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RADIANT & HYDRONICS E - NEWS

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Radiant & Hydronics e-News week ending August 25, 2006

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Your Pass To Radiant Education

The definition of the word **opportunity**, as described by Merriam-Webster, is "a good chance for advancement or progress."

[ISH North America](#) takes place in Chicago in one month. This biennial *opportunity* will be filled with PHC vendors, on-site demonstrations, new product pavillions, and a mass of seminars to meet your needs. It has also partnered with the [Radiant Panel Association](#), which will hold its annual Convention at the Westin Hotel on Michigan Avenue.

Registration details are below... Don't miss this great *opportunity*!

[ISH North America Registration](#)
[Radiant Panel Association Registration](#)

In this issue of **Radiant & Hydronics e-News** ...

- [Last chance to take the Grundfos Quiz. iPod® Promotion ends Friday, Aug. 25.](#)
- [This month's "Fix" to John Siegenthaler's Aug. PM Glitch.](#)
- [Sign up now to receive free access to www.PMmag.com](#)



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Industry News

Calendar Of Events

Aug. 29
[HVACTV Live!](#)
8 p.m. EDT

Sept. 7
[Viessmann Academy Practical Service/Maintenance: Vitorond & Vitola](#)
Warwick, RI

Sept. 12
[Viega Training Program: Radiant Wizard](#)
Bedford, MA

Radiant House Returns

The [Radiant Panel Association](#) will showcase its Radiant House at [ISH North America](#), Sept. 28-30, in Chicago (Booth 1151). Attendees will have the opportunity to experience radiant heating systems and equipment being installed in the wood frame structure right on the show floor. Products - both hydronic and electric - will be installed in the house during show hours, and will remain in place throughout the show. A schedule of participating exhibitors will be displayed at [ISH North America](#).



Costs Heat Up As Projects Cool

Construction materials' costs rose in July, even though the producer price index eased, reported [Ken Simonson](#), chief economist for the [Associated General Contractors of America](#). A recent [Bureau of Labor Statistics](#) report notes that in the last 12 reported months, overall PPI has risen 4.2%, while the construction materials index climbed twice as fast, rising 8.3%.
> > NOTE: A podcast discussing the latest construction cost trends is available at www.agc.org/podcast.

ICC Certifies Professionals For Disaster Recovery

The need for assistance during recovery from disasters prompted the [International Code Council](#) to offer two new professional certifications: Disaster Response Inspector Certification, and Coastal and Flood Plain Construction Inspector Certification. Individuals passing the exams may assess the safety of structures following disasters. For more information visit <http://www.iccsafe.org/certification/> or call 1-888-ICC-SAFE, ext. 33806.

Site Prep Launches In January

Plumbing & Mechanicals' parent company, BNP Media, has launched *Site Prep* as an independent publication effective January 2007. The construction site preparation-focused magazine will be published six times annually, and joins BNP Media's family of 40 trade magazines, including 20 in the construction field. For subscription information, visit www.siteprepmag.com. For a sample issue, contact advertising manager [Bonnie Bomhack](#) at bomhackb@bnppmedia.com or 847/229-9929.

Radiant Courses Offered At RPA Convention

The [Radiant Panel Association](#) will hold its annual conference Sept. 29 at the Westin Hotel on Michigan Avenue in Chicago in conjunction with [ISH North America](#). The event includes concurrent seminars on Hi-Velocity Cooling, Green Radiant Technology and Reducing Your Liability, as well as a general membership meeting, and full-day Radiant Basics and Radiant Precision courses. Rooms at the homebase hotel are still available. [Click here](#) for reservation information. Entrance to the ISH North America show is included, and a shuttle is provided to and from McCormick Place. Any questions? Call 800/660-7187.



Company News

Sept. 12
[Hydronic Piping Design Night School](#)
Portland, ME

Sept. 13
[RPA Radiant Basics](#)
Baltimore, MD

Sept. 13
[Dead Men Steam Night School](#)
Portland, ME

Sept 14
[WILO Pump Schools Heating Basics, Product Updages](#)
Calgary, Alberta

Sept. 14-15
[Lochinvar Copper-Fin II Product School](#)
Lebanon, TN

Sept. 15
[WILO Pump Schools Heating Advanced](#)
Calgary, Alberta

Sept. 19
[Viega Training Program: How to Sell Radiant](#)
Bedford, MA

Sept. 19-21
[Grandy & Associates Basic Business Boot Camp](#)
Orlando, FL

Sept. 20
[Viega Training Program: Radiant Piping](#)
Bedford, MA

Sept. 21
[WILO Pump Schools Heating Basics, Product Updates](#)
Chicago, IL

Sept. 21-24
[NAOHSM's Oilheat Retreat](#)
Lancaster, PA

Sept. 22
[WILO Pump Schools Heating Advanced](#)
Chicago, IL

Sept. 26
[Viega Training Program: Controls](#)
Bedford, MA

Sept. 28-30
[ISH North America](#)
Chicago

Sept. 28
[RPA Radiant Basics](#)
Chicago

Sept. 28

HeatLink Group Announces Changes To US Operations

Canadian manufacturer [HeatLink Group Inc.](#), and its family of radiant heating and potable water products, announced a change in its U.S. operations, in which customers will have access to the products directly from the manufacturer under the new name HeatLink Group Inc. The company has a newly assembled U.S. sales team and a new centrally located U.S. distribution facility. Additional news on the company's expansion can be found at www.heatlinkgroup.com.

No More Cold Showers

[A.O. Smith](#) donated two ProStar® Tankless On-Demand Gas Water Heaters to the Yucca Council Boy Scouts, serving West Texas and Southern New Mexico, for continuous hot-water use at one of its campsites. They will be used for the first time during this month's Boy Scout Wood Badge Training, where 70 adults will participate in the highest level of training an adult volunteer can receive.

White Honored As Man Of The Year

[Taco](#) CEO [John Hazen White, Jr.](#) spoke recently at the Rhode Island March of Dimes dinner in July. The non-profit organization honored him with its Man of the Year Award for his support for the organization's fight against birth defects, premature births and infant mortality.

Pocket PC Giveaway At ISH NA

[Lochinvar@ Corp.](#) will give away 10 HP Pocket PCs at its ISH North America Booth (1012) in Chicago. The company's KNIGHT Heating Boiler features a Smart System control with Pocket PC software that helps set up and program units, and trend analysis. To be eligible for the drawing, attendees must register at the Lochinvar booth. A drawing will be held every two hours. Winners do not have to be present to win.

Appointments & Announcements

- [A.O. Smith Water Products Co.](#) named [Paul R. Dana](#) vice president-global product engineering. Dana will be responsible for the design, testing and introduction of new residential and commercial water heating products.
- [Rheem Mfg. Co.](#) recruited [R. Craig Breese](#) from Maytag as its new president, water heating division. He succeeds [Simon Parfitt](#), who is promoted to vice president - finance, corporate, reporting directly to President and CEO [Ian Stewart Farwell](#).
- [Uponor](#) announced [Anders Tollsten](#) will replace [Jim Bjork](#) as Uponor North America's executive vice president, effective Sept. 1, 2006. Tollsten is currently the executive vice president of the Uponor Nordic region.

R&H Box Score

PM Completes Water Heater Survey

In a recent survey to PHC professionals, *Plumbing & Mechanical* uncovered the water heater installation habits of its readers. A summary of the report's findings will be released in an upcoming *PM* issue. Below is a preview of some of the results:

Does your company install, replace and/or service tankless water heaters?

Yes 69%
No 31%

Does your company deal with Residential and/or Commercial tank water heaters?

Residential only 30%
Commercial only 2%
Both 68%

[ISH RHY1 Open Systems and Radiant Heating](#)

Chicago

Sept. 28

[ISH RHY2 Electric Snow/Ice Melting Technology](#)

Chicago

Sept. 29

[ISH RHY3 Hybrid Systems](#)

Chicago

Sept. 29

[ISH RHY4 Intro to Radiant](#)

Chicago

Sept. 30

[RPA Radiant Precision](#)

Chicago

Sept. 30

[ISH RHY5 How Floor Covering Affects Radiant Systems](#)

Chicago

Oct. 2-5

[Plastics Pipes XIII Conference](#)

Washington, D.C.

Oct. 16-17

[Viessmann Academy Commercial Hydronic Technology](#)

Warwick, RI

Oct. 19

[WILO Pump Schools Heating Pump Basics, VFD Systems](#)

Calgary, Alberta

Oct. 20

[WILO Pump Schools Heating Hot Stove Session](#)

Calgary, Alberta

Oct. 20

[Viessmann Academy Practical Service/Maintenance:](#)

[Vitodens 200](#)

Warwick, RI

Oct. 25-26

[Viiega Training Program: Controls/Radiant Piping](#)

Bedford, MA

Oct. 26

[WILO Pump Schools Heating Pump Basics, VFD Systems](#)

Chicago, IL

Oct. 27

[WILO Pump Schools Heating Hot Stove Session](#)

Chicago, IL

Oct. 31

[Viiega Training Program: Snowmelt](#)

Bedford, MA



HEAT LOAD PRO lets you quickly find the design heat load of a building on a room-by-room basis. It also estimates the seasonal heating cost using your locally available fuel options. All this in a package costing a fraction of what other heat load estimating programs sell for.
Download your free demo at www.hydronicpros.com

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ISH NA Radiant Courses - Schedule-At-A-Glance

Thursday, Sept. 28

9 - 10:30 a.m.

RHY1 Open Systems and Radiant Heating, Instructor **Dave Yates**

3 - 4:30 p.m.

RHY2 Electric Snow/Ice Melting Technology, Instructor **Ada Cryer**

Friday, Sept. 29

3 - 4:30 p.m.

RHY3 Hybrid Systems, Instructor **Dan Foley**

RHY4 Intro to Radiant, Instructor **Ted Lowe**

Saturday, Sept. 30

9 - 10:30 a.m.

RHY5 How Floor Covering Affects Radiant Systems, Instructor **Hoyt Corbett**.
(The RPA publication, "[The Radiant Flooring Guide](#)," will be used as a teaching basis)

Attendees must register for ISH North America seminars prior to the show. To download a registration form, [click here](#).

Online Now



PM Adds New Element To Web site: Registration

You may have noticed something different on *Plumbing & Mechanical* and *PM Engineer's* Web sites: to access most of our editorial content, our readers are now required to register themselves - for free - on the site.

It takes big bucks to invest in more and faster technology. And while advertisers are willing to support these investments, they'd like us to provide them with visitor demographics. Who visits PMmag.com? Are they really plumbing and hydronic heating contractors? Do they have any influence on what fixtures, fittings and equipment is installed? Also, by collecting a modest amount of demographics, we are able to refine our online content to best meet your needs.

Just go to www.pmmag.com/register, key in your e-mail address, create a password and fill out the simple form. We promise to ask as few questions as possible, and you have the option to allow us to share your e-mail address with our partners, or keep that information private - just use the check boxes at the end of the form.

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www.taco-hvac.com

Did You Know . . .

More than 450,000 school buses transport close to 24 million students in the U.S. to school every school day.

Remind your service technicians and other company drivers to slow down in residential neighborhoods and observe all school bus driving rules. School starts this week for many of the country's children.

This information taken from "I Love School!" by Philemon Sturges ©2005 HarperCollins Publishers ISBN 0-439-81041-8

The Glitch & The Fix

Design Flaws: Protect Against Flue Gas Condensation

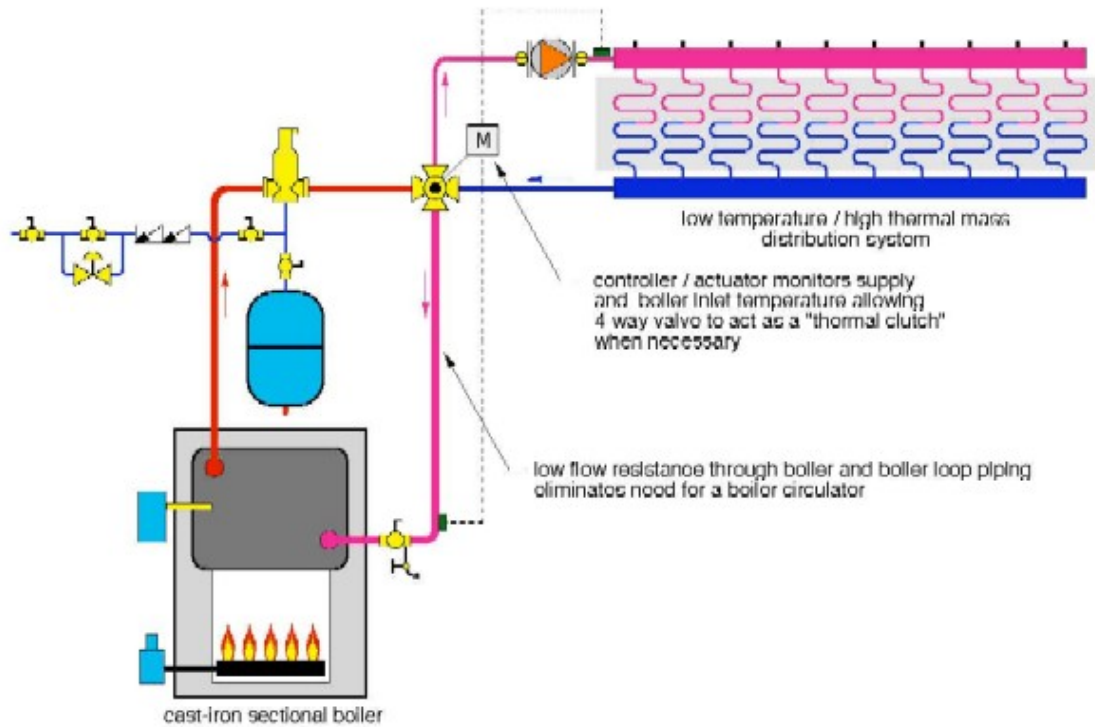
One of the problems with the design in the original schematic is the boiler is still not "guaranteed" to be protected against flue gas condensation. A high-mass slab can easily absorb heat from the water faster than the boiler can reproduce that heat by burning fuel. When this happens, neither the manually set four-way valve nor the bypass circulator will prevent the boiler temperature from dropping - quite possibly well below the dew point of the flue gases. This is especially likely during recovery from setback periods.

To correct this situation, the four-way valve needs to have some "smarts." Equipping it with an actuator/controller that monitors boiler inlet temperature allows the four-way valve to operate as a thermal clutch when necessary to prevent flue gas condensation.

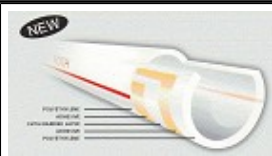
Assuming the boiler has low flow resistance and significant thermal mass (both typical of cast-iron sectional boilers), it is also possible to eliminate the bypass pump. This saves on first cost and operating cost over the life of the system.

One final error worth noting is the swing check valve installed just downstream of the elbow in the boiler loop piping. Such a location sends turbulent flow into the swing check, which will surely lead to "rattling" sounds due to vibration of the flapper disc inside the valve.

Here's the corrected schematic:



New Products



adhesive layers. www.roth-usa.com

Five-Layer PEX: [Roth Industries](http://www.roth-usa.com) has finished all of its approval processes and is ready to ship the new and innovative five-layer Radiant PEX tubing, DuoPex-c S5, by the end of 2006. It features one EVOH layer connected to an inside and outside Pex-c layer by two

Radiant Controls: The DST-777 from [Azet Technologies Inc.](http://www.azeltec.com) is a versatile setpoint control with dual display to provide constant readout of sensor temperature and setpoint simultaneously. A quickset feature allows setpoint adjustment without entering programming mode. Wide applications include heating, cooling, special projects and more. www.azeltec.com



Spec Beam: The New iLevel™ Trus Joist TimberStrand® LSL beam by [Weyerhaeuser](http://www.iLevel.com) has a capacity for larger holes for plumbers and electricians, and offers greater jobsite flexibility. Accommodates holes up to 4 5/8 inches (in a 14-inch-deep beam), and allows for drilling of multiple holes. www.iLevel.com



Flexible Heating Mesh: HOTMesh by [World Scientific Development](http://www.worldscientificdevelopment.com/hotmesh) is a highly flexible mesh available in 27 different types. It requires minimal post-installation attention; heats and keeps runways clear of ice and snow; and provides even heat distribution throughout the coverage area. Utilizes molecular nanotechnology in its heating properties, and withstands surface pressure of up to 3 tons. www.worldscientificdevelopment.com/hotmesh



Industry Links

- [Radiant Panel Association](#)
- [National Association Of Oil Heating Service Managers](#)
- [Canadian Hydronics Council](#)
- [Plastic Pipe & Fittings Association](#)
- [American Society of Plumbing Engineers](#)
- [GAMA](#)
- [HVACTION.com](#)
- [US Dept. of Energy](#)
- [ISH North America](#)
- [HeatingHelp.com](#)
- [HydronicPros.com](#)

RADIANT FLOORING GUIDE 2006 EDITION



Award-Winning 2006 Radiant Flooring Guide Now In Digital Format

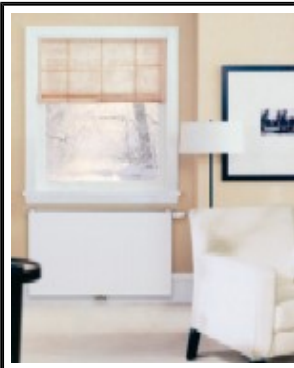
The Radiant Panel Association's award-winning **2006 Radiant Flooring Guide** is the only annual publication that provides detailed articles on how to match various floor covering and subflooring

materials with radiant heating systems.

> > > *View the user-friendly Digital Version at the link below to access manufacturers' Web sites directly as you browse.*

<http://www.bnpmmedia.com/digitalmagazine/index.html?pub=RFG&iss=2006>

You can still purchase hardcopy versions of the 2006



Center-Connection Radiator: The [Myson T6 IVC](#) Center-Connection Radiator is a dual panel, double convector radiator that offers the advantages of a standard 2-inch central connection as well as the standard four-corner connections. With the new innovative T6 design, pre-planning and installation are greatly reduced, saving time and money. Installers have the flexibility to connect to the most convenient location for installation. With 18 sizes in heights up to 24 inches and lengths to 78 3/4 inches, the T6 IVC Radiator replaces baseboard up to 29 ft., and delivers up to 16,036 Btu/hr. www.MysonInc.com

Radiant Flooring Guide through the Radiant Panel Association's Web site: <http://www.radiantpanelassociation.org/i4a/pages/index.cfm?pageid=246>



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