With spring around the corner and the worst of winter in the past, the NSA Committee made their way to beautiful Las Vegas which at the time was hosting the Con/Agg Exposition. This was the first meeting of 2011 and with the change of the seasons so to came change within the organization. Malcom Dunbar announced he would be stepping down as Committee Co-Chair but vowed to stay active within the organization. Dennis Chambers also stepped down as purchasing chair and handed his responsibilities over to Debbie Zawatski.

Among the items on the agenda was a presentation by Komatsu. Jenkins Davis and Les Scott took the time to introduce their newest addition, the first Steel Mill Special Komatsu loader. They proudly showed off what they called the culmination of hard work, great feedback and solid engineering. They then fielded questions from different committee members. Levy’s Charleston Mill is in the midst of trialing this very same loader at their site, with hopes of great success. The meeting continued with more great ideas being presented, including a two way camera that among other things, assists in training efforts by allowing the video to be saved, downloaded and played back for review with the operator. The issue of overfilled slag pots was closed as it was decided that the NSA would not be responsible for establishing a set of guidelines. Rather they would leave it up to each company to determine the safest possible way to handle these overfilled pots.

After the break Dennis Chambers spoke on what he called the importance of Active Members and Allied Members working closely together to accomplish a common goal. With that Debbie Zawatski of Tube City IMS spoke towards the goals of the Purchasing Committee. Those goals were; getting more participation, developing a recognition program for Allied Members and striving to be more conservative with energy!

With over fifty members in attendance, the Spring meeting in Las Vegas proved to be a success. The committee wants to thank Komatsu for hosting the meeting and we look forward to seeing everyone in Sept down in Pensacola!

“Our Industry in support of the Environment”

SeaTac Steel Mill and Recycling Services, a subsidiary of the Edw. C. Levy Co., of Detroit, is the first slag processor in the steel industry that has been approved for participation in the Voluntary Protection Program (VPP) which recognizes a commitment to safety and health by Washington State’s Department of Labor and Industries (WSDLI).

VPP is a program of the federal Occupation Safety and Health Administration (OSHA) but in Washington State is administered by the Department of Labor and Industries. To participate in VPP companies must have an excellent safety record.

“We are extremely proud of this recognition,” John Guydan, Vice President of Steelmaking Services. “For the Edw. C. Levy Co. and all of its operations, safety always has been and always will be an important value. We are delighted that WSDLI has recognized all our efforts and we are grateful for this honor.”
**INDUSTRY NEWS**

**Phoenix Services Blast Furnace Slag Used By USNA in 2011 Concrete Canoe**

The United States Naval Academy Engineering Department has been participating in the ASCE Concrete Canoe competition for the last three years. Each year they have made dramatic improvements in their results by implementing new construction practices, team organization, and by experimenting with new materials. This year was the first year that the USNA team has used blast furnace slag coarse aggregate, which performed well for them and resulted in their best performing boat to date.

The USNA’s canoe “Fat Albert” is named after the C-130 Hercules cargo plane that accompanies the Navy’s prestigious flight demonstration team, the Blue Angels. The canoe’s color scheme and design resembles Fat Albert.

The engineers have even incorporated crushed blue glass into the mix design that adds a blue shine to the hull of the canoe which resembles the paint on the famous –C130.

This year’s competition required the use of more recycled materials in the construction of the canoes. By using blast furnace slag #8 produced by Phoenix Service’s Sparrows Point plant, along with fly ash, and crushed glass the team was able to have 100% percent of their aggregates be recycled materials.

**FAT ALBERT Specifications**

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<thead>
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<tbody>
<tr>
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</table>

The slag aggregate made the final mix design harder and the canoe lighter than those in past years. In a compression test the cylinder broke at 1,600 psi after only seven days while the cylinder containing the other aggregates used in the project broke at 1,000 psi after 28 days.

**John Yzenas Inducted into IMAA Hall of Fame!**

John Yzenas, Director of Technical Services for Edw. C. Levy Company, has been recognized as a Fellow of ASTM and awarded the ASTM Award of Merit. ASTM International, formerly known as the American Society for Testing and Materials, is a globally recognized leader in the development and delivery of international voluntary consensus standards. The Award of Merit was established in 1949 by the ASTM International Board of Directors and is the highest society award granted to an individual member for distinguished service and outstanding participation in ASTM International activities. Recipients also receive the honorary title of Fellow.

**John Yzenas: A “Fellow” of ASTM**

John Yzenas, Edw. C. Levy, in the center with Roger Stoller, ASTM International Chairman of the Board for 2010 on the left and Frank Fee, current Chairman of ASTM Committee D04.
AISI Enters Into Research Agreement With Johns Hopkins University to Advance Cold-Formed Steel Building Design

WASHINGTON, D.C., May 27, 2011 – The American Iron and Steel Institute (AISI) has entered into an agreement with researchers at Johns Hopkins University (JHU) to develop the next iteration in the Direct Strength Method (DSM) for cold-formed steel (CFS) members, an important step for cold-formed steel building design. In its current form, the Direct Strength Method only applies to beams and columns, but is not applicable to beam-columns. The Metal Building Manufacturers Association (MBMA) is providing co-funding for the project.

The research will be conducted under the direction of Professor Benjamin Schafer, Ph.D., P.E., chairman of the Department of Civil Engineering at the Johns Hopkins University and a nationally recognized innovator in cold-formed steel design. The research will be conducted from April 1, 2011 through March 31, 2012.

“This research project is part of a long-term industry ‘road map’ to develop the Direct Strength Method,” Jay Larson, P.E., F. ASCE, managing director of AISI’s Construction Technical Program, said. “Its end result will be the development of a method for handling beam-columns and a finite element verification of the method. It will allow more comprehensive provisions to be included in AISI’s S100 Appendix I, expanding the use of the Direct Strength Method and making it easier for building designers to choose steel for their projects.” Larson said that the Direct Strength Method was first adopted as Appendix I in the 2004 Supplement to the *AISI North American Specification for the Design of Cold-Formed Steel Structural Members* (AISI S100).

The research results will have long-lasting, positive impacts as beam-column design is brought up to modern standards. The industry will be able to optimize sections for the actual loading that they are expected to encounter, resulting in lighter, more efficient sections that can be tailored for their expected uses. Engineers will gain a better understanding of the CFS members’ relevant behavior, more transparent use of fundamental mechanics, and improved reliability. All of these factors translate to allowing cold-formed steel to be designed, specified and built in a greater number of applications with greater confidence by engineers and building owners.

The Direct Strength Method was developed by AISI’s Committee on Specifications, and is more robust and flexible than the traditional Effective Width Method. An AISI Design Guide on the Direct Strength Method was published in 2006. The Direct Strength Method is now integrated into several commercially available software programs.

AISI’s codes and standards work is conducted under the Construction Market Council of the Steel Market Development Institute (SMDI), a business unit of AISI, which oversees the industry's investment in advancing the competitive use of steel by meeting the demands of the marketplace. For more information on SMDI’s Construction Market program, visit www.smdisteel.org.

AISI serves as the voice of the North American steel industry in the public policy arena and advances the case for steel in the marketplace as the preferred material of choice. AISI also plays a lead role in the development and application of new steels and steelmaking technology. AISI is comprised of 25 member companies, including integrated and electric furnace steelmakers, and 118 associate and affiliate members who are suppliers to or customers of the steel industry. AISI's member companies represent approximately 80 percent of both U.S. and North American steel capacity. For more news about steel and its applications, view AISI’s website at www.steel.org.
June 2011
Committee Corner

Technical Update
The Technical Committee held in May was well attended with 20 participants.

Craig Heidrich, ASA Executive Director, gave a presentation reviewing current projects, issues and environmental regulations pertaining to ASA.

Several work items have been completed and submitted to the webmaster and should be posted on the NSA website by the end of September. These include:

- The Environmental Benefits and Sustainability of Slag prepared by Charles Ochola.
- The Engineer’s Guide prepared by John Yzenas.
- Links to the State DOT’s were reviewed and updated by Rich Lehman and John Olle.

Some of the research projects that are currently in progress include:

- A study to quantify the available alkali and sulfur that ACBF slag contributes to concrete.
- Continued work on the FHWA best practices for blast furnace slag in concrete.
- A study on the recommended addition rates of GGBFS for remediation.
- A study to verify the effect of stockpile watering on concrete.

New members and suggestions for future goals and objectives would be welcomed by the Technical Committee.

Thank to everyone for your support!

Purchasing Update
With the annual meeting behind us, the Purchasing Committee looks forward to a new year of commitment to further growth in Allied membership, and cost saving projects for the Plant Operators Committee. As a historical note, it was always the goal of the Purchasing Committee to be a “research” team for the Plant Operators Committee – for example “we need more participation from the Allied Members”, “we need more Allied members”, or “we need to cut our RM&O costs.” The Purchasing Committee would then pursue solution to the challenge on behalf of the Plant Operators Committee.

The committee discussed and finalized goals for the committee for 2011:

1. ENERGY CONSERVATION PROJECT OR OTHER TYPE OF ENERGY SAVINGS IDEA.
2. INCREASE ACTIVE & ALLIED MEMBER INVOLVEMENT
3. CREATE AWARD FOR OUTSTANDING ALLIED MEMBER COMPANY

In our continued efforts to attract new members we also intend to update the Allied Member brochure this summer.

With the coming of a new year and new challenges comes a new leader for the Purchasing Committee, Debbie Zawatski with Tube City/IMS. We welcome her willingness to take on the leadership of the purchasing committee and look forward to working with her.

Safety Update

Distracted Driving
As we begin the summer season, just a few statistics to consider as you drive the highways.

There are three classifications of distracted driving:

VISUAL: taking your eyes off the road
ANNUAL: taking your hands off the wheel
COGNITIVE: taking your mind off the task of driving.

While there are many types or variations of distracted driving, TEXTING is the most dangerous because it incorporates all three of the above classifications.

Some additional points on distracted driving:

20% of INJURY crashes in 2009 involved reports of distracted driving. (NHTSA)
18% of FATALITIES in DISTRACTION RELATED crashes involved reports of cell phone use as a distraction. (NHTSA)
Drivers using a handheld device are FOUR (4) times more likely to be involved in a vehicle crash that is serious enough to injure themselves. (Insurance Institute for Highway Safety)

So whether driving for business purposes or on your family vacation, stay focused on the task of driving.

Have a safe summer!
Committee Corner

**Marketing Update**

The Marketing Committee Meeting held May 4 at the offices of the Edw. C. Levy Company in Detroit, MI was well attended with 18 members present to participate. The meeting was chaired by Tim Stanfield, Tube City / IMS.

A report on the status of the 2011 Goals & Objectives was made and discussed.

- Tim Stanfield reported that the steel map was going well and would be completed by the Annual Meeting in September. The map will include all active plants in the US and Canada. A list is being provided to all members for their review to insure it is correct. The final list will be incorporated into the processors list created by Rich Lehman and added to the NSA Website.
- Mike Moses has joined the committee and will take over as Co-Chairman for Tim Stanfield who will be stepping down following the Annual Meeting in September. Mike will take over the process of getting Success Stories into a suitable format for submission for publication in industry periodicals.
- Current and past success stories are being reviewed to see which can be turned into a case study format with the detail necessary to make them more current and useable.
- The University Educational Seminar Program was reviewed and suggestions made to put the Engineering Guide into that program on the website. The next program to be developed for the program will focus on Acid Mine Drainage with Charles Ochola and John Murphy working together on that topic.
- The NSA website was reviewed by Karen Kiggins and Rich Lehman. Cameron Frost and Michael Pelletier of Edw. C. Levy have taken over as Webmaster for NSA.
- A request for help in drafting articles for the Slag Runner was made to the assembled group and a number of individuals from various companies agreed to submit articles to John Murphy on a quarterly basis.
- A discussion was held concerning the future direction of the Marketing Committee and a suggestion made that NSA should sponsor local Engineering Conferences. The suggestion was also made that member companies should send their safety awards to their local steel mills to make them aware of our commitment to safety.

Thanks to everyone for their attendance and active participation!

**Environmental Update**

On May 5, 2011, the Environmental Committee met in Detroit Michigan. The primary topics of discussion were the update of the Human Health Risk Assessment, and slag marketing issues in Pennsylvania.

The Human Health Risk Assessment update is on the final stretch, with a planned completion date of August 2011. Comments from NSA, SMA and AISI member companies were reviewed at our meeting in Detroit.

The second primary topic of discussion at our meeting was slag marketing issues in the state of Pennsylvania. Led by Charles Ochola and John Yzenas, a small NSA task force has been working closely with the U.S. Steel Company to resolve technical misconceptions retained at the Pennsylvania Dept. of Transportation. An outside testing laboratory Bowser Morner has been engaged in physical testing and the preparation of a report that shows the viability of utilizing slag as a construction aggregate. U.S. Steel has taken a leading role in removing these marketing barriers in Pennsylvania. In addition to addressing the technical issues, USS is also pursuing a political resolution in tandem with ongoing efforts.

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TMS International Corp. Becomes Publicly Traded Company on NYSE

TMS International Corp., the parent company of Tube City IMS Corporation, a leading provider of products and services to steel mills and foundries globally, became a publicly traded company on April 14, 2011.

The shares are traded on the New York Stock Exchange under the trading symbol "TMS."

TMS International Corp., through its subsidiaries, including Tube City IMS Corporation, is the largest provider of outsourced industrial services to steel mills in North America as measured by revenue and has a substantial and growing international presence. The Company provides services at 74 customer sites in nine countries and operates a global raw materials procurement network spanning five continents. The Company is headquartered in Glassport, PA.
Chairman Elect Guydan Making the Rounds in Washington

On May 10, 2011, John Guydan, Karen Kiggins, and Rich Lehman made Legislative visits in the House of Representatives in Washington DC. The purpose of the visits was to introduce the National Slag Association to these members with steel-making operations in their Districts. The delegation discussed the important role the slag industry has in the production of iron and steel. They also discussed the issues of barriers to beneficial use at the state and local levels and the need to remove slag from its solid waste classification to that of a product or co-product. Besides Rep. Visclosky, the group met with the Congressman and/or staffs of the following representatives: Rep. Rokita (R-IN); Rep Renacci (R-OH); Rep Miller (R-MI); Rep Donnelley (D-IN); Rep Stutzman (R-IN); and Rep Clarke (D-MI).

The group was well received in each of the offices. After educating the legislators and staff on our industry and issues, there was a commitment to work with us in the future. Rich Lehman has already begun to work with these new friends of the National Slag Association. Another future step is to invite the representatives and their staffs to tour slag processing plants. This gives them the opportunity to understand our industry first hand and meet some of their constituents that work in our operations.

John Guydan said that it is important for the members of the National Slag Association to get involved in the legislative process. John said, “I found the visits very interesting and encourage all members of the NSA to meet their representatives at both the State and Federal levels of Government.” Knowing your legislator and working with them to improve our industry will help make our industry a stronger partner to our steel-making customers.

Rich Lehman, representing the National Slag Association, attended the NASTC Conference. This was a discussion of North American Infrastructure with representation and speakers from Canada, Mexico, and the United States. The focus was on transportation infrastructure and its importance to trade between these very large trading partners and the competitiveness of the geographic area with the rest of the world.

Below is a summary from the American Society of Civil Engineers from their report card on America’s Infrastructure that outlines the problem in the United States and several key statistics on infrastructure investment. Following these comments is the press release that was issued following the conference. The individual presentations are available at http://www.nastc.org/files/infrastructure2011/NASTC_Infrastructure_Presentations.pdf

America needs to invest $2.2 Trillion in Infrastructure over the next five years. Only $1.1 Trillion is planned at all levels of government.

American Society of Civil Engineers Five Key Solutions to Rebuilding America’s Infrastructure

1. Increase federal leadership
2. Promote sustainability & resilience
3. Develop national, regional and state infrastructure plans
4. Address life-cycle costs
5. Increase & improve investment from all stakeholders

Infrastructure Investment creates 30,000 – 34,000 jobs for each $1 billion invested. Meeting the additional $1.1 trillion need could create 6,000,000 new high paying jobs in the USA. Mexico is investing 5% of GDP in infrastructure, China 8-14% of GDP, and the US is investing 2.4% in infrastructure. On a worldwide basis, the US ranks 23 in the quality of their infrastructure.
The following article was written by Scott Hunter, author of Unshackled leadership. Mr. Hunter will be a guest speaker at the upcoming NSA Annual Meeting in September.

“What if everything is perfect?”

What if everything is perfect? What if everything that happens, everything that has happened, and everything that will happen is exactly what had to happen, is happening and needs to happen for your benefit?

Now I’m not asking you to take this on as “the truth,” even though it might be. I’m asking you to take this on for your benefit, as something that will empower you as you move forward in your position as a leader in your organization and in your life. Because to not take this on, what you don’t realize is that you turn yourself into a victim. And I must say that being a victim is a very popular game. Don’t take responsibility; it’s always something or someone else doing it to you. It’s never your fault. You’re just this helpless weather vane in the wind of life. Sound familiar?

Here’s why it’s empowering to act as if everything is perfect: because then you will learn and grow from the experiences of life and constantly become more of who you could be. And, I assert, becoming more of who you could be is exactly what you want to use this life for.

How does this work? First you have to start from the proposition that life and business is not about winning or losing. Rather, it's about winning or having learning experiences. So you look at everything either as a win, in which case you celebrate the win and learn how to continue winning, or as a learning experience, not a win, in which case you also learn how to do a better job next time so that you increase the likelihood of winning. Either way, you win.

Here’s a common example: you have a conversation with someone and it doesn’t go very well, maybe it actually turns into an argument, maybe you leave with your feelings hurt, whatever. From the perspective of a victim, you blame the other, they blame you, you dig deeper into your position and you plan your next attack.

But if you look from the perspective of perfection, you look to see what went wrong in the conversation, how come it turned into an argument, what you did to contribute to that, what you could do in the future so that things like that don’t happen again, and you even look to see that maybe you need to apologize to the other and get the conversation cleaned up.

Trust me on this one and give it a try. You will discover a power within yourself that you didn't know was there if you look at everything as perfect and take responsibility for it all. Have a great week.

Scott Hunter is a professional speaker, workshop leader, consultant and business coach. His work involves transforming the thinking of management to a paradigm of faith, trust, possibility and abundance to increase productivity, creativity, teamwork and profitability. He is the author of the ground-breaking book, Unshackled Leadership. He can be reached at scott@thpalliance.com or visit his web site at www.unshackledleadership.com.
**WELCOME NEW MEMBERS...**

*Beemsterboer Slag Corporation has become the newest active producer member of NSA.* The Beemsterboer Slag Corporation performs many industrial services, which include Crushing and Screening, Mill Services, Conveying and Transloading, Local Trucking and Equipment Rental. They have multiple offices in the Northwest Indiana and Chicagoland region, with their main office located in Hammond, IN.

The company is committed to being very active in NSA with Steve Beemsterboer becoming the newest member of the Board of Directors.

*NSA welcomes Komatsu as our latest new Allied Member.* Komatsu is a World leader in the manufacture and sale of construction and mining equipment, utilities, forest machines, and industrial machinery. Their North American Headquarters is located in Rolling Meadows, IL and a dealer network that covers the United States and Canada.

Contacts: Jenkins Davis
Scott Leslie
Telephone: 847-437-4355

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**Spotlight On Allied Member Company**

*Major Wire Industries* had a very active display of its multiple innovative screen media solutions at CONEXPO-CON/AGG 2011. Celebrating more than 125 years in business, *Major Wire Industries Limited* designs, manufactures and markets screening solutions and specialty screen media for the quarry, mining, recycling and industrial markets. The company offers many uniquely different screen media options to choose from so customers can fine tune each screen’s production resulting in the most tons per hour of in-spec products for the least cost possible.

*Flex-Mat® 3* High-Performance, Self-Cleaning screen media in Tensioned and Modular versions will be of interest to slag producer members, along with *OptimumWire® Woven Wire* and *LFM™ Harp Wire*, both with the industry’s longest wear life, *Double-Weave™ Woven Wire* and *Flex-Mat 3 Double-Wire™* for the greatest impact resistance and *HyperSlot™* for warm and hot mix asphalt and other sticky material applications.

Major Wire is ISO 9001:2008 registered. For more information, contact *Major Wire Industries Limited*, 225 North Montcalm Blvd., Candiac, Québec, Canada J5R 3L6; telephone: 450.659.7681; fax: 450.659.5570; e-mail major@majorwire.cc or visit its website at www.majorwire.cc.
You are cordially invited to the 2011 NSA Annual Marketing; Technical; Environmental; Plant Operators; Safety & Purchasing Committee Meetings to be held at the Hilton Pensacola Beach Gulf Front in Pensacola Beach, FL.

**Schedule**

- **Monday, September 26th**
  - 1:00 pm – 5:00 pm Committee Meetings
  - 6:30 pm to 8:30 pm Welcome Reception
  - Highlighting Allied Members

- **Tuesday, September 27th**
  - 8:00 am - 12:00 pm General Conference
  - 6:00 pm – 8:00 pm Hospitality by the Pool

- **Wednesday, September 28th**
  - 8:00 am - 12:00 pm – General Conference
  - 6:30 pm - 7:30 pm Cocktail Hour
  - 7:30 pm – 9:30 pm Safety Banquet & Safety Awards

- **Thursday, September 28th**
  - 8:00 am - 10:00 am Committee & Legislative Update
  - 10:00 am - 12:00 pm Board of Directors Meeting

Dress is business casual for meetings

Banquet - Coat & Tie (tie optional)

**Hotel Accommodations**

**Hilton Pensacola Beach Gulf Front**
12 Via de Luna Drive
Pensacola Beach, FL
United States, 32561

Please make your own room reservations. Group code is NSA and reservations can be made at 1-866-916-2999 Group Reservations or [www.pensacolabeachgulffront.hilton.com](http://www.pensacolabeachgulffront.hilton.com)

Rates:
- Soundside Hotel Room $129
- Gulf Front Hotel Room $149
- 1 Bedroom Tower Suite $179
- 2 Bedroom Tower Suite $229
- 3 Bedroom Tower Suite $279

plus Tax and SRIA Fees (14.55% subject to change)

Deadline for room block is **August 29, 2011**

**Meeting Charges**

Please Note:
In past years meeting charges have been assessed after the meeting and invoiced to your company.

For 2011 the Board has elected to collect registration fees before the meeting. Registration fees are as follows:

- NSA Member $550
- Non-Member $650
- Significant Others $150 (Reception & Banquet)

Payment can be made by credit card or check

Register on-line: [https://www.regonline.com/nsa2011annualmeeting](https://www.regonline.com/nsa2011annualmeeting)

- Independent cancelation insurance can be purchased for $20 with on-line registration
Harsco Asphalt Road in Australia

The first slag asphalt road has been laid in the City of Port Phillip, South Melbourne (Australia), as part of Victoria state’s environmental policy to use more recycled materials in building and infrastructure projects. It is expected further sections will be laid in coming weeks in the City Area, with plans to install sections in some major freeway and infrastructure projects, such as the M80 ring road upgrade. The project involved significant testing of materials and liaison with key stakeholders such as the State Highways authority (VicRoads) and the steel mill.

Dan Cartwright, Harsco Metals Business Development and Technical Manager said: “The key to the project has been doing the hard work of testing the materials to prove the benefits of EAF EAF slag in asphalt. Initial performance tests in Victoria provided excellent results, giving confidence to the local councils and approval bodies, backed by a major ANZ infrastructure group. We could also call on the group knowledge of Harsco in developing slag road making projects in other countries. Going forwards, we hope other opportunities will come to fruition in Australia, when further trial sections and comprehensive utilization projects planned in the coming months”.

Dear NSA Members,

We want to thank Committee Members and Committee Chairmen for their on-going support and participation in the National Slag Association. You have heard me say, NSA Committees are the heart and soul of the Association, and they truly are. These hardworking individuals and their respective companies deserve acknowledgement for their on-going commitment in promoting slag utilization through technical and marketing initiatives; education; environmental awareness, plant operation innovations; allied alliance; safety awareness and materials management. Our NSA Committee Chairmen are exceptional leaders who exemplify the true meaning of selfless voluntary service to the industry.

Rich Lehman, NSA Legislative Consultant, recently asked NSA Members for help in starting a grass roots effort by reaching out to your Congressmen. Congress will be on summer recess for five weeks starting the second week in August. This is an opportune time to invite your Congressmen to visit your plant sites and steel mills. The need to build relationships with Members of Congress to encourage and emphasis the need for authorization of a fully funded transportation bill in support of industry and jobs is more important than ever in the current economy. We encourage you and your company to join in this grass roots effort.

Kind regards,
Karen Kiggins
President
National Slag Association

UPCOMING MEETINGS:

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<td>Sept 26-29, 2011</td>
<td>Pensacola, FL</td>
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<tr>
<td>Global Slag</td>
<td>Nov 17-18, 2011</td>
<td>Helsinki, Finland</td>
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<td>ASTM</td>
<td>Dec. 5-10, 2010</td>
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<tr>
<td>TRB</td>
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