45th Annual School of Instruction

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Welcome to the 45th Annual Virginia Plumbing & Mechanical Inspectors Association School of Instruction in Charlottesville, Virginia.

From the Editor

This is your annual resource book for VPMIA. I encourage each and every member, Active and Associate, to take the time and read the entire publication. It is important for all to be aware of VPMIA’s History, Constitution, By-Laws, Code of Ethics/Mission, and Strategic Plan. And don’t forget about the President’s Corner to see what we have accomplished during this past year.

Last, but not least, there is something new in this publication — two cutting-edge, technical articles; the first authored by Lee Clifton of the International Code Council, and the second by Wes Davis of the Air Conditioning Contractors of America. We are grateful for their contributions.

Ron Bladen

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It’s been my privilege and honor to serve as your President this past year. I want to thank the VPMIA members for giving me the opportunity to lead the organization and keep it moving forward, by standing behind our Code of Ethics and living our Vision, Mission, and Strategic Mission. As we look toward a bigger and better future for our organization, we will keep growing and striving for our Strategic Plan and Mission. Also working with all my fellow board members, district directors and committee chairs has made this another successful year for VPMIA.

This year has been busy again with several members teaching code module classes, and some even traveling around the country teaching. These members need a big pat on the back for doing such a great job and making sacrifices by being away from home and their jobs. We are an organization of committed, dedicated, and very passionate inspectors in making sure the health, safety, and welfare of all Citizens is accomplished. We have several members involved with several other organizations and committees, along with being active in the Region 7 ICC Chapter working with several states to help bring consistency and uniformity of the codes throughout the country. The organizations has been preparing for the upcoming code hearings in California, with many members writing new code changes and having meetings to see as a organization what our positions are on the new changes. Several members will attend the code hearings and will be participants on code committees, such as Plumbing, Fuel Gas, and Mechanical. Remaining active in the organization is why we have been successful in the code development process and are well respected throughout the state of Virginia and across the country as well. This takes daily and year round involvement to maintain a strong, prosperous, and successful organization. At this time VPMIA is financially strong and scholarship funds are available for members to attend code hearings. This is your opportunity to step up, serve and get involved with what we are all about.

VPMIA has two Schools of Instruction per year so the members and contractors can receive some of the best training around and keep up on their required hours needed to maintain their inspector’s certifications and tradesman licenses through DHCD and DPOR. Also this year the following organizations, VPMIA and VBCOA, are planning another joint conference with outstanding training, with the common goal that uniformity is met throughout the state and the health, safety and welfare of all Virginia citizens is accomplished.

In closing, It has been a pleasure and great opportunity to serve as VPMIA President. I want to thank of the officers and directors and members who helped me make this a successful year. May we all continue to grow in knowledge and experience.

Thank you all,

Dennis Martinelli
President
VPMIA
A small group...

of Virginia plumbing inspectors met in 1959 following a seminar at VPIA in Blacksburg. The group discussed the possibility of forming a statewide association for the purpose of dissemination of information touching on new methods, materials and testing procedures used in the plumbing and heating profession.

Following the three-day seminar the inspectors returned to their respective jobs. Being dedicated to their profession, these men contacted individual members of the Virginia State Master Plumbers Association meeting. Cards were mailed asking the inspectors if they were interested in forming such an association.

The first meeting of the group, which would be called The Virginia Plumbing Inspectors Association, took place April 14, 1962 at the Hotel John Marshall in Richmond. Attending were fourteen plumbing inspectors and three associate members. (These names are published as Charter Members.) The first order of business for the group was to name a temporary chairman, Mr. Mannion, followed by nomination and election of officers.

Officers elected were: President, Charles E. Mannion, Richmond; Vice President, Paul C. King, County of Fairfax; Secretary, John B. Mason, Richmond; Treasurer, James B. Jones, Jr., Martinsville; and Sgt. At Arms, E. R. Carr, Winchester. Board of Directors named included: U.E. Allen, Jr., Portsmouth; Frank B. Bosman, County of Arlington; and Gordon Dameron, Danville.

A committee consisting of inspectors King, Chairman, Carr and Cooper was appointed and instructed to draw up the proposed by-laws for the association. A general discussion followed covering the aims and purposes of the organization. A date was set for the next meeting and the group adjourned its meeting to join the Master Plumbers Association, which was in session at this time.

By-Laws Adopted
VPIA met November 3, 1962 at 1014 East Broad Street, Richmond. The By-Laws Committee presented its report, which was duly adopted. Article II of those by-laws set forth the purpose of the organization:
A. Cooperate in the formulation of Virginia Plumbing Code Standards.
B. Promote uniform understanding and application of all city, town and county plumbing codes.
C. Secure and promote uniform administrative ordinances and inspection methods.
D. Promote closer cooperation between inspectors, inspection departments, health departments, plumbing contractors and the public.
E. Promote and improve the standards of the profession of plumbing inspectors.
F. To institute and maintain a central organization to properly test new materials and methods to be used in this Commonwealth.

School of Instruction
The Association embarked on a program when Paul C. King served as proxy which has proven to be well accepted by those men serving in all phases of the plumbing industry. Known as “School of Instruction and Conference,” the program owes its success to D. Paul Jack, Hampton. Through his efforts, almost single-handedly, Mr. Jack managed to obtain speakers from Texas, across the south, and as far west as Wisconsin. The first annual School of Instruction and Conference was held in Hampton on April 17 and 18, 1964 and was a huge success. Each succeeding year has found the meeting generating more interest in the plumbing profession.

Inspectors have found that the annual school and conference has given us the opportunity to carry out some of the aims of VPIA, namely: “the dissemination of new methods and materials” on a state-wide basis. Our speakers are not only considered experts in their fields but they also present facts which help to generate enthusiasm among those association members interested in promoting the plumbing profession.

Executive Secretary
In 1969 the Board of Directors appointed an Executive Secretary with the responsibilities to direct the school for Qualified Plumbing Inspectors and to publish a newsletter for the purpose of keeping inspectors abreast with the workings of the association and other related items of interest that inspectors in Virginia and the southeastern states should be concerned with. Thus far the newsletter has accomplished its purpose and its present circulation includes eighteen states.

We are proud to be members of VPIA. The knowledge we have gained during the past years has made it possible for us to be cognizant that the plumbing profession is indeed one of the leading ‘trades’ in the building industry.

History Up-Date
In 1986, the Board of Directors instructed the committee on by-laws to update and revise the by-laws to meet and comply with the present day regulations. President John W. Thurston appointed Edward J. Baldwin, Jr., Chairman and D. Paul Jack as part of a two-member committee to study and propose the needed changes.

***

(continued on next page)
On April 1988, at the Twenty-Fifth Annual School of Instruction as the yearly conference had now come to be known, after two years of study and consideration by the committee and board of directors, the amended by-laws were approved and adopted by the voting membership of the Virginia Plumbing Inspectors Association. On July 21, 1990, at the Association’s summer meeting, the voting membership of the Virginia Plumbing Inspectors Association voted unanimously to change the name of the Association to the Virginia Plumbing and Mechanical Inspectors Association. The change was felt necessary because of the number of jurisdictions within the Commonwealth of Virginia having separate mechanical inspection divisions whose inspectors were seeking educational opportunity. It was the feeling of the membership that this Association could provide that opportunity of educational instruction.

In as much as there were some other concerns regarding the by-laws, the Committee on By-Laws, consisting of Edward J. Baldwin, Jr., Chairman, Kenneth R. Snyder, Sr. and D. Paul Jack, Vice Chairmen, William F. Hines, Dennis W. McNaughton, Thomas C. Roberts and Paul M. Adams, Executive Secretary, was directed by President Robert M. Broome to study and submit amendments to the by-laws reflecting the name change and other necessary changes needed to include the mechanical personnel. Through the course of the study, an executive board, four regional directors positions and specific duties of the presidential appointed chairpersons were incorporated. The amended by-laws were approved by the committee on September 6, 1990 by the board of directors on October 6, 1990 and by the general membership in December 1, 1990.

After a period of working under the executive board, which consisted of the elected officers and the four regional directors, the board of directors instructed the Committee on By-Laws to once again review and recommend any needed changes deemed necessary. This resulted in more changes being proposed, the most significant being a change in the fundamental membership and voting rules. The system used since the beginning of the Association was that of jurisdictional membership with a limit of one vote per jurisdiction. The proposed amendments included a change to individual membership with one vote per active member (associate members must remain without a vote in order to protect chapter membership in building officials and code administrations international).

The progress of these amendments, of the proposals and counter proposals, spanned the terms of three presidents and three by-laws committees. The first action of the general membership, which resulted in a change, was made on March 26, 1994 at the conclusion of the Thirty-First Annual School of Instruction. That change eliminated the executive board and dictated meeting schedules. Action was taken on June 25, 1994 which clarified the responsibilities of various officers and both board and presidential appointments. The action which resulted in the current by-laws was taken at the winter meeting on December 3, 1994.

During the course of the by-laws change process, another transition for our Association was under way. In the spirit of promoting closer cooperation between inspectors, inspection departments and plumbing contractors, the membership decided to hold the Twenty-Eighth Annual School of Instruction in Norfolk. The dates were April 11, 12, and 13, 1991 and this coincided with the annual meeting of The Virginia Cross Connection Control Association, The Virginia Association of Plumbing, Heating and Cooling Contractors, and the Richmond Chapter of The American Society of Plumbing Engineers. Although the various associations involved held their own separate educational and business meetings, the trade exposition, where new products and materials could be analyzed and evaluated in a “hands-on” manner, was a central focal point. This cooperation has proven to be a successful format and continues with most of the same organizations being involved.

The Virginia Plumbing and Mechanical Inspectors Association was founded for the purpose of education and communication. As further evidence of this commitment, the annual summer meeting was expanded, beginning in 1994, to include a day of technical training. With the consolidation of BOCA, ICBO and SBCCI into the International Code Council and subsequent adoption of the International Codes in Virginia, the potential for growth has expanded and we have taken up the challenge. We continue to be a leader in the support of education and code development. In 2002 we received the BOCA Chapter of the Year Award for excelling in educational opportunities, membership and participation in BOCA activities. In 2004, we received the Directors Award from the Virginia Department of Housing and Community Development in recognition of our members’ participation in the development and delivery of plumbing and mechanical code educational modules for the Virginia Building Code Academy as well as conducting statewide training in plumbing, mechanical and fuel gas code requirements and service on the Building Code Academy Advisory Committee. In 2005 the Association was honored to accept a Chapter Merit Award from the International Code Council.

Closer ties with our partners in code development and administration both within Virginia and throughout the country have developed. VPMIA, along with the Virginia Building and Code Officials Association and the Virginia Fire Prevention Association came together in October of 2005 for the first ever joint conference. The educational seminar lasted for four days with dual tracks offering a wide variety of training from Legal Aspects of Code Enforcement to Hydrogen Refueling Station installations. We
have strengthened our Association by focusing on our responsibilities and purpose. Our foundation now consists of a vision, a mission and a strategic plan to further our goals. Thus we go onward, not knowing what challenges are to be faced tomorrow, but confident that through our dedication to learning today, we will be prepared.

Making History
The VPMIA, VBCOA, VFPA Joint Conference
On October 21, 2005 the Virginia Plumbing and Mechanical Inspectors Association together with the Virginia Building Officials Association and the Virginia Fire Prevention Association held the first ever Joint Code Conference in Hampton, Virginia at Hampton's brand new Conference Center. The conference was a four day event that offered training in all areas of code enforcement. The Conference gave the participants an opportunity to network with each other, develop code knowledge, and earn valued continuing education credits towards certification maintenance. The training, which included everything from Legal Aspects of Code Enforcement to Kitchen Exhaust Installations, was the centerpiece of the conference utilizing top trainers from around the country.

ICC CEO, James Lee Witt, former FEMA Director and ICC President Henry L. Green were on hand to install Officers and speak to the members. They spoke about the International Code Council Foundation that is helping the Gulf Region Code Officials that were devastated by the hurricanes last summer, get back on their feet. They also spoke regarding ICC's efforts to provide uniform codes for users nationwide. Mr. Witt is spearheading an effort called HEROS. It helps wounded war veterans retrofit their homes for handicapped accessibility as they return from war with devastating handicaps.

A table-top show, with manufacturers of building materials, computer systems and organizations such as ICC and UL, were on hand to discuss their products and services. Several of the table-top vendors also taught classes in their specialized areas. The ICC delivered a whole day class on the legal aspects of code enforcement which generated many questions from the class participants.

The social events were a big hit and well attended. On Saturday evening participants were treated to a buffet dinner and casino night at the Air and Space Museum, in Hampton. Everyone had a great time at the casino night and enjoyed the flight simulators. The next morning you had your choice of a golf outing or a fishing trip on the Chesapeake Bay. Although there weren't any hole in ones and very few fish were caught, everyone had a good time and took advantage of the opportunity to network.

Plans are being made for another joint conference in the future so be prepared to find yourself among the finest code enforcement officials in the state when we do it again.

VPMIA's most recent progress and achievements are detailed in the President’s message, page 6.
VPMIA 2008 School of Instruction

**Wednesday, April 9**
7:00 - 8:30 a.m.  REGISTRATION
8:30 - 10:00 a.m. INTERNATIONAL MECHANICAL CODE 2006 (4 Hrs)
                   AND INTERNATIONAL FUEL GAS CODE (2 Hrs)
10:00 - 10:30 a.m. BREAK
10:30 - 12:00 p.m. CLASS RESUMES
12:00 - 1:00 p.m.  LUNCH
1:00 - 2:30 p.m.   CLASS RESUMES
2:30 - 3:00 p.m.   BREAK
3:00 - 4:30 p.m.   CLASS RESUMES
5:00 - 6:00 p.m.   PRESIDENT'S WELCOME
6:00 - 7:30 p.m.   SOUTHERN BARBECUE

**Thursday, April 10**
8:30 - 10:00 a.m. INTERNATIONAL PLUMBING CODE 2006 FUNDAMENTAL CLASS
10:00 - 10:30 a.m. BREAK
10:30 - 12:00 p.m. CLASS RESUMES
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 RESUMES
2:30 - 3:00 p.m.   BREAK
3:00 - 4:30 p.m.   CLASS RESUMES
6:30 - 10:00 p.m.  BANQUET—AWARDS

**Friday, April 11**
8:00 - 10:00 a.m. GENERAL MEMBERSHIP MEETING - PART 2
10:00 - 10:30 a.m. BREAK
10:30 - 12:00 p.m. WELL & SEPTIC SYSTEMS
12:00 - 1:00 p.m.  LUNCH WITH THE LADIES AUXILIARY

Be sure to visit the TABLETOP PRODUCTS SHOW.
VPMIA offers its gratitude to the following Tabletop Exhibitors:

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VPMIA dedicates this Yearbook to Jim Moore for his dedicated service to the goals and mission of the organization. Jim has served selflessly for over 20 years by holding several different positions. These include: Plumbing Code Change Committee Chair, VPMIA BCAAC Representative for several years, Education Committee Chair, and served on the Virginia Regulatory Effectiveness Advisory Committee. Jim has also extended his services to other organizations: he has served as District Director and Regulatory Chairperson, and past President of the VCCCA. He was past BOCA representative on the CABO Plumbing Code Committee and member of the BOCA Code Interpretations Committee. Jim has always stepped up to the plate when asked to serve. He has been recognized for his participation in transforming the Virginia Building Code Academy’s training from the traditional “reading sessions” to the current highly effective task-based, job-based training sessions they are today. His teaching experience was not only for the Code Academy, but also DHCD Code Update Training, Prince William Code Academy, Virginia Department of Health Backflow Prevention Schools, VPMIA, VCCCA, BOCA Annual Code Development and Educational Conference, PHCC, and PMPV of Virginia. His professionalism and hard work are good examples of why VPMIA is such a successful organization today.
RESOLUTION

WHEREAS: That Guy Tomberlin, Sr. died on Wednesday, February 6, 2008, he was born on July 30, 1927,

WHEREAS: That Guy Tomberlin, Sr., is the Father of Active Member, Guy Tomberlin, Jr., a Past President of the Virginia Plumbing and Mechanical Inspectors Association (VPMIA) and remains an active Member of that Association,

WHEREAS: That Guy Tomberlin, Sr., served his beloved country During World War II in the United States Navy so serving for over thirteen years of active and reserve duty,

WHEREAS: That Guy Tomberlin, Sr., continued his career with Northwest Airlines at National Airport, Washington, D.C. and at the same time was a part time employee of A&P Food Stores for 25 years, and,

WHEREAS: That Guy Tomberlin, Sr., was a man with a caring heart, who enjoyed life and loved people; he lived his life with integrity and bravery. He was a member of the Kena Shrine and the Freemasons, both private fraternal associations for men, now therefore be it

RESOLVED: That the Officers, Board of Directors, and the entire Membership of the Virginia Plumbing and Mechanical Inspectors Association join Guy and his family in the celebration of his Father’s life but also offer their most heartfelt sympathy at the loss of this cherished family member,

RESOLVED: That the Virginia Plumbing and Mechanical Inspectors Association stands in readiness to assist the family of Guy D. Tomberlin, Sr., in any manner desired or requested, and

RESOLVED: That this Resolution be published in the annual Virginia Plumbing and Mechanical Inspectors Association Newsletter as a permanent memorial to the memory of Guy D. Tomberlin, Sr.

Most sincerely submitted,

Attest: JOHN W. MILLS
Vice President

Approved: DENNIS MARTINELLI
President

RESOLUTION

WHEREAS: Gerritt W. Fitzgerald passed away at home in Grass Lake, Michigan on January 17, 2008,

WHEREAS: That Gerritt W. Fitzgerald, is the Father-in-Law of Active Member, Ronald M. Bladen, Chairman,Yearbook and Advertising Committee and current Director, District 1 of the Virginia Plumbing and Mechanical Inspectors Association (VPMIA), and Father of Jane E. Fitzgerald (Bladen), current President, VPMIA Ladies Auxiliary, and

WHEREAS: That Gerritt W. Fitzgerald, served his beloved country as a B-17 pilot in the United States Army Air Corps, retiring as Captain, and

WHEREAS: That Gerritt W. Fitzgerald, served, originally with the U.S. Public Housing Administration and later as Senior Department Director for the U.S. Department of Housing and Urban Development, now therefore be it,

RESOLVED: That the Officers, Board of Directors, and entire Membership of the Virginia Plumbing and Mechanical Inspectors Association join Ron and his family in the celebration of his Father-in-law’s life but also offer their most heartfelt sympathy at the loss of this cherished family member,

RESOLVED: That the Virginia Plumbing and Mechanical Inspectors Association stands in readiness to assist the family of Gerritt W. Fitzgerald, in any manner desired or requested, and

RESOLVED: That this Resolution be published in the annual Virginia Plumbing and Mechanical Inspectors Association Newsletter as a permanent memorial to the memory of Gerritt W. Fitzgerald.

Most sincerely submitted,

Attest: JOHN W. MILLS
Vice President

Approved: DENNIS MARTINELLI
President
Foundation’s 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 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.

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.

CODE OF ETHICS
We the members of Virginia Plumbing and Mechanical Inspectors Association recognize that our work has a direct and vital impact on the quality of life for all people in the Commonwealth of Virginia, and we are dedicated to the highest standards of professionalism, integrity and competence. We therefore pledge to maintain and advance these ethical principles:

- Place the public safety and health above all other interests and recognize that the primary function of government is to service the best interests of all people.
- Consider my profession a distinct opportunity to serve society.
- Demonstrate integrity, honesty and fairness in the discharge of my duties by striving to achieve excellence in all matters of ethical conduct.
- Treat all persons courteously, equally and fairly.
- Conduct myself at all times in such a manner as to create and maintain respect for the Virginia Plumbing and Mechanical Inspectors Association and the industry it represents.
- Refuse to leverage my position to secure advantage of favor for myself, my family or my friends.
- Neither accept nor offer, any gift, favor or service that might tend to influence me in the discharge of my professional duties.
- Refrain from representing private interests in any business or technical affairs of this Association
- Use every opportunity to improve public understanding of the Virginia Plumbing and Mechanical Inspectors Association and its important contribution to the Commonwealth of Virginia.
- Maintain loyalty to the Virginia Plumbing and Mechanical Inspectors Association, and pursue its objectives in ways that are consistent with the public interest.
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 membership shall be open to those persons interested in the design, manufacture, installation or sale of plumbing and/or mechanical systems and who are willing to promote the objectives of the Association. Application for membership shall be in writing, submitted to the Executive Secretary and reviewed by the Board of Directors for approval.

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 membership 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. Nominations for Honorary membership shall be in writing, submitted to the Executive Secretary by any member and reviewed by the Board of Directors for approval.

Section 7. All members shall conduct themselves in accordance with the Association's Code of Ethics.

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 Committee Chair Persons and the Director-at-Large.

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 eight 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.

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. To accurately record all business transacted at all meetings.
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. Shall be bonded for at least fifty thousand dollars. The bond premium shall be paid by the Association.
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 send all membership renewals by December 1 of each year.
F. To maintain the financial records of the Association on a fiscal year from May 1 through April 30, unless otherwise approved by the Board.
G. To be a standing member of the Finance Committee.
H. To perform such other duties as applicable to the office as prescribed by the parliamentary authority adopted by the Association.

Section 5. The District Director
A. To attend at least two Board 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.

Art. V, continued
Section 7. The Director of Finance

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

ARTICLE VI — Committees

Section 1. The number of committee members, mentioned below, includes the chairperson. Committee chairpersons are appointed by the President, see previously in the text, Article V.

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

Section 2. 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.

Section 3. An Auditing 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 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.

Section 4. An Awards 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 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.

Section 5. A By-laws 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 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.

Section 6. A Certification, Education, and Training 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 organize educational classes for the School of Instruction.

Section 7. A Finance Committee, composed 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.

Section 8. 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.

Section 9. A Mechanical & 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 Mechanical Code and the Fuel Gas Code.

Section 10. A Membership and Website 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 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.

Section 11. A Nominating Committee shall be composed 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.

Section 12. A Plumbing 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 Plumbing Code.

Section 13. A School of Instruction Committee, composed of three members, the Executive Secretary, the chairpersons of the Time and Place Committee and the Certification, Education and Training Committee, 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.

Section 14. A Special Committee, composed of five members, shall be appointed for a specific purpose, when necessary. It shall be the duty of this committee to carry out a specified task and present a report to the Board.

Section 15. A Time and Place Committee, composed of five members, shall be appointed within thirty days after the third General Membership meeting. It shall be the duty of the Board 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 16. Committees shall be under the authority and direction of the Board, unless specifically provided for herein.

Section 17. 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
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 the second 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 ten Board members. Action taken by less than ten 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.
Ladies,
You are invited to join us—our activities are OPEN TO ALL SPOUSES ATTENDING THIS CONFERENCE

Why not become an Auxiliary member?
Annual Dues $10 — payable at registration

2008 Program Schedule

Wednesday, April 9
7:00 – 8:30 a.m.  REGISTRATION (Ladies Auxiliary)  Lobby
11:00 – 2:00 p.m.  Kluge Art Museum tour and LUNCH out (informal)  Meet in Lobby
2:00 – 4:30 p.m.  Craft or Bingo  Hospitality Room
5:00 – 6:00 p.m.  PRESIDENT’S WELCOME  Banquet Room
6:00 – 7:30 p.m.  Bar B Q Dinner  Banquet Room

Thursday, April 10
7:30 – 9:00 a.m.  REGISTRATION  Lobby
9:00 – 11:30 a.m.  CRAFT  Hospitality Room
11:30 – 1:30 p.m.  LUNCHEON and BUSINESS MEETING  Meet in Lobby
1:30 – 4:30 p.m.  SHOPPING  Local Restaurant
6:00 – 10:00 p.m.  BANQUET, AWARDS, INSTALLATION OF OFFICERS  Banquet Room

Friday, April 11
7:30 – 8:30 a.m.  REGISTRATION  Lobby
9:00 – 11:30 a.m.  BINGO  Hospitality Room
12:00 – 1:00 p.m.  LUNCH VPMIA & Ladies  Banquet Room

The VPMIA Ladies Auxiliary is an ancillary group to VPMIA. Its purpose is to act as an assistant and a support to the Association’s endeavors to provide code development leadership and continuous training that results in uniform application of the codes.

This group is also about having fun along the way.

Join us in Charlottesville. We will conduct our annual luncheon/business meeting and get to know each other better during some scheduled events: exploring items of local interest, some friendly games of Bingo and a craft activity. These informal activities are scheduled to take place while the VPMIA meetings and School of Instruction are in session—leaving time to socialize with the full VPMIA group during lunches and dinners.
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VPMIA Awards Roster

OUTSTANDING SERVICE

<table>
<thead>
<tr>
<th>Gordon I. Dameron Active Award</th>
<th>David L. Carr Associate Award</th>
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</thead>
<tbody>
<tr>
<td>Joseph Hall</td>
<td></td>
</tr>
<tr>
<td>Jack Rhoden</td>
<td>1995-1996 James B. Hylarides</td>
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</tbody>
</table>

LIFETIME MEMBERSHIP

<table>
<thead>
<tr>
<th>D. Paul Jack Active Award</th>
<th>John A. Otto Associate Award</th>
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</table>

VPMIA Past Presidents

CHARLES E. MANNION 1963*
PAUL C. KING 1964*
GORDON I. DAMERON 1965*
D. PAUL JACK 1966*
FRANK B. BOSMA 1967
U. EARL ALLEN 1968*
HARRY CONTE 1969
JAMES B. JONES 1970*
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. RODES 1980*
RUDOLPH SCHROECK 1981
JESSE R. HURT 1982
CHARLES DEDIAN 1983
KENNETH R. SNYDER, SR. 1984
LAWRENCE J. NUCKOLS 1985
JOHN W. THURSTON 1986*
WILLIAM F. HINES 1987
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 DEBASHO 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

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

Thank You
to the 2008 VPMIA YEARBOOK Contributors

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Fitzgerald Art & Design LLC

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Past President, VPMIA

Don Bladen
VMW Printing

Geary Showman
Executive Secretary, VPMIA

Our Advertisers
Individually listed on page 5

with special thanks to
Jay Peters and Lee Clifton, International Code Council, and
Wes Davis, Air Conditioning Contractors of America
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, IAEI, 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.
Summer School of Instruction

Thursday and Friday
August 7-8, 2008
Graves Mountain Lodge

Training, Meeting and Picnic

YOU can participate in VPMIA throughout the year.

Attend Board of Directors Meetings (4 meetings) and General Membership meetings (3 meetings) throughout the year, check for the most current times and location information on the VPMIA web site at www.vpmia.org

Be part of the 2008 JOINT CONFERENCE

VPMIA and VBOCA have finalized plans for a Joint Conference to be held October 26–29, 2008 in Wytheville, VA.

Additional details will be available soon. Check either association website for updates and other information.
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The Environmental Protection Agency (EPA) estimates that there are over 40,000 sanitary sewer overflows each year — the majority caused by grease buildup. Maintaining these sewers is costly - more than $25 billion per year — a situation exacerbated by attendant cleanup fines levied by the EPA and/or the Authority Having Jurisdiction.

The 2006 IPC specifies that grease interceptors and automatic grease removal devices shall conform to PDI G101, ASME A112.14.3 or ASME A112.14.4 and be installed in accordance with the manufacturers' instructions. ICC Evaluation Service, Inc., which operates under the umbrella of the International Code Council, certifies these devices to the aforementioned standards.

The purpose of grease interceptors is to reduce the amounts of fat, oil, and grease (FOG) in waste water to acceptable levels in conformance with the IPC. Eating establishments, hospitals, hotels, convention centers, sports arenas, prisons, etc., generate huge amounts of FOG each year which they allow to enter the waste water system, the grease readily adhering to the inner surface of piping materials. This becomes a primary cause for clogs, backups, overflows, and equipment failure as the accrued layers harden into crust as tough as baked clay, leading to a need for the replacement of the affected pipes.

The recent changes in the IPC on grease interceptor installation requirements are a result of the need to address these issues.

The definition Flow Control (Vented) has been added to define the device that is used on hydromechanical grease interceptors, formerly called grease traps. This new definition now clarifies the flow control device referenced and explained in Section 1003.3.4.2. This section of the IPC specifies that grease interceptors shall be equipped with devices that control the rate of water flow so it doesn’t exceed the rated flow of the interceptor. This device must be vented and terminate at least 6 inches above the flood rim level or be installed in accordance with the manufacturer's instructions.
General Drainage Requirements for a Food Establishment

Also, a pair of additional flow rates and capacities has been added to Table 1003.3.4.1 in the IPC: “The modification to the table is in accordance with ASME A112.14.3 for standard flow rates and grease retention capacity ratings for grease interceptors.”

Grease retention capacity must be based on the flow-through rating of the grease interceptor and the discharge rate of the drainage pipe served. The waste flow capacity of a grease interceptor determines the quantity of grease that can be separated from the waste, which in turn, dictates the required capacity of the grease interceptor to hold the collected grease. The maintenance frequency for a grease interceptor is directly proportional to the retention capacity of the device.

Grease control devices must be cleaned or maintained regularly in order to function properly. Most agencies consider the requirement to install grease control devices to be the most important part of their fat, oil, and grease (FOG) control program. The general thinking is that even if kitchen Best Management Practices (BMP) is not fully implemented, the grease control device(s) will capture the grease and protect the sewer. However, some agencies are requiring mandatory monthly cleaning of conventional grease interceptors or daily cleaning or maintenance of grease removal devices.

In closing, a combined effort from restaurant employees, code officials, sanitation districts, and industry working together will be what makes the difference. The City of Virginia Beach has undertaken a public outreach program in order to help eliminate fat, oil, and grease (FOG) from their sewers. A proposed ordinance is currently being reviewed by the city council. Virginia is also currently the home of several biodiesel refineries. Three produce biodiesel from soy and a few others produce biodiesel from waste grease and oils.

Lee Clifton is the Director of Plumbing Programs for the International Code Council, Plumbing, Mechanical & Fuel Gas (PMG). Prior to joining the Code Council, Lee was with the City of Los Angeles for 21 years. As the Principal Inspector with the City of Los Angeles this included planning, organizing and coordinating the training programs for approximately 200 inspectors and clerical staff that work for the Housing Department. Lee currently serves on the Board of Directors for the Southern California Health and Housing Council. And participating on the Strategic Planning Committee to end lead poisoning in Los Angeles County. In prior years Lee also served as a Senior Plumbing Training Officer for the Department of Building and Safety and has taught model plumbing code for the Plumbing, Heating, Cooling, Contractor Association of the Greater Los Angeles Area and the North Orange County Regional Occupation Program over the past 20 years.
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Building officials routinely require heating, ventilation and air conditioning (HVAC) system design information as part of the permitting process for commercial buildings, but some hesitate to request the same information for residential HVAC systems. As a reminder, the 2006 International Residential Code (IRC) requires the following.

- Section 1401.3: “Heating and cooling equipment shall be sized based on building loads calculated in accordance with ACCA [Air Conditioning Contractors of America] Manual J or other approved heating and cooling calculation methodologies.”
- Section 1601.1: “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.

From my experience, building officials do not require HVAC design information because they think it would take too long to properly review the load calculation and duct design, they may be concerned that they do not know what to look for and would not know how to address a contractor’s challenges, or they may believe that air conditioning does not present a health or safety issue. The fact is that HVAC design or installation problems can affect a home’s structural integrity and affect occupants’ safety and health.

Comfort cooling has become standard equipment for most homes built today, and the building codes require that these systems be properly designed. Code officials are charged with enforcing this requirement and should therefore review the load calculation and duct design.

**Load Calculation**

If identical homes are built in Boston and Phoenix, the one in Boston will use more heating and the one in Phoenix will use more cooling. This may seem like an obvious consideration, but some HVAC system designers will use Phoenix's summer temperature to determine the cooling needs for the Boston home and Boston's winter temperature for the Phoenix home. They may seek to justify this by recalling a scorching Massachusetts summer and a long Arizona winter. However, rather than relying on isolated historic or anecdotal examples, building officials should make use of the high and low design temperature data that has been developed by scientific and engineering groups to 99 percent accuracy.\(^1\)

For example, ACCA Manual J, Table 1A, gives the summer design temperature for Ft. Meyers, Florida, as 93°F. There will be some scorching July afternoons when the temperature rises even higher, but from year to year this will only occur 1 percent of the time. Meanwhile, the winter design temperature for Ames, Iowa, is -6°F. There will be some bone-chilling January nights when the mercury drops even further, but 99 percent of the year the weather will be warmer. Thanks to such highly accurate design temperature data it is easy to examine a load calculation and determine if the designer used an “extreme” temperature. To return to our example, a building official in Ft. Meyers should look for a summer design temperature of 93°F and a winter design temperature of 47°F (Figure 1), and his or her counterpart in Ames should look for a winter design temperature of 6°F and a summer design temperature of 90°F (Figure 2). Anything outside of these ranges does not comply with the recognized procedure of ACCA Manual J prescribed by the 2006 IRC.

Indoor heating and cooling design temperatures that will satisfy most occupants are also available from ACCA\(^2\): 70°F for winter heating and 75°F for summer cooling.\(^3\) Of course, the subjective indoor conditions provided for one homeowner may be too high or too low for another, but HVAC designers should carefully document the justification for choosing anything but these common design temperatures.

Basically, ACCA Manual J considers four factors: the temperature difference (indoor and outdoor), the ability of heat to pass through the various building components (walls, windows, doors, etc.), the area of the space conditioned and moisture. The difference between the inside and outside temperatures is one of the basic
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considerations for proper load calculation. If the HVAC system designer began the process with the wrong design conditions, the resulting load calculation can be completely inaccurate. Other factors include design humidity, altitude and latitude.

**Equipment Selection**

The next step in HVAC design review is to look at equipment selection. Load calculations produce the values, in British thermal units per hour (Btu/h), for selecting the equipment. The best place to find these values is in the original equipment manufacturer (OEM) performance data. Most OEMs provide performance data that rate their equipment at different operating conditions. For example, a 2.5-ton air conditioner may be rated at a slightly higher capacity in Seattle, Washington, because of the mild climate but at a lower capacity in Phoenix, Arizona, because the unit cannot produce as much cool air when it is 108°F outside (the ACCA 1-percent design temperature). Figure 3 uses a fictitious air conditioner model to illustrate a performance swing of 15 percent or more based on the operating conditions.

**Duct Design**

The evaluation of duct design is very subjective because of the wide varieties of layouts, fittings, etc. However, one aspect is very easy to evaluate: return air duct paths. ACCA Manual D, Section 1-4, provides that “there must be a low-resistance return air path between every room and the air handler (or furnace).” IRC Section M1403.1 refers to the “minimum unobstructed total area of the outside and return air ducts” for heat pumps. In other words, larger rooms that usually have their doors closed, such as bedrooms and home offices, pose a need for air to get back to the air handler or furnace.

If a low-resistance return air path is not present, the air handler or furnace creates negative pressure inside the home. This negative pressure draws air from fireplaces, the vent pipes for some furnaces and gas clothes dryers, and other fuel-burning appliances that use natural draft venting to carry away carbon monoxide (CO). As a result, the CO is not properly exhausted—posing a potentially serious health and safety risk. Reviewing the duct layout for large return grills in common areas and small return grills in rooms with normally closed doors.

---

**Figure 3. Example air conditioner performance data.**
can protect occupants from a backdrafting appliance and CO pollution.

A ducted return is one solution; another is crossover ducts or transfer grills. Undercuts on doors are also acceptable but could require the removal of one or more inches, which may be aesthetically undesirable. The duct system layout illustrated in Figure 4 shows one large return for the open common living areas and a ducted return for each bedroom.

Reviewing a residential HVAC system takes some time, but asking for the load calculation and duct design—and learning how to evaluate them—is relatively easy and contributes to protecting the health and safety of occupants.

Notes
1. As illustrated in Figures 1 and 2, the winter design temperature is expressed as 99 percent and the summer design temperature is expressed as 1 percent.
2. These temperatures are the “sweet spots” identified by the American Society of Heating, Refrigerating and Air-Conditioning Engineers based on extensive research.
3. The designer has the option of selecting dry 45-percent relative humidity (Rh), normal 50-percent Rh or damp 55-percent Rh.

WES DAVIS is Manager of Technical Services for the Air Conditioning Contractors of America (ACCA). In this capacity, one of his principle responsibilities is to assist the contracting community in developing tools and capabilities for energy-efficient, high-quality indoor environments. He also represents ACCA in interactions with other organizations.

To learn more about ACCA’s activities, products and services visit its website at www.acca.org.
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Charlie Gerber

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James Anjam

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James Anjam

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District 7
John Michele Cliff

District 8
David Harris

At the 2007 Banquet, Dave shapiro administered the oaths of office for incoming VPMIA President, Vice President, Treasurer and Secretary.
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Wells 7 West, Inc
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Murphy, NC 28906
828-837-2437
828-837-3152 FAX

Wiggins, John R. (P.E.)
Underwriters Laboratory
12 Laboratory Dr
RTP, NC 27709
919-549-1502
919-547-6454 FAX
johnr.wiggins@us.ul.com

Wood, Tommy
CEO
Woodbridge Plumbing, Inc
2705 Code Way
Woodbridge, VA 22192
703-494-9666
703-494-0739 FAX
twood@woodbridgeplumbing.com
I the undersigned, hereby make application for membership, and if accepted, I agree to abide by the Constitution and By-laws of the Association, perform all requested duties and support the Association to the best of my abilities. I understand the membership fee shall cover the period from January 1st to December 31st, any payment received during the year shall cover only the remainder of the year.

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Title __________________________________________________________
Jurisdiction or Firm _____________________________________________
Address _______________________________________________________  
City __________ State _______ Zip ___________
Telephone No. ______________ Fax ______________
E-Mail Address __________________________________________________
Signature __________________________ Date ______________

☐ ACTIVE MEMBERSHIP FEE: $30.00
Active members must be employed by a government agency.

☐ Please check this block if you are a designated ICC voter, representing your municipality or jurisdiction.

☐ ASSOCIATE MEMBERSHIP FEE: $35.00
Associate members shall consist of persons interested in assisting the Association in promoting the safety, health and welfare of the public. Associate members must be approved, for membership in the Association, by the Board of Directors.

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Virginia Plumbing and Mechanical Inspectors Association

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