

**Cleveland Chapter of The American Society of Plumbing Engineers
January 2017**

CHAPTER OFFICERS

President

JOHN VARGA, P.E.
Scheeser Buckley Mayfield, Inc.
Email: jvarga@sbmce.com
(330) 896-4664
(330) 896-9180 (fax)

V.P. Technical

DIETER HAUSMANN, P.E. CPD, LEED AP
TES Engineering
Email: kdhausmann@tesengineering.com
(440) 871-2410

V.P. Legislative

KEVIN CONYNGHAM
Libb Company Inc.
Email: kevinc@libbco.com
(800) 362-9719
(800) 451-0221 (fax)

V.P. Membership

GREG TROMBOLD
Trombold Equipment Company
Email: gtrombold@hotmail.com
(216) 663-8700
(216) 663-8702 (fax)

Treasurer

KEVIN NOBLE, P.E., LEED AP
Scheeser Buckley Mayfield, Inc.
Email: knoble@sbmce.com
(330) 896-4664 ext. 114
(330) 896-9180 (fax)

Administrative Secretary

DAN EVANS, P.E., CPD, GPD, LEED AP
HEI Engineering Group, Inc.
Email: evans@hei-ohio.com
(330) 262-0042
(330) 262-0392 (fax)

Corresponding Secretary

CRAIG McDOWELL
Omar McDowell Company
Email: craig@omarmcdowell.com
(440) 808-2280
(440) 808-2266 (fax)

Affiliate Liaison

KATHY KIRSCHNICK
Clark Reliance Corporation
Email: kkirschnick123@gmail.com
(440) 572-1500

(216)904-6656 (cell)

Newsletter Editor

MICHAEL DRAB
Thorson Baker & Associates, Inc.
Email: mdrab@thorsonbaker.com
(330) 659-6688
(330) 659-6675 (fax)

From the President:



Happy New Year! I would like to thank Jason Shank and Plumber's Local 55 for inviting the ASPE Cleveland Chapter for touring their facility in December.

The January Technical **Lunch** Session will be held at Crown Plaza (Skyline Ballroom) located at 5300 Rockside Road, Independence, Ohio 44131 on January 11, 2017.

11:30 – Lunch / Meet and Greet
12:00 – 1:00 Cast Iron Piping System

Applications presented by Pat McQuillan with New Age Casting.

Please RSVP by January 6, 2017 with Kevin Noble at knoble@sbmce.com.
Registration is required. No Walk-Ins on day of event. \$26 per person.

The following are some important dates to keep in mind for this year!

- CPD registration Opens on January 4, 2017
- Alfred Steele Scholarship submission: January 31, 2017
- Symposium call for presenters: February 1, 2017
- Engineers Week: February 19-25, 2017
- World Plumbing Day: March 11, 2017
- CPD exam dates April 6&7, 2017
- ASPE Symposium - Montreal, October 19-22, 2017 (Passports are required for travel.)
- College of Fellows applications for submission January 31, 2018

Let us know if there are any specific topics or field trips you would like to see our chapter sponsor. We are always looking for new ideas. Remember, without membership and participation, there is no local chapter.

Regards,
John A. Varga, P.E.
President, ASPE Cleveland Chapter

Alfred Steele Scholarship

Want some help getting your degree in engineering?
Apply for the ASPE Alfred Steele Scholarship. Up to \$3,000 in scholarship monies may be awarded each year to qualified applicants.

The Deadline is January 31!

**2016-2017 ASPE Meeting/Plumbing Class Schedule
January 2017**

<u>Date – Time – Place</u>	<u>Agenda</u>	<u>Speaker</u>	<u>Exhibitors</u>
September 14, 2016 – 6:00 PM Cleveland Yachting Club	Clam Bake Topic – Social Event ASPE Cleveland Chapter	N/A	N/A
October 12, 2016 – 6:00 PM Harry's Steakhouse Cost: \$26.00	Topic – Total System Approach for Grease Management	Vince Scriboni Territory Manager Green Turtle / Zurn	Campbell Equipment Co.
November 9, 2016 – 6:00 PM Harry's Steakhouse Cost: \$26.00	Topic – Siphonic Roof Drain Systems	Bill Shockley Wade Drains	TOTO RepSource
December 14, 2016 – TBD Harry's Steakhouse Cost: \$20.00	Topic – Plumbers Local 55 Training Facility Tour	Plumbers Local 55 Staff	
January 11, 2017 – Noon Crown Plaza Hotel in Independence Cost: \$26.00	Topic – Cast Iron Soil Pipe Systems: Applications, Economics and Advancements	Pat McQuillan National Sales Manager NewAge Casting	Musillo Sales
February 8, 2017 – Noon Harry's Steakhouse Cost: \$26.00	Topic – Domestic Water Booster Pump Systems	Jason Kresner Application Engineering Manager Syncroflo	
March 8, 2017 – 6:00 PM Harry's Steakhouse Cost: \$26.00	Topic – PP-RCT Piping Systems		
April 12, 2017 – TBD TBD Cost: \$26.00	Topic – Tour TBD		
May 10, 2017 – 6:00 PM Harry's Steakhouse Cost: \$26.00	Topic – Acorn Vacuum Plumbing Systems	Ron Mims Acorn Engineering	


2016-2017 ASPE Meeting/Plumbing Class Schedule
January 2017

The above is the meeting/plumbing class schedule for the 2015-2016 ASPE year. Updated information will appear in subsequent newsletter issues. All meetings will be at Harry's Steakhouse, 5664 Old Brecksville Road, Independence unless otherwise indicated. The meeting/plumbing class, including dinner, is \$26.00. Reservations are required. A mini product show will be held before each meeting/plumbing class highlighting some of the materials discussed in class or products that will assist the engineer in understanding what they are designing or specifying. All plumbing classes will qualify for 0.1CEU hours and will assist in preparation for the ASPE CPD examination.

The following times will be enforced as strictly as possible.

Make your reservations a minimum of two days before the meeting/class and try to be on time.

- Mini product show 5:00 to 6:00 Dinner 6:00
- ASPE business 6:30 Plumbing Class 6:45 to 7:45




Sponsored by
DELTA
see what Delta can do

Women of ASPE

Dedicated to **engaging, retaining,**
and **advancing** women in the plumbing
design industry through:

- Mentoring programs
- Membership outreach
- Partnerships with industry-related
associations
- Educational and leadership offerings

To join WOA, email skidd@aspe.org
For more information, visit aspe.org/woa





www.tsbrass.com
800.476.4103



**LEAD-FREE.
WORRY-FREE.
HASSLE-FREE.
4 YEARS EARLY.**

With new national lead-free legislation taking effect in 2014, there's been a lot of talk about making the switch. Here's the truth: T&S was the first fixture, faucet and fitting manufacturer to convert its entire line to lead-free alloys back in 2010.

So when you purchase a T&S faucet today, you're already lead-free compliant. No worries. No hassle.

Visit tsbrass.com/literature to download a free brochure about our lead-free products, or contact your local T&S rep for more information.



T&S plumbing products represented in Cleveland by: Midwest Spec - 800-298-0401

Trombold

Equipment Company

our website: www.trombold.com

If you need to move water call us we can help!

*Storm and sewage—Weil
Domestic boosters - Delta P Carver
Fire—Patterson*

Phone 216-663-8700 Fax 216-663-8702



mwspec.com

"Where Service + Knowledge = Solutions"



Elkhart Products Corporation



Cleveland Line Card

Call — 440-944-7500

MASTROIANNI & ASSOCIATES, INC.

Manufacturers' Representative of Products for the Mechanical Trades Since 1984

HOT WATER PRIMETER HEATING, STEAM, ELECTRIC RADIATORS, TOWEL WARMERS

RUNTAL RADIATORS www.runtalnorthamerica.com

LINK SEALS, PIPE SLEEVES, GASKETS

LINK SEAL , GARLOCK , PSI, THUNDERLINE, GPT www.linkseal.com

BARCO BALL JOINTS, PACKED SLIP JOINTS, BELLOWS EXPANSION JOINTS, VENTURI FLOW METERS, SEISMIC 'V'-LOOPS

HYSpan PRECISION PRODUCTS www.hyspan.com

HEAT EXCHANGERS (SHELL & TUBE), REPLACEMENT TUBE BUNDLES, AIR/DIRT SEPARATORS AIR PURGERS, AUTOMATIC AIR VENTS, PUMPS, SUCTION DIFFUSERS, TRIPLE DUTY VALVES

THRUSH CO www.thrushco.com

DOMESTIC WATER BOOSTER SYSTEMS, SKID MOUNTED HVAC PACKAGES

TIGERFLOW SYSTEMS www.tigerflow.com

HYDRONIC BALANCING VALVES (AUTOMATIC & MANUAL), "COIL PAKS", METERING STATIONS

NEXUS VALVE www.nexusvalve.com

HUMIDIFIERS (STEAM, ELECTRIC, GAS)

PURE HUMIDIFIER www.purehumidifer.com

EXPANSION TANKS, BUFFER TANKS, AIR SEPARATORS, GLYCOL MAKE-UP SYSTEM

JOHN WOOD CO www.johnwood.com

CONDENSATE / BOILER FEED / VACUUM PUMP PACKAGES, END SUCTION & SPLIT CASE PUMPS SUMP PUMPS & OIL MINDING PUMP SYSTEM

FEDERAL PUMPS CO www.federalpumps.com

PLATE & FRAME HEAT EXCHANGERS

POLARIS www.polarisphe.com

PUMPS: END SUCTION, SPLIT CASE, VERTICAL IN-LINE, VERTICAL TURBINES

FEDERAL PUMPS CO www.federalpumps.com

CHECK VALVES, STRAINERS, BUTTERFLY VALVES, GROOVED PRODUCTS

MUELLER STEAM SPECIALTIES www.muellersteam.com

FLEX CONNECTORS, EXPANSION JOINTS, NESTED LOOPS, PIPE GUIDES

GENERAL RUBBER CO., ENGINEERED FLEXIBLE PRODUCTS... www.general-rubber.com
..... www.engineeredflex.com

VIBRATION ISOLATION

VIBRATION ELIMINATOR CO www.veco-ny.com

PRE-INSULATED PIPE SHIELDS

VALUE ENGINEERED PRODUCTS www.valueng.com

7601 First Place Drive ~ Ste A- 13 ~ Phone: 440.786.1100 ~ Fax: 440.786.1103

www.mastroiannihvac.com

The Bradford eF Series[®]

The Best All-Around Ultra High Efficiency Commercial Gas Water Heater

The celebrated eF Series[®] from Bradford White is a time-tested top performer. These unequaled commercial water heaters utilize exclusive technologies for unsurpassed efficiency, installation flexibility, and quiet operation. With numerous venting options and the integrated ICON HD™ intelligent control system, the eF Series[®] is perfect for multiple applications including restaurants, office buildings, healthcare facilities, hotels, schools & universities, stadiums, industrial buildings, and more.



Committed to American Manufacturing,
Wholesale Distribution, and Professional Installation.


BRADFORD WHITE
WATER HEATERS
www.bradfordwhite.com

Mike Varley

Preferred Sales

724-699-2456



WOW

Expand your commercial business with large-dimension Uponor PEX piping and ProPEX[®] fittings.

Plenum-rated, full-flow, commercial-grade, PEX-a pipe for domestic water, radiant and hydronic piping.

uponor



uponorengineering.com/commercialpiping

ASPE Mentoring Program

The Women of ASPE are excited to introduce ASPE's new Mentoring Program!

This program, which is available to all members of the Society, has been designed to connect ASPE members who have a particular skill set (mentor) with individuals (mentee) who are searching to acquire the same skills to develop and make progress toward their personal and professional goals.

Who Is a Mentor?

A mentor is someone who can help the mentee develop skills for success and long-range career planning, is able to be a good listener, is willing to share experiences and views, is willing to commit time and effort, provides an "open door" to questions and problems, points out both strengths and opportunities for improvement, and has a vested interest in the growth and development of their mentee.

Benefits to the mentor:

- Satisfaction in helping someone mature, progress, and achieve goals
- Meeting and sharing experiences with other mentors
- Personal ongoing support to help the mentee succeed
- Personal fulfillment through contribution to the Society and the individual

Who Is a Mentee?

Having a mentor can contribute to a successful and satisfying career. Without a mentor, that learning occurs mostly through trial and error. With a mentor, even experienced professionals can benefit from the experiences and expertise of someone who has withstood the trial and can help the mentee avoid the mistakes. Similarly, those new to the industry will discover that being a mentee shortens the learning curve for acquiring the skills and knowledge most critical to a fruitful career.

Benefits to the mentee:

- Discover new talents about yourself
- Career satisfaction
- Expand your personal network
- Maximize your strengths

aspe.org/aspe-mentoring-program



MEET YOUR NEW “GO-TO” PRODUCT

APPLICATIONS: Potable, Food grade,
HVAC, Domestic Hot & Cold,
Greywater, Industrial,
Fire sprinkler, Irrigation,
Geothermal, Radiant Heating
& Cooling

- CORROSION FREE PP-R
- 10-YEAR WARRANTY
- LEAK-FREE HEAT FUSION JOINTS
- 75% REDUCED LINEAR EXPANSION
- 1/2” TO 4” SOCKET FUSION
- 6” TO 24” BUTT FUSION



614-876-2477
www.aquatherm.com

BWA
SOUTH


aquatherm

Checklist for Cast Iron to PVC VE Discussion

Item: Maximum Working Temperature (at zero psi)	YES	NO
Will system exceed 140° F by design or accident? <i>Boiler condensate, comm. kitchen, washing machine, autoclaves?</i>		
Fact: PVC maximum working temperature is 140° F.		
Fact: CISP maximum working temperature is 212° F.		
Item: Thermal Expansion	YES	NO
What is the air temperature at the time of installation?		
What is the maximum temperature of the system?		
What is the potential maximum change in temperature?		
Does contractor have expansion couplings and/or off-sets figured into bid?		
Access to expansion couplings for possible replacement/maintenance?		
Fact: PVC will expand 3.6" per 100' of pipe with a 100° F temperature change.		
Fact: CISP will expand .745" per 100' of pipe with a 100° F temperature change.		
Item: Sound Attenuation	YES	NO
Will anyone be sleeping, convalescing, studying or working in the facility (<i>i.e., Hotels, Dormitories, Hospitals, Schools, Libraries, Retirement, Convalescing Facilities, Shared Wall Condos & Apartments, Correctional Facilities, Quiet Work Areas, etc.</i>)?		
Fact: PVC requires added insulation wrap & isolation brackets for quiet performance required in many buildings.		
Fact: Cast iron requires no insulation wrap because of its natural noise-dampening qualities with consistent sound performance levels in the 25 dB range (utilizing neoprene gaskets).		
Item: Underground Installation	YES	NO
Will contractor be installing PVC with ASTM D 2321 protocol?		
Will contractor be supervised during installation of underground PVC to assure required trench width, trench bottom and proper soil compaction?		
Does contractor have proper backfill material figured into his bid?		
Will the DWV system be installed under concrete? <i>Are the consequences of an underslab failure significant?</i>		
Fact: As a flexible piping system PVC requires greater care in underground application. It is dependent upon the surrounding soil (soil pipe mechanism) in order to withstand an external load. PVC pipe is considered to be in a failed condition when earth or live loads have caused the pipe to deflect beyond a certain point, generally 5%. Calculating maximum burial depths for flexible piping systems is more complex and requires the use of the Iowa Formula, pipe stiffness values for the system employed and knowledge of local soil conditions. Additional information of the Iowa Formula is available within the Uni-Bell Handbook of PVC Pipe.		
Fact: As a rigid material CISP fails when it crushes. Rigid piping systems can be evaluated with a ring crush test, and the derived values can be used to verify that the pipe will withstand the required external load.		
Item: Hanger Spacing/Fall	YES	NO
Has the cost of additional hangers and their installation been considered?		
Fact: Model Plumbing Codes require PVC DWV pipe to be supported horizontally every 4 feet.		
Fact: CISP offers greater structural strength, significantly reducing hanger requirements and providing consistent fall. Cast iron needs to be supported within 18" of each joint and every 10 feet horizontally.		
Item: Plenum Spaces	YES	NO
Does the building utilize plenum spaces for return air?		
If wrapping PVC to meet ASTM E 84 is permitted by code, will a post cable/telecomm/HVAC installation inspection occur to make sure pipe/fitting wrap is not damaged or disturbed?		
Fact: PVC should not be installed in a plenum. It is classified as a combustible material per ASTM E 136.		
Fact: Cast iron is a non-combustible product, which can be installed in a return air plenum.		
Item: Fire Wall Penetrations	YES	NO
Has contractor added the cost of fire-stopping materials and labor or will that be passed along to another trade?		
Fact: PVC requires listed fire-stop devices or collars conforming to the requirements of ASTM E 814 on both sides of the fire-rated wall. The collars utilize intumescent fire-stopping materials.		
Fact: Cast iron requires installers to only seal the annular space between the wall and the pipe. Typically mineral wool batting and fire-resistant caulking are used to fill the annular space.		

If you answered yes to any one of these questions, please consult a Charlotte Pipe technical services rep to further discuss the best material for your project.



The Plumbing Engineers' Best Solution



www.htproducts.com

*High
Efficiency*



The Phoenix

316L Stainless Steel Tank

- 55 to 119 gallon units
- 100 to 199K Btuh units
- Venting: PVC / CPVC
- Up to 97% efficiency
- Load matching modulation
- 5:1 turndown ratio



Everlast

Lifetime Residential Warranty
Electric Water Heater

- 316L stainless steel tank
- No anode rods needed
- Precision laser welding
- Lightweight
- Highly efficient 2" foam Insulation
- 10 Year Limited Commercial Warranty & Lifetime Limited Residential Warranty (with online registration)

Stainless Steel



Phoenix LD

316 Stainless Steel Tank

- 50 to 80 gallon units
- 76K Btuh units
- No anode rods needed
- Venting: PVC / CPVC
- Up to 97% efficiency
- Load matching modulation
- Up to 154 gal. 1st hr. rating



(614) 876-2477
Hilliard, Ohio



107 Cypress Street S.W. Reynoldsburg, OH 43068
 phone: 740.927.6880 or 888-927-4244 fax: 740.927.4545

www.RepSourceLLC.com

Manufacturers Representatives Serving Plumbing, Mechanical, Electrical, Architectural and Water Treatment Industries. Representing the following product lines:

A Better Idea/Quick Block/EZ Sleeper www.pipeease.com	<i>E-Z Sleeper / Quick Block</i> – Rooftop pipe support blocks
ABT – Polydrain www.abtdrains.com	Pre-sloped polymer trench drains, <i>Trench Former</i> – pre-sloped trench drains systems.
Bradley Corporation www.bradleycorp.com	<i>Advocate</i> all in one hand washing stations, washfountains, <i>Express</i> and <i>Frequency</i> lavatory systems, <i>Navigator</i> thermostatic mixing valves, showers, safety equipment, metering faucets, security fixtures, patient care units, <i>Terreon</i> solid surface products, <i>Evero</i> natural quartz products.
Cool Drain Flow www.coolrainflow.com	Drain Line Tempering Kits for commercial kitchen equipment, boiler blow down drain lines, condensate return, heat exchanger and dehumidifier lines to temper drain water below 140 deg F.
Creative Industries www.creative-terrazzo.com	Pre-cast terrazzo shower floors, mop basins, concrete laundry tubs and stairs or benches, terrazzo or concrete or glass counter tops and custom terrazzo products.
Eemax www.eemaxinc.com	Electric Instantaneous water heaters, DI and booster heaters, emergency shower eyewash heaters.
Hydrotek www.hydrotekintl.com	Sensor operated Faucets, Flush Valves and Showers. Solar powered AC and DC operation. All products comply with the ARRA and BAA and are available in 2014 low lead requirements.
Just Manufacturing / EBC www.justmfg.com	Stainless steel commercial, institutional & residential sinks. <i>EBC</i> stops/supplies, cast p-traps, cast & tubular waste fittings.
Keltech www.Keltech-inc.com	Electric Instantaneous water heaters. (A subsidiary of Bradley Corporation)
Liberty Pumps www.libertypumps.com	Sump, drain and condensate, effluent, sewage, grinder, macerating toilet and engineered pump system packages.
Marlo www.marlo-inc.com	Commercial & industrial water softeners, media filters, reverse osmosis, dealkalizers and deionized water treatment equipment.
Oasis International www.oasiscoolers.com	Oasis International, headquartered in Columbus, Ohio, manufactures and distributes a wide range of water dispensing solutions under the <i>Oasis</i> and <i>Sunroc</i> brands.
Plumberex www.plumberex.com	<i>Pro-Extreme</i> , <i>Trap Gear</i> , <i>Handy Shield Maxx</i> and <i>Clear Shield</i> lavatory trap and riser insulation kits. <i>Mushroom Flange</i> and <i>Floor Sink Carrier</i> specialty products.
Raychem / Pentair Thermal Heat Tracing www.pentairthermal.com	<i>HWAT-Plus</i> self-regulating heating cable system for domestic hot water, <i>XL-Trace</i> freeze protection cable, <i>Pyrotanax MI</i> and <i>Electromelt</i> snow and anti-icing cable, <i>IceStop</i> roof and gutter de-icing cable, <i>RaySol</i> floor warming and freezer frost heave cable, <i>QuickNet</i> floor heating cable.
Schott Scientific Glass / Kimax www.us.schott.com/drainline	Glass piping for acid waste and containment piping systems. <i>Knight-Ware</i> acid neutralizing sumps.
Summit Ice Melt Systems www.summiticemelt.com	Roof Ice Melt Systems. <i>Radiant Edge HotSlot</i> , <i>Radiant Edge LT</i> , <i>Radiant Edge PRO</i> , <i>Radiant Edge LowSlope</i> , <i>Radiant Edge Valley</i> , <i>Heated Standing Seam Metal Roofing</i> .
Tyler Pipe www.tylerpipe.com	American made CISPI, Cast Iron Pipe ,Fittings, and Couplings.
Wade Drainage www.wadedrains.com www.hydromax.com	Cast iron floor drains, floor sinks, roof drains, cleanouts, carriers, interceptors, hydrants, shock absorbers, trap primers, access covers,, trench drains, <i>Hydromax</i> Siphonic Roof Drainage System.
Water Control Corporation www.watercontrolinc.com	Rainwater Reclamation Systems with Ultraviolet or Ozone purification, vortex downspout separators, storage tanks and complete controls for turnkey systems.
Waterless Company www.waterless.com	<i>Waterless</i> “No Flush” vitreous china and fiberglass urinals with <i>EcoTrap</i> and <i>Blue Seal</i> liquid, <i>UTC Sentinel</i> sensor flushing systems. <i>Everprime</i> floor drain trap primer liquid. <i>Greencleen</i> chemicals.
Xerxes www.xerxes.com	Fiberglass oil, grease, solids interceptors, and decontamination tanks..
Additional Products Distributed: www.repsourcellc.com	Bathroom Partitions (solid plastic, baked enamel, stainless steel, laminate and phenolic), Bathroom Accessories, Lockers (solid plastic and metal), Water Treatment Products.

**Odorless.
Worryless.
Costs less.**



**LEED®
Applicable!**

WATERLESS™

No-Flush™ Urinals



RETROFIT / NEW CONSTRUCTION

- Lowest Long Term Cost
- Most Simple System
- Longest Installation History
- No Overflows
- Reduces Waste Volume
- Reduces Vandalism

PROFESSIONAL CONSERVATION™, SINCE 1991

RepSource, LLC

107 Cypress Street S.W., Reynoldsburg, OH 43068

740.927.6880 or 888.927.4244

www.waterless.com



*Finally -
A Simple Solution
to an Age Old
Plumbing Problem*

EVERPRIME®
Simply Add It ...and Forget It!

Works great in unused floor and shower drains, sinks and water fountains, toilets/urinals, condensate drains and other unprimed or unused drains.

Yep, it's that good!



Paired with Sloan High-Efficiency Flushometers, our Commercial Toilet and Urinal Systems take water efficiency to the next level.



All Sloan Flushometers are made from a high level of recycled material and are 100 percent recyclable.



Sloan Bio-Deck Sinks utilize natural materials such as corn cobs and other renewable domestic agricultural materials.



Dual-Flush Side Mount Retrofit is a fast, easy way to reduce water consumption.



Sloan Hands-Free Faucets promote cleanliness, hygiene and overall health benefits.



Monitoring Systems reduce operating costs and decrease water consumption.

Water Power

To arrange a personal consultation, call us at **800.982.5839.**

Every day around the world, Sloan advanced integrated water management systems provide elegant, efficient and hygienic washroom solutions for any commercial environment.

SLOAN®

Water Connects Us™



Call — 440-944-7500

LSC

LAKE SIDE SUPPLY COMPANY

Serving Northern Ohio Since 1933



Lakeside Supply Company was founded in 1933 as a wholesale vendor of plumbing, heating, and industrial supplies to the northern Ohio marketplace. Over the years we have endeavored to provide services and products of the highest quality to the contractor, industrial, and commercial marketplace.

3000 West 117th Street
Cleveland, OH 44111-1667
Ph. 1-800-537-1234
Ph. 216-941-6800
Fax 216-941-8408
sales@lakesidesupply.com

SERVICES

Valve Automation
Electric & Pneumatic
Lakeside Managed Store Rooms

TOOLS

RIDGE TOOL
LENOX
CHAMPION
REED MFG
WHEELER-REX

SUMNER MFG

RAWL
JET-SWET
COB PIPE FREEZING
PASCO SPECIALTY TOOLS
CHERNE TEST BALLS
CHANNELLOCK
GOSS TORCHES
TURBOTORCH
VERMETE
Street Keys

Grinding Wheels & Brushes
Extension Cords & Gf's

TOOL RENTALS

VICTAULIC-GROOVING MACHINE
ENFUSION TOOL
ENPURE TOOL
MCELROY FUSION PPR
RIDGE PRO-PRESS
EXACT PIPE CUTTING SYSTEM

Please visit lakesidesupply.com/products for full listing

Hours: Mon-Fri 7:30 am 5:00 pm | City Counter Open: Mon-Fri 7:30 am-4:30 pm | Closed for National Holidays

Advance Thermal Corp.

Removable Insulation & Acoustic Covers

Aerco

Northern & Central Ohio

Commercial Condensing Boilers

Commercial Condensing Water Heaters

Bell & Gossett

Balance Valves

Automatic Flow Limiting

Manual Flow Limiting

Pressure Independent Control

Centrifugal Pumps

Base Mounted

Close Coupled

Double Suction

Horizontal Split Case

In-Line

Multi-Stage

Heat Exchangers

Shell & Tube

Plate Heat Exchangers

Replacement Tube Bundles

Heat Transfer Packages

Hydronic Specialties

Pressure Booster Systems

Submersible Pumps

Variable Speed Systems

Vertical Turbine Pumps

Expansion/Compression Tanks

Bobco

Differential Gauge Kits

Bock Water Heater

Gas Fired Water Heater

Electric Water Heater

Oil Water Heater

Indirect Water Heater

Solar / Geo Thermal Water Heater

Burnham Commercial

Scotch & Firetube Boilers

Low Nox Boilers

Deareators & Boiler Accessories

Cemline Corp.

ASME Tanks

Boiler Blowdown Separators

Condensate Coolers

Hot Water Storage Heaters

Packaged Water Heaters

Replacement Tube Bundles

Stone Steel Lined Tanks

Unfired Steam Generators

Danfoss

Greater Toledo Area

Variable Frequency Drives

Motor Soft Starters

Domestic Pump

Boiler Feed Systems

Condensate Return Pumps

Pressure Powered Pumps

Vacuum Pumps

Dow Heat Transfer Fluids

Dowtherm* SR-1 Ethylene Glycol

Dowfrost* - HD Propylene Glycol

Dri-Steem

Greater Toledo Area

Steam Injection Humidifiers

Gas To Steam Humidifiers

Steam To Steam Humidifiers

Electric Steam Humidifiers

Evaporative Humidifiers

Ultrasonic Fog Humidifiers

Fluid Design Solutions

Boiler Plant Packages

Custom Mech. Room Pumping Pkgs

Packaged Snowmelt Solutions

Solar Pump Packages

Goulds / G&L Commercial

End Suction Pumps

Vertical Multi-stage

Pressure Booster Systems

Vortex Waste Water

Griswold Controls

Automatic Balance Valves

Manual Balance Valves

Pressure Independent Control Valves

Coil Hook-up Kits

Griswold Water Systems

Chemical Free Water Treatment

Centrifugal Separators

Sand Filter Systems

Heatfab

Northern & Central Ohio

High Performance Chimneys & Vents

Hoffman Specialties

Steam Traps & Specialties

Condensate Return Pumps

Pressure Regulating Valves

Vacuum Pumps

Kadant Johnson

Pressure Powered Pumps

Laars Heating Systems

Residential/Commercial Boilers

Commercial Water Heaters

Commercial Pool Heaters

McDonnell & Miller

Boiler Safety Controls

Level Controls

Flow Switches

Metraflex Company

Flexible Pump Connectors

Expansion Joints & Guides

Non-Slam Check Valves

Ball & Butterfly Valves

Miljoco

Pressure Gauges

Thermometers

Accessories

Niles Steel Tank

Glass Lined & Steel Storage Tanks

Peterson Equipment Co.

Pressure/Temperature Test Plugs

Rovanco

Pre-insulated Pipe

Containment Pipe

Stingray Systems

Eye/Face Wash Solutions

Tepid Drench Shower Solutions

Solar Skies

Complete State of Ohio

Solar Panel Collectors

Tower Tech Cooling Towers

High Efficiency Cooling Towers

HVAC Cooling Towers

Process Cooling Towers

Power Generation Cooling Towers

Vertiflo

Pedestal Mount - Sump Pumps

Base Mounted Pumps

Vertical Pumps

Webster Engineering

Greater Toledo Area

Single & Dual Fuel Burners

Landfill Gas Burners

High Turndown Burners

Temp-A-Trim: Air Density Control System

Wessels Company

ASME & Glass Lined Storage Tanks

Glycol Fill Systems

Engineered Tanks

*Trademark of Dow Chemical Company

HIGHLY-TRAINED PLUMBERS

The Cleveland Plumbing Industry actively promotes the most rigorous and effective standards for our local contractors in the plumbing and mechanical industry.



We can embrace these high standards because our plumbing technicians receive the finest and most comprehensive training in the world - allowing our Northeast Ohio contractors to deliver the finest products, service and installation in only the safest of environments.



Working For Our Members:

- Plumbing Codes
- Medical Gas Training
- Back Flow Prevention
- Safety Services
- Labor Relations
- Education & Training
- Promotion
- Government Affairs

 **CLEVELAND
PLUMBING**
I N D U S T R Y

TOLL FREE: 855-CPI-4ALL (855-274-4255)

CLEVELANDPLUMBINGINDUSTRY.COM

The efficiency is as high as it gets.

**The duplex stainless steel tank
is almost an unfair advantage
against corrosion.**

CONQUEST

Condensing Water Heater

Up to 99%
thermal efficiency
at low fire

VFD Modulation

AquaPLEX® duplex
stainless steel tank
and heat exchanger

Requires no tank lining
or heat exchanger lining
and no anodes of any type



399 • 500 • 600 • 700
and 800 MBH Input

130 Gallons Storage



Engineered Water Heating Solutions

Represented by:

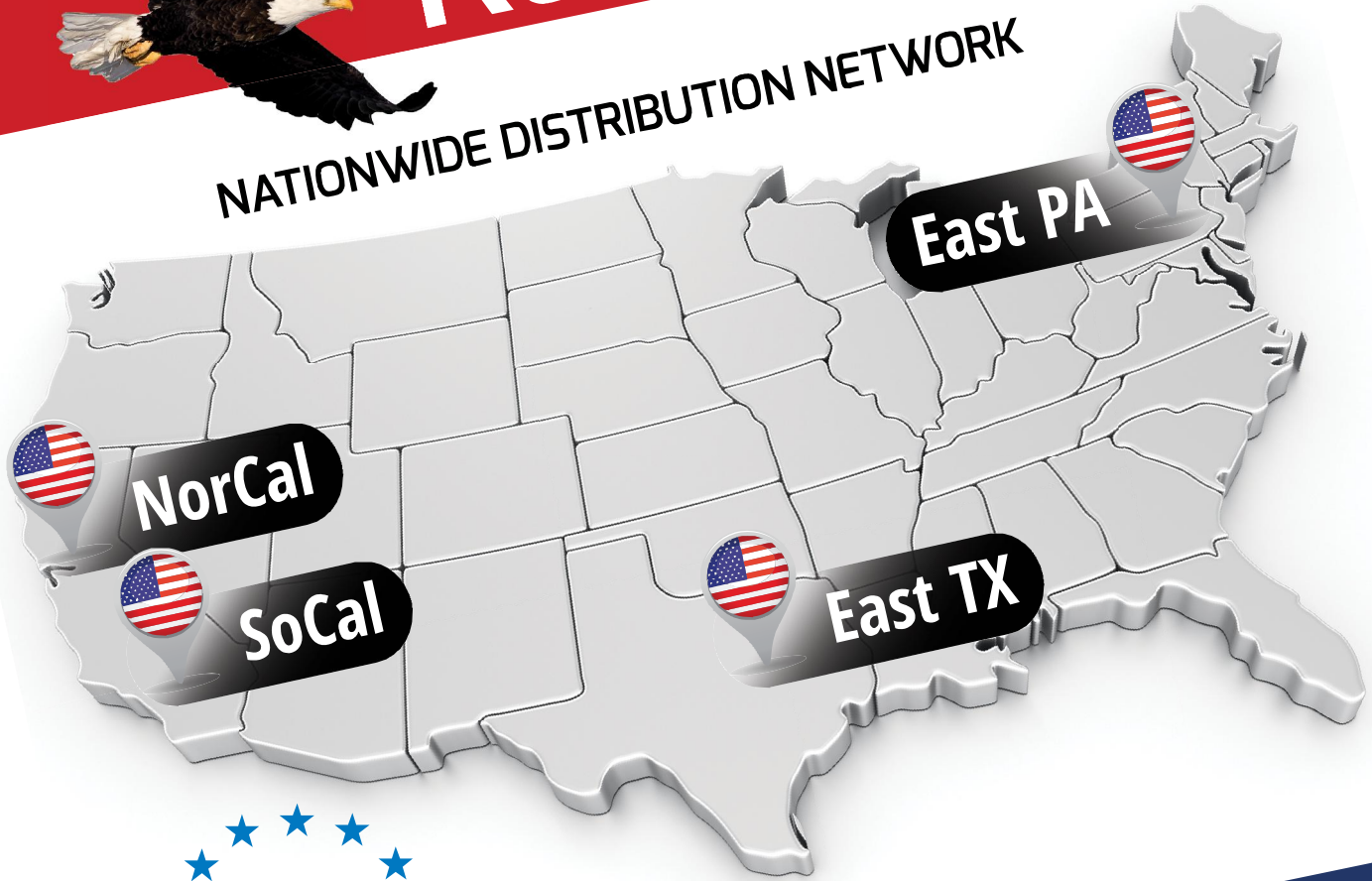
Omar Mc Dowell Co.
25109 Detroit Rd. #320
Westlake, Ohio 44145

P(440) 808-2280
F(440) 808-2266
craig@omarmcdowell



RELIABILITY

NATIONWIDE DISTRIBUTION NETWORK



Domestic Cast Iron Soil Pipe & Fittings

AB&I Foundry, founded in 1906, manufactures cast iron soil pipe and fittings for DWV plumbing systems. Based on RELIABILITY, our products are built to last with unsurpassed performance and durability. Best of all, they're made right here in the USA. See for yourself what a difference RELIABILITY can make. We invite you to learn more about our products by visiting ABIFoundry.com.

INTEGRITY and RELIABILITY—That's the AB&I way.



Learn more about reliable products and order our new product catalog at GotIron.us

ABIFoundry.com
800-GOT-IRON
(800-468-4766)
7825 San Leandro Street
Oakland, CA 94621



UNEQUALED QUALITY.

WOODFORD ROOF HYDRANTS: RELIABLE ROOFTOP WATER.

- Heavy-duty cast iron mounting system can be installed by roofer; hydrant can be installed later.
- RHY2-MS freezeless hydrants automatically drain when shut off, even with hose attached.
- Easy to repair from top of unit without removing hydrant.
- Five-year limited warranty.

*RHY2-MS
Woodford roof
hydrant plumbs
directly to drain*

*Woodford SRH
sanitary hydrant:
no drain required!*



WOODFORD MODEL 67 FREEZELESS WALL HYDRANT: BEST SELLERS.



Woodford 67 series are the best-selling commercial wall hydrants in the nation. With good reason.

They drain automatically, even with a hose attached. They're high flow and maintenance-free. They have fewer parts to wear out than competitive hydrants. And they won't freeze.

They're guaranteed for five years. They set the standard other faucets can only hope to reach.

WOODFORD



**WOODFORD
MANUFACTURING COMPANY**

Excellence. *Always.*


800.621.6032 • www.woodfordmfg.com





 **LIBCO
INC.**


Service • Support • Supply

Manufacturer's Representatives

7860 North Central Drive Lewis Center, OH 43035
740-549-1516 740-548-0985 (Fax)

 BUILT TO LAST, IN AMERICA

<p>Commercial</p>  <p>AquaWave® Two-station Lavatory</p>	<p>Healthcare</p>  <p>Infection Control Sink</p>
<p>Recreational</p>  <p>Outdoor Drinking Fountain & Bottle Filler</p>	<p>Security</p>  <p>Combination Sink and Toilet</p>

 **WILLOUGHBY**
COUNTY, OHIO

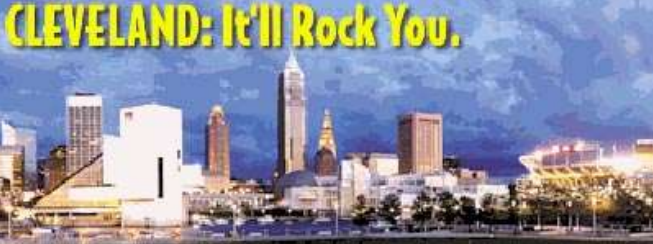
800.428.4065 | www.willoughby-ind.com
Represented by BWA South
© 2012 Willoughby Industries Inc.

BWA SOUTH *Manufacturer's Representative of quality plumbing products since 1956*

ZURN	ASI GROUP PARTITIONS ACCESSORIES LOCKERS	WILKINS a ZURN company
HTP	 aquatherm	 WILLOUGHBY
ZURN GreenTurtle	 CENTOCO	CHARLOTTE PIPE AND FOUNDRY COMPANY
 AQUANOMIX	 WESTERN-WILLIAMS	 AQUARIUS
	 JOMAR GROUP	 IDEAL
	ELKAY	

Visit us at WWW.BWASOUTH.COM

CLEVELAND: It'll Rock You.



American Society of Plumbing Engineers
Cleveland Chapter
PO Box 5962
Cleveland, Ohio 44101-0962

** Local Chapters are not authorized to speak for the Society