



Legacy

The Newsletter of the RMC Research & Education Foundation

Volume 7 Issue 2

2nd Quarter 2011

Did you know?

- The Foundation now accepts PayPal for pledge payments and on-line contributions. Donors can make a secure payment using their own PayPal accounts or can use PayPal to make credit card payments as well.

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From the Chairman

Welcome to the Spring edition of *Legacy*. I'm pleased to report that the Foundation is continuing its work on several important, informative and exciting projects, programs and fundraisers. In late April there was a Green Streets, Green Jobs Forum sponsored by EPA and the Green Highways Partnership, where Executive Director Julie Garbini was an opening speaker and the Foundation had a booth presence. Below, you can read more about that successful program which was funded in part with a grant from the Foundation. We have also planned an Informational Webinar designed to give donors an opportunity to learn even more about the current work of the Foundation and engage in a dialogue with leadership and staff. This is part of my personal commitment to provide transparency to our donors and opportunities for you to offer feedback. More information about the webinar is available on page two.

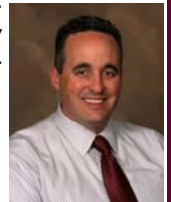
The Foundation will have a strong presence at the upcoming International Concrete Sustainability Conference, set for August 9-11 in Cambridge, MA. In addition to a having a booth display and holding our Board of Trustees meeting there, much of the Foundation's research will be presented or made available at the conference. The last day of the conference program will be the MIT Concrete Sustainability Hub (CSH) "Concrete Industry Day." Participants will receive an in-depth update from MIT researchers on how work on the first two work plans is progressing. Please see pages two and four for more information on the MIT CSH research. We also have a very special fundraising event planned for that week.

The first-ever Walk for Sustainability will take place in conjunction with the International Concrete Sustainability Conference on the morning of Wednesday, August 10th. The walk will help raise both funds and awareness for the Foundation's research to support sustainable development. To keep the fundraising momentum going, our popular Golf Tournament returns again this Fall in conjunction with ConcreteWorks and NRMCA's Fall Board of Directors meeting. This year's event offers even more sponsorship opportunities and provides an excellent chance for players and sponsors to demonstrate their support of the Foundation and industry. Please see pages two and three for more information on these events.

Even if you can't participate in the walk or golf tournament, there are many other ways to support the Foundation. Perhaps your organization is looking for new ways to recognize speakers, volunteers or staff. Making a contribution on their behalf is an excellent way to give them recognition and support the Foundation at the same time. As a matter of fact, one organization has been doing this successfully for years. Please see page three for more details. You can also make a tax-deductible contribution anytime on the Foundation's website at www.rmc-foundation.org/contribute.

As always, enjoy this edition of *Legacy* and thank you for your continued support.

Regards,
Scott Parson, Chairman



Green Streets, Green Jobs Forum a Well-Attended Success

EPA, Green Highways Partnership and Chesapeake Bay Foundation hosted a forum on Green Streets, Green Jobs in Silver Spring, MD, April 29-30. The forum was well attended by important stakeholders, including city mayors, municipal officials, public works officials, agency personnel, developers, and construction industry representatives. The concrete industry was well represented by industry members and industry representatives; the RMC Research & Education Foundation

had a booth at the forum.

Foundation Executive Director Julie Garbini was the only industry representative, from any industry, asked to speak on the program and she opened the forum on a panel with Maryland Highway Administrator Neil Pederson, Director of EPA Region Water Protection Division Jon Capacassa, Federal Highway Administration Associate Administrator Gloria Shepherd and representatives from the Washington, DC, and Maryland Departments of Envi-

ronment. Mark Maloney, Dir. of Public Works for Shoreview, MN, gave a presentation on the mile of pervious concrete road he specified and maintains, and he served as a panelist on several program sessions.

The forum was created in part through a grant by the Foundation to the Green Highways Partnership for training of municipal officials on green infrastructure and stormwater management strategies like using pervious concrete.

Foundation Informational Webinar Planned for June 9th

On Thursday, June 9, 2011, at 4:00 p.m. EDT, the RMC Research & Education Foundation will hold an informational webinar on the activities and programs of the RMC Research & Education Foundation. This webinar will serve as an update to our valued stakeholders on a variety of subjects including:

- How the Foundation reviews, solicits and approves proposals;
- The financial state of the Foundation;
- Update on currently funded programs, including the MIT Concrete Sustainability Hub; and
- Outreach activities.

We hope you can join us on June 9th for this opportunity to learn more about the Foundation and its programs. The on-line meeting format will also provide participants with the opportunity to ask questions. To register for the webinar, please visit <https://www3.gotomeeting.com/register/612339902>. Once you go to this link, you will fill in your registration information (registration is free). After registering, you will receive an e-mail containing information about how to join the webinar. Please plan to join the webinar a few minutes early to allow some time for connecting to the webinar.

Should you have any questions about the webinar or registering for it, please contact Jennifer LeFevre at 240-485-1151 or at jlefevre@rmc-foundation.org.

International Concrete Sustainability Conference and MIT Industry Day Set for August

The 2011 International Concrete Sustainability Conference (ICSC) is scheduled for August 9-11, 2011, at the Hyatt Regency Cambridge in Cambridge, MA. The third day of the conference will feature Concrete Industry Day at the Massachusetts Institute of Technology (MIT) that will include an in-depth update on the work taking place at the Concrete Sustainability Hub (CSH).

The ICSC will include pres-

entations on a wide-range of topics, including but not limited to: what governmental agencies are doing on sustainability, the use of SCMs, best practices, rating systems and certifications, life cycle assessment, pervious concrete, energy management and performance specifications, just to name a few. Additional details on the conference, program, speakers and sponsors may be found at www.sustainabilityconf.com.

Participants may register for individual days of the conference such as the MIT Concrete Industry Day but are encouraged to attend the entire conference. The Foundation also plans to hold the first-ever Walk for Sustainability at the conference (please see page three), will have a booth at the conference and will hold its next Board of Trustees meeting there as well.

Grace Construction Products and Cemex Partner to Support the Foundation

Grace Construction Products, in conjunction with Envirosave Enterprises, recently made a new donation of \$10,000 to the RMC Research & Education Foundation and pledged an additional \$1.00 for each gallon sold of a new fuel additive over the next three years.

Grace recently signed a deal with Envirosave Enterprises giving them rights to distribute the Gamma88 fuel additive. As part of Grace's due diligence, it learned that Cemex had run an extensive testing program designed to validate the efficacy of the additive in increasing fuel efficiency and reducing vehicle emissions. The program was so thorough and well done that Grace offered to compensate Cemex for the rights to use this information. Cemex's Karl Watson Jr. and Frank Craddock, both Trustees of the Foundation, agreed to share the data but instead suggested that a donation be made to the Foundation in lieu of compensation.

Many thanks to Cemex, Grace and their leaders for their continuing generous support!

Golf Tournament Planning Underway

Details for the 2011 RMC Research & Education Foundation Fundraising Golf Tournament are now set! The tournament will take place on Sunday, September 25 at 12:30 p.m. in conjunction with NRMCA's ConcreteWorks and Fall Board of Directors Meeting in San Diego, CA. It will be at the lovely Riverwalk Golf Club, conveniently located just eight miles from the host hotel, Sheraton Marina San Diego, and near to the San Diego airport. Due to the combination of both ConcreteWorks and NRMCA's Fall Board Meeting this year, participation and sponsorship of the tournament offers even more opportunities than ever to demonstrate your support of the

Foundation to industry leaders and decision makers.

This year, we have five different levels of sponsorship available to fit every budget. As in the past, one half of the sponsorship fee is tax deductible as a contribution to the Foundation. Please note that sponsorships are limited for the Beverage Cart and Platinum levels and are available only on a first come, first served basis.

Registration for the Tournament this year will be \$250 with \$50 of the fee being tax deductible as a contribution to the Foundation. Club rental is available for \$50 per set. Why not sponsor a foursome to ensure your preferred grouping? It's a great way to spend a fun after-

noon with customers or colleagues while supporting a fantastic cause at the same time.

All forms and information on current sponsors may be found at www.rmc-foundation.org/Golf_Tournament.htm. Should you have questions, please contact Jennifer LeFevre.



Innovative Way to Support the Foundation and Say Thanks

In these challenging times, many companies and organizations struggle with finding new and better ways to thank volunteers, speakers and others. Sure, you could give your annual convention speaker or your long-serving Board member an appreciation plaque yet again. But perhaps there is

reward our volunteers with a pledge in their name. The volunteer receives recognition and the Foundation receives deserved support. It's a win-win for everyone." The Foundation will create recognition certificates for those being honored and add each of them to our contact and contributor

tions to the Foundation is another great way to double support for the Foundation demonstrating an employee/company partnership.

"Soft" contributions, as these types of donations are known, also make great gifts for any occasion.

Should you want to make

First-Ever Walk for Sustainability Planned at ICSC

The Foundation will hold its first-ever Walk for Sustainability on the morning of Wednesday, August 10, in conjunction with the International Concrete Sustainability Conference in Cambridge, MA (please see page two). Join us for a morning walk around the MIT campus to help raise awareness and funds in support of the Foundation's work to help advance the sustainable development movement. Participants will pay only a nominal registration fee while also raising additional funds from friends, family, and colleagues for their ef-

"FICAP recognizes the value of supporting the RMC Foundation. In addition to an annual pledge to the Foundation, we also decided to reward our volunteers with a pledge in their name. The volunteer receives recognition and the Foundation receives the deserved support. It's a win-win situation for everyone."

- Michele Stropoli, FICAP

another way to say "Thank You!" and make an additional industry impact at the same time. For the last several years the Florida Independent Concrete & Associated Products, Inc. (FICAP) has been recognizing the work of their volunteers by making a contribution to the Foundation in their names as a thank you for their work and dedication. Says FICAP Executive Director Michele Stropoli "FICAP recognizes the value of supporting the RMC Foundation. In addition to an annual pledge to the Foundation, we also decided to

lists. They then receive updates on the work of the Foundation, which they may not have been completely aware of prior to receiving this recognition.

Other organizations sometimes thank meeting and conference speakers in the same way and some speakers have chosen to have their fee donated to the Foundation.

Making a contribution in the name of an employee for a special recognition is another option for companies to accomplish two goals at once. Making a match of employees' existing pledges or contribu-

arrangements for making contributions as part of your upcoming meeting or recognition,

please contact Julie Garbini. Additionally, a gift contribution pledge form is also available from the Founda-

tion's website at www.rmc-foundation.org/contribute.htm.

Walk for Sustainability



forts in this event. Walkers will have the opportunity to set up their own fundraising websites to track their individual support as donors sign on with contributions to your cause.

The event will start and end with enough time for Concrete Sustainability Conference attendees to be able to change and partake in the continental breakfast before conference sessions begin at 8:30 a.m.

More information, including registration and how to set up personal event web pages, will be available soon.

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

- * Informational Webinar on the Activities & Programs of the Foundation – June 9, 4:00 p.m. EDT– Contact Jennifer LeFevre for registration information.
- * International Concrete Sustainability Conference & Concrete Industry Day at MIT – August 9-11 – Cambridge, MA (Industry Day is on August 11) – Please visit www.sustainabilityconf.org for more information.
- * Walk for Sustainability as part of the International Concrete Sustainability Conference – August 10, 2011, more details to come.
- * Plant Manager Certification Course – August 16-19 – Silver Spring, MD, and December 13-16 – New Orleans, LA. Please visit www.nrmca.org for more information.
- * ConcreteWorks and NRMCA Fall Board of Directors Meeting – September 25-28 – San Diego, CA.
- * Fundraising Golf Tournament – September 25, San Diego, CA. Please visit www.rmc-foundation.org/Golf_Tournament.htm.
- * Revised Edition of the Pervious Concrete Research Compilation – Fall
- * The Effective RMC Supervisor Course – November 2-4 – Silver Spring, MD

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Vision:
The RMC Research & Education Foundation is a lasting resource for increasing quality, professionalism, and sustainability in the ready mixed concrete industry by funding high quality, high value, non-proprietary research and education programs.



Concrete Sustainability Hub@MIT – Special Research Brief – March 2011

Designing for Sustainable Pavements

Problem

Increasing the sustainability of our infrastructure is accomplished in ways other than just developing better materials and more efficient processes: it is also about employing the right designs. For pavements, overdesign causes excess materials to be used during construction, leading to higher economic costs and environmental impacts. Optimizing design thicknesses for prescribed service lives, climates, and traffic conditions allows pavement engineers to create structures with minimal waste.

Approach

Advancements in design techniques allow for such optimizations. Pavement design tools, such as the National Cooperative Highway Research Program's *Mechanistic-Empirical Pavement Design Guide (MEPDG)*, use embedded models to forecast the propagation of various pavement distresses for combinations of materials properties and external parameters. MIT has developed three case studies to demonstrate the effect that design optimization can have on costs and CO₂ emissions. Conventional designs are compared against *MEPDG* designs for sample low-volume, medium-volume, and high-volume highways in California. The designs are evaluated over a 50-year analysis period using life-cycle assessment (LCA) and life-cycle cost analysis (LCCA) principles.

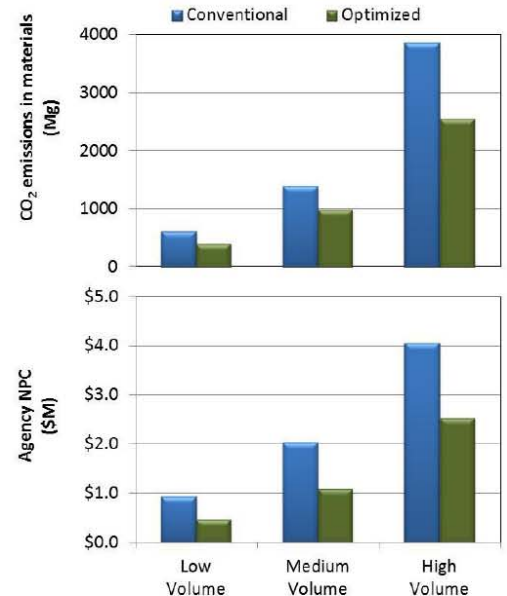
Findings

Optimized designs can provide significant economic and environmental benefits. For the three case studies, the optimized designs reduce agency net present cost (NPC) by roughly 40–50% and CO₂ emissions by roughly 30%. These are likely to be conservative estimates, as other life-cycle implications, such as shorter construction times and reduced transportation, are not considered in the current demonstrations studies. User costs due to traffic delay may also be reduced using optimized design thicknesses.



This research was carried out by the CSHub@MIT with sponsorship provided by the Portland Cement Association (PCA) and the Ready Mixed Concrete (RMC) Research & Education Foundation. The CSHub@MIT is solely responsible for content. For more information, write to CSHub@mit.edu.

Additional resources from the Concrete Sustainability Hub at the Massachusetts Institute of Technology are available from the Foundation's website at www.rmc-foundation.org. Resources include monthly briefs and special research briefs such as the *Designing for Sustainable Pavements* brief above. A comprehensive update on CSH activities will be provided at Industry Day in August. Please see page two for more details.



Using optimized designs helps reduce both embodied CO₂ emissions and net present value (NPC)

Impact

The use of optimized design thicknesses helps reduce costs and CO₂ emissions by minimizing the materials needed to construct a pavement. The economic and environmental benefits are significant and can help transportation agencies reduce their carbon footprint while working within tight budgetary constraints.

More

The research presented here is a part of an ongoing project by the pavements LCA team at the MIT Concrete Sustainability Hub. More information on the *MEPDG* model can be found at <http://www.trb.org/mepdg/>.

Thanks to all of our contributors. New and increased contributions since the last newsletter have been **bolded**.

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 Gary Clements
 Brad Coolidge
 Gregg Cummings
 James Deters
 Eileen Dickson
 Tony DiMaggio
 Lynn Downey
 Tiffany Duffy
 Mike Forster
 Peter Fredericks
 Adam Freeman
 James Gado
 Frank Gencarelli
 Bill Gentry
 Jay Gleason
 Bobby Griswold
 Sherry Griswold
 Douglas Hartley
 Scott Hausman
 Will Hill
 Rod Hilpirt
 Steve Howard
 John Humphrey
 Fred Jahna, Jr.
 Barbara Kamakaris
 Jimmy Keys
 Lisa Kittilsby
 Dustin Kleider
 Jeff Krupcale
 Vaughn Kuzma
 Keith Lanier
 Patrick Lear
 Larry Magill

Dan Meine
 Amy Miller
 Sidney Mindess
 Jacquetta Mitchell
 Brian Moore
 Wade Mullins
 Larry Necessary
 Rick Nissen
 Greg Norwick
 Michael Olivarri
 Ron Pafford
 Chuck Parliment
 Frank Petronzio
 A. Vance Pool
 Brett Porter
 Niel Poulsen
 Eugene Prince
 Bill Pullano
 George Roberts
 Bill Roy
 Dave Ryan
 Jennifer Schaffer
 Robert Schmelig
 Tom Scott
 Tony Segree
 Mac Shafer
 Mark Smith
 Peter Sobetski
 Alan Sparkman
 Preston Sparkman
 Jim Speakman
 Bill Steele
 Bruce Strickland
 Frank Suarez
 Nate Tarbox
 Bob Thomas
 Tony Tinker
 Michael Vasquez
 Tony Vitale
 Mike Vjestica
 Kevin Voelte
 Barbara Wesener
 Shelby Wheatley
 Ken Yuhás

Planned Giving

Frank & Barbara Kozeliski
 Michael & Marsha Shydowski