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Virginia Beach
April 3-5, 2024
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TDSD-2024 SHOWER DRAINS (LIT-077)
TDSS-2024 STAINLESS STEEL TRENCH DRAINS (LIT-072)
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C-PORT-2023 ROOFTOP RUBBER PIPE SUPPORTS (LIT-047)
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Welcome to VPMIA’s 61st School of Instruction

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Mitigating Clothes Dryer Fires….18
Leading the VPMIA as President this past year has been a privilege. I am truly humbled that the membership would entrust me with the keys to this great organization. I’m incredibly grateful to our dedicated officers, directors, and committee chairs. Their tireless efforts ensured adherence to our strategic plan and vision, propelling the VPMIA towards its goals this year.

Together, we’ve accomplished some truly remarkable things. The membership initiative I launched at the beginning of my term has been a resounding success, resulting in a significant increase in members. These new members bring fresh perspectives and tremendous potential – they’re the future leaders of VPMIA, and I’m excited to see them develop.

In a move towards sustainability and cost-efficiency, we transitioned our VPMIA Yearbook from a physical publication to a digital format. This change allows us to reach a wider audience while also saving valuable resources.

Investing in our members’ professional development is also crucial. This year, we were proud to award scholarships to members attending the Virginia Code Education Conference, ICC Conference, and the ICC Code Hearings.

Speaking of the code hearings, the VPMIA continues to be leaders at both the state and national levels in code development. The PMG Code Committee has met multiple times to discuss changes to the code and to develop positions on proposals for plumbing, mechanical and fuel gas.

A huge congratulations to the VPMIA Legislative Committee Chair Ron Clements on his well-deserved election to the ICC Board of Directors! This is a well-earned recognition of his significant contributions to both VPMIA and the industry as a whole.

I challenge each of you to become a mentor, not just to anyone, but to someone who could benefit from our expertise and, in turn, become a valuable member of our association. Imagine the possibilities if each member identifies a passionate individual in the plumbing and mechanical field and guides them towards joining VPMIA. By welcoming new members and fostering their professional growth, we create a stronger VPMIA.

In closing, this year has been a testament to the collective strength and dedication of the VPMIA community. I’m incredibly proud of what we’ve achieved together, and I look forward to seeing even greater things in the future.

Respectfully,

Dennis Hart, VPMIA President
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# 2024 VPMIA Spring School of Instruction Agenda

**Wednesday April 3rd**
- 7:30am - 8:00am Registration/Sign in
- 8:00am - 9:30am *Proper Installation and Inspection of Gas Regulators*
- 9:30am - 10:00am Break
- 10:00am - 11:30pm *Proper Installation and Inspection of Gas Regulators*
- 11:30pm - 12:00pm Report from Nominating Committee Nomination of 2024/2025 officers
- 12:00pm - 1:00pm Lunch
- 1:00pm - 2:30pm - *Fire Protection of Mechanical Penetrations Properly*
- 2:30pm - 3:00pm Break
- 3:00pm - 4:30pm *Fire Protection of Mechanical Penetrations Properly*
- 4:30pm - 5:30pm General Membership Meeting
- 5:30pm - 6:00pm President’s Welcome
- 6:00pm - 7:30 pm Dinner

**Thursday April 4th**
- 8:00 am - 9:30 am - *ICC Accessibility Class*
- 9:30 am - 10:00 am Break
- 10:00am - 11:30am - *ICC Accessibility Class*
- 11:30 - 12:00 Visit Sponsor Tables
- 12:00 pm - 1:00 pm Lunch
- 1:00 pm - 2:30 pm - *ICC Accessibility Class*
- 2:30pm - 3:00pm Break
- 3:00 pm - 4:30 pm - *ICC Accessibility Class*
- 5:00pm - 6:00pm Reception
- 6:00pm - 8:00pm Banquet, Awards, Officer Installation

**Friday April 5th**
- 7:00am - 8:30am Breakfast Buffet
- 8:30am - 10:00am *The Evolving GREEN in the Plumbing Code*
- 10:00am - 10:30am Break
- 10:30am - 12:00pm *The Evolving GREEN in the Plumbing Code*
2023 VPMIA OFFICERS

President .................... Dennis Hart
Vice President ............ Frederick Crowell II
Secretary ...................... Peter Kapitan
Treasurer ...................... Joshua Rolfe
Executive Secretary ....... Chris Martin
Immediate Past President .. Anthony McMahan
District 1 Director .......... Chris Hickey
District 2 Director .......... Bane Compton
District 3 Director .......... Donald Mimms
District 4 Director .......... Brian Petty

2023 VPMIA COMMITTEES

Advertising/Yearbook ... James Anjam - Chair
Auditing .................... Frederick Crowell - Chair
Award .......................... Tom Clark - Chair
ByLaws .......................... Skip Harper - Chair
Certification/Education ... Anthony McMahan - Chair
                          Chris Hickey
                          Donald Mimms
                          Bane Compton
                          Brian Petty
Finance ...................... Joshua Rolfe
Information Technology ... Jane Kim - Chair
                          Skip Harper
Legislative .................. Ron Clements - Chair
Membership .................. Chris Martin - Chair
                          Chris Hickey
                          Donald Mimms
                          Bane Compton
                          Brian Petty
Nominating .................. Anthony McMahan - Chair
PMG Code Committee .... Dennis Hart - Chair

Time & Place/
School of Instruction...... Bob Adkins - Chair
Joshua Rolfe
Chris Hickey
Skip Harper

BCAAC (Ad Hoc) .......... Vacant

Building Safety Month
(Ad Hoc) ..................... Tom Clark - Chair

VA Code Education Conference
(VCEC) (Ad Hoc) ....... Anthony McMahan - Chair
Thomas Clark

VBCOA Liaison (Ad Hoc) .. David Beahm
ICC .............................. Lisa Berger
Region 7 ICC Liaison ...... Joshua Rolf
DHCD .......................... Sandi Morris
DPOR Liaison ............... Jerry Heinline
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U. EARL ALLEN 1968
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L. W. FURMAN 1971
GEORGE H. WILLIAMS 1972
W. T. DRAKE 1973
BENJAMIN BIANCO 1974
J. L. SHIFFLETT 1975
HOMER O. DENNIS 1976
JULIAN E. MEREDITH 1977
EDWARD T. PARSONS 1978
EDWARD J. BALDWIN, JR. 1979
HENRY A. RODÉS 1980
RUDOLF SCHROECK 1981
JESSE R. HURT 1982
CHARLES DEDIAN 1983
KENNETH R. SNYDER, SR. 1984
LAWRENCE J. NUCKOLS 1985
JOHN W. THURSTON 1986*
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LESLIE A. COURTNEY 1988
JIMMY A. ENGLISH 1989
DOUGLAS L. STOVER 1990
ROBERT M. BROOME 1991
PAUL D. HOSTETLER 1992
DENNIS W. MCNAUGHTON 1993
JOHN S. TRENARY 1994
MICHAEL D. REDIFER 1995/1996
KATHLEEN T. DYE 1997
HASSEL DeSHAZO 1998
ROY N. McFARLAND, JR. 1999/2000
CLEATIS DYE, JR. 2001
CHARLES GERBER 2002
GUY TOMBERLIN 2003/2004
GEARY SHOWMAN 2005
MICHAEL THUOT 2006
JOHN SEAY 2007
DENNIS MARTINELLI 2008
JOHN MILLS 2009
WAYNE KUSHNER 2010
ROBERT ADKINS 2011
BANE COMPTON 2012
RON BLADEN 2013
PAUL RIMEL 2014
SKIP HARPER 2015/2016
RICHARD GRACE 2016
DUSTIN MCLEHANEY 2017
JAMES ANJAM 2018
TOM CLARK 2019/2020
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VPMIA’s Foundation

Vision Statement
VPMIA members are committed to providing code development leadership and continuous training that results in uniform application of the codes. We look for opportunities to partner with all who are impacted and strive to develop and deliver codes and standards that result in health, safety, and welfare protection for the public.

Mission
VPMIA is an association of code professionals dedicated to promotion of uniform enforcement and development of the codes throughout the Commonwealth to assure the health, safety, and welfare of its citizens and anyone who may live, work, or visit the state of Virginia. The pursuit of this endeavor is achieved through close, open, and equal working relationships with design professionals, builders, contractors, material manufacturer’s and others involved in the construction industry. VPMIA supports the ICC, its goals and mission.

Strategic Plan Mission
VPMIA’s strategic plan is to advance our mission through training in order to promote better understanding of the benefits and efficiency of using model codes. The association promotes teamwork, while embracing fairness and respect to all involved parties, always maintaining open communications in every aspect to those who participate in the process.

VPMIA’s Strategic Plan

GOAL # 1
Enhance and increase communications of VPMIA with the public
(Communications)
Initiative action:
• Actively promote a positive image of code enforcement’s role in the community.
• Advertisements in trade, industry, state DHCD, and community publications.
• Commitment to code development to achieve the superior level of health, safety, and welfare for our citizens.

GOAL # 2
Increase and expand education
(Training – Communications)
Initiative action:
• Encourage increased participation from all interested parties who interact with any and all aspects of code enforcement.
• Increase awareness of the educational benefits of the association.
• Promote credentialing programs provided by the state DHCD.

GOAL # 3
Uphold the highest levels of professionalism
(Leadership – Professionalism)
Initiative action:
• Instill and promote leadership values.
• Always display integrity.
• Adherence to code of ethics.
• Share knowledge at all levels.

GOAL # 4
Promote relationships with industry and related professional organizations
(Cooperation)
Initiative action:
• Participate in the code development process.
• Encourage cooperative working relationships with construction-industry professionals.
• Become involved as active or associate members to other professional organizations such as VBCOA, ICC, IAEI, and PMFP.
• Solicit speakers and provide speakers for these organizations to enhance communication.
• Continue to actively participate in DHCD towards uniform application and development of the model building codes and standards.

GOAL # 5
Broaden and expand VPMIA Membership
(Membership)
Initiative action:
• Develop information package of the organization benefits.
• Provide more member services.
• Develop a more wide spread advertisement program for membership, including associate members.

GOAL # 6
Continue leadership and participation in code development process
(Leadership – Code Development)
Initiative action:
• Enhance and develop strategies for participation in International Code Council Code Developmental process.
• Encourage participation on state and national committees.
• Provide financial support towards member participation in these activities.

GOAL # 7
Promote the adoption of the International Code Council family of model codes
(Communications – Training)
Initiative action:
• Provide analysis and impact of benefits for industry, where necessary.
• Provide training for code enforcement officials and industry.
• Interact with DHCD to provide uniform enforcement of model codes.

GOAL # 8
Ensuring financial viability of VPMIA
Initiative action:
• Align financial resources to organizational outcomes.
• Achieve goal objectives.
• Operate within budgeted plan.
SOME PIPE IS LIKE AN EGG.

Like eggs, PVC pipe needs protection. Cast iron pipe doesn’t.

### Underground Facts

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Cast Iron</th>
<th>PVC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Failure Mode</td>
<td>Rigid - Crush</td>
<td>5% Deflection</td>
</tr>
<tr>
<td>Trench Width</td>
<td>Pipe width</td>
<td>Pipe O.D. + 16”</td>
</tr>
<tr>
<td>Trench Bottom</td>
<td>No special bedding</td>
<td>Dependent upon soil type</td>
</tr>
<tr>
<td>Compaction</td>
<td>No special requirements</td>
<td>6” layers Hand compact</td>
</tr>
</tbody>
</table>

Cast iron is up to **10 times stronger** than thermoplastic materials. Cast iron pipe doesn't need compaction of the sidefill to support the pipe wall and requires less excavation, backfill and compaction. There's strength in iron.

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There are many statistics published each year regarding clothes dryer fires, by such organizations as the Consumer Product Safety Commission (CPSC), the National Fire Protection Association (NFPA) and the United States Fire Administration (USFA).

There are approximately 15,600 structure fires, 400 injuries and 15 deaths reported annually as a result of dryer fires.

According to USFA, every year, clothes dryer fires account for over $100 million (USD) in property losses. A majority of dryer fires occur as a result of highly combustible lint getting caught in the dryer’s vent and becoming heated to the point of ignition. The lint is combustible due to synthetics used in clothes.

The challenge

For dryers, the combination of high heat, a small chamber and combustible materials can be lethal, as shown by National Fire Protection Association statistics (NFPA). “Failure to clean” was cited in 33% of dryer fires, while spontaneous combustion of the clothing load during dryer use contributed to 26% of the blazes.

When not properly cleaned and maintained, by removing the lint from the filter after each use and having the exhaust vent inspected annually and cleaned, the risk of fire is increased. Dryer fires can readily spread through the exhaust system and potentially ignite other combustible and flammable materials in the area surrounding the dryer, such as household cleaning materials and adjacent structures (e.g., walls).
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Based in the Northern Virginia D.C. Metro area, Mike formerly worked for a fire protection manufacturer and was a volunteer firefighter. Mike holds a Business Degree with a specialization in entrepreneurship and brings strategic business planning to the Viega team.
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Thus, the proper installation, use and maintenance of third-party certified clothes dryers and clothes dryer exhaust duct systems in any occupancy using clothes dryers is critical to reducing the fire hazard. The applicable safety standards used to evaluate and certify clothes dryers include fire containment tests and a cool-down-period requirement to mitigate the risk of fire due to lint accumulation and reduce the risk of spontaneous ignition of the clothes load.

Product testing and certifications

The UL Solutions’ product category “Clothes Dryers” (KMEX) covers electric clothes dryers intended for use only where water has been used as the cleaning agent. UL Certified products can be found using our complimentary search tool, UL Product iQ®. Access to the code authority features of Product iQ requires a simple one-time registration.

The basic standard used to investigate products in this category that are intended for use by the general public within household and commercial installations, including appliances provided with coin-, ticket- or card-operated mechanisms, is UL 2158, The Standard for Electric Clothes Dryers.

The UL Solutions’ product category “Gas-fired Clothes Dryers, Type 1” (LETA) covers gas-fired Type 1 clothes dryers, which are appliances used to dry wet laundry by means of heat derived from the combustion of fuel gases. Type 1 clothes dryers may be for use with natural gas, manufactured gas, mixed gas, propane gas, liquefied petroleum gases, or LP gas-air mixture as marked on the dryer rating plate. The basic standard used to investigate products in this category is ANSI Z21.5.1/CSA 7.1, ”Gas Clothes Dryers, Volume I – Type 1 Clothes Dryers.”

Combination washer-dryers and laundry centers using electric dryers are covered under Washing Machines (ZCTT), and combination washer-dryers and laundry centers using gas dryers are covered under Gas-Fired Clothes Dryers, Type 1 (LETA. The basic standard used to investigate these products that are intended for use by the general public within household and commercial installations is UL 2157, the Standard for Electric Clothes Washing Machines and Extractors and either UL 2158 or ANSI Z21.5.1/CSA 7.1, ”Gas Clothes Dryers, Volume I – Type 1 Clothes Dryers.”
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Exhaust systems

The normal use of a clothes dryer creates a large volume of humid air, which needs to be exhausted to the outside in accordance with the manufacturer's instructions. Without proper exhaust, this moisture could affect electrical wiring or other electrical devices in the vicinity.

As part of the exhaust system, third-party certified clothes dryer transition ducts are used to connect either an electric or gas clothes dryer to an existing permanent duct system provided as part of the building structure. These ducts are covered under Clothes Dryer Transition Ducts (KMIK), and evaluated in accordance with UL 2158A, the Standard for Clothes Dryer Transition Ducts. These ducts are either rigid or flexible metal types. Flexible types are a maximum 8 ft. long for use in single lengths only. Using the type of duct recommended by the clothes dryer manufacturer is important to reduce the risk of fire.

Dryer-exhaust-duct power ventilators (DEDPV) are used to assist the exhaust from clothes dryers over longer length ducts. The UL Solutions’ product category for DEDPV is ZACZ, and the basic standard used to investigate these products is UL 705, the Standard for Power Ventilators.

These ventilators are for serving a single residential dryer, and are intended to be installed in accordance with the ventilator manufacturer’s instructions, as well as the installation instructions for the clothes dryer with which it is combined. These ventilators are provided with at least one of the following:

1. Means to sense the operation of the clothes dryer and automatically cause the DEDPV to turn on.
2. An interlocking device intended to prevent the clothes dryer from being energized if the DEDPV fails to turn on.

DEDPVs are tested and certified to evaluate their ability to maintain acceptable duct air velocity throughout the range between the maximum and minimum duct length specified in the ventilator instruction manual.

Code requirements for installation and maintenance
IECC 2018 Energy Code
Piping Insulation Protection
IECC C403.2.101, R403.4.1 (2018): Piping insulation exposed to weather shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, wind and shall provide shielding from solar radiation that can cause degradation of the material. **Adhesive tape shall not be permitted.**

Pipe-Insulation Ends Must Be Protected

**Why Insulation Protection Must Be Removable:**

**Mechanical Code 2018**
Exposure of Refrigerant Pipe Joints
1107.7 Refrigerant pipe joints erected on the premises shall be exposed for visual inspection prior to being covered or enclosed.

---

**New Penetration Sealing Requirements**

2018 IECC Commercial Energy Code
Air Barrier: New Penetration Sealing Requirement
R402.4.11 Shafts, penetrations - Utility penetrations of the air barrier shall be gasketed or otherwise sealed and shall allow for expansion and contraction of materials and mechanical vibration.

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The International Fuel Gas Code (IFGC), International Mechanical Code (IMC), Uniform Mechanical Code (UMC), and International Residential Code (IRC) require commercial and residential clothes dryers to be listed and labeled, and to be installed in accordance with the manufacturer’s installation instructions. The required product testing standards include requirements for specific cleaning and maintenance directions to be part of the manufacturer’s installation and use instructions.

Clothes dryers, other than condenser-type or heat pump-type clothes dryers, are intended to be connected to a clothes dryer exhaust duct to the outdoors. The maximum duct length and number of bends is intended to be in accordance with the clothes dryer installation instructions. The installation codes have additional requirements for the construction of the clothes dryer exhaust system.

The International Fire Code (IFC) and the NFPA Fire Code (NFPA 1) require the lint trap, mechanical and heating components, and the exhaust duct system of a clothes dryer to be maintained in accordance with the manufacturer’s operating instructions to prevent the accumulation of lint or debris that prevents the exhaust of air and products of combustion.

The frequency of inspections depends on various factors, such as how often the dryer is used, the geometry of the exhaust duct system, and the age and type of dryer.

Improper consumer use and care of a dryer are some of the industry’s biggest challenges in maintaining appliance performance and safety.

Preventative actions to take

For safety tips for clothes dryers, please see the NFPA safety sheet.

Additional actions to take for general home fire safety:

- Homes should be protected with interconnected smoke alarms installed in every sleeping room, outside of sleeping rooms and at least one on every level of a home. Learn more here.

- To best prepare for what actions to take should you experience a fire in your home, it’s recommended to have a family escape plan and to practice the plan with family members.

- All family members should know the address of the home and how to call for emergency help (911 or your local emergency phone number).
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