

Your Association
working for safe
drinking water
in Tennessee

Check Out Our Website!
www.tnbackflow.com

BACKFLOW LINKS

For more backflow information check out these web sites:

** Information about backflow prevention:

www.abpa.org/backflow.htm

** Information about water quality:

www.epa.gov/305b/sum1.html

** Safe Drinking Water Act guidance documents:

<http://tis-nt.ch.doe.gov/oepa/guidance/sdwa.htm>

** Backflow incidents and articles:

www.abpa.org/incidents.htm

Tennessee Backflow News

TBPA Mission Statement

The mission of the Tennessee Backflow Prevention Association is to protect drinking water quality in the State of Tennessee by providing for education, statewide training, standardized certification, technical assistance and resources to our membership and the general public.

President's Message

By Larry Stinnett

To say our Annual Conference in Nashville was a success would be an understatement. I want to take this opportunity to thank the Conference committee and everyone who helped make it a success. If I started naming people I know I would leave someone out. So, "Thank you all for a job well done!"

The hotel and meeting rooms were second to none, what an excellent host. The agenda of speakers was great and as usual, the vendors were in place and eager to assist. I hope everyone will say a sincere word of thanks to your vendors. Without these guys we would be in trouble.

As you can tell, I get excited about the TBPA Conference. The 2004 conference is scheduled to be in Gatlinburg in the Fall. What a great place to be when the leaves are turning and the weather is changing. I hope to see everyone there.

I look forward to the coming year with anticipation. I believe the best is yet to come for the Tennessee Backflow Association. I encourage everyone to please be faithful in supporting TBPA. It is your association. Our new officers will be installed at the Board Meeting on January 7, 2004. Eddie O'Neill will take over as our President. The Vice-President, East and Middle TN Directors will be elected before the first of the year. Please exercise your right to vote and support the candidate of your choice.

Since this will be my last President's Message, I would like to say thank you for the support you have shown me during the last couple of years. The Tennessee Backflow Association has just scratched the surface of what needs to be accomplished to further the goals of backflow prevention and cross connection control in our state. I leave the gavel in very capable hands. Thank you all.

TBPA 2003 Annual Conference

As Larry stated in the President's Message, the TBPA 2003 Conference was a great success. We had approximately 50 members in attendance this year. If you weren't able to attend, you were missed. In this newsletter you will find a brief summary of each speaker's presentation. Hopefully, this will give you an idea of the valuable information shared and the importance of attending future conferences.

Not only is the association serious about backflow prevention, but we like to have a good time as well. The Awards Banquet on Thursday night was a time to relax, enjoy a meal with new and old friends, and be entertained. Gary Jenkins of Nashville provided the entertainment. He was not only a very talented singer and musician but he kept the group laughing from start to finish.

This year's awards were presented to Lloyd Rainey for his contributions to the field of backflow, to Angel Goike for her contributions to the Tennessee Chapter of the ABPA, and to Jackson Energy Authority as a water purveyor for their support and commitment to the TBPA. Lloyd was unable to attend the dinner but was reached by phone during the presentation to let him know he received an award. The

Association is proud to have such committed individuals willing to give their time and energy to the cause of backflow prevention.

At the close of the Conference, Larry asked those present to not just do the minimum on their backflow program. He encouraged everyone to know their responsibilities and to always be actively updating and improving.

Thank you Larry for your years of service to not just TBPA but to the entire field of backflow prevention. We truly appreciate all your hard work and dedication.

Upcoming Events

2004

TBPA Board Meetings

January 7th - April 7th & July 7th

10:00 AM

225 Ben Allen Rd., Nashville, TN

ABPA

20th Annual International
Conference & Tradeshow

May 9th - 12th
Long Beach, CA

Winter 2003



NEXT MEETING

10:00 AM

Wednesday

January 7,

2004

Nashville, TN

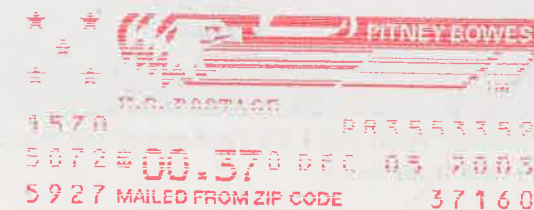
225 Ben Allen Rd.

Check Out
Our Website!
www.tnbackflow.com

INSIDE

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Tennessee Backflow Prevention Association
Liba Ford
c/o Jackson Energy Authority
P.O. Box 68
Jackson, TN 38302-0068

TBPA



Tennessee Backflow Prevention Association



Name	Affiliation	Phone # e-mail	Fax #
Larry Stinnett, President	Backflow Specialty Company, Inc. Powell, TN	865-925-0058 backfosp@aol.com	865-925-0058
Eddie O'Neill Vice President	Jackson Energy Authority Jackson, TN	731-422-7214 eoneill@jaxenergy.com	731-422-7584
David Kellogg, Immediate Past President	City of Gallatin	615-451-5922 Dkellogg@gallatinutilities.com	615-452-0568
Liba Ford, Treasurer/Membership & Newsletter	JEA Jackson, TN	731-422-7517 lford@jaxenergy.com	731-422-7530
Angel Goike Secretary	City of Clarksville	931-553-2489 agoike@clarksville.com	931-553-2490
Lloyd Rainey, Director, West	Mid America Marketing, Inc.	800-365-6154 lloyd@midamericamktg.com	901-795-0394
Wayne Cook, Director, Middle	Shelbyville Power, Water & Sewer	931-684-5713 waynecook@blomand.net	931-685-0113
Kent Bowman, Director, East	First Utility District of Knox County	865-966-9741 fudkbow@tds.net	865-675-4955
Greg Baker, Director At-Large	Tennessee Association of Utility Districts Murfreesboro, TN	615-896-9022 Gregbaker@taud.org	615-896-8608
Brent Ogles Director-At-Large	J. R. Fleming Training Center Murfreesboro, TN	615-898-8090 Bogles@mail.state.tn.us	615-898-8064
Mike Trigg, Director-At-Large	Plumbers & Pipefitters Local 572	615-227-5542 local572jtc@mindspring.com	615-227-5892
Ronnie West ABPA Region 3 Director		910-947-1115 rwestinfotec@earthlink.net	910-947-2496
Dale Strong ABPA President		843-727-6981 strongkd@charlestoncpw.com	843-727-2532

The Tennessee Backflow News is published quarterly by the Tennessee Backflow Prevention Association, whose members have a common interest in protecting the drinking water from contamination through cross connections. Your ideas, experience and expertise are invited and needed by the TBPA to insure a balanced approach to backflow prevention in the State of Tennessee. Your participation and support will continue to help shape the future of this industry in Tennessee.

Opinions expressed in articles, letters or advertisements in this publication are not necessarily those endorsed or supported by the TBPA. The content of this newsletter is not to be considered as legal or professional advice. **Dues are \$50 annually**, and are payable to the TBPA Treasurer. Annual dues include \$20 for Tennessee and \$30 for National ABPA dues. National membership is required for Tennessee membership.

The TBPA Treasurer address is:

Tennessee Backflow Prevention Association
Liba Ford, TBPA Treasurer
c/o JEA, P.O. Box 68, Jackson, TN 38302

All other info requests, inquiries, and newsletter advertisements contact:

Tennessee Backflow Prevention Association
Attn: Angel Goike, Secretary
c/o City of Clarksville
1030 Pumping Station Rd.
Clarksville, TN 37043

TBPA/ABPA MEMBERSHIP FORM

Tennessee Backflow Prevention Association
American Backflow Prevention Association

NAME: _____
COMPANY: _____
ADDRESS: _____
CITY/ST/ZIP: _____
PHONE: _____
FAX: _____
E-MAIL: _____

CHECK ONE: RENEWAL: _____ MEMBER # _____
NEW: _____



ABPA DUES: \$30.00
TBPA DUES: 20.00
ANNUAL DUES TOTAL: \$50.00

Please remit total to:
Tennessee Backflow Prevention Association
Liba Ford
c/o JEA
P.O. Box 68
Jackson, TN 38302

Includes bi-monthly ABPA News Magazine and quarterly Tennessee Backflow News
Pre-payment of dues required to process application.
Membership is non-transferable. National ABPA membership required for state TBPA membership



Larry presents Lloyd Rainey with his award by phone.



Eddie O'Neill and Liba Ford accept the Water Purveyor Award from Larry.



Angel Goike accepts her award from Eddie and Larry.

The BPMA/ABPA Harrington/Arthur Memorial Scholarship

The American Backflow Prevention Association (ABPA) and the Backflow Prevention Manufacturers Association (BPMA) have recently entered into an agreement to pool their respective resources as it relates to the BPMA/ABPA Harrington/Arthur Memorial Scholarship.

While the initial capital and funding for the Scholarship was funded by the BPMA, all ABPA Members can now participate in the funding of this scholarship. Your participation in this scholarship is both appreciated and welcomed by both ABPA and BPMA.

This BPMA/ABPA Harrington/Arthur Memorial Scholarship has been established in the memory of Paul Harrington of Hot Box and Tony Arthur of Watts to honor these individuals and promotion of our industry they both held so dear.

Donations should be made out to the "ABPA Scholarship Fund" and sent to the ABPA News magazine. Levels of participation are: Platinum - \$100 Donation, Gold - \$75 Donation, Silver - \$50 Donation, and Bronze - \$25 Donation.

Scholarship Information

Competition Description

The purpose of this competition is to award scholarships for advanced education to students that have been educated in cross connection control through self-learning or through school programs.

The Scholarship fund competition will be nationwide with the BPMA managing the competition and a joint panel of BPMA and ABPA members judging the competition.

Easy Question

What is Backflow Prevention - And how does it help ensure safe drinking water?

Competition Rules and Parameters

- Student entering must be of high school age (over 13 and under 20 as of January 31, 2004).
- Entries must be received by January 31, 2004.
- The final winner and runner up will be notified by March 1, 2004.
- The BPMA/ABPA will award the first place winner a \$1000.00 Scholarship.
- A member of the BPMA/ABPA will award the scholarship at the appropriate awards ceremony at the student's school.
- The winning essay will be published on the BPMA and ABPA websites, the ABPA News magazine and several industry publications.
- This prize will be presented as a check in the winner's name to a recognized state-sponsored, tax-deferred '529 Investment National College Savings Program' or to the winner's established '529 Investment Educational IRA'.
- All entries must be submitted with an official entry application and once submitted becomes the property of the BPMA/ABPA and will not be returned.
- The essay must be 3 to 5 pages in length, using a 12 point font, typed and double-spaced. The essay must address the essay question as listed above.
- Factors taken into consideration by the judges include, but are not limited to creativity, feasibility of proposal, vision, relevance to theme, spelling, grammar, and impact of proposal.
- The competition is open to all persons of high school age (over 13 and under 20 as January 31, 2004) who are legal residents of the United States and Canada. The essayist is NOT required to be college bound! The scholarship can be used for any type of advanced education.

Submission

Essays should be submitted to:

BPMA
924 Lane Avenue North
Jacksonville, FL 32254
or

Attached to an E-mail to: scholarship@bpma.cc

*TBPA has made a \$100 donation toward the Memorial Scholarship

How Backflow Assemblies Work

By Jim Purzycki

Jim Purzycki of Bavco, gave a presentation about how backflow assemblies work. Jim began by covering the basic concepts of water. He then applied those concepts to the operation of backflow assemblies and explained the relationship of water pressure, temperature and velocity to the assemblies.

He encouraged everyone to first have the correct device for the degree of hazard. Second, to make sure it is an approved device. Next, identify the temperature and pressure rating for the assembly. Then, verify the correct size and inspect the installation of the assembly.

Jim discussed the following topics concerning backflow test kits: choosing the correct kit, maintenance on the kit, calibration and the correct use of the kit.

He felt it is necessary for testers to be able to explain how backflow assemblies work to customers. He then educated us on the operation of various assemblies.

UNDERSTANDING FIRE PREVENTION SYSTEMS

By Chris Brown

Chris Brown of Poole Consulting Services spoke for Jack Poole during the Friday morning session. His company handles the design and testing of fire systems.

Chris addressed the intent of an automatic sprinkler system and the system components. Then he covered the four basic types of systems: Wet pipe (antifreeze), Dry pipe, Pre-action, and Deluge (foam systems).

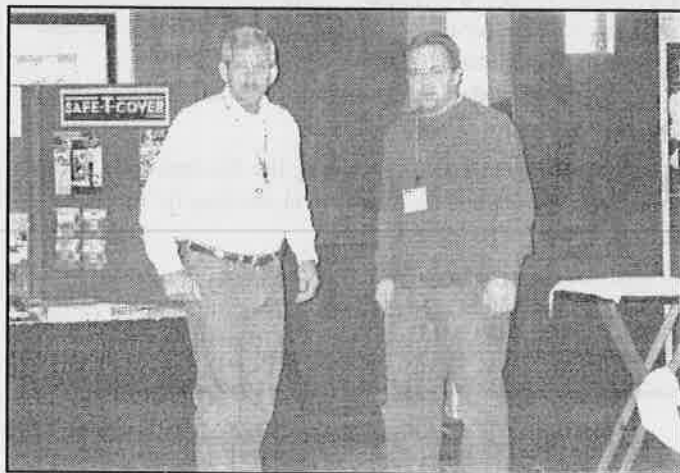
The types of hazards were discussed beginning with Low (pollution), which is considered a non-health hazard and would use a double check assembly to High (contamination), which would use a reduced pressure assembly.

To determine the water supply to a fire system a hydrant flow test must be conducted. Static and residual pressures must be determined. Chris also covered hydraulic calculations and informed the group about the numbers that go into those calculations. He spoke about: design criteria/occupancy, pipefittings, elevation and key factors affecting hydraulics to name a few.

System testing can be achieved by the following: pipe flushing, hydrostatic testing and inspector test connections. He reminded us that the inspection of systems should be conducted annually and should be based on the NFPA requirements.



Daniel Chessman and Nathan Reynolds from Fort Campbell, KY visit the Vendors.



Don Meredith and Mark Graves from Hohenwald.



Larry with Michael Robertson from Morristown.

THANK YOU

TBPA wishes to thank all the Vendors who participated in our Annual Conference. We look forward to having you at our 2004 Conference in Gatlinburg.

Backflow Control
Backflow Specialty Co., Inc.
BAVCO
G & C Enclosures, Inc.
IMSCO, Inc.

Mid-America Marketing
Mid-Tenn Backflow Prevention
Mid-West Instrument/Control Equipment Co.
Plumbers & Pipe Fitters - JATC
Safe-T-Cover

Southern Marketing (Conbraco Ind.)
Test Gauge & Backflow Supply, Inc.
Toddco Sales, Inc.
Wilkins

Tennessee Training Calendar

Tennessee Department of Environment and Conservation - Cross Connection Control Training Classes

Fleming Training Center
2022 Blanton Drive
Murfreesboro, TN 37129
615-898-8090

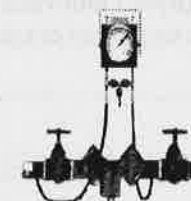
<http://www.state.tn.us/environment/dca/fleming.htm>

The classes offered by the Fleming Training Center are free of charge to any person who wishes to attend. Written registration is required, however, a minimum of thirty days in advance of the class. Confirmation letters for all classes/seminars will be sent out to registrants approximately three weeks prior to class and will contain pertinent details regarding exact location, class content, and materials. For information on class content for Cross Connection Control Workshops call Mr. Brent Ogles at 615-898-8090.

Cross Connection Control Workshop (BASIC) (4 days)
(Textbook: None) Classes are at the Fleming Training Center in Murfreesboro unless otherwise indicated. *See Schedule Below.*

Cross Connection Control Workshop (RENEWAL) (2 days)
(Textbook: None) Classes are at the Fleming Training Center in Murfreesboro unless otherwise indicated. *See Schedule Below.*

Cross Connection Control Classes	
No.	Course Name
2103	Cross Connection Control Workshop (BASIC) (3 1/2 or 4 days - dependent upon location) (Textbook: None; approved procedure sent with confirmation letter) • January 20-23 - (4 days) • March 22-25 - (4 days) • April 13-16 - Kingsport (3 1/2 days) • April 27-30 - Knoxville (3 1/2 days) • June 7-10 - (4 days) • June 29 - July 2, - Jackson (3 1/2 days) • July 27-30 - (3 1/2 days) • August 10-11 - Kingsport (3 1/2 days)
3102	Cross Connection Control Workshop (RENEWAL) (1 1/2 or 2 days - dependent upon location) (Textbook: None; approved procedure sent with confirmation letter) • February 9-10 - (2 days) • April 12-13 - Kingsport (1 1/2 days) • April 26-27 - Knoxville (1 1/2 days) • June 28-29 - Jackson (1 1/2 days) • July 26-27 - (1 1/2 days) • August 9-10 - Kingsport (1 1/2 days)
	CCC Seminar • March 4 - Backflow Prevention Assembly Repair (1 day) • May 13 - Administration & Survey Class (1 day) • August 3 - Backflow Prevention Assembly Repair (1 day)



If you would like to see specific information in the newsletter or would like to submit an article, contact Liba Ford at lford@jaxenergy.com. Your comments are appreciated.

- **The Tennessee Association of Utility Districts (TAUD):** Cross Connection Renewal Classes for Municipalities and Basic Cross Connection Training Classes for contractors are available. Other classes may be available. Contact Greg Baker or Melanie Hammon, 840 Commercial Court, Murfreesboro, TN 37129, (615) 893-9022
- **Memphis Light, Gas & Water (MLGW):** Classes are held in the greater Memphis Tennessee area on an annual basis. Contact Barbara Taylor or Paulette Swanson, P.O. Box 430, Memphis, TN 38101-0430, (901) 528-4449
- **Plumbers and Pipefitters, Local 572,** Nashville, Tennessee: Backflow Classes for Apprentices and Journeyman, contact Mike Trigg, 225 Ben Allen Rd., Nashville, TN 37207, (615) 227-5542
- **Plumbers & Steamfitters, Local #43 JACT:** Contact Woody Evans, 3013 Riverside Drive, Chattanooga, TN 37406, (423) 365-9972
- *To list or update your training classes contact Eddie O'Neill at eoconnell@jaxenergy.com*

WILKINS

BACKFLOW PREVENTERS - REGULATORS

REPRESENTED BY

FOX SALES

Phone 615-361-7711

Charlie Fox ~ Steve Smith

BACKFLOW CONTROL

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Factory Authorized Service Center

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Lloyd Rainey

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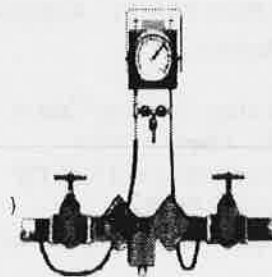
P.O. Box 750960
Memphis, TN 38175
5466 Old Highway 78
Memphis, TN 38118



Office: (800) 365-6154
Tel: (901) 795-0045
Fax: (901) 795-0394

Backflow Prevention Assembly Repair Class & Administration and Survey Classes

Who: Tennessee Backflow Prevention Association and Fleming Training Center
What: 2004 Repair Classes & Administration and Survey Classes
When: March 4, 2004 8:30-4:00 Repair Class - Conbraco Products
 May 13, 2004 8:30-4:00 Administration and Survey Class
 August 3, 2004 8:30-4:00 Repair Class - Product TBA
 November 9, 2004 8:30-4:00 Administration and Survey Class
Where: Fleming Training Center, 2022 Blanton Drive, Murfreesboro, TN 37129
Contact: Brent Ogles at (615) 898-8090 or Wayne Cook at (931) 684-5998




Some of the information presented:

- Double Check Valve Assemblies, Reduced Pressure Principle Assemblies, Vacuum Breakers
- Repair of varying device sizes from 3/4" to 4".
- Drawings and handouts available.
- Explanation of assemblies and parts used in repair
- Complete repair of devices and tools needed
- When to repair and when and what to replace
- Starting a Cross Connection Control Program
- Forms and documents for program administration
- Survey instructions and advice
- CD with all covered information
- Continuing Education Credits will be given

Don't miss the opportunity to expand your knowledge on these valuable topics regarding CCC Programs and Assembly Repair.

No cost but class size is limited and registration is required.

Please use registration form below, indicating the date (or dates) you wish to attend.

 <p>DEPARTMENT OF ENVIRONMENT AND CONSERVATION Training Class / Seminar Registration</p> <p>REGISTRATION REQUIRED Only <u>One</u> Person and <u>One</u> Class/Seminar Per Registration Form!</p>			
Register early! Written registration is <u>required</u> for <u>all</u> classes and seminars. Registrants will be mailed specific information as to location, times, etc., approximately three (3) weeks prior to class. Complete the form below and mail or fax at least thirty (30) days prior to class to: Fleming Training Center - 2022 Blanton Drive - Murfreesboro, TN 37129 Fax: (615) 898-8064 (All faxes should be printed or type written.)			
N/A			
COURSE NUMBER (Mr./Ms)	TITLE OF COURSE	DATES OF COURSE	
NAME	SOCIAL SECURITY NUMBER*		
E-MAIL ADDRESS	HOME PHONE		
MAILING ADDRESS: STREET OR PO BOX	CITY	STATE	ZIP
EMPLOYER	WORK PHONE		
PWSID # OF FACILITY WHERE EMPLOYED (if applicable)	NPDES # OF FACILITY WHERE EMPLOYED (if applicable)		
EMPLOYER ADDRESS: STREET	CITY	STATE	ZIP

*In order to complete our administrative activities, we have to ask for certain personal identifying information. It is required that you submit this information under state and federal law, T.C.A. §36-5-711 and 42 USC §654a. This information is for the use of the department and is not disclosed to the public. Your social security number is required for registering or enrolling in classes when the registrant is a certified operator. It is optional whether you comply with any other request we make for a social security number.

CN-0863 (Rev. 5/2002)

RDA 2390

American Backflow Association by Ronnie West

Ronnie West, who is the Region 3 Director for the American Backflow Association, spoke about the association and upcoming events. There are seven states in Region 3: Alabama, Florida, Georgia, Mississippi, North Carolina, South Carolina and Tennessee.

We were encouraged to watch ABPA Newsletter for an upcoming article that will contain ABPA plans developed to direct ABPA over the next ten years. Comments are welcome and revisions will be made. The membership will vote on the plans.

A scholarship program has been developed. Information can be found on the web page. ** There is also information in this newsletter along with the competition rules and parameters. The Tennessee Backflow Prevention Association has made a \$100 donation to help support the scholarship fund.

ABPA is in the process of reviewing the By-laws of all associations to make sure everyone is abiding by the current guidelines.

The ABPA Annual International Conference for 2004 will be held on May 9-12 in Long Beach, California. The 2005 Conference location is scheduled for Orlando, Florida.

New TBPA Members

Welcome to our newest TBPA members. We enjoyed meeting you at the Annual Conference and look forward to seeing you participate in the Association.
 Greg Malone, City of Bristol

- John D. Miller, City of Bristol
- John Wunner, Hendersonville Utility District
- Tom Meyer, Shelbyville Plumbing & Electrical
- Jerry Owens, Hamilton Co. Gen. Health District
- Lisa Humble, Hamilton Co. Gen. Health District, Cincinnati, OH
- Larry Stone, Town of Bell Buckle
- Jim Purzycki, BAVCO - Long Beach, California
- Bennie Yarbough, Clarksville Gas & Water
- Randy York, HB & TS Utility District, Franklin, Tennessee
- Daniel Chessman, BAT Associates, Inc.
- Nathan Reynolds, BAT Associates, Inc., Fort Campbell, KY
- Jerry Williams, Milan Public Utilities
- Don Meredith, City of Hohenwald
- Jerry Hensley, City of Hohenwald
- Mark Graves, City of Hohenwald
- Isom Lail, So. Blount Co. Utility District
- Terry Marler, West Knox Utility District
- Kirby Carpenter, City of Pulaski Water Dept.
- Ruble "Buck" Ball, Newport Utilities
- Steve Reed, City of Dyersburg
- David Rice, City of Dyersburg

REPAIR CLASS

The last repair class for 2003 was held on November 13 with 35 people in attendance. Maurie Nelsen, who is the National Product Support Manager for the Ames Company, conducted the class. He was assisted by Mid America Marketing representatives Lloyd Rainey (West Tenn.), Keith Stephens (Middle Tenn.), and Richard Goodman (East Tenn.). These gentlemen gave an informative presentation that included demonstrations of the Ames products, handout information and a question and answer time.

If you missed the class, the repair of the following products was covered:

- 1) 3/4"-2" 007 QT assemblies
- 2) 2 1/2"-4" 709 and 757 NRS or OS&Y
- 3) 2 1/2"-4" 709 and 757 DCDA NRS or OS&Y
- 4) 1/2"-2" 009 QT and 909 QT
- 5) 2 1/2"-4" 909 and 957 NRS or OS&Y
- 6) 2 1/2"-4" 909 and 957 RPDA NRS or OS&Y
- 7) Discussions on other related products.

Sign up now for the Conbraco class to be held on March 4. Use the registration form found in the newsletter. As with the other classes, continuing education credits will be given for attendance.

CLASS for 2004

TBPA has two dates set for the 2004 Repair Classes. The first is March 4 and will be on the Conbraco Backflow device. Another is set for August 3, the product has not been assigned at this time. Both of these classes will be held at the Fleming Training Center.

The remaining two repair classes will be conducted in different locations. One class will be held in Jackson for West Tenn. participants and one in East Tenn. The East Tenn. class site will be announced at a later date.

TBPA is working very hard to get everything ready for the Cross-Connection Control Administration and Survey Classes for 2004. These classes will be held at the Fleming Training Center. The dates are May 13 and November 9.

Everyone should pass the word about these daylong classes and plan to attend one of the sessions. We would also appreciate any comments or suggestions on how we could change or improve the classes. Send all correspondence to Wayne Cook, Middle Tenn. Director.

**To advertise in the TBPA Newsletter
contact Angel Goike.
Cost is \$100 per year.**

TEST KITS

By Mike Lueck

Mike Lueck of Mid West Instruments was the first speaker of the Annual Conference. He gave an informative and thorough speech on test kits.

He covered the three essential components that all test kits have: pressure housing, sensing element and an indicator. Care of test kits was discussed, listing several important factors to consider for every test kit available. Factors such as, preventing dirt from entering the test kit by flushing the test cocks and using a filter on the test kit itself.

Also, valves on the test kits should never be over tightened, open and close slowly. The test kit must always be drained after use and not subjected to extreme cold or heat. Care must always be taken when transporting the test kit.

Mike covered the calibration of test kits and repairs. There was some discussion on the comparison of the 3-valve, 5 valve and 2 valve kits. In all three of the test kits, water enters the bottom of the kit and exits the top. The main difference in the kits is the location of the bleed valves and the control valves.

VULNERABILITY ASSESSMENT

By Doug Cregor

Doug Cregor spoke to those in attendance about the Vulnerability Assessment plans that are required by all systems. He informed us on how backflow relates to this assessment.

The completion of the vulnerability assessment will add respect to a system's Backflow Prevention Program. Several questions that a system needs to ask to make sure the distribution system is protected were discussed. In the event of a sickness from the water system, you must have this assessment completed to prove you are not negligent.

Doug also covered different aspects of contamination, for example: pranks, vandalism, terrorism, human error and just plain accidents. If system testing is in question, the water purveyors should perform their own checks as a matter of quality control.

He reviewed state requirements for cross connection control programs and stressed the importance of a working program.

Cross Connection Control, Training & Certification

By Brent Ogles

Brent Ogles from the State Department of Environment and Conservation delivered an informative presentation on updates in the state approved testing procedures, new certification requirements, and the long-awaited updating of the State Cross-Connection Control Manual.

The new test procedure for a Reduced Pressure Backflow Preventer was adopted from the foundation's manual, the double-check assembly procedure was adopted from A.S.S.E., while the pressure vacuum breaker's procedure was also adopted by the foundation's Cross-Connection Control manual.

Brent stated that the training across the state was very consistent and all training courses combined averaged 618 people per year. There are approximately 1500 actively certified testers statewide.

Five different organizations conduct training across the state: Fleming Training Center and Tennessee Association of Utility Districts both located in Murfreesboro; Memphis Light, Gas and Water; Plumbers and Pipefitters, Local 572 in Nashville; and Plumbers and Steamfitters Local #43 in Chattanooga. Also, Fleming conducts training classes in Kingsport, Jackson and Knoxville. These are usually held in the summer and fall.

Starting in 2004 (May 13 and November 9), a new course in Survey and Administration will be offered. This course is designed to help water purveyors develop a cross connection program. It will be a one-day course and all attendees will receive a copy of the TBPA's new administration software.

Wayne Cook described how TBPA's "user friendly" software was developed with the help of the Tennessee Technology Center. The CD contains pre-written letters and drawings that can be manipulated to meet the purveyor's specific needs.

Brent ended the presented by giving an update on the new Tennessee Cross-Connection Control Manual. He stressed that the manual is a guideline and that it carries no authority. Also, the changes made place a greater emphasis on premise isolation. It should be presented to the State Division of Water Supply by January, 2004.

Test Your Skills

Here are the answers to the Fall 2003 Newsletter:

- | | | | | | | | |
|--------|--------|--------|--------|---------|---------|---------|-------------|
| 1. (a) | 3. (a) | 5. (b) | 7. (d) | 9. (d) | 11. (c) | 13. (a) | and 15. (c) |
| 2. (e) | 4. (e) | 6. (c) | 8. (d) | 10. (a) | 12. (c) | 14. (c) | |

TBPA would like to thank DWBP for permitting us to reprint the testing information. They may be reached at 1-888-FOR-DWBP.

To see a copy of the new EPA Cross-Connection Control Manual go to: <http://www.dwbp-online.com/EPA03manual.pdf>

 **Backflow** 
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