

# The Inspector

Volume 13, Issue 1

Spring 2006 Issue

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715-648-5000

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## A WORD FROM OUR PRESIDENT

By: Don Mathes:

### A GREAT MEETING FOR A GREAT PROFESSION

Time has come for the Second Annual Industry Days seminar and what a meeting this is going to be. The WBIA Board, with the cooperation of the State of Wisconsin, the City of Milwaukee, and the National Board, has put together what should prove to be a great meeting. The wide range of topics being presented by the National Board speakers should be of interest to everyone attending. We are covering all the bases.

The seminar is going to be a two day event and many of the attendees will probably be staying at the motel. This will be a great opportunity for everyone to get to know each other better, discuss and maybe even resolve problems and issues we have come across in the field. I know your Inspector will be there if he or she can and this will be a prime opportunity for you get answers to your questions.

This seminar does meet the requirements for Continuing Education set by the State of Wisconsin. The two day training seminar will award 14 hours of credit to each attendee for two days or 7 hours of credit per day.

Please remember to get your registration in early to reserve your seat. I hope to see you all there.

## WBIA SPRING SEMINAR

The WBIA Spring Seminar will be in partnership with The State of Wisconsin and The National Board. It is to be held on March 21 & 22, 2006. The seminar will be held at the CROWN PLAZA, 4402 E Washington Ave., Madison, WI 53704. 608-244-470. This two day training seminar will award 14 hours of credit to you for attendance both days or 7 hours of credit per day. (See page 3 for more information)



*Crowne Plaza East Towne*

**2nd Annual Boiler Industry Days**

**Crown Plaza  
4402 E Washington Ave,  
Madison, Wisconsin  
608.244.4703**

## IMPORTANT

**Continuing Education Requirements for All National Board Commissioned Inspectors Started in 2005!**

**Attending WBIA Seminars helps you meet these requirements.**

# The Chief's Words:

By: Mike Verhagen, Chief Boiler Inspector



Greetings to all from Waukesha. The year 2005 is behind us. The Department is well into electronic data reporting which has made reporting inspections and processing PTO's a bit easier for our customers. Because of this, the regulated object database is under constant update to provide the most current information. Anyone can search and find updated regulated objects, certified individuals "certified boiler inspector", a copy of the codes – Boilers, Comm 41 and general program info from our website. We welcome everyone to take advantage of the info available.

Contractors and Inspectors ... Looking forward to everyone in attendance at Wisconsin's 2<sup>nd</sup> Annual **Boiler Safety - Industry Days** on March 21-22. The two day training session may provide 7 hours credit per day of continuing education toward your credential renewal as required by a recent code revision. Advance registration is required for this two day event in Madison WI.

## DEPARTMENT NEWS

Electronic data interface EDI seems to be operating smoothly. Most inspection agencies are already reporting electronically but agencies should be aware Comm 4.23(2)a 2 requires all reporting to be converted to electronic reporting by November 1, 2006. In anticipation, the state boiler inspectors will be utilizing/testing small hand held reporting devices (palm tops) on inspections in the near future. Although the department cross checks all data prior to download, the Department requests that inspectors please continue to take their time during data entry to assure accurate record info. Record data accuracy depends on accurate entry by the inspector !

Inspectors are responsible to obtain and maintain a valid WI credential card. Since Boiler Inspector credentials are now valid for four years, most Inspectors are current but be sure to read the continuing

education requirements for the next renewal. Credential code Comm 5.60(5) c (1) requires 24 hours of education per 4 year period prior to renewal. Get a new or renewal application from our website.

## NEW BOILER CODE

Wisconsin's new Boiler and Pressure Vessel Code Comm 41 went into effect November 1, 2005. Contractors as well as inspectors should be aware of the changes as follows:

2.11 Clarified the multiple boiler or multiple pressure vessel inspection fee within one building.

5.60 Continuing education requirement for renewal of certified boiler inspector credentials.

41.10 Adopted latest 2004 ASME codes, B31.1-2004, PVHO-1-2002, NBIC-2004 & API 510- 2003.

41.15 Added reporting requirement for inactive and non-existent boilers and pressure vessels.

Clarified exemption for inspection / reporting of power piping (also see 41.41).

41.23 Mandate all inspection reporting be electronic starting one year after the effective date.

41.41 Provided exemption of ASME "P-4B" form on certain size ASME stamped boilers.

Exempted "H" stamped cast iron boilers and "UM" vessels from NB registration.

41.62 Mandated NB registration of routine repairs and seal welding of six or more boiler tubes.

Created new Subchapter IX for Historical Boilers (see NBIC, Appendix C or "New Brochure")

Get a Comm code copy now from our website@  
<http://commerce.wi.gov/SB/SB-DivCodesListing.html>

(Con't on Page 5)

## Advance Boiler & Tank Co., LLC

6600 W. Washington St.  
West Allis, WI 53214  
475-3120 Fax:475-3129



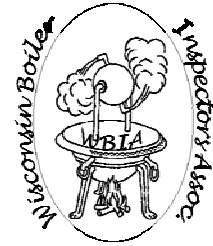
**Tuesday  
March 21,**

# 2nd Annual Boiler Industry Days

**Wednesday  
March 22,**



**CROWN PLAZA  
4402 E Washington Ave  
Madison, WI 53704**



The Wisconsin Department of Commerce in cooperation with the National Board of Boiler & Pressure Vessel Inspectors and the Wisconsin Boiler Inspectors Association have scheduled the 2nd Annual State of Wisconsin, Industry Days. This two-day training seminar is to be held at the Crown Plaza, 4402 E Washington Ave, Madison, Wisconsin on March 21 & 22, 2006. All Wisconsin Power Plant Engineers, Boiler Repair People, Maintenance Personnel, Operators, Inspectors and Interested Public are invited to attend. Training will be conducted by experts from The National Board.

**ATTENTION INSPECTORS:** This training does meet the requirements for Continuing Education set by the State of Wisconsin. This two day training seminar will award 14 hours of credit to you for attendance both days or 7 hours of credit per day.

Lunch and break-time refreshments are provided each day of the Boiler Safety—Industry Days Seminar. At the conclusion of each day, CEU's and a door prize will be awarded. One must be present to win. A special room rate has been assigned for those needing lodging during this seminar. Please contact the hotel and inform them you are attending the WBIA Industry Days Seminar.

Anyone or any organization wanting to set up a hospitality room during this Seminar please contact Jay Ehrfurth @ (608) 266-5886 or [jay.ehrfurth@doa.state.wi.us](mailto:jay.ehrfurth@doa.state.wi.us)

## **REGISTRATIONS REQUIRED BY, February 20<sup>th</sup>, 2006**

### Agenda....March 21, 2006, Tuesday

0800-0830 Sign In (Registration)  
0830-0855 WBIA & Introduction  
0900-0950 Dept. of Commerce Hour  
1000-1050 Explosions  
1100-1150 Fuel Firing Equipment/Apparatus  
1200-1300 Lunch  
1300-1350 Types of Boiler Piping Systems  
1400-1450 NFPA 54 and NFPA 85  
1500-1550 Pressure Relieving Devices  
1600-1630 Conclusion—CEU Info

### Agenda....March 22, 2006, Wednesday

0800-0850 Power Boilers  
0900-0950 Heating Boilers  
1000-1050 NBIC History & RA  
1100-1150 NBIC-RB  
1200-1300 Lunch  
1300-1350 NBIC—RC  
1400-1450 NBIC—RD  
1500-1550 MISC WBIA / Dept Commerce  
1600-1630 Conclusion—CEU Info

**This very important seminar is open to all, but pre-registration is required by February 20<sup>th</sup>, 2006  
Registration after February 20th will be \$150 and NB booklets may be unavailable.**



3333 New Hyde Park Rd  
New Hyde Park, NY 11042

Phone: 1-800-886-1562

Email: [todd.mitchell@toddmitchell.com](mailto:todd.mitchell@toddmitchell.com)

The WBIA would like to thank Todd Mitchell Associates for their help in covering the cost of our Newsletter and the mailing. It is appreciated!

## Basic Steam Desuperheating

Desuperheating is the process by which superheated steam is restored to its saturated state, or the superheat temperature is reduced.

Most desuperheaters used to restore the saturated state produce discharge temperatures approaching saturation (typically to within 3°C of the saturation temperature as a minimum).

Designs for discharge temperatures in excess of 3°C above saturation are also possible and often used.

There are basically two broad types of desuperheater:

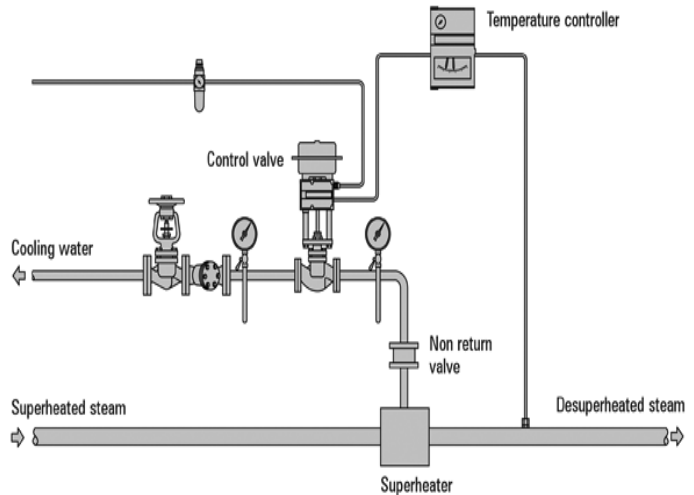
**Indirect contact type** - The medium used to cool the superheated steam does not come into direct contact with it. A cooler liquid or gas may be employed as the cooling medium, for example, the surrounding air. Examples of this type of desuperheater are shell and tube heat exchangers. Here the superheated steam is supplied to one side of the heat exchanger and a cooler medium is supplied to the other side. As the superheated steam passes through the heat exchanger, heat is lost from the steam, and gained by the cooling medium.

The temperature of the desuperheated steam could be controlled by either the inlet superheated steam pressure or the flow rate of the cooling water. Control of the superheated steam flow for this purpose is not normally practical and most systems adjust the flow of the cooling medium.

**Direct contact type** - The medium used to cool the superheated steam comes into direct contact with it. In most cases, the cooling medium is the same fluid as the vapor to be desuperheated, but in the liquid state. For example, in the case of steam desuperheaters, water is used. A typical direct contact desuperheating station is

When the desuperheater is operational, a measured amount of water is added to the superheated steam via a mixing arrangement within the desuperheater. As it enters the desuperheater, the cooling water evaporates by absorbing heat from the superheated steam. Consequently, the temperature of the steam is reduced.

Control of the amount of water to be added is usually achieved by measuring the temperature of the steam downstream of the desuperheater. The set temperature of the desuperheated steam would typically be 3°C above that at saturation. Therefore, in such arrangements the inlet pressure of the superheated steam should be kept constant.



A typical direct contact desuperheating station



### Allied Valve Industries

575 Enterprise Drive  
Neenah, WI 54956  
Phone # 920/727-1172  
Fax # 920/727-0857

## Retirees

Anyone knowing of inspectors retiring please inform us so we can get their names in this Newsletter.

## DEPARTMENTAL CORRESPONDENCE

(Con't from Page 2)

Mail correspondence to:  
Department of Commerce  
Safety and Buildings Div/Inspection Support  
PO Box 7302  
Madison WI 53707-7302

Program Assistant Supervisor:  
Barb Lasek @ 608-266-7548

Email to Order Supplies:  
[materialorders@commerce.state.wi.us](mailto:materialorders@commerce.state.wi.us)

## MISC TOPICS

New Email addresses for all state employees were recently issued. Please note the "old email addresses" should be changed as soon as possible but will be acceptable for the next few years to assure continued communication during transition. Below see my "**NEW**" shorter email including the commerce address below. Visit Commerce website for detail of other state inspector email addresses.

Waukesha Boiler Safety office:  
Mike Verhagen, Chief Inspector  
Department of Commerce  
(262-548-8617/ fax 548-8614)  
Safety & Buildings Division  
141 NW Barstow St, 4<sup>th</sup> floor  
Waukesha WI 53188  
Email: [mike.verhagen@wisconsin.gov](mailto:mike.verhagen@wisconsin.gov) ...

**NEW** .....EMAIL

My office hours are Monday –Friday, 7:45 to 4:30 PM and always available to answer questions via telephone, email or regular US mail. When out of the office, you may contact Section Supervisor, Rick Merkle @ 608-266-3037 or Program Manager, Joe Hertel @ 608-266-5649.

## WEB SITES

[www.commerce.wi.gov](http://www.commerce.wi.gov)

**NEW** ..... COMMERCE

[www.nationalboard.org](http://www.nationalboard.org)

for National Board info

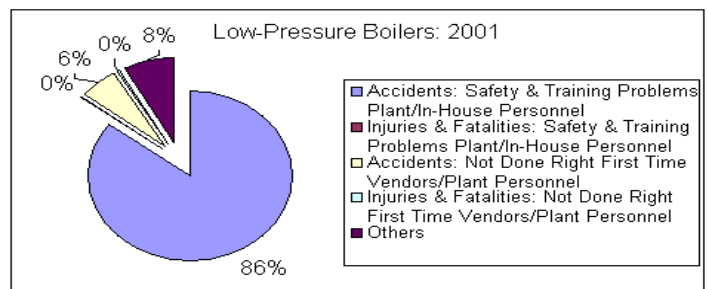
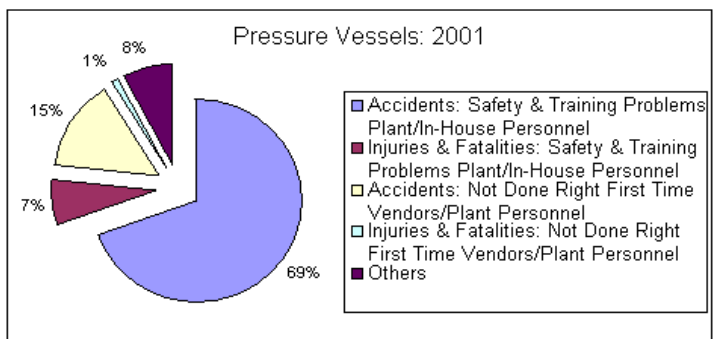
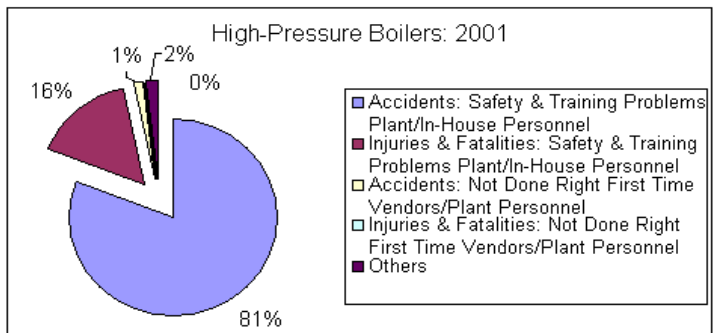
[www.asme.org](http://www.asme.org)

for ASME Info

(in Top 10 Box, click Safety & Buildings Division, click applicable program)

Take Care! Thanks for your cooperation in the past year and look forward to seeing everyone at our Boiler Safety 2<sup>nd</sup> Annual Industry Days March 21-22, 2006.

## Accident Overview for 2001



# I'm From Wisconsin

For those of you from Wisconsin, laugh. For those of you who are no longer in Wisconsin, reminisce, and for those of you who are just lucky enough to know someone from Wisconsin, maybe this will help you understand them a bit better.

You know you are in Wisconsin when :

Your idea of a traffic jam is ten cars waiting to pass a tractor on the highway.

You refer to people from Illinois as "F.I.B.s"

"Vacation" means going up north to Crivitz for the weekend.

You measure distance in hours.

You know several people who have hit a deer more than once.

You often switch from "heat" to "A/C" in the same day and back again.

You use a down comforter in the summer, and gloves.

You drive at 65mph through 2 feet of snow during a raging blizzard, without flinching.

You see people wearing hunting clothes at social events.

You install security lights on your house and garage and leave them both unlocked.

You think of the major food groups as venison, beer, fish, and berries.

You carry jumper cables in your car and your girlfriend knows how to use them.

There are 7 empty cars running in the parking lot at Fleet Farm at any given time.

You design your kids Halloween costume to fit over a snowsuit.

Driving is better in the winter because the potholes are filled with snow.

You think sexy lingerie is tube socks and flannel pajamas.

You know all four seasons : almost winter, winter, still winter, and road construction.

It takes you 3 hours to go to the store for one item even when you're in a rush because you have to stop and talk to everyone in town.

You buy Christmas presents at Fleet Farm.

Your whole family wears green and gold to church on Sunday.

You define summer as three months of bad sledding.

Snow tires come standard on all your cars.

You refer to the Packers as "we".

You have gotten frostbitten and sunburned in the same week.

You can identify an Illinois accent.

You know what cow-tipping is.

You learned to drive a tractor before the training wheels were off your bike.

"Down South" to you means Chicago.

A brat is something you eat.

You have no problem spelling Milwaukee.

You consider Madison exotic.

You got a passport to go to Minnesota.

You don't have a coughing fit from one sip of Pabst Blue Ribbon.

You can actually pronounce Oconomowoc.

You know what a "bubbler" is.

Your idea of creative landscaping is a statue of a cow next to your blue spruce.

Your neighbor throws a party to celebrate his new machine shed.

You go out for fish fry every Friday.

You can recognize someone from Illinois from their driving.

You know how to polka.

Formal wear is blue jeans and a baseball cap.

You drink soda and refer to your dad as "pop".

You were unaware there is a legal drinking age.

Your 4th of July Family Picnic was moved indoors due to frost.

You know where Waukesha is AND can pronounce it.

You decided to have a picnic this summer because it fell on a weekend.

You can visit Luxemburg, Holland, Belgium, Denmark, Berlin, New London, and Poland all in one afternoon.

You only know three spices : salt, pepper and ketchup.

You've seen mosquitoes with landing lights.

## Thought of the Day

There is no job we do or service we perform so urgent that we can not take time and use the necessary equipment to do it safely.

# PBBS

## EQUIPMENT CORPORATION

N59 W16500 Greenway Circle  
Menomonee Falls, WI 53051

## WBIA Officers & Board Members

### Officers:

Don Mathes, President      donald\_mathes@hsb.com  
Darrell Stumpf, Vice President      dkstum@execpc.com  
Matt Keenan, Secretary      keenan@lakeland.ws  
Jim Holter, Treasurer      james\_holter@hsb.com

### Board Members:

Craig Running      beckerboiler@madtown.net  
Paul Wilcox      pwilco@ci.mil.wi.us  
Don Smith      smithgcwi@aol.com  
Jim Smith      smith@ci.mil.wi.us  
Ray Glaser      raymond\_glaser@hsb.com  
Jay Ehrfurth      jay.ehrfurth@doa.state.wi.us  
Mike Verhagen      mverhagen@commerce.state.wi.us

## Inspector Passing

Mr. James G. Brent passed away 1/23/2006. James is preceded in death by his wife Connie in 2005 and a Son. Jim is survived by his Son, Doug Brent. Jim joined HSB in 1998 as a Senior Inspector and worked previously @ Kemper as an Inspector/Engineer. Jim has been an active member of the WBIA for years and he will be missed.

### MILWAUKEE BOILER INTERNATIONAL

1101 South 41st Street  
Milwaukee, WI 53215

414-645-0068  
FAX: (414) 645-1113



## WBIA Helps You Meet Your Training Needs

The Wisconsin Boiler Inspector's Association is offering training classes/seminars.

If you are interested in setting up boiler & pressure vessel training during the year let the WBIA know and we will tailor training to meet your needs. Certificates issued for all training hours. Contact Matt Keenan, Secretary @ 715-648-5506.

### Becker Boiler Company, Inc.

1785 E. Bolivar Ave.  
St. Francis, WI 53235  
482-2840 Fax: 482-0259

## Advertising in the Inspector

To defray the cost of publishing "The Inspector" we will be accepting your advertisements. "The Inspector" is published twice a year and reaches boiler operators, Commissioned Inspectors, manufacturers, and many more. "The Inspector" is read by people in a 4 State area. These include Wisconsin, Minnesota, Iowa and Illinois.

Please help us reach more people, Advertise in "The Inspector".

Please contact a board member today to get registered or you can reach the WBIA Secretary at keenan@lakeland.ws.

## 2nd Annual Boiler Industry Days

### Sign-Up

Mail this pre-registration form with a \$125.00 fee per person: Make Check Payable To: WBIA, C/O:

Jim Holter, Treasurer, 5009 67th Street, Kenosha, WI 53142      WBIA Phone (715-648-5000)

**2nd Annual, Boiler Industry Days – March 21 & 22, 2006**

Name: \_\_\_\_\_ WI-Credential No#: \_\_\_\_\_

Employer: \_\_\_\_\_ E-mail: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone Number: \_\_\_\_\_



**WBIA**

**2066 260th Ave**

**Cushing, WI 54006**