

ASPEnewsletter

Southwestern Ohio Chapter

April 2012 Volume 30 Issue 9

Chapters are not authorized to speak for the Society

**AMERICAN SOCIETY OF
PLUMBING ENGINEERS
SOUTHWESTERN OHIO CHAPTER**

5840 Sutters Mill Drive
Cincinnati, Ohio 45247
Tel 513-488-6234
Internet www.swoaspe.com

President

Brandt Junker, CPD
brjunker@yahoo.com
Cell 513-488-6234

Vice President, Technical

Al Fike, PE
Alfike38@yahoo.com
Cell 937-602-2898

Vice President, Legislative

Ronald K Bartley, PE, CPD, CPI
KLH Engineers
rbartley@klhengrs.com
Tel 937-220-9700
Fax 937-220-9702

**Vice President, Membership/
Affiliate Liaison**

Ronald Cobb, PE, CPD, LEED-AP
SHP Leading Design
rcobb@shp.com
Tel 513-381-2112

Fundraising Chairman

Jeff Watern, CPD
Helmig, Lienesch, LLC
jwatern@helmig.com
Tel 937-228-4007

Treasurer

Matthew Sciarretti, PE, CPD, LEED-AP
Heapy Engineering, LLC
sciarretti@heapy.com
Tel 937-224-0861
Fax 937.224.5777

Administrative Secretary

Robert McGinnis, CPD
Heapy Engineering, LLC
rmcginnis@heapy.com
Tel 937-224-0861
Fax 937-224-5777

**Corresponding Secretary/
Newsletter Editor**

James N Miller, PE, CPD
Herndon Engineering Services, Inc
jmiller@herndoneng.com
Tel 513-248-1313
Fax 513-248-2869

The *ASPEnewsletter* is published by the Southwestern Ohio Chapter of the American Society of Plumbing Engineers (a non-profit organization). Opinions expressed herein are those of the authors and do not necessarily reflect the views of the Southwestern Ohio Chapter, American Society of Plumbing Engineers or the Editor.

ASPE January Meeting

Date: TUESDAY, April 17th

Location: Nibco, Inc., 2800 Henkle Dr, Lebanon, OH

This will be a two part meeting:

Part 1 will consist of Inaugurating our Past SW Ohio Chapter Presidents into a newly created "Board of Governors". Jim Kendzel, National ASPE Executive Director/ CEO will be attending and helping with the ceremonies. Come meet the gentlemen who made our Chapter what it is today!

Part 2: Pam Simmons of USGBC will speak about Personal (non project) LEED certifications including the requirements to become LEED Green Associate, LEED AP, etc.

Cost: \$15 at the door or \$90/Year Meal Assessment

Schedule: 11:30-12:00 PM Lunch
12:00-12:45 PM Program

Reservations: Contact Bob McGinnis at rrmcginnis@heapy.com before noon **MONDAY April 16th** so that a head count can be established. As always, guests are welcome.

Bring a potential member and your lunch is ½ off!

FUTURE MEETING SCHEDULE

All meetings will be held at NIBCO, Inc., in Lebanon unless noted otherwise

April 17 Two Part Meeting:
Past Presidents will be honored and inaugurated into our Newly created "Board of Governors".

Pam Simmons of USGBC will discuss the requirements for the different Personal (rather than project) LEED Certifications

May 15 PreFab Pods & Rack Systems by Pivotek.

June 8 Dayton Dragons

From The President...

Thanks again to Katie Jamriska of the Cincinnati Water Works for her excellent tour of the Fairfield Bolton Plant. It was amazing to see how different this aquifer /well water based system was compared to the river based system at the Richard Miller plant that we visited in May 2011. Please see the excellent write up on our tour by Bob McGinnis.

There has been a change to the April 17th meeting. We were set to go forward with the Moerlein Lager house until we were notified at the last minute that the brewmaster leaves at 4:00 pm!! They wanted us there preferably by 3:30, which killed the deal.

To make up for what I'm sure would have been a great meeting, we are switching to a two part meeting. The first half will be honoring our past presidents by inaugurating them into our newly formed "Board of Governors" for the SW Ohio Chapter. Come see many of our previous presidents who have helped our chapter become what it is today!

The second half of the meeting will be by Pam Simmons of USGBC discussing the requirements to achieve LEED Green Associate, LEED AP & other LEED Certifications. We have several LEED certified ASPE members and thought it would be beneficial to have someone from USGBC explain this to our group, allowing us another opportunity for credentials!

April 27th the USGBC is sponsoring a tour of Cincinnati Public School's Clark Montessori school, a project by Glaserworks from 6:00 – 8:00pm.



Clark Montessori School

The project is located at 3030 Erie Ave, Cinti, OH. Cost is \$10 for USGBC members and \$20 for non-members.

Register online at www.usgbc-cincinnati.org.

The school opened for the 2011-2012 school year, has LEED Gold Intensive & Extensive Green roof, bioswales, rain gardens, pervious pavement, gabion retaining walls, design for daylighting, occupancy sensors, geothermal, BAS system, low VOC materials, and more! There will be two Presentations, Glaserworks design review and MSD stormwater features.

I look forward to seeing you at the April 17th meeting and hopefully at the Clark Montessori open house April 27th.

-Brandt Junker, CPD

Legislatively speaking...

- The International Code Council has held its hearings for proposals concerning its **ICC Green Code**. On the plumbing side:

Water closets will be restricted to a maximum of 1.28 gallons per flush. An exception will be granted for remote water closets (defined as being located more than 30 feet from a main drain line). They will be allowed a volume of 1.6 gallons per flush.

Showers were reduced to a single showerhead flowing at a maximum of 2.0 gallons per minute (gpm). Shower enclosures greater than 2600 square feet would be allowed a maximum of 2 showerheads. So builders and developers can forget about spa systems being green!

Urinal flush volumes will be set at 0.5 gallons per flush. Kitchen sinks will have a maximum flow of 2.2 gpm with pre-rinse sprayers maxed at 1.3 gpm. Drinking fountains and electric water coolers will have a maximum flow rate of 0.7 gpm.

A new table will be provided limiting how far a fixture can be located from a domestic hot water loop. The distance will be based on either the length of the piping or the volume of the piping system.

Also, there is a requirement concerning when a recirculating pump can activate to circulate the domestic hot water. Even though their energy use is minimal, a continuously operating recirculating pump will not be permitted under the Green Code.

Not discussed during this round of hearings: food waste disposals/composting or the 'greenness' of certain building materials.

- The ICC has also conducted hearings for the **2015 International Plumbing Code** (the basis for the Ohio Plumbing Code). Some of the more notable changes include...

The plumbing fixture table may be the most misapplied table in the code. While plans examiners and inspectors might apply a Use Group to the table for determining the fixture count, the listing of the various Use Groups is intended to serve as a guide. New verbiage will help to add clarity and direction to this issue.

There is also the matter of the requirement of public toilet rooms in small mercantile facilities. The proposed change would require public toilet facilities for small mercantile buildings (such as your local Papa John's) when the public space within is less than 300 square feet. The only requirement for toilet facilities would be for employees.

The Plumbing and Drainage Institute (PDI) has developed a revised sizing method for FOG interceptors consistent with its requirements. Curiously, the IPC does not specifically mandate FOG interceptors. It does speak to the subject but (somewhat out of deference to health departments and sewer purveyors) does not actually stipulate when they are required. New verbiage will address this.

Another change will prohibit the waste from food-waste grinders from being discharged through a FOG interceptor.

There will be several changes concerning how storm drainage systems are designed. A major change will require the storm drainage piping to be sized based upon the flow rate through the roof drain body, depending upon the volume of ponding from a 100-year storm of one-hour duration.

- There has been much discussed around the water cooler lately. First up is this question concerning **natural gas piping materials:**

I was asked by an architect if flexible gas hoses were still allowed. He was under the impression that the flexible hoses at the equipment to allow for the fixture to be moved while still connected may not be allowed per code. Can anyone point me in the direction of the code that says we can or cannot use flexible gas hose connection at the equipment?

From the International Fuel Gas Code (IFGC; 2008 edition) comes the following:

403.5.4 Corrugated stainless steel tubing.

Corrugated stainless steel tubing shall be listed in accordance with ANSI LC 1/CSA 6.26.

The corrugated stainless steel tubing must be used per the manufacturer's requirements. There is no listing for flexible (rubber/vinyl) hose in the IFGC (translation: no flexible rubber/vinyl hose allowed).

And there was this question concerning **rainwater harvesting:**

I have a storm water harvesting system consisting of a large underground tank and a wet well with pumps. The pumps provide flow for yard hydrants through a series of filters and a UV sterilizer. At this point I have potable water back up being provided by a separate service complete with meter RPZ backflow preventer and an air gap fitting to the wet well. If we run out of storm water the level switch will open a valve to add water to the wet well for the system. The problem is if any of the downstream equipment is out of service I have no water. Can I tie the potable into the discharge side of the system? Do I need a second RPZ backflow preventer? This water service doesn't serve anything else.

Assuming this project is located in Ohio, the answer is yes, you can connect into the downstream system. The OPC is generally silent on rainwater harvesting systems; they allow them as an engineered system. The jurisdiction of plans examiners/code officials on these is they can inspect pipe materials, joints, fittings, and components (such as the presence and operation of a BFP and/or pumps); they will not inspect the actual rainwater harvesting equipment as it falls outside the jurisdiction of the code.

However, you are connecting the potable supply directly into the grey water (non-potable) system line (and downstream of the BFP on the main building supply (similar to supplying make-up water to HVAC equipment). Therefore, you **must** use an approved BFP device to protect the potable supply.

Do be sure the local water purveyor is on board with this; there are a few (the Cincinnati Water Works comes to mind) that will **not** provide water service to a facility with rainwater harvesting systems in place. They're in the business of selling water...rainwater harvesting cuts into their profits.

We also kicked around this item on **interceptors:**

In the kitchen of a high school project is a small laundry room with a residential-type clothes washer. Is there anything in the OPC that mandates the use of a lint trap for this set up?

It turns out the answer is yes. OPC 1003.6 states (highlight mine):

"Laundry facilities **not installed within an individual dwelling unit or intended for individual family use** shall be equipped with an interceptor with a wire basket or similar device, removable for cleaning, that prevents passage into the drainage system of solids $\frac{1}{2}$ inch or larger in size, string, rags, buttons or other materials detrimental to the public sewage system."

The OPC used to require interceptors for commercial laundry equipment only; that is no longer the case.

And...

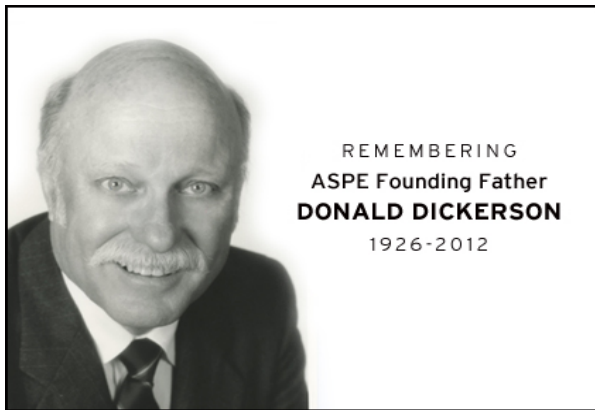
One final question: is there a place in the OPC that states when you are required to use a **3-compartment sink**?

The OPC is silent on the requirements for a 3-compartment sink. Typically, the Plumbing Unit of the Department of Industrial Compliance defers to the State/Local Departments of Health on this issue.

-Ronald K Bartley, PE, CPD, CPI

Through the pipes...

- ASPE mourns the loss of one of its founding fathers...



The American Society of Plumbing Engineers (ASPE) regrets to inform the plumbing industry that Donald F. Dickerson, PE, CPD, FASPE, one of the founders of ASPE, died on Saturday, March 24, at Tarzana Memorial Hospital. Don was the loving husband of Maria Dickerson and Marion Randall Dickerson, father to Christine, April, and Richard Dickerson, and grandfather to Eric Trafton and Heather Dickerson.

Don was instrumental in founding ASPE in 1964. He served as the Society's first President during its beginnings in Los Angeles and later as its first National President. Don frequently spoke of ASPE as his fourth child. "Don loved the Society, and all he wanted was for ASPE to succeed and become a major force within the plumbing industry," says current ASPE President William F. Hughes Jr., CPD, LEED AP, FASPE.

Don was also very involved with the International Association of Plumbing and Mechanical Officials (IAPMO). He served as the chair of the ANSI A40 Safety Requirements for Plumbing Committee (the original American National Standard), accredited by the American National Standards Institute, and was a voting member on the IAPMO Uniform Plumbing Code Technical Committee for more than four decades. IAPMO CEO and World Plumbing Council Chair GP Russ Chaney says, "Don created a lasting legacy to which all of us can aspire. Individuals like

Don only come around once in a century. His vision and dedication to our industry have never been replicated, and his desire to see ASPE as a leading organization in our industry is now being fulfilled. I will miss Don's perspective and his unstinting desire to ensure that our industry is the very best it can be."

Don served as a California State Building Commissioner for the State of California Plumbing Code. He founded Donald F. Dickerson Associates in 1961, and his company is now celebrating its 50th year of existence.

"Don and his expertise, critique, and wit will be missed by his family, the Society, and the plumbing industry at large," says Hughes.

The memorial service will be held at 9 a.m. on Saturday, March 31, 2012, at the Hillside Chapel in Rose Hills Memorial Park (3888 Workman Hills Road, Whittier, California, 562-699-0921).

In lieu of flowers, please send donations in memoriam of Donald Dickerson to:

Wounded Warriors Battalion West
PO Box 555912
Camp Pendleton, CA 92055

- You may have seen **Convoy of Hope** semi-trailers on the highways. They are currently helping with those in need of relief from the recent tornadoes that struck our area. They have a large American flag and a few logos of sponsoring companies. Lebanon, OH based MEP Engineering firm, PE-Services, is excited to be one of those sponsoring this endeavor.

Convoy of Hope is a global outreach program that has "A driving passion to feed the world." They send out trucks to many places across the United States and overseas to provide food and services to those in need. Recently, Trent Beighle, PE, President of PE-Services, and his family went to Baltimore to participate in an inner-city outreach program with NFL players. Company members are looking forward to attending outreach programs in the Dallas, Minneapolis and Dayton areas.

Parting thought...

Lost wealth may be replaced by industry, lost knowledge by study, lost health by temperance but lost time is gone forever.

-Samuel Small

\



Mark June 8th on your calendar for the 9th annual ASPE night at the Dayton Dragons game! Party deck 2 with seating for 50+ is reserved for the 7 PM game against the Lake County Captains.

Anyone who has attended previously can attest to the great time had by one and all. This year expect more of the same old fun. We're looking forward to another great evening on June the 8th. Friends and family are welcome of course and anyone who wishes to participate in the raffle could be rewarded with a great prize like the infamous custom made golf club. Tickets are only \$ 15 each.

Dinner and beverages are again being provided by our generous affiliate members. Food and ticket sponsorships are still available.

Please contact Jeff Watern via email at jwatern@helmigl.com to reserve your tickets or to find out about sponsorship opportunities.

Don't wait, last year tickets went quickly and those who waited weren't able to enjoy this fun event.

We're looking forward to seeing everyone at the game!

VP Membership ...

Hello to all ASPE Southwest Ohio members. Thanks to everyone for all their hard work on the recruitment trail, it is finally beginning to pay dividends. We have 7 new members and two returning members in March that we would like to welcome to the Southwest Ohio chapter.

Pam McGill is a new member and started in the plumbing rep business 13 years ago with Marketing Affiliates which is now Rep Source. She began in inside sales and provided quotes on their product lines. Last year she became full time outside sales and has recently added southern Ohio and Kentucky to her sales territory.

Chris Swank is a new member and is a mechanical engineer with Heapy Engineering specializing in plumbing design.

Tim Locker is currently a Plumbing and Fire Protection Designer with KLH Engineers in Northern Kentucky. Tim started his engineering career back in 1985, when he worked at Eastman Kodak, Co. in Rochester New York where he worked in the Architectural and Engineering Services division, as well as the Research Technical and Algorithm Division for 12 years. He then worked at Erdman Anthony & Associates for 5 years, after which he moved to northern Kentucky and worked at Jacobs Engineering and for Hixson Inc.. Tim is a returning member to ASPE and when not doing plumbing engineering he dedicates his time as a Professional Thoroughbred Racehorse Trainer in northern Kentucky.

Kelly O'Brien is a returning member to ASPE and works with KLH Engineers and specializes in plumbing design.

Kevin Witte is a new member to ASPE and has been doing plumbing and fire protection design with KLH Engineers for the last six years. His main focus is on hospital projects but also works in Retail, Commercial, Civic and Education.

A.J. Meyer is also a new member to ASPE and is a plumbing and fire protection designer with KLH Engineers. He has been with KLH for four years mostly working on Commercial projects specializing in designs for multi-story hotels, apartments and condos. A.J. has also worked on Healthcare and Education projects.

Derek Grundy, John Jordan and Kevin Nolan are also a new members to ASPE and are plumbing designers with KLH Engineers.

A special thanks goes out to Keith Schloemer head of the plumbing department at KLH Engineers for his commitment and support of the Southwest Ohio ASPE chapter. We are all challenged to assure that our new members get the most value of the benefits that ASPE has to offer.

Total membership for this chapter stands at 73 which include 46 Full, 9 Associate, 11 Affiliate and 7 Special members.

-Ron Cobb, PE, CPD

CWW Charles M. Bolton Plant - March ASPE Tour

Just wanted to share some of the highlights of last month's meeting, our tour of the CWW Bolton Water treatment plant. This is in no way is an exhaustive detailing of water treatment intricacies, but some interesting facts I encountered. Having never been inside a water treatment plant, this was a very interesting tour for me and I think all who attended! See below for reference pictures.

There is definitely more to this plant than what you can see from the enclosed aerial view. You wouldn't believe the size of some of these pipes (36"+) and pumps located within the full basement, which has a ceiling height of roughly 30 ft.

Rather than taking water from the adjacent river (which entails different treatment requirements), this plant utilizes large wells along a 1.5 mile stretch of the river bank, drawing water from the Great Miami Aquifer. These wells manifold into a single pipe that runs somewhat parallel to the entrance drive, and then to a splitter house located in the center of the four circular mixing and settling tanks. Since the source water is from wells, these pools take care of the softening treatment for the plant water by way of mixing the water with lime, which has been trucked in. The lime resides in the closest adjacent building, and is distributed to the two southern tanks via open troughs. The water is transferred to the two most northern tanks for further mixing (reaction with hard water) and settlement. Have you ever wondered what those beautiful cyan blue ponds are? Whatever lime fails to react with the water or settles to the bottom of these tanks, is then pumped out to the lime "lagoons". Once the lagoons reach capacity, the lime is "trucked" away.

The water is then pumped from these mixing and settling tanks, mixed with chlorine, and sent to the

sand filtration and contact tanks inside the building (northern most building between the lime tanks and the lagoons). After passing through these tanks, the water is then ready to be pumped out and distributed for use (at about 175 psi).

Despite the enormity of this plant, and the millions of gallons processed per day, this plant only produces about 12% of the Cincinnati area water needs, mostly feeding the Colerain and Western Hills side of town.

Our thanks goes out to our tour guide (Katie Jamriska) for her time and her many valuable insights on the plant operations. This was a very intriguing

visit, and I highly recommend you take the time out of your schedule the next time this or any other water plant tour comes around again.

-Bob McGinnis, CPD





▶ What do the Beach Boys, Mickey Mouse, and T&S low-lead faucets have in common?



▶ They all got their start in California, and they all swept the nation. Although California led the way with the AB1953 legislation mandating low-lead faucets, it's only a matter of time until they are required in all states. And T&S is ready — all of our faucets are low-lead compliant and are available across the country. And, as always, T&S faucets are as rugged and reliable as they come, and meet the requirements of the Buy America Act. Contact your sales rep for more information.

Mickey Mouse® and the Beach Boys® are trademarks of Disney Enterprises, Inc. and Brothers Records, Inc., respectively, and T&S Brass has no affiliation with either such entity.

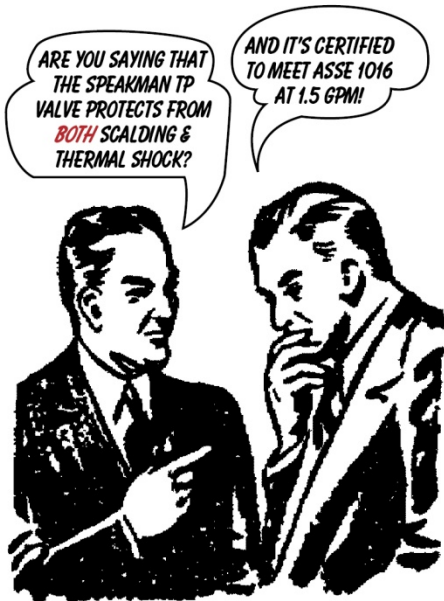


contributing to LEED certification



RELIABILITY BUILT IN™
www.tsbrass.com • 800.476.4103

T&S plumbing products represented in Southwestern Ohio by:
Midwest Spec - 800-755-7732



THE NEW SPEAKMAN T/P VALVE 1.5 IS HERE

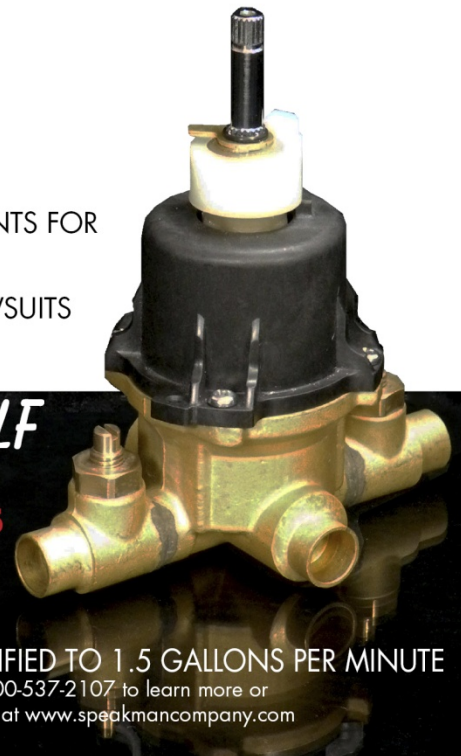
NO MORE EASY LEGAL SETTLEMENTS FOR HOSPITAL AND HOTEL SCALDING & FALLING PERSONAL INJURY LAWSUITS

DEFEND YOURSELF

Specify the new **SPEAKMAN T/P VALVE 1.5** for maximum protection

SPEAKMAN®
Absolutely the best.

CERTIFIED TO 1.5 GALLONS PER MINUTE
Call 800-537-2107 to learn more or visit us at www.speakmancompany.com



...THE LAW FIRM OF ROBBEM, CHEATEM, AND BLINDEM IS DOWN IN THE DUMPS... WHY?

DISNEY MCLANE & ASSOCIATES

428 McGregor Avenue
Cincinnati, OH 45206
P: 800-542-1682

Lifetime Guaranteed Chemical Waste Tanks

Guess you could say we pass the acid test.



Treatment & Containment Tanks

- From 2 thru 2,000 gallons
- Polyethylene or polypropylene
- Above and below grade designs
- Single or double wall construction

Monitoring & Treatment Systems

Whether you are looking to monitor and record your facility's pH levels, actively treat pH levels, or design a multi-phase system for separating greases, oils and sediments and then treat pH, Schier Products can consult, design and manufacture your system. Schier's state-of-the-art EVR analyzer panel is a color LCD paperless recorder with up to 2 years of information storage, is Ethernet ready, and can control multiple inputs and outputs simultaneously.



Call us for a quote today!

Catalog available in print or online



grease interceptors



oil separators



solids interceptors



chemical waste tanks



stainless steel drains

1-800-827-7119 • www.schierproducts.com • Made in the USA



Your Schier Products representative
for Southern Ohio & Kentucky:

StreamKey

10515 Reading Rd | Cincinnati, OH 45241

(T) 513-792-1221 | (F) 513-792-1223

www.streamkey.com



Manufacturer's Representative
of quality plumbing products
since 1956



AQUARIUS™







Visit us at WWW.BWASOUTH.COM









April/May 2012						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8 Easter	9	10	11	12 Spring to it and make your reservations!	13	14
15	16	17 SWO ASPE Chapter Meeting	18	19	20	21
22	23	24	25 Administrative Professionals Day	26	27	28
29	30	1	2	3	4	5 Cinco de Mayo

Directions to Nibco

From Cincinnati and the South:

-  Take **I-71 North**
-  Take exit number 28 and merge onto **OH-48 N/US-42 Bypass W** toward **Lebanon**
-  Turn **left** at **Fujitec Dr/Township Rd 16** (The first traffic light)
-  Take the 1st **right** onto **Henkle Dr** (Destination will be on the right)

From Franklin, OH and the West (i.e. Elkhart, IN):

-  From **I-75 North or South**, take exit **36** for **OH-123** toward **Franklin/Lebanon**
-  Turn **left** at **Franklin Landing/Franklin Lebanon Rd/OH-123 S** and follow **OH-123 S**
-  Turn **left** at **OH-122 E/OH-123 S** and follow **OH-122 E**
-  Turn **right** at **OH-48 S**
-  Turn **left** at **Miller Rd**
-  Continue onto **OH-48 S/US-42 Bypass E**
-  Turn **right** at **Fujitec Dr/Township Rd 16** (If you reach I-71, you went too far)
-  Take the 1st **right** onto **Henkle Dr** (We will be on the right)