaluation Concepts
- Chapter 4: Distribution of Effluent
- Chapter 5: Watertight Piping & Tanks
- Chapter 6: Dosing Systems & Controls
- Chapter 7: Advanced Treatment
- Chapter 8: Soil Treatment Systems

There are eight chapters in this course or you can bundle chapters. NOWRA bundles the courses in a pricing package so be sure you look closely at which ones your are selecting.

Course Name	General CEUs	Select CEUs.				
		Basic	Advanced	Inspector	OSE	Perc. Tester
Introduction and Safety	1.0	0	0	0	0	0
Planning	1.0	0.5	0.5	0	0	0
Soil and Site Evaluation Concepts	1.0	1.0	1.0	0	1.0	0
Distribution of Effluent	1.0	1.0	1.0	0	0	0
Watertight Piping & Tanks	1.0	1.0	0	0	0	0
Dosing Systems & Controls	1.0	1.0	1.0	0	0	0
Advanced Treatment	1.0	0	1.0	0	0	0
Soil Treatment Systems	1.5	1.0	1.0	0	0	0

Keep in mind! You cannot repeat any class in two consecutive renewal periods (6 years). Use these online courses to round out CEUs. Attend our in-person seminars for more education!

NOWRA A to Z Courses

This course is an eight hour course. You can either take it by taking the whole 8 hour course or dividing it into three different chapters.

These courses have been approved in Missouri. Keep in mind that if you take the eight hour course, you cannot take the other three as these make up the content of this course.

- NOWRA A to Z: 8 Hour Overview (8 Hours)
- NOWRA A to Z: Intro to Onsite & Wastewater (3 Hours)
- NOWRA A to Z: Soil Evaluation, Treatment & Dispersal (4 Hours)
- NOWRA A to Z: Operation & Maintenance (1 Hour)

Course Name	General CEUs	Select CEUs				
		Basic	Advanced	Inspector	OSE	Perc. Tester
NOWRA A to Z (8 Hour)	8.0	6.0	6.0	2.0	2.0	1.0
Introduction to Onsite Wastewater (3 Hour)	3.0	2.0	1.5	0	1.0	0
Soil Evaluation, Treatment & Dispersal (4 Hour)	4.0	3.0	3.0	1.0	2.0	1.0
Operation & Maintenance (1 Hour)	1.0	1.0	1.0	0.5	0	0



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MSO is looking for more locations to host classes around the state.

Reach out to Tammy at the MSO office if you know of a meeting room location close to your hometown that we could use.

Contact MSO

Call:

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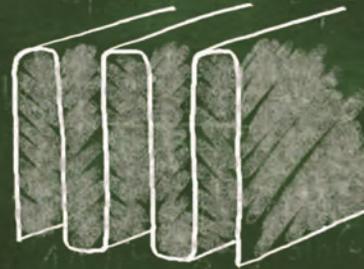
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WHY SHOULD YOU SUPPORT ADVOCACY EFFORTS IN WASHINGTON?

We get it. Your business is local. You deal with county regulators and rules on a daily basis. You've built your business to comply with your state's onsite wastewater code. What happens in Washington, DC doesn't affect your day-to-day operations.

All of that is true, but it would be a mistake to think that the federal government has no impact on your business.

For decades, Washington has ignored the onsite wastewater industry, choosing instead to concentrate their money, resources and regulations on municipal sewage treatment. For example:

- Congress and the EPA have given the states more than \$100 Billion to address wastewater treatment problems. 99.7% of that money has gone to fix sewer systems. Our industry serves 86 million Americans, but we get crumbs.
- EPA's policies and regulations are overwhelmingly skewed in favor of "Big Pipe."
 - EPA's Office of Water has hundreds of employees supporting sewer systems. They have three employees focused on onsite wastewater.
 - EPA's policies encourage utilities to convert septic systems to sewer. More than four times as much money is spent converting septic systems to sewer than what has been spent to fix failing systems or install new systems.
 - Although we are the "Original Green Infrastructure," EPA does not recognize onsite systems as green infrastructure. As a result, we don't have access to the billions being given to utilities to implement green infrastructure initiatives.

In short, Congress and federal regulators have created a set of conditions which heavily favors sewer over onsite systems. As a result of these policies:

- You are losing customers because their systems are being converted to sewer.
- You are losing business when your customers can't afford to fix or replace a failing system. Utilities and their customers have been handed billions to upgrade systems which are out of compliance.
- Your tax dollars are subsidizing users of sewer systems.
- Your company's reputation suffers because federal neglect of onsite systems have given our entire industry a bad name.

Our industry has a great story to tell and Congress needs to hear it!

- We protect public health and the environment.
- We are a green technology (by any definition other than EPA).
- We replenish groundwater supplies.
- We treat water to the same levels as municipal water treatment facilities.
- We are the job creators. Nearly everyone in our industry is a small business – the engine of job growth.

The "Big Pipe" folks are well-organized, well-funded and well-known in Washington. While we are taking many steps to level the playing field, the onsite wastewater industry needs your help and support to make that happen.

Continued on page 19

Continued from page 18

Right now, the deck is stacked against our industry. At the same time, we represent the interests of the 86 million people. That's a lot of potential voters. And with the establishment of the Decentralized Wastewater Recycling Caucus in the US House of Representatives, we now have a voice to air our concerns.

The more Members of Congress we can encourage to join the Decentralized Caucus, the stronger our message will become. Most Members don't even realize that federal wastewater policy shortchanges thousands of their own constituents. That's why we're asking you to help change their minds.

There is strength in numbers. NOWRA members played a critical role in helping us pass the NOWRA Act and other legislation last year. To continue our success with the new Congress we need our members to come to Washington and help their elected representatives understand why onsite systems matter and the impact decades of neglect have had on their constituents. With your help we can keep making a difference!

So your voice really does matter.

**Please consider joining us in Washington, DC, on May 13, 2020
for NOWRA's Legislative Fly-In!**



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LEGISLATIVE FLY-IN

MAY 13, 2020

WASHINGTON, DC

Dear Onsite Wastewater Professional,

Plan today to join your colleagues from around the country in Washington, DC, May 13, 2020, for NOWRA's 7th Annual Legislative Fly-In.

Our Voice Needs To Be Heard!

By attending the Legislative Fly-In, you can help us in the following tangible ways:

Passing Legislation. In 2018 we passed the NOWRA Act and helped get funding for failing septic systems. We are backing legislation this year that will add to industry funding sources and also ensure fairer policies for our industry..

Growing the Decentralized Caucus. We need allies in the House of Representatives. Encourage your Congressman to join the Decentralized Wastewater Recycling Caucus.

Educating Congress. Our industry has a terrific story to tell. Congress needs to understand why onsite/decentralized wastewater treatment is a vitally important (although frequently ignored) part of our nation's water infrastructure.

We'll Help You Have a Successful Visit

You will be well-prepared for your visit. We will brief you on the key issues before you knock on your first door, and provide you with useful data and handouts to share during your meetings. We can assist you in making Congressional appointments, and an experienced member of the lobbying team will accompany you on your meetings. We just need you!

Can we count on your support in Washington this April?

Sincerely,
Eric Casey
NOWRA Executive Director

See page 21 for a schedule of events and hotel information!

FLY-IN SCHEDULE OF EVENTS

May 12

6:00 pm - 7:00 pm Happy Hour at Holiday Inn Ballston
7:00 pm - 9:00 pm Optional dinner with Fly-In attendees

May 13

9:00 am - 10:30 am Briefing on Capitol Hill
11:00 am - 4:30 pm Congressional visits
4:30 pm - 6:00 pm Debriefing and cocktails at Capitol Hill Club
6:00 pm - 8:30 pm Optional Dinner

Hotel Information

NOWRA has reserved a block of rooms at the Holiday Inn Ballston (4610 Fairfax Drive, Arlington, VA 22203) at a reduced room rate of \$209/night. To obtain this rate, book your hotel room by calling (866) 876-4238 and identifying yourself as a member of NOWRA; Please note, this rate is good until April 15, 2020. After that date, rooms are on a space-available basis at prevailing rates.

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- Lid-Lok Safety Device



PROMOTE SAFETY

Prevent a tragedy by offering septic tank and grease trap safety devices to your customers. Safety devices are incredibly inexpensive and come in a variety of designs to meet any situation and budget. Many states require a safety device to prevent accidental entry into a septic environment, but you don't need to wait until it's mandated! Even if your state doesn't require this yet, make this a valuable addition to every installation or service you do. Your customers will thank you for considering their safety first! **1-877-765-9565 / www.polylok.com**

UPCOMING SEMINAR SCHEDULE

MSO provides continuing education opportunities to Missouri onsite wastewater professionals. Use the form below and the Registration Form on page 23 to register for your classes.

Register early to save your seat! Register at least two weeks prior to the class!

Contact our office with any questions at 417-631-4027.

March 12, 2020 - Media Filters

Location: Park Hills, Mineral Area College

Member price: \$115 | Non-member price: \$165

March 13, 2020 - Drip Irrigation

Location: Park Hills, Mineral Area College

Member price: \$115 | Non-member price: \$165

March 30, 2020 - Media Filters

Location: Liberty, Clay County Health Department

Member price: \$115 | Non-member price: \$165

March 31, 2020 - Hydraulics of Onsite Systems

Location: Liberty, Clay County Health Department

Member price: \$115 | Non-member price: \$165

April 9, 2020 - Drip Irrigation

Location: Camdenton, Camden County Courthouse

Member price: \$115 | Non-member price: \$165

April 10, 2020 - Wastewater Pathogens

Location: Camdenton, Camden County Courthouse

Member price: \$95 | Non-member price: \$145

April 30, 2020 - Aerated Treatment Units

Location: Cape Girardeau, Cape Girardeau Health Center

Member price: \$115 | Non-member price: \$165

May 1, 2020 - Drip Irrigation

Location: Cape Girardeau, Cape Girardeau Health Center

Member price: \$115 | Non-member price: \$165

May 12, 2020 - Aerated Treatment Units

Location: Springfield, Missouri DNR

Member price: \$115 | Non-member price: \$165

May 13, 2020 - Troubleshooting

Location: Springfield, Missouri DNR

Member price: \$115 | Non-member price: \$165

See website for complete listing of upcoming classes
Seminar Refund policy available online at mosmallflows.org

SEMINAR REGISTRATION FORM

Yes! Sign me up for membership with MSO.

Please complete this form and return along with page 22 to the address below.

____ **Individual MSO Membership for \$100**

Name: _____

Company: _____

Mailing Address: _____

City: _____ State: _____ ZIP: _____ County: _____

Email address: _____

Sign me up for email updates on classes

I would prefer the quarterly newsletter by: Email Mail

DHSS License Numbers:

Basic Installer: _____ Advanced Installer: _____ Inspector: _____

Onsite Soil Evaluator: _____ Percolation Tester: _____

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Springfield, MO 65804

Phone: (417) 631-4027
Fax: 1-800-340-7001
Email: contact@mosmallflows.org



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