

ICMA Spotlight

Cast Technologies — Peoria, Illinois

Cast Technologies is a global information and communication technologies (ICT) organization.

At Cast Technologies we provide Total Solutions, Peoria, which harnesses the power of emerging Web Technologies powered by Open Source systems to enable businesses to optimize processes and introduce new paradigms by empowering legacy systems.

Developing the solutions, systems, applications and portals means developing a wide range of services in-house by the software team at Cast Technologies. The experience gained was invaluable. It provided Cast Technologies with the ideal springboard to enter the software development arena. Today the company has not only created a myriad of high-end solutions, applications and portals for Nigerian companies, but also developed solutions for neighboring organizations. They offer software development, web services, linux services and solutions, customized software pow-

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ICMA is a proud member and supporter of FEF and FIRST.



The Foundation for Metal Casting Education



Foundry Industry Recycling Starts Today

THE ILLINOIS CAST METALS ASSOCIATION Runner

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Winter 2008

From Executive Director Stan Zielinski . . .

Foundry sand in infrastructure applications

There are numerous benefits of using foundry sand in highway construction and other industrial and agricultural applications. The cast metals industry generates a lot of waste every year with most of it going into landfills. State and local governments as well as private businesses are experiencing rising operation costs and expensive land acquisition and more important, a shorter practical life of area landfills as well.

An associated issue with foundry sand is transportation costs for casting manufacturers. Other than recycling sand for their own use, most used sand is hauled to local landfills, which not only incurs transportation costs; but also fees for the landfill to take the materials.

Is there a workable solution? Yes, according to reports presented at a recent foundry sand recycling forum held at the U.S. EPA Region 5 Chicago offices. Held last fall, the conference brought participants from approximately 18-states and Washington, DC, and accounted for more than 75 attendees who heard from speakers representing U.S. environmental agencies, industry consultants, business owners and

professional engineers. Engineers from the University of Wisconsin for example provided data on proven methods that recycling foundry sand into other operations can work in Illinois just as it does in neighboring states.

The Foundry Sand Recycling Forum may have been one of the most important opportunities to learn about the use of foundry sand in road construction and structural fills. This important meeting may be a turning point in developing new thinking by Illinois officials that Illinois foundry sand just may have a useful afterlife

The two-day event was sponsored by the Federal Highway Administration, US Environmental Protection Agency, Foundry Industry Recycling Starts Today (FIRST) and the University of Wisconsin. Case studies presented by representatives from the U.S. EPA, Kohler Corp., consultants and engineers from the Recycled Materials Resource Center and Research program, UofW, provided evidence that supports a dependable use of foundry sand in road applications.

Many U.S. foundries recycle sand internally but still discard millions of tons of unusable sand annually;

sand that could be used as a locally available aggregate resource. Recycling is essential to reducing the dumping of a valuable commodity into landfills. Foundry sand can be put to good use for many purposes.

The forum was an in-depth, engaging exchange of information and covered several foundry sand fundamentals including: Hot Mix Asphalt, Flowable Fill, Bases and Subgrades, Structural Fills and Retaining Structures and Environmental Evaluation. Some of the key points brought out by speakers underscored the importance of using recycled foundry sand: Recycled materials should get first consideration in overall materials selection. It offers engineering, economic and environmental benefits, lifecycle cost benefits and saves landfill-space dollars.

Since beneficial use of foundry sands is an ICMA priority, it is critical for association members to work with the U.S. EPA now to define how the current section 817 should be used and publish written instructions to Illinois foundries. The ICMA board will outline a strategic action plan during the coming months to help educate state agencies that foundry

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BRIEFLY

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Awards for achievement in environmental protection from State of Illinois

The Waste Management and Research Center (WMRC), through the Governor's Pollution Prevention Awards, honored 22 Illinois companies for their significant achievements in protecting the environment and boosting the economy while preventing hundreds of tons of waste materials from being released into the environment, saving millions of gallons of wastewater from being sent to treatment facilities. The Illinois Sustainable Technology Awards were presented in Glen Ellyn during a recent luncheon. This is the 21st consecutive year the awards were presented by WMRC, a division of the Illinois Department of Natural Resources (IDNR). Among the 2007 award winners are members of ICMA and/or IMA are listed below.

2007 Governor's Pollution Prevention Award winners

Abbott in North Chicago implemented projects to reduce fresh water usage, which saved more than three million gallons per year. Abbott also developed a process change that will reduce use of hazardous solvents up to 60 percent.

Cadbury Adams in Rock-

ford developed a non-contact system to provide cooling water to process equipment. Discharge to the sanitary district has been reduced by more than eight million gallons at a savings of \$13 million dollars.

Caterpillar Inc. Hydraulics and Hydraulic Systems in Joliet implemented a flame sprayed coating for its truck suspension system, replacing a chroming process. As a result of this change, the plan reduces hazardous waste by 700,000 pounds annually and saves 14 million gallons of water.

Caterpillar Inc. Cast Metals Organization (CMO) in Mapleton had a team that looked at the regulation requiring scrap to be free of Hazardous Air Pollutants. The team developed a program that informed the Foundry about the scrap suppliers' ability to provide acceptable product. Mapleton worked with the American Foundry Society to help produce a rule that would not only meet strict quality requirements, but would allow foundries to continue to recycle certain types of scrap and maintain a competitive cost structure.

Caterpillar Inc. Mossville Engine Center (MEC) in Mossville formed a team to look at used oil recycling processes that forced MEC to send large amounts of used oil off-site for recycling—instead of reclaiming it for re-use on-site. Based on the team's recommendations, the facility developed two system updates, installed a newer, more effective dehydrator and an underground pipeline. The resulting benefits included a total savings of \$816,851 for the year and a reduction in disposal of about 208,000 gallons of oil.

International Truck and Engine in Melrose Park developed a new coating for the spray coating process for the new engines it manufactures. The prior engines needed to be completely spray-painted. The new coating is water-based, contributing to a reduction of hazardous emissions. Additionally, this coating covers an average of 23 engines per gallon; the old blue coat paint covered only four engines per gallon. The change resulted in annual reductions of paint use by 82 percent, hazardous emissions by 83 percent, and

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From Executive Director Stan Zielinski . . . continued

sand is a valuable and useful commodity that can be recycled for road construction, backfill and agricultural applications. The payoff could be a win-win outcome for the state and the foundry industry.

The board has determined that the association should query Illinois

foundries to learn how they dispose of used sand, their transportation costs and landfill fees. A survey will target foundries, recycling centers, cement plants and other facilities to discover if foundry sand is a practical material for reuse in their industrial applications. The results can help strengthen

our argument to Illinois State agencies that foundry sand is a valuable commodity that should be used for beneficial purposes.

When the Foundry Sand Survey arrives, please take a few minutes to complete it and return it as soon as possible. Once we've interpreted and tabulated the

results, the ICMA will provide the results to all firms that responded to the survey. Thanks in advance for your help and participation.

— Stan Zielinski,
Executive Director

Manage your energy expenses

ICMA membership yields numerous beneficial and cost-saving advantages that are available exclusively to active ICMA members. Our alliance with the Illinois Manufacturers' Association and Constellation NewEnergy, North America's leading competitive electricity supplier, provides our membership an invaluable service and opportunity.

Constellation NewEnergy offers free, no obligation price quotes to our members for both electricity and natural gas. As the power of choice spreads across North America, it creates unprecedented opportunities for businesses of all sizes to enhance value by effectively managing energy as a strategic asset. Constellation offers a comprehensive

array of innovative products, pricing and resources to help members purchase and manage their energy. Take advantage of the opportunity to have Constellation customize an optimum solution for your business. To learn more, contact Denise Haggerty at 312-704-8525 or Stan Zielinski at stanz@ilcastmetals.org.



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If you have any questions about the Illinois Cast Metals Association, please contact Stan Zielinski at 217-528-8238, email: stanz@ilcastmetals.org

Website:
www.ilcastmetals.org

Reserve your booth for CastExpo '08

Reserve your booth space today for CastExpo '08, May 17-20, 2008, in Atlanta. Sponsored by the American Foundry Society (AFS) and the North American Die Casting Association (NADCA), CastExpo represents the single largest trade show and exposition in North America for metalcasters and industry suppliers. Held every three years, CastExpo attracts thousands

of decision-making metalcasters from around the world, all of whom are looking for the latest advancements in equipment, technology and services to use in their own facilities.

In addition to the show floor, CastExpo is held in conjunction with the annual Metalcasting Congress, where technical and management papers are presented. The wide variety of

paper topics include ferrous and nonferrous metals, molding, engineering, melting, patternmaking, die casting, lost foam casting, marketing, human resources, and environmental, health and safety. For more information, visit www.castexpo.com or email exhibits@metalcastingcongress.org.

On the lighter side . . .

Many of us spend half our time wishing for things we could have if we didn't spend half the time wishing.

— Alexander Woollcott

SPOTLIGHT

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ered by Ioan Source, turnkey B2B & B2C solutions and System Integration and Network Security solutions.

Our mission is born out of a shared vision. It is our mission to build:

- a formidable ICT organization, the attainment of which demands consistent long-term superior performance on all established criteria;
- an ICT organization with

dedicated focus on its valued customers, to whom it owes its integrity, professionalism and support;

- an ICT organization which provides staff with the opportunity for personal career fulfillment and encourages staff to take calculated risks in their pursuit of excellence, thereby building a deeper confidence, security and pride;
- a market-driven ICT organization, which remains, conscious of

future trends and increasingly sophisticated competition;

- an ICT organization with respect and loyalty for the culture and laws of the land in which it operates, while fulfilling its social responsibility; and
- a dynamic ICT organization with global vision and local insight.

Cast Technologies is a loyal member of ICMA.

Achieve your goals in the New Year

British researchers have found that to achieve goals, men should set specific, concrete goals and women need the support of other people. Of course, both genders need all the help they can get. Interestingly, one in ten actually fulfill goals by the end of the year. These findings were recently reported on National Public Radio.

Whatever your goals are for the New Year, it will be impor-

tant to understand exactly what you need to increase your chances of achieving them. Here are few ideas that work well for different people I have worked with:

- Ask yourself, "What's most important about the goal?" Or "What will achieving the goal give me?"
- Write down your goal and refer to it often.
- Create a vision board or something that is a visual

- representation of your goal.
- Talk about your goal publicly. Do this one-on-one or in a small peer group setting.
- Make a few notes before bedtime. Your mind can be working on your goals while you're sleeping.

One of the most important actions you can take immediately is to determine what you can do NOW to get a fast start on your goals. Commit to making short-term progress.

Create early momentum. Get a fast start to get great results throughout the year!

What action will you take now to make it a great 2008?

Reprinted from "WorkMatters Tips," a free ezine produced by Gayle Lantz featuring tips for leaders and executives who want to grow themselves, their team and their business. Subscribe at www.workmatters.com/signup.

Environmental training included at EHS Conference

Metalcasting safety engineers and management convened in Nashville, Tenn., last October for the American Foundry Society (AFS) 19th Environmental, Health and Safety Conference.

The annual conference covers the newest trends, legislation and technology affecting the environmental, and health and safety standards of the metalcasting industry. Presentations this

year touched on beneficial reuse of metalcasting sand, reducing hazardous air pollutants and emissions, and understanding new OSHA and EPA rules and guidelines. Environmental train-

ing and silica training workshops were held a day prior to the conference. A highlight of the three days was a tour of the General Motors Corvette assembly plant in Bowling Green, Ky.

AMERICAN FOUNDRY SOCIETY UPCOMING EVENTS

Wisconsin Regional Conference, Feb. 7-8
6th International Conference on Permanent Mold Casting of Aluminum, Feb. 11-12
Cast Iron Filling, Feeding & Gating Workshop, March 4-6

Northwest Regional Conference, March 14-15
Government Affairs Conference, April 9-11
CastExpo '08, May 17-20
International Lost Foam Casting Conference, Oct. 23-25

AWARDS

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paint sludge waste by 12.5 percent. The facility's efforts have resulted in an annual savings of \$115,000.

2007 Illinois Sustainable Technology Award winners

Colbert Packaging Corp in Lake Forest developed BlisterGuard and EnviroGuard, which replace the

traditional plastic clamshell commonly used for retail display. Both products are pilfer resistant, use more environmentally friendly material, provide ample space for manufacturers' product branding and are easily recyclable by consumers. These products reduce or eliminate petroleum-based plastics and are printed using soy-based inks.

Crown Cork & Seal Beverage Division in Kankakee improved its spray machines to operate reliably at much lower pressures. A new system also monitors the spray to ensure proper application of the interior can coating. The system has allowed the plant to reduce interior coatings per can and save \$250,000. Hazardous emissions have been reduced by

22.5 tons.

Information on the Governor's Pollution Prevention Awards program and technical assistance on pollution prevention and energy efficiency are available from the Waste Management and Research Center, One Hazelwood Drive, Champaign, IL 61820, phone 217/333-8940, <http://www.wmrc.uiuc.edu>.

The ICMA Runner is published quarterly for ICMA members by the Illinois Cast Metals Association, 220 East Adams Street, Springfield, Illinois 62701.
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