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Mission:
To support research
and educational pro-
grams that will in-
crease professionalism
and quality in the
concrete industry



Concrete Groups Join Sustainability Initiative

The RMC Research & Education Foundation funded an effort started by ACI's Strategic Development Council to develop a Sustainability Vision Roadmap for the concrete industry. The effort was the genesis for what has now become the Joint Sustainability Initiative. As part of this initiative, the following Joint Declaration of Industry Vision has been developed and signed by most major concrete industry organizations. Each organization will play their role in embracing the sustainability initiative within the context of their own respective missions and capabilities.

For many decades our industry has thought and acted as fragmented segments. This approach can no longer lead us to a better future. We therefore declare that 'Concrete Structures' are the core of our industry identity, which include all vertical and horizontal applications and concrete products.

Until now this fragmentation has led us to overemphasize component thinking as opposed to integrated systems thinking. We therefore declare that Concrete Structures are at the center of an integrated approach to addressing industry challenges.

During our century plus industry history we have taken for granted that Society acknowledges the value of our endeavors. However we can no longer rest on this assumption. We therefore declare that we will proactively communicate and continuously enhance the 'Social Value' of Concrete Structures.

In the narrowness of component-based thinking, both Society and we often neglect and understate the value provided by Concrete Structures. We therefore declare that our integrated thinking will focus on the following Social Values provided by Concrete Structures:

- **Resource Efficiency:** Concrete Structures over their lifecycle are efficient users of energy, water, land and other resources
- **Safety/Protection:** Concrete Structures provide a superior level of user safety, protection and peace of mind.
- **Financial Responsibility:** Concrete Structures provide economic advantage both from a total cost of ownership perspective and from greater local content benefit to communities.
- **Operational Continuity:** Concrete Structures offer greater disaster resistance, protecting essential community services and business continuity.
- **Longevity/Durability:** Concrete Structures outlast the useful lives of other structures with minimal maintenance and repair.
- **Byproducts Reduction:** Concrete Structures over their lifecycle produce a reduced level of byproducts (including CO₂), use the byproducts of other activities and can ultimately be recycled themselves.
- **Esthetics:** Concrete Structures can be designed to create esthetic quality for both users and their surroundings.
- **Societal Connectivity:** Concrete Structures provide the essential links (roads, bridges, ports, utility infrastructure etc) that enable Society to function safely and efficiently, and prosper financially.

In the course of our fragmented history we have not used our limited industry resources in the most

effective way, with resulting duplication, cross-purpose and sometimes gaps in our actions. We therefore declare that we will review our priorities and activities, coordinate to align our respective programs and projects, and leverage on the particular strengths and expertise of each organization to pursue an integrated focus on Concrete Structures.

Our industry has consistently pursued a direction of continuous improvement even though this has been evolutionary and component based. We therefore declare that we will persistently drive continuous improvement at component and integrated levels to enhance the Social Value of Concrete Structures.

We recognize that in order to benefit from using Concrete Structures all stakeholders must be informed. We therefore declare that we will provide advocacy, technical and educational resources as appropriate to enhance the use and convey the benefits of Concrete Structures to others.

We realize that this thinking and corresponding action is overdue and that pressing challenges require we catch-up quickly. We therefore declare that time is of the essence and we will pursue mechanisms and approaches that may diverge from business-as-usual to aim for expedited results.

We acknowledge the need to engage and embrace input from all segments in adapting this thinking throughout our industry. We therefore declare we will maintain open channels to welcome, involve and engage all industry segments in becoming part of this direction.



Did you know:

- That the Foundation plans to hold its annual fundraising Golf Tournament in 2010? Please consider earmarking your participation, either as a player, sponsor, or both as you prepare your 2010 budgets.

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Legacy

The Newsletter of the RMC Research & Education Foundation

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August 2009

From the Chairman

I am pleased to report that the Foundation remains very active in a variety of initiatives and projects this summer.

You may have heard that the United States Green Building Council recently revised their Leadership in Energy and Environmental Design (LEED) program. On page two, you can read about the Foundation's efforts, working in conjunction with NRMCA, to revise our popular LEED Guide. Also on page two, learn about two new projects recently approved for funding by the Board. The Board has always been very judicious about the projects it selects for funding, and in light of the economic times the Board has added the requirement that projects should have a sense of urgency in order to be funded this year. The Trustees felt that these two new projects met that criterion.

The Foundation's research continues to receive broad exposure as evidenced by the many requests we've gotten for our materials, particularly the popular sustainability and P2P CDs. The exposure also extends to two organizations outside of the construction industry that have requested our information. Read more about these items on page two.

If you are unable to make a new financial commitment to support the RMC Research & Education Foundation right now, there are still several ways in which you can help support the Foundation's mission. Please check out page three for those details. Page three also details the Foundation's plan for showcasing its work at NRMCA's upcoming ConcreteWorks Conference.

Sustainable development initiatives remain a top priority of the construction industry, and especially of the concrete industry. In an effort to work together in a cohesive way, many concrete organizations have banded together to sign a Joint Sustainability Initiative. You may read that initiative in its entirety on the back page.

Below please read about three new Trustees elected to fulfill unexpired terms. I would like to personally thank outgoing Trustees Ronald Davis, David Nepereny and Greg Sheardown for their service on the Board and commitment to the organization.

We are very excited about some of the projects we will unveil over the next several months and none of it would be possible without your continued support. Thank you and I hope you enjoy this edition of Legacy.

Regards,
Karl Watson, Jr.
Chairman



New Trustees Elected to Board

Due to vacancies, the Foundation's Board of Trustees recently elected three new members.

Mr. R. Frank Craddock with Cemex, Inc., who previously served on the Board as an Ex Officio member, was elected to

fill the seat vacated by Mr. Ron Davis with IMI.

Mr. Raymond Seipp with Buzzi Unicem USA, Inc. was elected to fill the seat held by his Buzzi Unicem colleague Mr. David Nepereny.

Mr. William Wagner with

Lafarge has replaced Mr. Greg Sheardown, also with Lafarge, on the Board of Trustees.

We would like to thank Mssrs. Davis, Nepereny and Sheardown for their service to the RMC Research & Education Foundation and wish them well.

Changes to LEED Program Necessitates Update for LEED Guide

Earlier this year, the United States Green Building Council (USGBC) unveiled changes to their Leadership in Energy and Environmental Design (LEED) green building program. The new version, known as LEED 2009, incorporates several changes, some of which affect how concrete may contribute to the gaining of LEED points in projects. The Foundation is working with NRMCA staff to update our popular *Ready Mixed Concrete Industry LEED Reference Guide* to incorporate new information regarding LEED 2009. The revised LEED Guide should be available this fall.

It is important to note that LEED projects that commenced prior to LEED 2009's adoption will still move forward under the old LEED 2.2 guidelines so the Foundation's current LEED Guide remains relevant for those projects.

Until the revised LEED Guide is available, a document detailing pertinent LEED 2009 changes is available from the Foundation on the Environment, Health & Safety Track page from our website, as part of the LEED Guide section.

NRMCA also offers additional LEED resources, as well as hardcopies of the LEED Guide for a nominal fee. For more information, please visit www.nrmca.org.

New Projects Recently Approved by Trustees

This summer the Foundation's Board of Trustees approved funding for two projects deemed vital to the industry by the Advisory Council and Program Committee.

The first project is an Examination of the Effect of Potassium Acetate on Concrete Durability. The Portland Cement Association (PCA) requested that the Foundation partner with them on this project, which will identify specific causes and effects of potassium acetate's impact on concrete as it is increasingly being used at airports and on bridges. The potential for pavement deterioration through the

use of potassium acetate is a great concern so the industry is being proactive in examining this issue through research at Michigan Technological University and the University of Toronto.

The second project will help to fund the development of Industry Foundation Classes (IFCs) for Structural Concrete Components. IFCs are the standard protocols to exchange electronic data between software systems used in Building Information Modeling (BIM). As BIMs become more popular with owners and developers, it will be important for the cast-in-place concrete community to provide standard

IFCs for use in these software programs. The precast concrete industry has started the same process and some of the work done there may be borrowed in order to move forward quickly. This project will be co-funded by the RMC Research & Education Foundation and the Charles Pankow Foundation, which is also helping to fund the development of IFCs for precast concrete. The project is being spearheaded by the American Concrete Institute's Strategic Development Council.

For more information about these projects, please visit our website.

Foundation Gains High Profile with Important Groups

Recently, the Make it Right Foundation, based in New Orleans and started by Brad Pitt to help rebuild the 9th Ward in the aftermath of Hurricane Katrina, recently contacted the Foundation to receive a copy of the "Research Supporting Sustainable Development" CD and the Hurricane Katrina Study. Additionally, the website www.smart2begreen.com added the Foundation's website to a list of resources available and featured our work on a "Tip of the Day" page. These two notable items demonstrate how other organizations outside of the traditional concrete and construction industries are utilizing Foundation's work.

Specifiers, Engineers, Architects Seek Foundation Materials

Through frequent exposure in the magazine *Governance Engineering* and other publications in print and online, the work of the RMC Research & Education Foundation is increasingly being requested by specifiers, engineers and architects around the country. Interest has been particularly heavy for the Foundation's "Research Supporting Sustainable De-

velopment" deliverables CD and previous concrete research reports. Distribution of the Sustainability CD has now reached almost 4,000 copies, including several international requests.

Interest also remains high for the Foundation's "Research to Support the P2P Initiative" deliverables CD as well. As more people become aware of the bene-

fits of utilizing performance specifications, as well as the associated cost savings and enhanced performance, more people are requesting these materials.

Most of the materials on these two CDs are also available for download individually from the Foundation's website. They are also available in hardcopy format from Foundation staff.

Creative Ways to Support the Foundation

Donors to the RMC Research & Education Foundation are the backbone of our support and the reason behind our great success. We greatly appreciate and value all direct funding to the Foundation. However, there are also a variety of ways to support the Foundation with little or no direct cost to companies.

Most credit card companies offer a rewards program of some kind, allowing cardholders to earn points for various perks. American Express has instituted a program that allows members to turn points into contributions to their charity of choice and the RMC Research & Education Foundation qualifies as such a charity. For more information, please visit www.americanexpress.com/give.

If your company, or, on a personal level – your family – has a foundation, perhaps that foundation may consider making a donation to the RMC Research & Education Foundation. Such a transfer allows companies to support the Foundation without af-

fecting company budgets and helps the industry at the same time, which is also true of family foundations.

Companies can also assist the Foundation by helping to make more people aware of the reports and tools available from our website. By adding a link on your corporate website to the Foundation's website – www.rmc-foundation.org – you will provide visitors to your site, including existing and potential customers, colleagues and your staff with resources that they may not have been aware were available to them. It also provides your company the opportunity to highlight your support of the Foundation and its mission. It's an easy addition to make and will go a long way toward making others aware of our work.

Companies can also help to distribute the Foundation's resources in a more proactive way, making our popular deliverables CDs "Research Supporting Sustainable Development" and "Research to Support the P2P Initiative" available to owners, contrac-

tors, specifiers, architects and others that your staff may work with on a regular basis. Most materials are downloadable from our website or are available by request.

Ensuring that your company's professionals are aware of the Foundation and that their personal support will help the Foundation continue in its work is also of great help. One area where many workers can identify with the Foundation is if they have participated in one of the many educational programs or tools that the Foundation has funded. Information on our many educational programs is available from our website. Personal and planned giving contributions are a great way to give back to the industry, as evidenced by our large list of individual contributors seen on the insert page.

If you would like more information or would like to use the Foundation's logo as part of a link on your company's website, please contact Jennifer LeFevre at 240-485-1151 or at jlefevre@rmc-foundation.org.

ConcreteWorks Provides Opportunity to Showcase Foundation Work

At the upcoming National Ready Mixed Concrete Association's (NRMCA) ConcreteWorks Conference & Expo, the Foundation will highlight its many projects of direct interest to participants at this conference.

The Foundation will have a booth display near NRMCA's registration desk at the conference where copies of research reports will be available. We will also have available new project releases, such as the upcoming SCC Formwork Pressure study, additional preliminary data from the Fuel Consumption and Emissions Study and updates on other important projects. The featured unveiling will be of the Foundation's Sustainable Concrete Plant Guidelines, on which there will also be a presentation.

Foundation representatives will also provide updates at several NRMCA committee meetings. Although we are not holding our annual Golf Tournament with ConcreteWorks this year, we do plan to hold it again in 2010 so please be sure to budget for it next year.

For more information about ConcreteWorks or the Truck Mixer Driver Championship, please visit <http://www.nrmca.org/fallconference/index.asp>.

Coming Down the Pike – A Calendar of Upcoming Programs and Releases

- * Plant Manager Certification Course – August 11-14, 2009, Charlotte, NC and December 8-11, Silver Spring, MD – visit www.nrmca.org
- * The Effective RMC Supervisor – September 15-17, 2009, Silver Spring, MD – visit www.nrmca.org
- * Sales Manager Workshop – September 30 - October 1, 2009, Silver Spring, MD – visit www.nrmca.org
- * Financial Management Workshop – October 5-6, 2009, Silver Spring, MD – visit www.nrmca.org
- * ConcreteWorks and 4th Annual National Mixer Driver Championships – October 18-20, 2009, Indianapolis – visit www.nrmca.org – Foundation to have a booth display
- * Updated Preliminary Data for the Fuel Consumption/Emissions Study – Now Available
- * SCC Formwork Pressure Study – Late Summer 2009
- * Release of Update *Ready Mixed Concrete Industry LEED Reference Guide* – Fall 2009
- * Sustainable Concrete Plant Guidelines – Fall 2009