

FOUNDRY SAND RECYCLING FORUM

Foundry Sand in Infrastructure Applications

Who should attend?

- ◆ *Contractors*
- ◆ *Public Works officials*
- ◆ *Municipal & state highway engineers*
- ◆ *Consulting engineers*
- ◆ *Environmental professionals*
- ◆ *Recycling & Economic Development officials*
- ◆ *Foundry managers*
- ◆ *Other interested stakeholders*

FOUNDRY SAND RECYCLING FORUM

October 31, 2007
10:00 AM–5:00 PM

U.S. EPA Region 5 Offices
77 West Jackson Blvd.
Chicago, IL 60604

Register at:
<http://www.foundryrecycling.org>

Foundry sand is a manufactured structural sand used as a molding medium in the metalcasting process. U.S. foundries recycle sand internally, but must discard millions of tons of unusable sand annually, which then become locally available aggregate resources.

Foundry sand is considered a priority material by FHWA and EPA's Resource Conservation Challenge, which are partners in The Construction Initiative, an effort to increase the recycling of discarded industrial materials. Building with foundry sands can help your community or state achieve its overall recycling and reuse goals.

This workshop will focus on using foundry sand in specific infrastructure applications, including:

- Hot Mix Asphalt
- Controlled Low Strength Material
- Bases and Subgrades
- Structural Fills, Embankments and Retaining Structures

Civil engineering issues such as index properties, design guidelines, testing requirements and specifications will be described for each application, along with case studies and environmental assessments.



WORKSHOP SPONSORS:

Recycled Materials Resource Center
Federal Highway Administration
U.S. Environmental Protection Agency
Foundry Industry Recycling Starts Today



FOUNDRY SAND RECYCLING FORUM

Foundry Sand in Infrastructure Applications

Wednesday, October 31, 2007

- 10:00–10:15 AM **Welcome and Introductions**
Gary White, Operations Manager, Resource Center,
Federal Highway Administration, U.S. DOT
Lillian Bagus, Director, Municipal and Industrial Solid
Waste Division, U.S. EPA Headquarters
- 10:15–11:00 AM **Foundry Sand Fundamentals**—An overview of foundry
sand characteristics, handling and business issues
Dirk Hudson, Kohler Company
- 11:00–11:30 AM **Bound Applications – Hot Mix Asphalt**
Dr. Hussain Bahia, University of Wisconsin
Asphalt Research Program
- 11:30 AM–Noon **Bound Applications – Controlled Low Strength Material**
Dr. Tuncer Edil, University of Wisconsin
- Noon–1:30 PM **Working Lunch** –
Presentation of a variety of foundry sand case studies
Mike Ruetten, P.E., STS Consultants
- 1:30–2:30 PM **Unbound Pavement Applications: Bases and Subgrades**
Dr. Tuncer Edil, University of Wisconsin
- 2:30–3:00 PM Break
- 3:00–4:00 PM **Unbound Geotechnical Applications: Structural Fills/
Embankments/Retaining Structures**
Dr. Craig Benson, University of Wisconsin,
Co-Director, Recycled Materials Resource Center
- 4:00–5:00 PM **Environmental Evaluation** – Environmental profiles of
foundry sands relative to other construction materials
Dr. Craig Benson, Recycled Materials Resource Center

Thursday, November 1, 2007

- 8:30 –11:30 AM **Roundtables** – For highway engineers, environmental agency
officials and end user industry partners also attending the
Nov. 1-2 Asphalt Shingle Recycling Forum. Facilitators will pro-
vide the opportunity to discuss policies, successes, failures,
challenges, and informational or research needs in informal
peer group settings.

For more information, visit <http://www.shinglerecycling.org>

FOUNDRY SAND RECYCLING FORUM

October 31, 2007
10:00 AM–5:00 PM

U.S. EPA Region 5 Offices
77 West Jackson Blvd.
Chicago, IL 60604

Register at:
<http://www.foundryrecycling.org>