



SONO WAVES

A Publication of
FURNESS-NEWBURGE, INC.

376 Crossfield Drive, Versailles, Kentucky 40383

Telephone: 859-873-0328

Facsimile: 859-873-8019

VOLUME 3, NUMBER 2

JULY 1, 2007

GREDE FOUNDRIES - LIBERTY IN WAUWATOSA, WI INSTALLS SONOPEROXONE™ APRIL 2007

Grede Liberty reduced scrap rates and achieved significant emissions and odor reductions almost immediately.

Call now to help your foundry save money while improving worker and community environments with a Sonoperoxone™ installation tailored to fit your needs.



GREDE LIBERTY WAUWATOSA, WI

NEW PRODUCT LINE ANNOUNCED

NEW PRODUCT LINE ANNOUNCED

SUPERHEATED CORE PURGE AIR SYSTEMS

Effects and Benefits of Core Purge Air System:

- **Rapid dehydration of water based low emission core binders**
 - Increase out of box strength
 - Reduce cycle time
 - Lower binder levels
 - Increase production
- **High temperature purge**
 - Aid in removal of high molecular weight solvent from newer organic binder systems
 - Reduce amine usage
 - Reduce odors during core storage
 - Reduce binder levels
 - Reduce scrap cores

The Core Superheat System is available in several packages to meet each customer's unique needs. For example, different sized heaters offer varying airflows depending upon the foundry's requirements. Air temperatures of up to 800 degrees Celsius are obtainable. The foundry may opt to retrofit the system using its current core box controls or to set up separate controls.

PAPER PRESENTATION ALUMINIUM CAST HOUSE TECHNOLOGY

Jim Furness and Dave Paulsen are co-authors with Bob Voigt and Paul Lynch from Penn State University of a paper entitled "Ultrasonic-assisted solidification and feeding of Aluminium Alloy" selected for presentation at the 10th Australasian Conference & Exhibition in Australia, August 5-9 2007. The paper discusses acoustic-assisted solidification processing for improving casting quality and yield, including non-contact sonic and ultrasonic vibrations on aluminium A356.

AFS CONFERENCE PAPER

During the AFS Conference in Houston in May, 2007, John Fox from Penn State University presented a paper entitled "Simultaneous Sand, Clay and Coal Reclamation using Induced Particle Collision, Discretionary Settling and Advanced Oxidation". The paper discusses a system recently developed by Furness-Newburge, Inc. which facilitates reuse of waste green sand via innovative cavitation processing of a sand-clay slurry. Co-authors included F. Cannon and R. Voigt of Penn State, J. Furness of FNI, and P. Smith, S. Lewallen and J. Goudzwaard of Neenah Foundry Company.

Please contact us by telephone or by email:

Please contact us by telephone or by email.

jimfurness@gmail.com Jim Furness, President
mamanewbs@yahoo.com Lynn Furness, CFO
pdpaulsen@alltel.net Dave Paulsen, Technical Dir
tangle343@gmail.com Tom Angle, M.E.
mikemroczeck@hotmail.com Mike Mroczeck, Sales