

ICC Chapter of the Year—2011

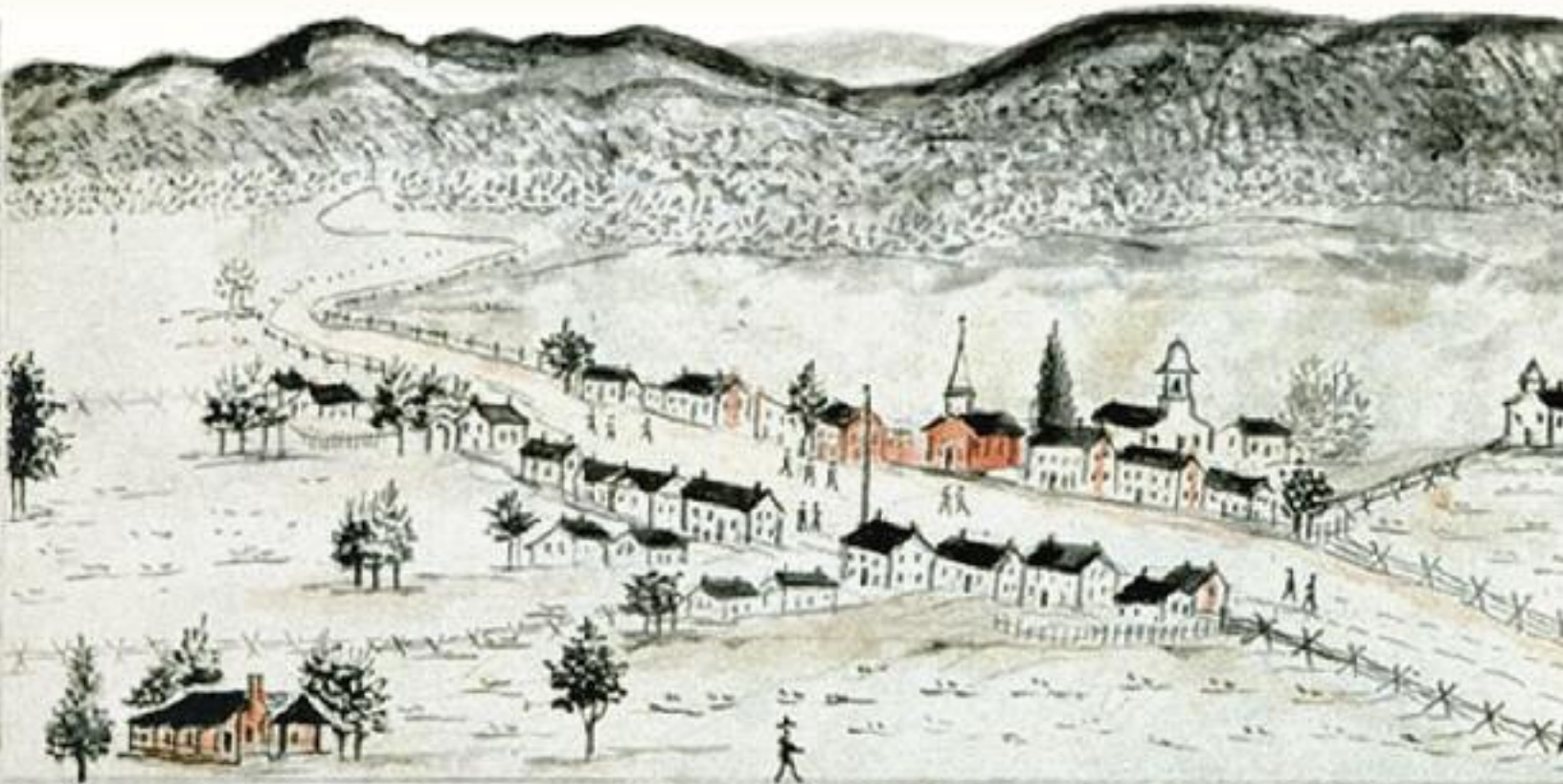
WPMIA



49th Annual School of Instruction

March 28-30, 2012
Blacksburg, Virginia

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April 2, 2012

Mr. Bane F. Compton, President
Virginia Plumbing & Mechanical Inspectors Association

Dear Mr. Compton and fellow VPMIA Chapter Members,

On behalf of the International Code Council, we congratulate the Virginia Plumbing & Mechanical Inspectors Association on its 50th year anniversary. This milestone represents an industry chapter that is committed to furthering the excellence of the plumbing and mechanical industry and providing its members growth and awareness thru education, training and industry participation. The example you have set should be held high for many others to emulate.

We are proud of our relationship with VPMIA and its members and thank you for your continued commitment, support and leadership in the PMG industry these past 50 years.

We wish you well as you celebrate your anniversary and look forward to continuing to work with you as we keep our industry strong.

Respectfully yours,

Jay Peters
Executive Director, PMG
International Code Council

Shawn Martin
PMG Director of Industry Relations

Lee Clifton
PMG Director of Plumbing
Programs



engineered solutions

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VPMIA has received the 2011 ICC "Chapter of the Year" Award

In accepting this award, your President addressed the 2011 ICC Conference in Phoenix:

I'm Bane Compton President of the VPMIA and Deputy Building Commissioner of the City of Roanoke, Virginia. I want to say how much of a pleasure and honor it is to be standing on this stage receiving such an award as **Chapter of the Year**. This award is only accomplished through hard work from your members, I would like to thank a few that are here, Guy Tomberlin, Lynn Underwood, Bob Atkins, Ron Bladen, Bill Duplier, Steve Shapiro, and Emory Rogers and many more for their hard work and dedication they have shown to the VPMIA and the ICC.

I hope by winning this award it will

inspire the future members to repeat this accomplishment. After I became President in April 2011. I began gathering information for VPMIA's Chapter of the Year report. I was totally surprised at the amount of effort, work and acknowledgments my fellow members have accomplished. It made me look at myself and has inspired me to do more for the City of Roanoke, the VPMIA, State of Virginia and the ICC.

Hopefully this conference can inspire you to look at yourself, as it has me, and ask yourself how much more can I do to support all these organizations. I'm looking forward to Dallas and, thank you very much.

Bane F. Compton
President, VPMIA 2011-2012



December 1, 2011

Bane Compton
City of Roanoke
160 Meadow Drive
Christiansburg, VA 24073

Re: Virginia Plumbing Mechanical & Inspectors Association

Dear Bane and Friends:

Congratulations on your selection as the **2011 ICC Chapter of the Year Award**.

As your group has demonstrated, our Chapters are a very valuable asset and partner in public safety.

The 120 code changes VPMIA proposed last year is proof-positive of your active engagement in the code development process. The fact that your association saw 85% of its proposals adopted into the model codes demonstrate that you do your homework and build consensus within the build safe community. The accomplishments of your Chapter serve to inspire your colleagues.

I'd say this honor is quite a way to kick-off the beginning of your 50th year as an organization. I know your Chapter will continue to display the same professionalism in promoting the vision, mission and goals of the Code Council over the next 50 years. We are very fortunate to have you as an ICC Chapter.

Congratulations again on a well-deserved honor. Wishing you and your families a safe and happy holiday season.

Sincerely,


Richard P. Welland
Chief Executive Officer



ICC
CHAPTER OF THE YEAR
2011

Welcome to the VPMIA 2012 School of Instruction

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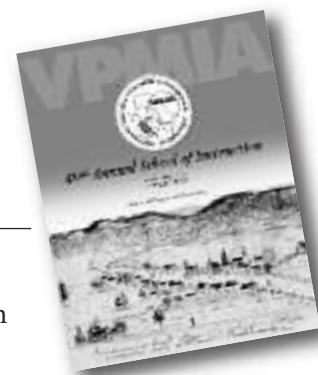
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FROM THE EDITOR

We have two great events to celebrate as we gather for this year’s SOI—the first is that VPMIA was selected as the **2011 ICC Chapter of the Year**, and the second is that 2012 represents **VPMIA’s 50th Anniversary**. Congratulations to all Members.

This Yearbook is dedicated to **Jack A. Proctor** who passed away last year. Read the articles and enjoy the photos as we pay tribute to the man referred to as “The Father of Virginia’s Building Code”.

ICC and ACCA have once again stepped up and provided two interesting articles for your perusal: Lee Clifton on “Horizontal Wet Venting”, and Luis Escobar educates us on a new program formed by ACCA and the DOE – “Quality Assurance”.

Be sure to put those on your reading list. Thanks Lee and Luis.

We send our congratulations to Jim Steinle and his company, Atomic Plumbing, for winning the Virginia Pilot’s Best of the Beach 2010 Gold Award and for winning the Silver Award for 2011. Jim is a VPMIA Lifetime Associate Member and current Chairman, Executive Committee of PMPV.

Congratulations also go out to Bill Bennett, owner of The Plumbing Dr., one of only five area plumbers chosen *The Washington Post’s* “The Best of Service Alley 2011”.

Be sure to visit the Tabletop Displays and express our gratitude to the Manufacturers’ Representatives. They all make a great and welcomed contribution to our SOI. —*Ron Bladen*



Welcome to the

President's Corner

I would like to start by saying it has been an honor and a privilege to serve as your President this past year. I want to thank each and every one of you for this opportunity and support you have shown. This experience has been rewarding and something I will never forget. The organization is going in the right direction and I feel will continue to grow, maintaining high ethics and standards that we as an organization have demonstrated for the past 50 years. I would like to reflect on a few of the accomplishments of our organization over the past year.

- VPMIA was chosen Chapter of the Year by the ICC.
- The organization showed strong support for members seeking office for the ICC
- Provided Code update training to Tradesmen throughout the state.
- Provided training to inspectors maintaining their state CEU requirements.
- Continued communications with other state organizations to reach common goals.
- We have increased the number of members in the organization as well as our financial stability
- 85% of our Code Change proposals were adopted into the Model Codes.

This year I was fortunate enough, through VPMIA, to experience the ICC Conference in Phoenix Arizona. The conference was an eye opening experience. I was able to meet some great people, who share the same goals as we do here in the State of Virginia. Most everyone I came in contact with spoke of how active in the ICC the VPMIA and fellow state organizations were from the state of Virginia. They expressed their appreciation for our participation in code development. The practical impact the organizations from the state of Virginia makes on Code Development is one of the most important goals we can achieve. By being active at the ICC level, the more our values and ideas are published into our Model Codes and the more practical

our everyday jobs in Code Enforcement becomes. I was so proud to represent the VPMIA and the state of Virginia. Speaking in front of what looked to be a thousand people, while accepting the Chapter of the Year Award, was one of the most gratifying moments I have ever experienced. At the conference I participated in the Code Development hearings, this is something each and every one of you should experience. We as an organization need to continue supporting members of our organization at the ICC level.

The citizens of Virginia are benefiting greatly from the VPMIA's training opportunities offered in every part of the Commonwealth by our organization. Our training opportunities for tradesmen and inspectors provides consistent code enforcement throughout our state. The funds accumulated from code classes allow us to offer free membership to our municipalities and also provides support to our VPMIA members seeking to become ICC officers. The economic downturns we are experiencing throughout the state have restricted municipalities from providing participation in the organization. Funds accumulated by educating citizens throughout the state allows us as an organization to maintain members that represent the complete Commonwealth of Virginia and also provides us representation at the ICC level.

In closing, I would like to say the VPMIA is in sound financial status. I would like to thank the Board and the membership for their support. The new officers coming into office will do a great job in keeping this fine organization at the top. Their fresh ideas will keep Virginia on the tip of the spear. It has been an honor and privilege to serve as your President.

Bane F. Compton

President
Virginia Plumbing and Mechanical
Inspectors Association
2011-2012

Jack A. Proctor (1933–2011)

Dedication

VPMIA dedicates this yearbook to Jack Allen Proctor. Well known as the “Father of the Virginia Uniform Statewide Building Code,” Jack Proctor was instrumental in the development of an accreditation program to advance and enhance professionalism in code administrations throughout the United States; he was a leader in establishing a National Building Code Academy within NCSBCS; and he was the driving force behind the ICC code adoption.

Jack Proctor’s professional memberships included:

- National Council of States on
(continued)





(continued from previous page)

Building Codes and Standards
(NCSBCS)

- Board of Directors
- VA delegate
- Southern Regional Chairman
- Educational Chairman
- Secretary & Treasurer
- President (2 years)
- President of the National Academy of Code Administration (NACA)
- International Academy for Professional Code Administration (IAPCA)
- The Virginia Building and Code Officials Association (VBCOA)
- Service on many ad hoc Building Code committees.
- Honorary Member, Virginia Plumbing and Mechanical Inspectors Association

Editors Note:

This narrative and the photographs were kindly provided by the Proctor family.

Jack was born during the Great Depression in 1933 in a cottage camp that his family owned. He cheated death for the first of many times due to an infant illness. He always talked of his days as a boy and how poor they were but how much he'd learned and in turn taught his children from his struggles. He cheated death a second time as a boy after a traumatic bicycle accident. He remembered waking up and being so very disappointed about his broken bicycle that the chicken farmer had given him which was such a luxury at that time. He and his siblings Kay, Gloria, Rusty and Gary taught us how to appreciate a very different kind of lifestyle. Very useful lessons during today's tough times.

Jack left school at a young age and joined the Navy. He travelled all over the world, rose in rank and



was a well respected Chief Petty Officer and Electrical Engineer when he retired after 22 years of service. In 1973, after training at Virginia Tech he became one of the first building officials in a rural area, the Shenandoah Valley when at the time there were only officials in larger cities. He was personally requested only two years later by a top official to go to Richmond and quickly rose to the rank of Deputy Director of Building Code for the entire state agency. He even served as the State Fire Marshall of Virginia at the request of one of the Governors. He retired after 30 years of state service and not only had the respect of many well-educated "important people" as he called them but was important enough himself to have the state training academy for building code named in his honor. All of this from a country boy from the Shenandoah Valley with an 9th grade education.

Not only was Jack extremely renowned and well respected in his career but he was a wonderful father and man. In his 60's he cheated death once again surviving a heart attack and subsequent quadruple bypass! He was a father to ten children that were raised with tough

love but love indeed. He was kind, very funny and one of the most humble and sincere people. He was generous to a fault and wouldn't see anyone struggle if he could help no matter what it took. This made him never have all of money but he was extremely rich in character. He could fix and build anything (cars, houses etc.) and would give them away to buy another broken one when it was working well! His legacy will live on for many years through the lessons he taught his children and grandchildren. Even though he is

gone, it gives us solace to know that he is still continuing to make this world a better place.



Although he couldn't cheat death this time, we are so happy that he is no longer suffering and what a life he lived! There are not enough men like Jack Allen Proctor in this world and he will be missed by so many. So take into your heart and share the most important lesson that he taught even until his very last days... Be grateful for what you have. Look at the glass as half full. Even at the end in spite of everything, he was grateful for his family and passed away with so much love and respect. His cup overflowed.

In Appreciation

VPMIA Charter Members

ACTIVE

- * MR. U. EARL ALLEN
- * MR. E. W. BAUGHAN
- * MR. FRANK BOSMA
- * MR. E. R. CARR
- * MR. EUGENE COBANKS
- MR. M. D. COOPER
- * MR. GORDON I. DAMERON
- * MR. JAMES B. JONES, JR.
- * MR. PARL C. KING
- * MR. CHARLES E. MANNION
- * MR. JOHN B. MASON
- MR. CURTIS H. NUNALLY
- * MR. WILLIAM G. PRIDY



ASSOCIATE

- * MR. JOSEPH E. BAKER
- * MR. T. C. BROWN
- * MR. CHARLES E. WESSMAN

LADIES AUXILIARY

- * MRS. RUTH BIANCO
- * MRS. ANN COBANKS
- * MRS. IRMA DRAKE
- MRS. RUTH JACK
- MRS. MARGARET KING
- MRS. SONIA SCHROECK
- MRS. SHIRLEY WILLIAMS
- * Indicates Deceased



Resolution of Respect in Memory of Stanley Borders

Whereas, Stanley Borders is the father of Stephen P. Borders, a Lifetime Member of the Virginia Plumbing and Mechanical Inspectors Association; and

Whereas, Stanley Borders was called to be with the Lord on February 19, 2011; and

Whereas, Stanley Borders served his country in World War II & also served his state with the Virginia Department of Health; and

Whereas, Stanley Borders served his community for fifty five years as pastor of Trinity Baptist Church; and

Whereas, Stanley Borders was a Kentucky Colonel; and

Whereas, The family and friends of Stanley Borders have many fond memories of singing hymns and of playing church softball; and

Whereas, The Virginia Plumbing and Mechanical Inspectors Association notes with great sadness the passing of Stanley Borders; now, therefore, be it

Resolved, That the Officers, Board of Directors, and the entire membership of the Virginia Plumbing and Mechanical Inspectors Association join the family of Stanley Borders in celebration of his life and do also offer their most heartfelt sympathy at the loss of this cherished family member; and

Resolved further, That the Virginia Plumbing and Mechanical Inspectors Association stands in readiness to assist the family of Stanley Borders in any manner desired or requested; and

Resolved further, That this resolution be respectfully submitted to Stephen P. Borders as a permanent memorial to the memory of his father, Stanley Borders.

Adopted this Seventh day of April, 2011.

Robert Adkins
Robert Adkins, President

ATTEST: *Bane Compton*
Bane Compton, Vice President



Resolution of Respect in Memory of Rudolf Schroeck

Whereas, Rudolf Schroeck passed from this world on April 26, 2011 at the age of 91; and

Whereas, Rudolf Schroeck was President of the Virginia Plumbing and Mechanical Inspectors Association in 1981; and

Whereas, Mr. Schroeck enjoyed a long & successful career with the County of Fairfax, Virginia retiring from his position there as Chief Plumbing Inspector in 1988; and

Whereas, Rudi dedicated many hours to instruction of the plumbing apprenticeship program; and

Whereas, The Virginia Plumbing and Mechanical Inspectors Association notes with great sadness the passing of Rudolf Schroeck; now, therefore, be it

Resolved, That the Officers, Board of Directors, and the entire membership of the Virginia Plumbing and Mechanical Inspectors Association join the family of Rudolf Schroeck in celebration of his life and do also offer their most heartfelt sympathy at the loss of this cherished family member; and

Resolved further, That the Virginia Plumbing and Mechanical Inspectors Association stands in readiness to assist the family of Rudolf Schroeck in any manner desired or requested; and

Resolved further, That this resolution be respectfully submitted to the family of Rudolf Schroeck as a permanent memorial in his honor.

Adopted this Third day of June, 2011.

Bane Compton
Bane Compton, President

ATTEST: *Ron Bladen*
Ron Bladen, Vice President



Resolution of Respect in Memory of Clinton Wallace

Whereas, Before his death on August 4, 2011 at the age of 52, Clinton Wallace was an Active Member of the Virginia Plumbing and Mechanical Inspectors Association; and

Whereas, Clinton Wallace was a native of Cleveland, Ohio; and

Whereas, Mr. Wallace's 28 year career included positions as Housing Inspector of Cleveland Heights, Ohio, Building Commissioner of East Cleveland, Ohio and Building Commissioner of Defiance, Ohio; and

Whereas, Mr. Wallace was later appointed by the Mayor of Toledo, Ohio as head of that city's Building Department; and

Whereas, Clinton Wallace was most recently employed by Virginia's Department of Housing and Community Development as State Building Code Administrator; and

Whereas, Clinton's drive to move forward and wonderful sense of humor was well known among his peers; and

Whereas, The Virginia Plumbing and Mechanical Inspectors Association notes with great sadness the passing Clinton Wallace; now, therefore, be it

Resolved, That the Officers, Board of Directors, and the entire membership of the Virginia Plumbing and Mechanical Inspectors Association join the family of Clinton Wallace in celebration of his life and do also offer their most heartfelt sympathy at the loss of this cherished family member; and

Resolved further, That the Virginia Plumbing and Mechanical Inspectors Association stands in readiness to assist the family of Clinton Wallace in any manner desired or requested; and

Resolved further, That this resolution be respectfully submitted to Mr. Wallace's family as a permanent memorial to the memory of Clinton Wallace.

Adopted this Ninth day of September, 2011.

Bane Compton
Bane Compton, President

ATTEST: *Ron Bladen*
Ron Bladen, Vice President



Resolution of Respect in Memory of Marie Louise Adams

Whereas, Paul M. Adams is a Lifetime Member of the Virginia Plumbing and Mechanical Inspectors Association; and

Whereas, Marie Louise Adams, his beloved wife of seventeen years, passed from this world on September 30, 2011 at the age of 65; and

Whereas, Marie Louise Adams was retired from the City of Norfolk's Planning Department; and

Whereas, Mrs. Adams was an avid crafter and a fantastic cook who took great pleasure sharing her crafts and food with family and friends; and

Whereas, The Virginia Plumbing and Mechanical Inspectors Association notes with great sadness the passing of Marie Louise Adams; now, therefore, be it,


Resolved, That the Officers, Board of Directors, and the entire Membership of the Virginia Plumbing and Mechanical Inspectors Association join the family of Marie Louise Adams in celebration of her life and do also offer their most heartfelt sympathy at the loss of this cherished family member; and

Resolved further, That the Virginia Plumbing and Mechanical Inspectors Association stands in readiness to assist the family of Marie Louise Adams in any manner desired or requested; and

Resolved further, That this resolution shall be respectfully submitted to the family of Marie Louise Adams; and

Resolved further, That this resolution shall be published in the annual yearbook of the Virginia Plumbing and Mechanical Inspectors Association as a permanent memorial in honor of Marie Louise Adams.

Adopted this Fourteenth day of October, 2011.


Bane Compton, President

ATTEST: 
Ron Bladen, Vice President



Resolution of Respect in Memory of Fred William Borden III

Whereas, Before his death on October 10, 2011 at the age of 66, Fred William Borden III was an Associate Member of the Virginia Plumbing and Mechanical Inspectors Association; and

Whereas, Fred William Borden III was known by his family and friends to be a modest, compassionate, and generous man; and

Whereas, In his youth, Fred William Borden III started out working for his father as a Plumber's Helper on weekends and during summer break; and

Whereas, As an adult, Fred William Borden III was employed full-time by the family business and quickly earned his plumbing license; and

Whereas, Fred William Borden III became President of Fred W. Borden Plumbing upon his father's retirement in 1977; and

Whereas, Mr. Borden was known by his employees to be a man of great wisdom who treated everyone with kindness and respect; and

Whereas, The Virginia Plumbing and Mechanical Inspectors Association notes with great sadness the passing of Fred William Borden III; now, therefore, be it

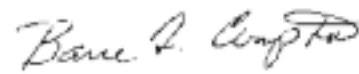
Resolved, That the Officers, Board of Directors, and the entire membership of the Virginia Plumbing and Mechanical Inspectors Association join the family of Fred William Borden III in celebration of his life and do also offer their most heartfelt sympathy at the loss of this cherished family member; and

Resolved further, That the Virginia Plumbing and Mechanical Inspectors Association stands in readiness to assist the family of Fred William Borden III in any manner desired or requested; and

Resolved further, That this resolution shall be respectfully submitted to the family of Fred William Borden III; and

Resolved further, That this resolution shall be published in the annual yearbook of the Virginia Plumbing and Mechanical Inspectors Association as a permanent memorial in honor of Fred William Borden III.

Adopted this Fourteenth day of October, 2011.


Bane Compton, President

ATTEST: 
Ron Bladen, Vice President

VPMIA 49th Annual School of Instruction
March 28—30, 2012

Holiday Inn University
900 Princes Fork Road
Blacksburg, VA 24060
Phone: 540-552-7001

Program

Wednesday, March 28

7:00	-	8:15 a.m.	REGISTRATION
8:15	-	8:45 a.m.	Virginia Tech Color Guard/ Opening Remarks (Ron Rordam, Mayor of Blacksburg)
8:30	-	10:15 a.m.	Morgan Thermal Ceramics Fire Master Duct Wrap (Tom Harlan & David Kies)
10:15	-	10:45 a.m.	BREAK
10:45	-	12:00 p.m.	Natural Gas Company (Pete Hudson, Atmo Gas Company)
12:00	-	1:00 p.m.	LUNCH
1:00	-	2:30 p.m.	Rainwater Management/Harvesting (Benjamin Sojka)
2:30	-	3:00 p.m.	BREAK
3:00	-	4:30 p.m.	Laboratory Design Basics & Special Waste Piping Systems: <i>Cast iron vs. plastic piping in commercial construction</i> (Vic Hines, Charlotte Pipe & Foundry)
5:00	-	6:00 p.m.	PRESIDENT'S WELCOME
6:00	-	7:30 p.m.	BUFFET DINNER
7:00	-	11:00 p.m.	Casino Night in Blacksburg!

Thursday, March 29

9:00 a.m.	-	4:00 p.m.	2009 IBC Accessibility and Usability for Commercial Buildings (Jay Woodward, International Code Council)
10:15	-	10:30 a.m.	BREAK
10:30	-	12:00 p.m.	Class continues
12:00	-	12:15 p.m.	VPMIA GENERAL MEMBERSHIP MEETING - PART 1
12:00	-	1:00 p.m.	LUNCH
1:00	-	2:30 p.m.	Class continues
2:30	-	2:45 p.m.	BREAK
2:45	-	4:00 p.m.	Class continues
6:30	-	10:00 p.m.	BANQUET—with Guest Speakers, Installations & Awards

Friday, March 30

8:00	-	9:00 a.m.	BREAKFAST BUFFET
9:00	-	12:00 p.m.	GENERAL MEMBERSHIP MEETING - PART 2

—From Ron Bladen, Chairman, VPMIA Advertising/Yearbook Committee—

“Thank You,” to those whose efforts have made this VPMIA Yearbook possible:

Bane Compton, President

Jane Fitzgerald, Fitzgerald Art & Design LLC

John Seay, Awards Chairman

Our Advertisers, (individually listed on p. 7)

Don Bladen, Doyle Printing & Offset

Our Exhibitors, (individually listed on p. 22)

with special thanks to contributors, Lee Clifton, ICC, and Luis Escobar, ACCA

Horizontal Wet Venting

MADE SIMPLE

The 2012 International Plumbing Code (IPC) Section 912 addresses the design and installation requirements of a horizontal wet vent system.

A fixture is said to be wet vented when the vent also carries the waste flow from an additional fixture or fixtures upstream of the vented fixture. The use of wet venting procedures reduces the number of individual vent pipes required by a plumbing drainage system as contrasted with the number required by a conventional system, thus reducing the cost of most venting systems. There are many types of venting methods allowed in the International Plumbing Code (IPC). The Horizontal Wet Venting method located in Section 912.1 of the IPC will be illustrated and explained in this article.

What is a horizontal wet vent? A horizontal wet vent is a horizontal branch drain pipe that has been increased in size larger than what is normally required by Section 710 to accommodate drainage and venting. This increase in pipe size allows for a large air space above the maximum probable waste flow level in the pipe so as to provide for adequate venting airflow in the same pipe as the waste flow. Wet Venting as shown in Figure 1 can be used in both vertical and horizontal applications.

The vertical method may be more common to plumbing installers in certain regions, however, don't be alarmed

Figure 1

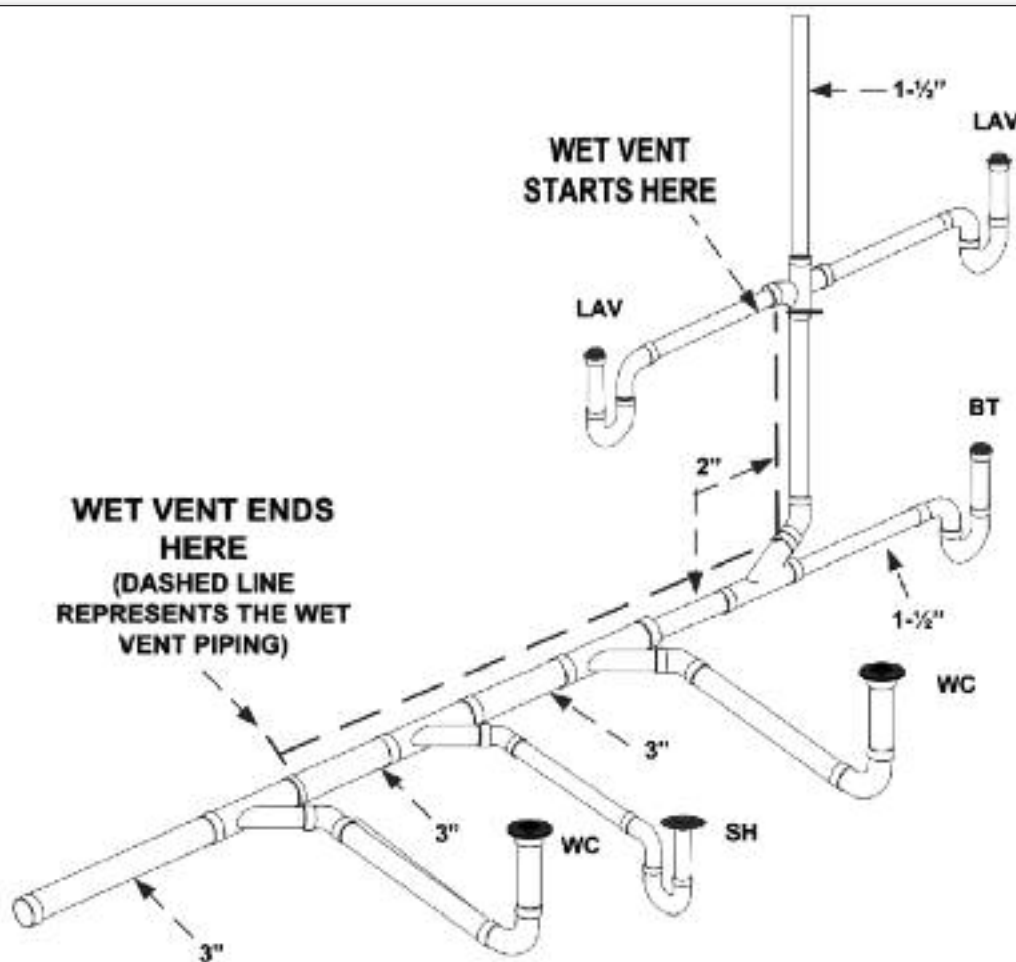


Table 909.1
Maximum Distance of Fixture Trap from Vent

Size of Trap (inches)	Slope (inch per foot)	Distance From Trap (feet)
1 1/4	1/4	5
1 1/2	1/4	6
2	1/4	8
3	1/8	12
4	1/8	16

by what you see! The horizontal wet venting method is an effective way to provide a safe sanitary system that can save the contractor and owner time and materials.

The maximum fixture drain length from the wet vent is limited to the distances shown in Table 909.1. There may be a situation where the fixture location is at a distance that exceeds the maximum trap to vent distance. The code allows for any number of individual vented fixtures of the types allowed for a bathroom group to connect to the horizontal wet vent as long the total number of fixtures allowed for the bathroom groups is not exceeded.

Section 202 of Chapter 2, is the key to the maximum number and type of fixtures that can be accommodated by a horizontal wet vent. The definition of Bathroom Group is a group of fixtures consisting of a water closet, lavatory, bathtub or shower, including or excluding a bidet, an emergency floor drain or both. Such fixtures are to be located together on the same floor level. This is done to avoid high flow velocities which could cause excessive turbulence that might block the air space above the waste flow level. Section 912.1 allows any combination of fixtures within two bathroom groups to be vented by a horizontal wet vent. A horizontal wet vent could have as few as two fixtures or as many as ten fixtures but not more than two fixtures of the same type can be connected to the system. Each wet vented fixture drain shall connect independently to the horizontal wet vent. This is done to protect the function of each fixture, assuring that one fixture will not influence another's operation.

The dry vent, the vent that continues upward from the wet vent to the point of termination or connection to another vent, shall be either an individual vent or a common vent for any bathroom group fixture, except an emergency floor drain. Where the dry vent connects to a water closet fixture drain,

Table 912.3
Wet Vent Size

Wet Vent Pipe Size (inches)	Drainage Fixture Load (dfu)
1-1/2	1
2	4
2-1/2	6
3	12

the drain shall connect horizontally to the horizontal wet vent system. Not more than one wet vented fixture drain shall discharge upstream of the dry vented fixture drain connection. Vertical wet vented systems containing water closets require that the water closet drains connect at the same elevation. Other fixture drains are required to connect above or at the same level elevation as the water closet fixture drains. This is not the case in horizontal wet venting.

The dry vent must be sized in accordance with Section 906.2. Remember, that in this case, the drain served is going to be the entire wet vented section so it will need to be at least one-half the diameter of the largest section of pipe in the system. The wet-vented section itself is sized per Table 912.3.

Table 706.3
Fittings for Change in Direction

Type of Fitting Pattern	Change in Direction		
	Horizontal to Vertical	Vertical to Horizontal	Horizontal to Horizontal
Sixteenth bend	X	X	X
Eighth bend	X	X	X
Sixth bend	X	X	X
Quarter bend	X	X _a	X _a
Short sweep	X	X _{a,b}	X _a
Long sweep	X	X	X
Sanitary tee	X _c	---	---
Wye	X	X	X
Combination wye and eighth bend	X	X	X

For SI: 1 inch = 25.4 mm.

- a. The fittings shall only be permitted for a 2-inch or smaller fixture drain.
- b. Three inches or larger
- c. For a limitation on double sanitary tees, see Section 706.3.

Keep in mind that any additional fixtures outside of the wet vent, that are to be drained into the same branch must be connected to the branch downstream of the wet vent. Because the wet vent serves as a drain, the type of fittings used must be in accordance with the drainage pattern shown in Table 706.3. ◊

Lee Clifton is the Director of Plumbing Programs for the International Code Council, Plumbing & Mechanical Activities. Prior to joining the Code Council, Lee was with the City of Los Angeles for 21 years. Lee holds an L.A. City Journeyman Plumber's license; numerous certificates for training and medical gas inspection and an ICC Certified Plumbing & Mechanical Inspector. He is a member of the American Society of Sanitary Engineers, the American Society of Plumbing Engineers and the American Backflow Prevention Association. In the past Lee has participated on numerous industry committees and has authored many technical articles, books and publications. The latest is the 2012 Significant Changes to the International Plumbing Code which is now available.

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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.

VPMIA 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 any one 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.

VPMIA 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.

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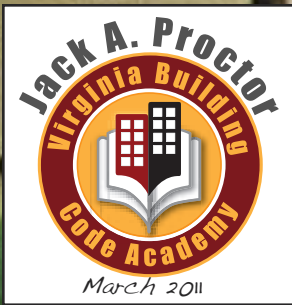
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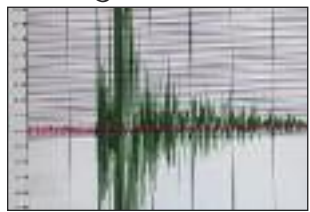


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VPMIA *Strategic Plan*

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.
- Maintain and promote certifications.
- Respect others.

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, VCCCA, IAEE, and PMPV.

- 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.

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ENERGY STAR and ACCA QA Recognition Program

The Environmental Protection Agency's ENERGY STAR™ for New Homes Program Version 3.0, initially launched on 1 January 2011, will be fully implemented on 1 July 2012. Continuing with the program's history of raising the bar for home energy performance, the new version's requirements for the design and installation of HVAC systems are more stringent than Version 2.0. This new version has many positive aspects that will surely benefit code officials in Virginia, including the requirement for HVAC contractors to be ACCA QA recognized as capable of consistently performing quality HVAC installations. However, a relaxed implementation schedule for some of the design requirements must be noted as they conflict with current Virginia code requirements.

ENERGY STAR raises the bar

For over a decade, the EPA has been raising the bar in home energy performance. It began in October of 1996 when the EPA

launched ENERGY STAR for qualified new homes, which recognized homes that were 30% more energy efficient than homes built to meet the existing model code requirements. ENERGY STAR subsequently developed specifications for residential heating and cooling products. With each passing year, the new homes program grew in public awareness and size, even expanding to include manufactured homes.

By 2003, half of the top US home builders were participating in ENERGY STAR for New Homes. 2006 proved to be a big year for the program with 12% (200,000 homes) of single family home starts earning the ENERGY STAR label. That year also saw the revision of the program specification, which went into effect in November. Three years later, the total number of qualified homes built surpassed the 1 million mark. Building on this momentum, the requirements for the new homes program have been raised again.

The more rigorous Version 3.0 stipulates that homes must now be compliant with the requirements of the ANSI/ACCA 5 QI (*HVAC Quality Installation Specification*) in order to receive the ENERGY STAR label. Qualifying homes must have all of the items on an HVAC System Quality Installation Contractor Checklist (a new Version 3.0 requirement) completed; noncompliance with any item will now prevent the homes from earning the label. This inspection checklist was designed specifically to align with the protocols in the ACCA 5 QI Standard. Further, the HVAC system installation work will be third-party verified by a qualified rater who will fill out an HVAC Quality Installation Rater Checklist (another Version 3.0 requirement). This checklist will protect the integrity of HVAC system inspections for participating homes.

Another aspect of Version 3.0 is that HVAC contractors must be recognized (such as by ACCA's Quality Assured Contractor Recognition Program). The pur-

Ensuring Mechanical System Quality in New Homes

Luis Romeo Escobar
Technical Services Engineer, ACCA

pose of this recognition is to enable homebuilders to identify those HVAC contractors that can comply with the provisions of ACCA 5 QI. Participants in the program have the proper licenses, registrations, insurances, and written internal business policies that render them capable of performing quality installations on an on-going basis.

Benefits for Mechanical Inspectors

With the implementation of Version 3.0, code officials can look forward to the following benefits:

1. ENERGY STAR supports code officials, as other parties are reviewing HVAC system design and installation for adherence to code requirements.
2. ENERGY STAR's primary focus on energy and water conservation. Not only are there required checklists for the thermal enclosure system and HVAC system quality installation, but

also for the water management system.

3. ENERGY STAR Version 3.0 fosters the development of a cadre of trained raters that will verify the quality installation of the HVAC and water management system in these homes.

Be Aware of Deviations!

Despite everything the program has in its favor, including the additional oversight of system design, inspectors must remain vigilant when conducting permit request reviews. This is because the EPA has relaxed some of the requirements found in ACCA 5 QI in order to assist the homebuilders in meeting the program requirements. Three specific deviations that EPA is temporarily permitting homebuilders are:

1. For a home model that will be built using multiple orientations, the equipment selection may be based on a load calculation that uses the worst-case compass orientation, regard-

less of the individual house orientation.

2. The outdoor design temperatures may deviate from the temperature values found in Manual J8 Tables 1A and 1B by $\pm 5^{\circ}\text{F}$.
3. A low resistance air path to the return is not required for all rooms.

These requirement relaxations will continue until 1 January 2013; however, these extensions directly conflict with the code minimums in Virginia. EPA's Version 3 National Program Requirements say the following about conflicts between ENERGY STAR program requirements and code requirements:

Note that compliance with these guidelines is not intended to imply compliance with all local code requirements that may be applicable to the home to be built. Where requirements of the local codes, manufacturers'

continued on next page

Quality Assured Contractors Program

The ACCA QA Program was launched in February 2011 in support of the EPA's ENERGY STAR for New Homes. The QA Program recognizes HVAC contractors that have implemented policies to effect quality installations on a consistent basis as defined in the Quality Assured Con-

tractor Elements in the ACCA 5 QI Standard. ACCA verifies that all program participants have the requisite licensing, insurance, and bonding. For detailed program information including a list of recognized program participants, please go to www.acca.org/qa.

installation instructions, engineering documents or regional ENERGY STAR programs overlap with the requirements of these guidelines, EPA offers the following guidance:

a. In cases where overlapping requirements exceed the ENERGY STAR guidelines, these overlapping requirements shall be met.

In the Commonwealth of Virginia, the applicable 2009 IRC code requirements are:

“M1401.3 Sizing. Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on building loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies.”

“M1601.1 Duct design. Duct systems serving heating, cooling and ventilation equipment shall be fabricated in accordance with the provisions of this section and ACCA Manual D or other approved methods.”

The pertinent sections of the ACCA manuals J and D to the permitted deviations are the following:

Luis Romeo Escobar is the Technical Services Engineer for the Research & Technology Department of the Air Conditioning Contractors of America (ACCA).

1. “Manual J, 2-3 Protocols for Estimating Heating and Cooling Loads: Use the outdoor design conditions recommended by Table 1A of Manual J (unless superseded by local code).”

2. “Manual J, 3-7 Outdoor Design Conditions: Outdoor design conditions for Manual J and MJ8_{AE} are provided by Tables 1A and 1B.”

3. “Manual J, 2-3 Protocols for Estimating Heating and Cooling Loads: Consider orientation of the structure on the site.

a. Use the actual orientation whenever possible.

b. Use “best case – worst case” load estimates for cookie cutter designs that may have varying site orientations when built.”

4. “Manual D, 4-9 Low Resistance Return Path: An engineered, low resistance return path shall be provided for every room or space that receives supply air. This path may be through a ducted return grille, a transfer duct (fitted with two

return grilles) to a central return, or a door grille.”

Although the ENERGY STAR program currently allows the system designer to deviate from these requirements, they are superseded by code in Virginia. Thus the inspector should evaluate the design based on the appropriate requirements.

~ Conclusion ~

The changes to the ENERGY STAR for New Homes program have made it a more stringent program with regard to energy conservation, as well as an asset for code officials in Virginia and throughout the country. The program will lead to more efficient, correctly designed and installed HVAC systems that are verified by a rater for completion. ACCA's QA Recognition Program will position homebuilders to use only those HVAC contractors capable of doing work to recognized standards and codes. These enhancements may ameliorate the job of mechanical inspector; however, Virginia inspectors must remain watchful of any deviations from minimum code requirements. ♦

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Constitution and By-Laws

ARTICLE I — The Name, Seal, and Address of this Association

Section 1. The name shall be the Virginia Plumbing and Mechanical Inspectors Association; herein and hereafter referred to as the Association.

Section 2. The seal shall be as indicated below:

Section 3. The address shall be that of the Executive Secretary or as otherwise designated by the Board of Directors.



ARTICLE II — Objectives

Section 1. The objectives of the Association are:

- A. To participate in the formulation of Virginia Plumbing and Mechanical Code provisions.
- B. To promote uniform understanding and application of the Virginia Uniform Statewide Building Code.
- C. To promote and secure uniform inspection methods throughout the Commonwealth of Virginia.
- D. To promote closer industry unity between code officials, governing agencies and the private sector.
- E. To promote and improve the standard of professional plumbing and mechanical inspectors.
- F. To provide professional development through an annual education and training seminar which shall be known as the School of Instruction.
- G. To encourage growth of the Association by providing enhanced services to its members and by promoting strong leadership values, respect and the pursuit of common goals.

ARTICLE III — Membership

Section 1. Active membership shall be open to code officials actively engaged in plumbing and/or mechanical code enforcement. Application for membership shall be in writing and submitted to the Executive Secretary.

Section 2. Associate and student memberships shall be open to those persons interested in the design, manufacture, installation or sale of plumbing and/or mechanical systems/products.

Section 3. Retired membership shall be open to those members submitting written application for retired status to the Executive Secretary.

Section 4. Life membership may be extended only to Active and Associate members who have significantly contributed to promoting the objectives of the Association. Life members may be nominated and approved by the general membership at the third general membership meeting. Life membership shall be limited to one Active member and one Associate member per calendar year.

Section 5. Charter members are those who founded the Association.

Section 6. Honorary membership shall be open to those persons who are not members of the Association but have made a significant contribution in promoting the objectives of the Association.

Section 7. Application for associate, student and honorary member-

ships shall be in writing, submitted to the Executive Secretary and reviewed by the Board of Directors for approval.

Section 8. All members shall conduct themselves in accordance with the Associations Code of Ethics and shall be willing to promote the objectives of the association.

ARTICLE IV — Board of Directors

Section 1. The Association shall be governed by a Board of Directors, herein and hereafter referred to as the Board, which shall consist of the elected officers, District Directors, the Director-at-Large and the Chairperson of each standing committee.

Section 2. The Board shall manage the policies, business, property and affairs of the Association.

Section 3. Officers

- A. The officers of the Association shall consist of a President, Vice President, Secretary and Treasurer. The officers shall be Active members and shall be elected and installed during the annual School of Instruction.
- B. The officers shall hold office from the close of the annual School of Instruction through the close of the annual School of Instruction of the following year. Officers shall serve no more than two consecutive terms in the same office.

Section 4. Directors

- A. A total of four active members may be elected as District Directors. The Directors shall be Active members and shall be elected and installed during the annual School of Instruction.
- B. The Directors shall hold office from the close of the annual School of Instruction through the close of the annual School of Instruction the following year.
- C. Each District shall consist of all cities, towns and counties as outlined in Appendix A.
- D. The Director-at-Large shall be the immediate Past President.
- E. Non-voting Ex-officio members on the Board of Directors shall include the President, or his or her duly appointed representative, of the Virginia Chapter of the International Association of Electrical Inspectors, The Virginia Fire Prevention Association, and The Virginia Building Code Officials Association.

Section 5. In the event that an Officer or Director resigns, the Board shall appoint, as soon as possible, an Active member to fill the unexpired term.

Section 6. Appointments

- A. An Executive Secretary shall be appointed by the Board for a maximum term of five years or as determined by the Board. Compensation of services rendered shall be as approved by the Board.
- B. A Director of Finance shall be appointed by the Board for a maximum term of five years or as determined by the Board. Compensation of services rendered shall be as approved by the Board.

Section 7. General duties

- A. Board members shall review the draft General Membership or Board of Director meeting minutes and return

corrections within 5 business days after receipt of such draft minutes.

**ARTICLE V — Duties of the Officers, Directors,
Executive Secretary and Finance Director**

Section 1. The President

- A. To preside over all meetings.
- B. To select all committee chairpersons except the finance and the nominating committees.
- C. The President may appoint members to represent the Association on local, state or national committees, boards and similar entities when such representation is requested or provided for by regulation or statute. Appointments shall not conflict with the Association's by-laws or code of ethics.
- D. To be an ex-officio member of all committees except the nominating committee.
- E. To perform such other duties applicable to the office as prescribed by the parliamentary authority adopted by the Association.

Section 2. The Vice President

- A. To assist the President at all meetings.
- B. To preside over all meetings in the absence of the President.
- C. To perform such other duties as applicable to the office as prescribed by the parliamentary authority adopted by the Association.

Section 3. The Secretary

- A. To assist the presiding officer with the orders of business and to distribute correspondences to all members present.
- B. Notification of meetings.
 1. To send to all Board members a notice of every Board meeting at least twenty days in advance of such meeting.
 - a. Ten days notice, including an agenda, shall be given for all special meetings.
 2. To send all members a notice of every General Membership meeting at least thirty days in advance of such meeting.
- C. The Secretary shall, electronically or by mail, send the draft Board of Director or General Membership meeting minutes to the Board of Directors for comments and revisions within seven business days after the conclusion of the meeting.
- D. To maintain and have available at all meetings the official minute book.
- E. To record the voting at all meetings.
- F. To send letter ballots to all Board members not present at meetings for which there is no quorum.
- G. To perform such other duties as applicable to the office as prescribed by the parliamentary authority adopted by the Association.

Section 4. The Treasurer

- A. To accurately record and post all funds received and disbursed.

- B. To pay all bills that have been approved as per the budget or by the Board.
- C. To submit a quarterly report of the Association's finances to the Finance Committee.
- D. To submit a report of the Association's finances at all meetings, except special meetings unless included in the special meeting agenda.
- E. To maintain the financial records of the Association on a fiscal year from May 1 through April 30, unless otherwise approved by the Board.
- F. To be a standing member of the Finance Committee.
- G. To perform such other duties as applicable to the office as prescribed by the parliamentary authority adopted by the Association.
- H. The Board of Directors has the authority to require the Treasurer be bonded as deemed necessary. If the Board of Directors determines that a bond is required, the value, timeframe and terms of the bond shall be established in a board-adopted policy. The Association shall pay the bond premium and any other costs associated with the bond.

Section 5. The District Director

- A. To attend the Board and General Membership Meetings per term of office.
- B. To assist in the management of the Association.
- C. To report any concerns of the members within their district to the Board.

Section 6. The Executive Secretary

- A. To prepare for the Board all business that has not been assigned to others.
- B. To present or have presented at all meetings all reports received from committee chairpersons.
- C. To recommend plans of work and conduct the general business of the Association under the direction of the Board and the General Membership.
- D. To be a standing member of the School of Instruction Committee.
- E. To authorize both active and/or retired membership status.
- F. To maintain all membership applications.
- G. To receive the letter of resignation of an Officer or Director and present it at the next Board meeting.
- H. To send to each Director a current roster of all members within their respective districts no more than thirty days after the third General Membership meeting.
- I. To maintain and have available at all meetings a current roster which lists only members in good standing by district affiliation.
- J. To send all membership renewals by December 1 of each year.

Section 7. The Director of Finance

- A. To coordinate the finances of the Association.
- B. To serve as the chairperson of the Finance Committee.

(continued next page)

ARTICLE VI — Committees

Section 1. The number of committee members, mentioned below, includes the chairperson. Standing Committee chairpersons are appointed by the President, see previously in the text, Article V, Section 1.B. Standing Committee members are selected by the committee chairperson as stated hereinafter in this Article or are established within the description of the committee. Standing Committee members that are established by the text are in addition to those members appointed and selected. Standing Committees may include, but are not limited to. The following:

- A. An Advertising and Yearbook Committee, composed of five members, shall be appointed within thirty days after the third General Membership meeting. It shall be the duty of this committee to manage an advertising campaign and publish the yearbook for the Association's School of Instruction.
- B. An Auditing Committee, comprised of three members, shall be appointed within thirty days after the third General Membership meeting. It shall be the duty of this committee to audit the Treasurer's account(s) at the close of the calendar year and report at the fourth regular Board meeting. The Treasurer shall not be a member of this committee.
- C. An Awards Committee, comprised of five members, shall be appointed within thirty days after the third General Membership meeting. It shall be the duty of this committee to select and present, the awards for Outstanding Service to the Active and Associate members of the Association and the awards to the individuals that are the outstanding plumbing and mechanical apprentice of the year.
- D. A By-laws Committee, comprised of five members, shall be appointed within thirty days after the third General Membership meeting. It shall be the duty of this committee to review, discuss, prepare and recommend, to the Association, any necessary changes to the Association's By-laws in order to maintain current directives for the administration of the Association.
- E. A Certification, Education, and Training Committee, comprised of five members, shall be appointed within thirty days after the third General Membership meeting. It shall be the duty of this committee to organize educational classes for the School of Instruction.
- F. A Finance Committee, comprised of three members, the Treasurer and the Finance Director, shall be appointed within thirty days after the third General membership meeting. It shall be the duty of this committee to prepare a budget for the fiscal year and submit it to the Board for approval at its last scheduled meeting prior to the third General Membership meeting. The committee may submit amendments to the current budget at any regular meeting. The committee shall prepare and submit any other reports as directed by the Board.
- G. A Legislative Committee composed of three members, shall be appointed within thirty days after the third General Membership meeting. It shall be the duty of this committee to attend as many Virginia General Assembly meetings as possible and to be observant of new regulations. This committee will review, discuss and report to the Board of Directors and the General Membership, any legislature or regulations that will directly or indirectly effect the Association or its members.
- H. A Membership and Website Committee, comprised of five members, shall be appointed within thirty days after the third General Member-ship meeting. It shall be the duty of this committee to keep the website current and updated. The website shall be the source of Association meetings, dates, membership and advertisement applications, Association and public information and other Association information.

- I. A Nominating Committee shall be comprised of the five most immediate past presidents of the Association willing to serve in this capacity. The most immediate past president on the committee shall serve as the chairperson. It shall be the duty of this committee to nominate, at the third General Membership meeting, candidates for the offices to be filled. Before the election, additional nominations from the floor shall be permitted.
- J. A Plumbing, Mechanical and Fuel Gas Code Committee, composed of all Association members willing to participate, the chairperson shall be appointed within thirty days after the third General Membership meeting. It shall be the duty of this committee to review, discuss and recommend necessary changes that apply to the Commercial and Residential Plumbing, Mechanical and Fuel Gas Codes.
- K. A School of Instruction Committee, comprised of the Executive Secretary, the chairperson shall be appointed within thirty days after the third General Membership meeting. It shall be the duty of this committee to plan the program for the next Annual School of Instruction.
- L. A Time and Place Committee, comprised of five members, shall be appointed within thirty days after the third General Membership meeting. It shall be the duty of this committee to review the date and location of all General Membership meetings and submit a report and recommendation to the General membership for approval at least twelve months prior to such meeting.

Section 2. Duties of the Committee Chairperson

- A. To submit, in writing, all committee findings and recommendations to the Executive Secretary at least ten days prior to any meeting, except special meetings, unless specified on the agenda. If the chairperson or members of the committee is in attendance at the meeting, such written report shall not be required.
- B. To select all committee members not specifically provided for in other sections of these by-laws and report their names to the Executive Secretary within thirty days of their appointment.

Section 3. A Special Ad Hoc Committee shall be appointed for a specific purpose when necessary.

- A. The committee shall be under the authority and direction of the Board, unless specifically provided herein.
- B. The committee shall be comprised of at least five members.
- C. It shall be the duty of this committee to carry out a specified task and present it to the Board.
- D. The committee chairperson shall not be granted the voting privileges as a Standing Committee Chairperson.

ARTICLE VII — Voting

Section 1. Only Active, Charter and Lifetime Active members who are in good standing shall have the right to vote.

Section 2. All members shall have the right to make and second motions.

ARTICLE VIII — Meetings

Section 1. Three General Membership meetings shall be held each year. The first shall take place approximately fourteen days prior to or fourteen days after August 1. The second shall take place approximately thirty days prior to or thirty days after November 15. The third shall take place approximately fourteen days prior to or fourteen days after April 1, during the Annual School of Instruction.

Section 2. Four Board meetings shall be held each year at a time and

location determined by the President. The first shall be held at least sixty days prior to the first General Membership meeting. The second shall be held at least sixty days prior to the second General Membership meeting. The third on the day of thesecond General Membership meeting and the fourth at least thirty days prior to the third General Membership meeting. A quorum shall consist of at least seven Board members. Action taken by less than seven Board members shall be null and void unless confirmed by a letter ballot from those members who were absent.

Section 3. Special Board meetings may be called by the President. Such meetings may also be called by the Board with the written request of at least seven members. The purpose of the meeting shall be stated in the call. The location of the meeting shall be determined by the President. At least ten days notice shall be given. A quorum shall consist of at least seven Board members. Action taken by less than seven Board members shall be null and void unless confirmed by a letter ballot from those members who were absent.

ARTICLE IX — Dues

Section 1. Annual Dues

- A. Active membership shall be thirty dollars per calendar year.
- B. Associate membership shall be thirty-five dollars per calendar year except those who have paid for five consecutive years shall only be required to pay thirty dollars per consecutive calendar year thereafter.
- C. Retired membership shall be ten dollars per calendar year.
- D. Charter and Life membership shall be absorbed by the Association.

Section 2. No members shall be in good standing whose dues are not paid by March 1 of each year and shall not be maintained on the membership roster if not paid by December 31.

Section 3. Dues may only be revised at General Membership meetings.

ARTICLE X — Amendments

Section 1. The Constitution and By-Laws may be amended by two-thirds vote at any General Membership meeting, provided that the proposed amendment has been submitted in writing at a previous General Membership meeting.

ARTICLE XI — Parliamentary Authority

Section 1. The current edition of Robert's Rules of Order Newly Revised shall be the Association's final authority on all questions of procedure and parliamentary law not covered by the Constitution and By-Laws nor any special rules of order the Association may adopt.

APPENDIX A — Districts of The Virginia Plumbing and Mechanical Inspectors Association

- District I** Shall be the area, including all cities and town that lie therein, created by the counties of Augusta, Arlington, Clark, Culpeper, Fairfax, Fauquier, Frederick, Greene, Highland, Loudoun, Madison, Orange, Page, Prince William, Rappahannock, Rockingham, Shenandoah, Spotsylvania, Stafford and Warren.
- District II** Shall be the area, including all cities and towns that lie therein, created by the counties of Alleghany, Amherst,

Appomattox, Bath, Bedford, Bland, Botetourt, Buchanan, Campbell, Carroll, Craig, Dickenson, Floyd, Franklin, Giles, Grayson, Henry, Lee, Montgomery, Patrick, Pittsylvania, Pulaski, Roanoke, Rockbridge, Russell, Scott, Smyth, Tazewell, Washington, Wise and Wythe.

District III Shall be the area, including all cities and towns that lie therein, created by the counties of Albemarle, Amelia, Brunswick, Buckingham, Caroline, Charlotte, Chesterfield, Cumberland, Dinwiddie, Fluvanna, Goochland, Greensville, Halifax, Hanover, Henrico, King George, Louisa, Lunenburg, Mecklenburg, Nelson, Nottoway, Powhatan, Prince Edward, Prince George, Surry and Sussex.

District IV Shall be the area, including all cities and towns that lie therein, created by the counties of Accomack, Charles City, Essex, Gloucester, Isle of Wight, James City, King and Queen, King William, Lancaster, Mathews, Middlesex, New Kent, Northampton, Northumberland, Richmond, Southampton, Suffolk, Westmoreland and York.

According to History, these By-laws were adopted November 1962. Amended April 1988, December 1990, December 1994, April 2006, April 2007, April 2008, October 2010, and July 29th, 2011.

Participate

in VPMIA



Attend any of the four Board of Directors meetings and three General Membership meetings throughout the year. Check the VPMIA website, www.vpmia.org for the most current meeting information.

Ladies Auxiliary Program

VPMIA Ladies Auxiliary will gather in Blacksburg to celebrate VPMIA's 50th year. Some of us will help with Registration on Wednesday morning. The President's Welcome will be one opportunity to mingle and Casino night will follow that, but we will not start our own activities until Thursday.

On Thursday, March 29, Ethel Showman will conduct an informal class in jewelry making followed by a drive over to Virginia Tech to see their beautiful gemstone display at 11:00 a.m. This unique opportunity provides a rare glimpse at some of nature's most beautiful "artwork". The staff promised some surprises as part of this tour. There will be some time to visit the gift shop that features various gemstones for sale.

Thursday includes lunch at one of Blacksburg's downtown restaurants, along with our informal Ladies

Auxiliary Business Meeting—to approve last year's minutes, elect our new officers for 2012-2013 and attend to any pertinent business brought up. The rest of the afternoon is open so that folks can shop in the downtown if they like. Of course the banquet, with installation of officers, will take place later that evening.

Don't forget about Friday morning B-I-N-G-O — be ready for some fun in the competition and prizes! Snacks, drinks, etc. will be available at the craft/B-I-N-G-O room.

Updates or schedule changes will be posted at the VPMIA Registration Table.

Ladies attending the SOI may join in any of the activities as our guests.

2011-2012 Roster as of February 2012

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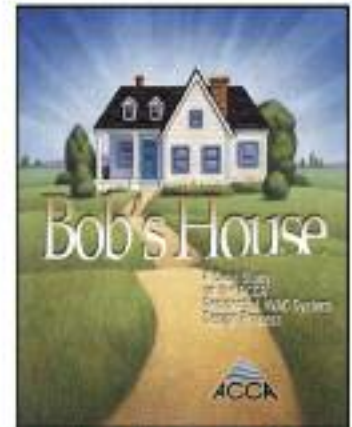
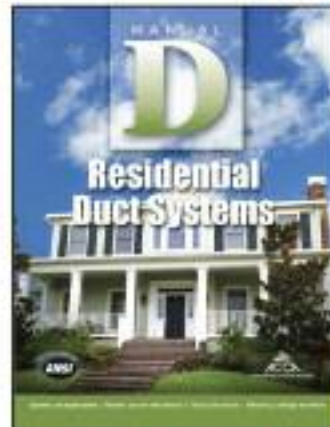
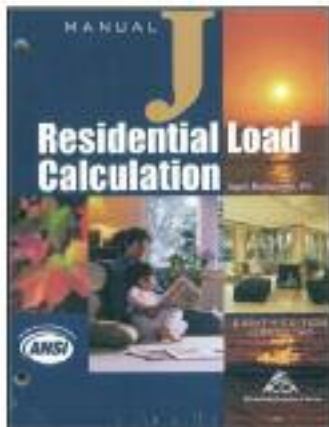
YOUR HVAC RESOURCE CENTER

The image shows a detailed review form for HVAC system design. It includes sections for:
- Project Information: Project Name, Address, City, State, and County.
- HVAC Load Calculation: Cooling and Heating loads, design conditions, and equipment selection.
- HVAC Equipment Selection: Cooling and Heating equipment details, including capacity and efficiency.
- HVAC Duct Distribution System Design: Duct layout, material, and insulation details.
- A checklist for required attachments and a signature line for the reviewer.

Residential Plans Examiner's HVAC Review Form

This form was developed to support an AHJ that desires to enforce the required HVAC system design process (2009 IRC M1401.3 and M1601.1). The form is completed with key information that allows you to provide a quick and simple evaluation of just a few objective HVAC system design aspects. To download a **free** copy of the form and the step-by-step explanation document, visit www.acca.org/industry/codes. The form can be modified and customized with your logos, phone numbers, addresses, or other information for internal department use.

You can purchase these essential code reference materials (*ACCA Manual J, S, & D*) for your library at www.acca.org/store. Also look for *Bob's House*, the illustrated guide through the residential HVAC design process written for code officials.



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