

ASPE NEWS



Cleveland Chapter of The American Society of Plumbing Engineers

February 2010

From the President:



I would like to thank **Michael Gauthier** of the **Highland Tank and Manufacturing Company** for a great discussion on Water Re-use systems and Wastewater Treatment systems.

Local Highland Tank Representatives from Trombold Equipment Company included **Greg Trombold** and **Bob McNeill**. Greg and Bob were available after the meeting as well to answer any questions.

I would also like to thank **Doug Roessler** of **RepSource** who presented a tabletop for the Proceptor product line. Thank you all for your continued support of your local chapter!

Part 2 of a 2 part webinar series on BIM (Building Information Modeling) will take place **Wednesday February 24th**. This session will be a hands-on Instruction on How to Use Revit MEP 2010. Instructor Marvin Titlow will teach participants how to design a fire pump layout using Revit MEP 2010 via a step-by-step demonstration, as well as how to cut sections and apply them to sheets. A trial version of Revit will be available for those who register so that you can perform the design on your own computer if you wish. Attendees should have prior knowledge and use of Revit MEP 2010. Due to the format all attendees will need to follow along at the pace of the instructor. The cost is \$69.95 for members and \$129.95 for non-members. For more information please contact the ASPE Education manager Cliff Reis at cries@aspe.org or visit the ASPE Website at www.aspe.org to register.

The **CPD Exam** will be held this April 16th or 17th. Registration is now open on the ASPE website. You have until March 19th to register. For more information please see separate insert in this month's Newsletter or visit the ASPE website. ASPE will also be holding a special webinar series at the end of March to help participants prepare for the exam. I will forward more information on this great opportunity when I get more details. In addition to the upcoming webinar series there will also be a total of three online practice tests that will be offered to those who register for the exam.

National Engineers Week is February 14th through the 20th. The Cleveland Chapter would like to acknowledge the activities of our members and their firms. Did you sponsor or take part in an event? Let us know and we will feature it in our March Newsletter! In an effort to promote Plumbing Engineering ASPE is offering an educational package for plumbing engineers to use at local high schools and community colleges during National Engineering Week. The kit includes a PowerPoint presentation as well as an actual waterless urinal fixture. Please contact **Donna Novickas** at dnovickas@aspe.org for more information.

Reminder - In order to provide an accurate head count for Harry's Steakhouse we need for you to send in your RSVP's to Kevin Noble at knoble@sbmce.com by Friday February 5th. If you do not RSVP by this date, we cannot guarantee that a meal or handout will be reserved for you. All of you have been doing a great job with this and we really appreciate it very much.

Michael Drab
President, Cleveland Chapter

President

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**2009-2010 ASPE Meeting/Plumbing Class Schedule
February 2010**

<u>Date – Time – Place</u>	<u>Agenda</u>	<u>Speaker</u>	<u>Exhibitors</u>
September 9, 2009 – 5:00 PM Cleveland Yachting Club Cost: \$34.00	Clam Bake Topic – Open discussions on the future of the ASPE Cleveland Chapter	Open Table Discussion	N/A
October 14, 2009 – 5:00 PM Harry's Steakhouse Cost: \$24.00	Topic – Commercial Water Reclamation Systems	Brian Soderholm (Water Control Corporation)	Water Control Corporation Highland Tank
November 10, 2009 – 5:00 PM *Tuesday Meeting* Harry's Steakhouse Cost: \$24.00	Topic – NEORD Long Term Control Plan for Mitigating Combined Sewer Overflows	Richard Switalsky (NE Ohio Regional Sewer District)	NEORS Watts Drainage Products
December 9, 2009 – 5:00 PM Harry's Steakhouse Cost: \$24.00	Topic – Chemical Waste & Vent Piping Systems Gift Exchange - Happy Holidays!	Steven Leek (SCHOTT North America)	SCHOTT North America Watts Drainage Products
January 13, 2010 – 5:00 PM Harry's Steakhouse Cost: \$24.00	Topic – Oil and Grease Removal Systems	Mike Gothiere (Highland Tank)	Highland Tank
February 10, 2010 – 5:00 PM Harry's Steakhouse Cost: \$24.00	Topic – Fuel Gas Systems Natural Gas, Propane, Butane	Ron George (Ron George & Associates)	Gastite
March 10, 2010 – 5:00 PM Harry's Steakhouse Cost: \$24.00	Topic – Packaged Fire Protection Systems	Lewis (FireFlex)	FireFlex
April 14, 2010 – 5:00 PM Harry's Steakhouse Cost: \$24.00	Topic – Residential Fire Sprinklers	Rich Prospal (Prospal Consulting Services, Inc.)	
May 12, 2010 – 5:00 PM Harry's Steakhouse Cost: \$24.00	Topic – Tankless Water Heaters	Jerry Wolens (Rheem)	Rheem

**2009-2010 ASPE Meeting/Plumbing Class Schedule
February 2010**

The above is the meeting/plumbing class schedule for the 2009-2010 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 \$24.00. 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

Don't forget National Engineers Week!

The 2010 National Engineers Week will take place the week of February 14th.

This is our opportunity to celebrate our profession and to recognize our peers for their engineering accomplishments.



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Gas - EOG, COLUMBLA
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Flowguard Gold, CPVC
Pex
Stainless Steel
Brass
Clay
IPEX - Enfield Mech. Joint
Enfusion
Empure

FITTINGS

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Soil, SW, No Hub
VICTAULIC - Grooved, Pressfit, No-Sweat
Copper, Cleaned for Oxygen
VIEGA ProPress
Gas - EOG, COLUMBLA
PVC - 40, 80, DWV, CPVC, Sewer
Flowguard Gold, CPVC
Pex
Stainless Steel
Brass - Thrd, Comp, Flare, Hose
Clay
IPEX - Enfield Mech. Joint
Enfusion
Empure
Butt Weld, Carbon, Stainless, Aluminum

COUPLINGS

JCM
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FERNCO/MISSION
STEEL
SKINNER/TELSCO

GROOVED FITTINGS *or* VALVES

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POTTER ROEHMER - Fittings and Cabinets

GAS PIPE, FITTINGS & VALVES

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Gas Manifolds
ACTARIS - Gas Regulators and Meters
Central Plastics
Performance - Gas Pipe and Fittings
Rockwell - Poly Gas Valves NORMAC
- Fittings PERFECTION CORP. X-TRU
COAT - Steel Pipe DRESSER APPT -
Gas Test Equipment

GAUGES, THERMOMETERS & CONTROLS

TREXICE
SPENCE

VALVES & ACCESSORIES

MILWAUKEE - Bronze, Ball, Iron, Butterfly, High
Performance Butterfly
STOCKHAM - Bronze, Ball, Iron, Butterfly
VICTAULIC -- #300, #700, Ball, Check
RESUN - Plug
HAYWARD - PVC/TU, Ball, Check, Single Entry,
Strainers
JOMAR - Ball, Add-a-Valve
EVERLASTING - Boiler Blow Down
A. Y. McDONALD - Gas & Steam Cocks
WATTS
ANVIL BALL
BONNEY FORGE
FIRE PROTECTION - Valves and Trim
BABBITT-Sprockets

HANGERS, SUPPORTS

SUPERSTRUT - Kindorf Channels & Supports
ANVIL
EMPIRE
MINERALLAC
DIXON - Hose Clamp
SUMNER MFG - Pipe Supports, Pipefix, Stakfix,
Posifix HOLDRITE PIPE-
TYTES Angle Iron & Channel
Iron SPEEDY ERICO

TUBULAR BRASS & PLASTIC

P-Traps, Tailpieces, Strainers
Desanco Fittings Lav & Closet
Supplies Angle & Straight
Valves

MISCELLANEOUS

Water Filters & Softeners BRADY - Pipe
Markers, Valve Tags HANDLEY - Valve &
Curb Boxes Gaskets, Oarlock, Granite, Spiral
Wound Pipe Insulation, Heating Tape and
Fittings Pipe Sleeves, Link Seals

DRINKING FOUNTAINS &

EMERGENCY WASH EQUIPMENT

HALSEY TAYLOR ELEKAY Drinking Fountains
SPEARMAN MFG Emergency Eye-Wash
BRADLEY Wash Fountains, Drinking Fountains
HAWS MFG EBEO- OASIS

HEATERS - RESIDENTIAL *or* COMMERCIAL

A. O. SMITH
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Storage Tanks
IN-SINK-ERATOR
Coil Type Heaters
Instantaneous Water Heaters
CHRONOMITE

ROOF *or* FLOOR DRAINS

WADE
CARRIERS
J. R. SMITH
JOSAM
ZURN
EAST JORDAN SEWER GRATES

FAUCETS & PARTS

MOEN
CHICAGO
ELJER
DELTA
CENTRAL BRASS
WOODFORD ANTI-FREEZE
SYMMONS
POWERS
LEONARD

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TRESICE - Gages, Controls & Thermometers
MCDONNELL & MILLER - Boiler controls
AMTROL - Tanks & Fittings
DANFOSS - Controls
BARNES & JONES - Traps, Repair Parts

FIXTURES *or* ACCESSORIES

ELJER
CRANE - Lav, Toilet
ELEKAY
OLSONITE SEATS
JUST-SS Sinks
IN-SINK-ERATOR - Disposals
SLOAN - Flush Valve & Parts
DELANY - Flush Valve & Parts
E. L. MUSTEE - Laundry Trays, Mop Basins,
Durastall Showers
ACORN - Parts ZURN - Flush
Valve & Parts FLAT - Fixtures
BRADLEY - Sinks & Fixtures

TOOLS

RIDGE TOOL
PROTO
MILWAUKEE TOOL
MARCO
LENOX
CHAMPION
REED MFG
WHEELER-REX
SUMNER MFG
RAWL
JET-SWET
COBB PIPE FREEZING
PASCO SPECIALTY TOOLS
CHERNE TEST BALLS
CHANNELLOCK
GOSS TORCHES
TURBOTORCH
VERMETTE
Street Keys
Grinding Wheels & Brushes
Extension Cords & GFIs

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ENFURE TOOL
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Welcome New Member!

- **Timothy M. Lavelle**
Gorman-Lavelle Corp
Cleveland, OH

On behalf of the Cleveland Chapter of ASPE, it is our pleasure to welcome you as a new member. We appreciate your support and congratulate you for taking this step toward a better professional future. In addition we encourage you to attend the chapter's monthly technical meetings. They are an excellent resource for education and professional growth.

If you have any questions or require any additional information please contact any one of the board members. We will be more than happy to answer any questions you may have.

ASPE Cleveland Chapter

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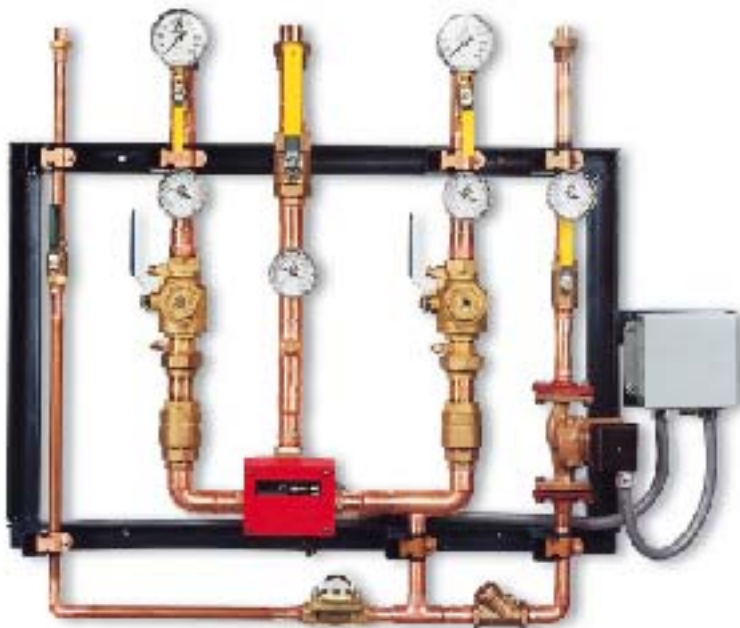
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Schott Scientific Glass / Kimax www.us.schott.com/drainline	Glass piping for acid waste and containment piping systems. <i>Knight-Ware</i> acid neutralizing sumps.
Water Control Corporation www.watercontrolinc.com	Rainwater Reclamation Systems with 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>Signature</i> and <i>Greenclean</i> chemicals.
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2010 CPD EXAMINATION
April 16th or 17th - 2010

Registration Opens January 5, 2010
Deadline: March 19, 2010
CPD Bulletin Available Online Only@
www.aspe.org Certification CPD Bulletin

The CPD Examination is Only Available Online.

The CPD designation is achieved through successful completion of the comprehensive CPD examination and maintained through a biennial recertification program.

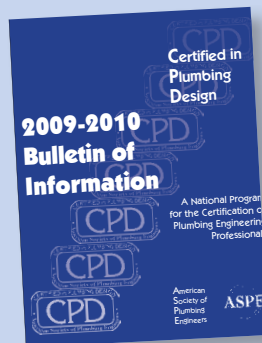
The Certified in Plumbing Design (CPD) program is an international certification program for engineers and designers of plumbing systems. Successful completion of the CPD examination confers upon the candidate the designation "Certified in Plumbing Design" or CPD. The certification program provides the profession, the plumbing industry, and the general public with a single, comprehensive qualification of professional competence for engineers and designers of plumbing systems.

The CPD:

- Identifies those individuals who fulfill prescribed requirements of experience, responsibility, and conduct.
- Recognizes those individuals who meet a standard of professional competence.
- Encourages plumbing engineers to participate in a continuing program of professional development.
- Provides a standard for educational programs in plumbing engineering.

ELIGIBILITY

To be eligible to take the CPD examination, a candidate must possess a minimum of four (4) years of practical experience in a position of responsibility for the design of plumbing systems and possess a baccalaureate degree in a field related to engineering. In lieu of an accredited degree, a candidate may substitute up to an additional four (4) years of practical experience in the design of plumbing systems, for a total of eight (8) years, or be granted a credit of one-half year of practical experience for each one (1) full year of education in an accredited curriculum related to plumbing engineering. Full members of ASPE are automatically eligible to sit for the examination.



CONTENT OF THE EXAMINATION

The CPD examination consists of 100 multiple-choice questions covering five major job dimensions: Gathering Information • Administration • Design • Specifications • Construction Services. The examination time allowed is 3 hours and 30 minutes.

TESTING FEE

The testing fee for the examination is \$375 for ASPE members, \$300 for ASPE members with P.E. and \$625 for nonmembers or \$550 for nonmembers with P.E.

PRACTICE EXAMINATIONS

CPD Practice Examinations may be available (visit www.aspe.org for more information). The Practice Exams are only available online, so you can take it from the comfort of your home or office. A Practice Exam has 30 questions covering the same five major job dimensions as the actual exam. Fee: \$75 per practice exam.

EXAMINATION DATE & TIME

The 2010 CPD Exam will be administered on Friday or Saturday, April 16th or 17th, 2010, depending on the available sites. After you register you will be contacted with a proctor number and an available site near you. The assigned testing site will confirm a test-taking date and time. Material needed will be available on-site. You should plan to bring a non-programmable calculator.

WHERE TO TAKE THE TEST

The April CPD exam will be an online proctored exam. There are approximately 200 possible testing sites throughout the United States and Canada — depending on a site's availability for our dates.

INFORMATION AND CPD BULLETIN

For more information about the test, download the 2009-2010 CPD Bulletin at www.aspe.org, certification, cpd bulletin.

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From V.P. Technical:

I would like to thank Michael Gauthier with Highland Tank & Manufacturing Company for being our guest speaker at the January 13, 2010 training session. The topic of the seminar was Water Reuse Systems and Water/Wastewater Treatment Systems. The presentation outlined grease interceptors, fats oils greases (FOG), plumbing code, engineered systems, oil water separators, sand interceptors, rain water harvesting, and grey water systems.

The February 10, 2010 seminar topic will be Fuel Gas Systems. The speaker will be Ronald L. George, CPD with Ron George Design & Consulting Services. Ron is the president of a design and consulting firm with over 30 years of experience in the plumbing & mechanical industry.

Please confirm your reservation for this seminar by noon of Friday, February 5, 2010 with Kevin Noble at knoble@sbmce.com. If you have any questions and/or comments about the seminars, please do not hesitate to contact me at jvarga@sbmce.com.

John A. Varga
V.P. technical, Cleveland Chapter



Greg Trombold
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From V.P. Legislative:

This is a follow up article for the hearings concerning proposed code changes. Below are just a few of the items that were on the agenda. The italic blue text describes the action taken on the proposed code changes. I will post the entire proposed changes pdf and the committee action pdf on the Hinkel Engineering web site on our Links Page for you to view or download.

www.hei-ohio.com and then click on the Links page.

There will be two Final Action Hearings held in 2010. On the following page, the codes or portions of codes to be considered at each Final Action Hearing are listed below the dates of their respective Final Action Hearing. For instance, the IFC Final Action Agenda will be heard during the hearings **May 14 – 23, 2010 at the Sheraton Dallas Hotel in Dallas, TX**. The IECC Final Action Agenda will be heard during the hearings **October 28 - November 1, 2010 at the Charlotte Convention Center in Charlotte, NC**. Proposals on which there was a successful assembly action will be automatically included on the applicable final action agenda for individual consideration and voting by eligible voting members in accordance with Section 6.1.2 of CP #28. Persons who wish to recommend an action other than that taken at the public hearing may submit a public comment in accordance with Section 6.0 of the *ICC CP#28-05 Code Development* (see page xii).

The deadline for receipt of public comments is February 8, 2010 for code change proposals to be heard in Dallas, TX and July 1, 2010 for code change proposals to be heard Charlotte, NC.

Proposals which receive a public comment will be included on the final action agenda for individual consideration and voting by eligible voting members in accordance with Section 6.1.1 of CP #28.

PUBLIC COMMENTS SHOULD BE SENT TO THE FOLLOWING OFFICE VIA REGULAR MAIL OR EMAIL:

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Country Club Hills, IL 60478-5795
Fax: 708/799-0320
publiccomments@iccsafe.org

Public Comments Due February 8, 2010 for hearings in Dallas, TX (May 16-23, 2010)

IBC International Building Code (E, FS, G, S)
IEBC International Existing Building Code (EB)
IFC International Fire Code (F)
IFGC International Fuel Gas Code (FG)
IMC International Mechanical Code (M)
IPC International Plumbing Code (P)
IPSDC International Private Sewage Disposal Code (PSD)
IRC International Residential Code (RB, RM, RP)
IWUIC International Wildland-Urban Interface Code (WUIC)
Public Comments Due July 1, 2010 for hearings in Charlotte, NC (October 28-November 1, 2010)

IADMIN ICC Administrative Code Provisions (ADM)
IECC International Energy Conservation Code (EC)
IPMC International Property Maintenance Code (PM)
IRC (ENERGY) International Residential Code (RE)
IZC International Zoning Code (Z)

P79-09/10

607.2

Proponent: Guy Tomberlin of Virginia representing himself.

From V.P. Legislative (Continued):

Revise as follows:

607.2 Hot or tempered water supply to fixtures supply temperature maintenance. Where the developed length of hot water piping from the source of hot water supply to the furthest fixture exceeds 100 feet (30 480 mm), the hot water supply system shall be provided with a method of maintaining the temperature in accordance with the International Energy Conservation Code. The developed length of hot or tempered water piping, from the source of hot water to the fixtures that require hot or tempered water, shall not exceed 40 feet (12192mm). Recirculating system piping and heat traced piping shall be considered to be sources of hot or tempered water.

P79-09/10

Committee Action: Approved as Modified

Modify the proposal as follows:

607.2 Hot or tempered water supply to fixtures *The developed length of hot or tempered water piping, from the source of hot water to the fixtures that require hot or tempered water, shall not exceed ~~40~~ 50 feet (12192 15240mm). Recirculating system piping and heat traced piping shall be considered to be sources of hot or tempered water.*

Committee Reason: *Modification and action consistent with P80.*

P80-09/10

607.2

Proponent: Ronald L, George, CIPE, CPD, President of Ron George Design & Consulting Services representing himself

607.2 Hot water supply temperature maintenance. Where the *developed length* of hot water piping from the source of hot water supply to the farthest fixture exceeds 50 feet (15 240mm), the hot water supply system shall be provided with a method of maintaining the temperature in accordance with the *International Energy Conservation Code*.

P80-09/10

Committee Action: Approved as Submitted

Committee Reason: *Saves water and improves energy efficiency.*

P129-09/10

914 (New)

Proponent: Robert Evans, CPD/ASPE Legislative Committee/ASPE

Add new section as follows:

SECTION 914

SINGLE STACK VENT SYSTEM

914.1 Where permitted. A drainage stack shall serve as a single stack vent system where sized and installed in accordance with Sections 914.2 through 914.9. The drainage stack and branch piping shall be the vents for the drainage system. The drainage stack shall have a stack vent.

914.2 Stack size. Drainage stacks shall be sized in accordance with Table 914.2. Stacks shall be uniformly sized based on the total connected drainage fixture unit load. The stack vent shall be the same size as the drainage stack. A 3-inch stack shall serve not more than two water closets.

P129-09/10

Committee Action: Approved as Submitted

Committee Reason: *Single stack venting has been used successfully for years.*

P134-09/10

1002.1

Proponent: Donald R. Monahan, PE, Walker Parking Consultants, representing the National Parking Association and the Automated & Mechanical Parking Association

Revise as follows:

1002.1 Fixture traps. Each plumbing fixture shall be separately trapped by a liquid-seal trap, except as otherwise permitted by this code. The vertical distance from the fixture outlet to the trap weir shall not exceed 24 inches (610 mm), and the horizontal distance shall not exceed 30 inches (610 mm) measured from the centerline of the fixture outlet to the centerline of the inlet of the trap. The height of a clothes washer standpipe above a trap shall conform to Section 802.4. A fixture shall not be double trapped.

From V.P. Legislative (Continued):

Exceptions:

1. This section shall not apply to fixtures with integral traps.
2. A combination plumbing fixture is permitted to be installed on one trap, provided that one compartment is not more than 6 inches (152 mm) deeper than the other compartment and the waste outlets are not more than 30 inches (762 mm) apart.
3. A grease interceptor intended to serve as a fixture trap in accordance with the manufacturer's installation instructions shall be permitted to serve as the trap for a single fixture or a combination sink of not more than three compartments where the vertical distance from the fixture outlet to the inlet of the interceptor does not exceed 30 inches (762 mm) and the *developed length* of the waste pipe from the most upstream fixture outlet to the inlet of the interceptor does not exceed 60 inches (1524 mm).
4. Where floor drains in multi-level parking structures are required to discharge to a combined building sewer system, the floor drains shall not be required to be individually trapped provided that they are connected to a main trap in accordance with Section 1103.1.

P134-09/10

Committee Action: Approved as Submitted

Committee Reason: *Agreed with the proponent's reason statement which stated that parking garage floor drains do not require traps if there is a main trap provided prior to connection to a combined sewer.*

P152-09/10

202 (New), 301.3, Chapter 13 (New), Appendix C; IRC R202, P2601.2, Section P3009 (New), Appendix O

Proponent: Guy Tomberlin of Fairfax County, Virginia, Virginia Plumbing and Mechanical Inspectors, Virginia Building and Code Officials and ICC Region 7.

PART I – IPC

1. Add definition as follows:

GRAY WATER. Waste discharged from lavatories, bathtubs, showers, clothes washers and laundry trays.

2. Revise as follows:

301.3 Connections to drainage system. All Plumbing fixtures, drains, appurtenances and appliances used to receive or discharge liquid wastes or sewage shall be directly connected to the sanitary drainage system of the building or premises, in accordance with the requirements of this code. This section shall not be construed to prevent indirect waste systems required by Chapter 8.

Exception: Bathtubs, showers, lavatories, clothes washers and laundry trays shall not be required to discharge to the sanitary drainage system where such fixtures discharge to an approved gray water system for flushing of water closets and urinals or for subsurface landscape irrigation.

3. Delete Appendix C in its entirety without substitution

P152-09/10

PART I- IPC

Committee Action: Disapproved

Committee Reason: *Proposal lowers the safety within the building. Makes building owners wastewater purveyors. No standards exist for graywater quality. No approvals exist for equipment needed for graywater processing.*

Assembly Action: None

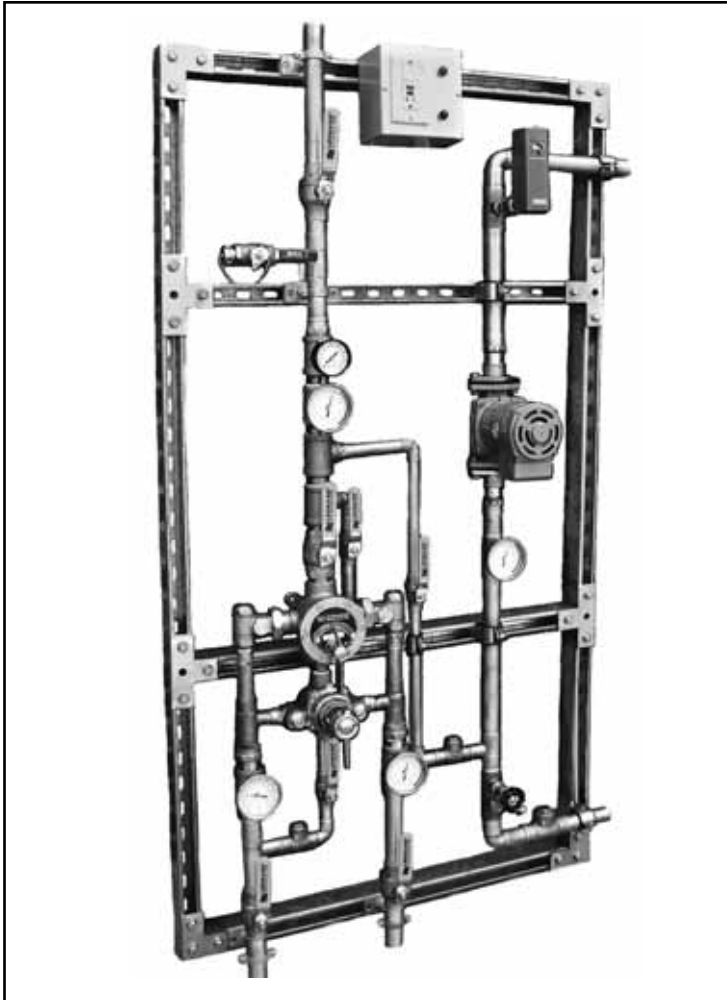
PART II- IRC-P

Committee Action: Disapproved

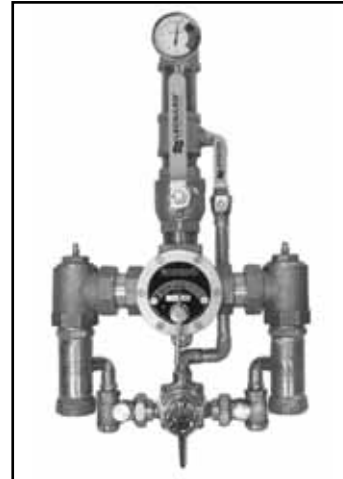
Committee Reason: *Proposed language is too restrictive as to the method that must be used. There are other ways to successfully process gray water.*

More Choices

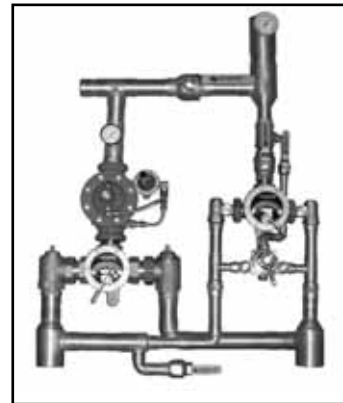
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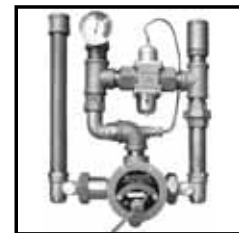
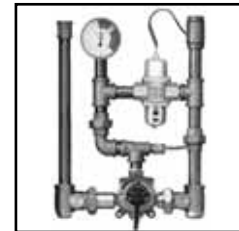
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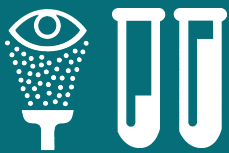
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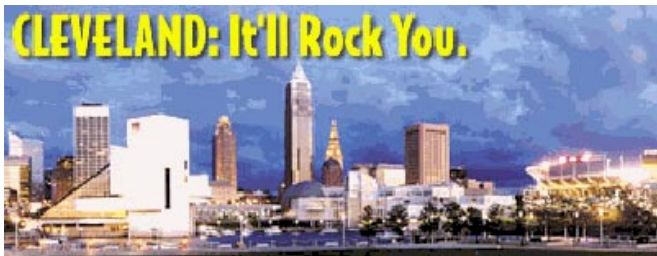
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