

# SONO WAVES

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**FURNESS-NEWBURGE, INC.**  
376 Crossfield Drive  
Versailles, KY 40383  
Telephone: (859) 873-0328  
Facsimile: (859) 873-8019

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## **FNI Sonoperoxone<sup>(R)</sup> Systems available for any size foundry**

Modernize your foundry with its own custom designed Sonoperoxone<sup>®</sup> to reduce scrap, consumable costs and pollution. Read more about the systems at [www.furnessnewburge.com](http://www.furnessnewburge.com) and call or email us for additional information.

The photo below was taken of the Sonoperoxone<sup>®</sup> installation at Washburn Iron Works, Washburn, WI.

## **Call us today about Superheat Technology to improve core making processes**

Make cores more quickly for less cost while reducing organic binder levels and associated pollution and odors. Enhance the use of inorganic binders to compete with organic resins, technically and economically.

Retrofits available for all core machines. Take advantage of this new technology to benefit your foundry. Further information on page 2 of this newsletter.



**WASHBURN IRON WORKS, INC., WASHBURN, WI**

**SUPERHEAT TECHNOLOGY  
ALLOWS AIR TEMPS OF UP TO 800°C  
FOR THESE EFFECTS AND BENEFITS:**

- **Rapid dehydration of water based low emission core binders**
  - Improves overall core room efficiency
  - Increases out of box strengths
  - Reduces cycle times
  - Allows low emission core binder to be used in applications previously thought to be possible *only* with higher emission binders
- **High temperature purge with conventional higher emission core binders**
  - Aids in removal of high molecular weight solvent from newer organic binder systems
  - Reduces amine usage
  - Reduces odors during core storage
  - Reduces binder levels
  - Reduces scrap cores
  - Reduces core gas related casting scrap

**SMART CORE BOX TECHNOLOGY**

Augments existing core machine practice to:

- + Improve consistency of core blowing;
- + Improve consistency of core curing;
- + Improve precision of catalyzing gas dose;
- + Control and monitor core processing temperatures and gas flow profiles;
- + Give the “host” core process and quality control department the data needed to determine when cores are properly and consistently cured; and
- + Improve overall core room efficiency.

**FNI AND CLEANTECH PARTNERS  
JOIN FORCES IN WISCONSIN**

CTP's non-profit mission is to create energy savings in Wisconsin by introducing emerging technologies. CTP actively promotes FNI's Sonoperoxone® technology as it offers scrap, bond use and energy savings with a two year or less payback on the investment. The first project assisted by CTP is currently in production and scheduled to be installed at Manitowoc Grey Iron Foundry in Manitowoc, WI. during May 2009.

**FNI continues collaboration  
with Penn State University in 2009  
using funding from both Ben Franklin in PA  
and Federal grants**

FNI and PSU continue to work together in various areas to reduce or eliminate the impact on the environment by foundries. This work includes, but is not limited to, improvements to sand systems, sand binders and metal casting processes.

**KEEP CHECKING WEB SITE FOR UPDATES**

**IN ADDITION TO OUR NEW SMART CORE BOX TECHNOLOGY,  
OTHER COST SAVING BREAKTHROUGH TECHNOLOGIES  
AVAILABLE FROM FURNESS-NEWBURGE, INC. INCLUDE:**

- 1. Low emission core binders, technology & tools*
- 2. Modern waste heat recovery approaches*
- 3. Pneu-Col® sand, clay and sea coal reclamation system*

***Please contact us today, either by email:***

Jim Furness, President: [jimfurness@gmail.com](mailto:jimfurness@gmail.com)

Lynn Furness, CFO: [lynnfurnesscfo@gmail.com](mailto:lynnfurnesscfo@gmail.com)

Dave Paulsen, VP: [pauldavidpaulsen@gmail.com](mailto:pauldavidpaulsen@gmail.com)

**or by telephone: 859-873-0328**

