Most of our members and readers are becoming familiar with the concept of PPRA, the Pavement Preservation & Recycling Alliance. PPRA is not an organization, it is an informal agreement among AEMA, ARRA, and ISSA to cooperate on certain functions. Some years ago, the three groups conducted 3-way joint annual meeting. It worked. Simply put, one band can play for 400 people in one place cheaper than three bands can play in 3 places for 150 people, and it makes for a better party. Next was the newsletter. Given that all three associations are in closely-related industries, it seemed that at least half the information in each group’s newsletter was pertinent to the other two groups. Cheaper, quicker, and more efficient to publish one newsletter than three, so we tried combining them. It worked. Participation at trade shows? One well-manned display is less expensive than three. It worked.

Occasionally getting three representatives from each Board together to discuss matters of mutual concern instead of trying to glean consensus from 36 individuals? It worked. Asking the AEMA, ARRA, and ISSA Technical Committee Chairmen to stay in touch by email and share the issues facing each group and the initiatives being taken, partnering where feasible? It worked.

Which brings us to the first ever PPRA Fall Meeting. AEMA has frequently conducted a workshop in the Fall, ARRA has always had its Semi-Annual Meeting, and ISSA used to have a Users Conference. Building upon the positive experience of the very successful joint annual meetings, the PPRA representatives discussed the concept with their respective Boards and all agreed to give it a try. It worked.

More than 200 AEMA, ARRA, and ISSA members, consulting engineers, and agency personnel came to downtown Dallas for a combined total of 20 committee or Board meetings, plenty of networking opportunities, and presentations from almost 30 different industry experts. You can take a look at some of the committee reports in this newsletter and

Continued on page 12

A Member's Perspective...
John Irvine, ROADTEC Inc.

Roadtec sees this industry and our association with ARRA as an excellent growth potential for us in the North American market. We belong to ARRA for two reasons; one we are here informed of the cutting edge technologies in all disciplines of ARRA (FDR, Asphalt Milling, CIR, HIR, and Soil Stabilization). Second, it is a business decision to spend time with our customers and experience their first hand feedback to better accomplish these cost effective technologies efficiently

Continued on page 13
CUSHOTRAC® ULTIMATE™
Track Pads Engineered Specifically for Milling Machines

2,000 Hrs
The ONLY Track Pad With a 2,000 Hour Wear Life Guarantee®

Lower life-cycle cost
from our 2,000 hour wear-life guarantee®

Ultra-long lasting & abrasion resistant polyurethane compound

Larger footprint
designed to provide maximum traction - even on wet surfaces

Reinforcing Steel-On-Steel® technology eliminates early wear from pad loosening

*Refer to terms and conditions at www.Track-Pads.com

Also Available
CUSHOTRAC® ON THE CHAIN™
New complete chain assemblies with track pads pre-installed...Just Roll It On!

Optional Track Pads
- Cushotrac® Ultimate™
- Polyurethane Bolt-To-Shoe
- Rubber Bolt-To-Shoe
- Mold-On

Available for Wirtgen® and Roadtec® milling machines

VISIT US AT
CONEXPO-CON/AGG 2014
BOOTH NUMBER 31133

SUPERIOR
TIRES & RUBBER CORP
HEAVY EQUIPMENT COMPONENTS
ENGINEERING REVOLUTION™

MADE IN USA
ISO 9001

1.800.289.1456 www.Track-Pads.com
Notes from Headquarters

It has been a busy time here at Headquarters, and we are looking forward to an equally busy and productive 2014. There is a great deal of good information in this newsletter and you will have an opportunity see what has been happening and what we have to look forward to.

There’s an app for that! Well, yes there is. Search for FHWA in the app store on your smartphone or ipad, and get the app for the Pavement Preservation Checklist Series. There are 14 different subjects at your fingertips and it is FREE.

ISSA’s Crack Treatment Committee is proud to announce the completion of its “Introduction to Crack Treatment” PowerPoint, going live soon at www.slurry.org. It has been reviewed and should be posted soon.

Any questions should be directed to Crack Treatment Committee chairman Bryan Darling, bryan.darling@crafco.com.

In the Trade Press:

Asphalt Pavement – November/December 2013 (published by the National Asphalt Pavement Association), Volume 18, Number 6 AsphaltPavement.org
Best Practices for Emulsion Tack Coats, QIP 128 offers guidance and suggestions for selecting tack-coat emulsions, selecting and maintaining associated equipment, and applying tack coats article by Dale S. Decker, P.E. can be found here: http://www.nxtbook.com/naylor/NAPS/NAPS0613/index.php#30

The Winter 2013 Issue of the Pavement Preservation Journal (a Publication of FP2 Inc.) is currently available http://www.fp2.org/pavement-preservation-journal/ . You are bound to find something of interest between the pages: NCAT Update: Eventful First Year for NCAT Preservation Group Study, Polymers Boost Performance of Conventional Fog Seals, Rare Double Fog Seal Among Techniques for Oklahoma Road, Florida Puts HIR Plus Virgin Overlay to Work on Tamiami Trail, ARRA, FHWA Sponsor In-Place Recycling Workshop and Demo and Wait Before First Slurry Seal Application.

Continued on page 4
Notes from Headquarters - Continued from page 3

Asphalt Contractor – December 2013
The cover story in this issue is Performing FDR Under Traffic – Blount stabilizes a three-lane asphalt road in Atlanta and you can read it here: http://www.forconstructionpros.com/magazine/acon/issue/2013/dec

Same issue, Full-Depth Foam/Lime Slurry Reclamation Can Benefit Texas Roads

And… A Special Report by Lisa Cleaver, Editor – Asphalt Contractor 2014 Industry Forecast, Industry experts predict the year ahead

Asphalt Contractor – November 2013
St. Joseph County, IN, Uses HIR to Resurface Its Streets – Gallagher Asphalt helps the county save time & money with urban recycling train an article by Lisa Cleaver

How to Educate a City About Road Work, The city that never sleeps turns to social media to deliver the right message about construction by Jessica Stoikes, Assistant Editor

The December issue of FHWA’s FOCUS Magazine is available online at http://www.fhwa.dot.gov/publications/focus/

Turnberry Isle - Miami, meeting registration information beginning on page 45
Wilson Christopher
“Chris” Blake
March 22, 1961 - October 29, 2013

Chris Blake was larger than life. Every aspect of his life was performed at full throttle. He loved his family unconditionally. Everything he did in life stemmed from his devotion to loved ones. He married the love of his life, Amanda Blake, in 1984 and began an incredible 29 year journey. Chris is also survived by his four children – Heidi, Matt, Joe, and Miranda.

Chris approached everything he did with an all or nothing mentality. His philosophy was consistent with “anything worth doing is worth overdoing”. This was clear with his devotion to coaching youth hockey, passion for hunting and fishing, and his professional life. Chris was the fearless leader and CEO of Idaho Asphalt Supply, Inc. His high moral standards, intelligence, and ability to create long lasting loyal relationships were vital in the success of the business. The road to his success was paved through constant hard work both in the office and classroom. Chris earned his MBA at Idaho State University after wrestling for 4 years while completing his undergraduate degree.

He was an avid hunter and fisherman. He loved to spend time outdoors with his wife, kids, and close friends. In the ice arena, he used his fierce and passionate persona to coach and shape young developing players. Chris’ coaching style not only instilled hard work into his players, but it helped mold their character into outstanding young individuals outside of the rink. If you ever run into a player that he coached, you will likely be engaging with a respectful and honest individual.

On Tuesday October 29th, 2013 Chris unexpectedly and tragically passed away in his home from heart failure. He recently overcame all odds and demonstrated extraordinary resilience after surviving a life threatening injury.

Those that were fortunate enough to know him will dearly miss him. He had a positive impact on everyone he encountered. His spirit lives on through his wife, children, and friends. His infectious attitude will be passed on for generations to come.

A memorial service was held on November 6, 2013, at the Trinity United Methodist Church, in Idaho Falls.
AEMA President’s Message

Mark McCollough, Asphalt Materials, Inc.

It is hard to believe that we are already at the end of the season. This is the time that we reflect on the year that has passed and think about the year to come. Overall, I am very optimistic for the future of our industry. The years before us could be our golden age. There are many elements that need to work together to make this a successful time for our industry. A few of them we can influence, for example the next highway bill.

The current highway bill is a two-year bill that will expire next year. The Foundation for Pavement Preservation (FP2) contributed to the success of the current bill. FP2 is partially funded and directed by AEMA, ARRA, and ISSA to advance legislation that forwards the interests of our industry. Building on the success of the current bill we need to work together to educate and influence our house and senate members for the next highway bill, which will be under construction starting in 2014.

This morning I had a meeting with Susan Brooks, the House Representative for Indianapolis, Indiana. She came to visit our Lab in Indianapolis on her way back to Washington DC. With the assistance of Tracy Taylor (Williams and Jensen, legislative consultant to FP2) and often in conjunction with Jim Moulthrop (Executive Director FP2), over the past year I have met with about 25 house members and/or their staff members. Most of the meetings were with their legislative transportation specialists in Washington DC. A few meetings were with the House members themselves. Generally, the meetings were very cordial and they listened to our concerns even though they were very busy. One of the things that concerned me was their lack of knowledge about our industry and the importance of taking care of our infrastructure assets. Only one out of 25 were knowledgeable about our industry and pavement preservation. We have a lot of work to do.

We are still working on our official position for the next highway bill. But I think there are a few things that we are beginning to build a consensus around. First, a longer bill is better. The last bill was only two years, which is better than nothing, but still pretty short. It is better to have bills in the range of six years or so. This allows DOTs and everyone that depends on them to have more time to plan and longer continuity of funding. This encourages investment. Secondly, the funding mechanism needs to be rethought. The Federal gas tax, in its current form, is becoming obsolete. Future funding needs to keep pace with inflation. The current gas tax has stayed fixed while the buying power of the funds has been decreasing. At the same time miles per gallon performance for vehicles continues to improve which reduces the amount of funds per mile driven and more and more we are seeing vehicles that don’t use gas at all. Finally, new technology and development should be encouraged. The last major innovation push in the asphalt road construction industry was the SHRP program and that was over 25 years ago. Quite a bit has changed since then. That was before cell phones and widespread use of the internet. We should imagine a future that incorporates technology. Our official position on the new bill is still developing. We invite you to participate. We are interested in your opinions. Tell us what you think.

I want to encourage all members to seek meetings with our House and Senate members. They need to understand our industry and the importance of pavement preservation to develop relevant and significant legislation. It is not as difficult or as intimidating as you may think. We are entering a time where competition for funding in Washington will become increasing intense. We will need to step up our game if we want to continue to compete for limited funds. Every relationship can help.

With sadness I note that Chris Blake, from Idaho Asphalt, recently passed away. Chris was a member of the AEMA board and approached his board duties with great enthusiasm and energy, just like he approached life. We will miss Chris and his contribution to the industry, our condolences to his family and friends.

We wish you a happy and safe holiday season and look forward to seeing you shortly in Florida for the annual meeting.
RoadSaver II
RoadSavers have been performing for contractors around the world since the 1980’s.
The standard of Performance and Reliability!

RoadSaver III G
The first “Green” slurry and micro surfacing machine.
- No Side Engine
- Less Fuel, less maintenance
- Quieter
- Larger payload

RoadSavers are available in several configurations to meet your needs. We offer operational training, service training and on-call customer support. We encourage you to ask current RoadSaver owners about the performance and reliability of their machines and our support system.

Rayner Equipment Systems
1-800-479-9390
Randy 916 826-1007 Cell
Rich 916 997-5082 Cell
www.ROADSAVER.com
Precision Craftsmanship - Unmatched Performance & Reliability
President’s Message

Patrick A. Faster, Gallagher Asphalt Corporation

The frost is on the pumpkin and a good number of us are getting ready to or have already parked our equipment.

For those of you in that category, I hope this past season was fruitful for your efforts and, more importantly, I hope your developmental seeds for the upcoming season are starting to sprout and show some signs of a bumper crop. Good luck to all.

There has been a lot of activity since our last newsletter. The ARRA/FHWA In-Place Recycling Conference held in Chicago this past September has been labeled a success. There were some 130 attendees who participated. After one and a half days of classroom instruction, there was a half day of process demonstration held close by.

We were able to display Hot In-Place, Cold In-Place and Full Depth Reclamation. We were also able to spill over into Pavement Preservation Treatments and covered those roads with a Chip Seal, Micro Surfacing and Cape Seal. I considered these to be truly, outstanding demonstrations. I hope you were able to add this value to your membership in ARRA. It was “priceless” as the saying goes.

I would also like to say thank you again to the Contractors and Sponsors who stepped up and made this possible.

A.C. Pavement Striping Company
Dunn Company
Gallagher Asphalt Corporation
Micro-Surfacing Inc.
Rock Solid Stabilization & Reclamation Inc.
Tri-State Asphalt

Just a few short weeks after that, we found ourselves in Dallas, Texas, at the inaugural PPRA Fall Meeting. Once again, this was another successful meeting with good attendance and a host of good presentations.

FHWA had a good representation at same and that is no accident. Our communications, awareness and relationship I would term with the Feds is as strong as I can ever remember seeing. This is the result of the efforts of many people on either side of the fence.

“Butch Waidelich - good to see you there”.

Looking ahead, our upcoming 2014 Annual Meeting is on the horizon. Mark your calendar, February 25 – 28 in Aventura, Florida. At this juncture, airfare is still reasonable, so just reach out and pull the trigger and get yourself involved.

Under the heading of “getting involved”, my letter would not be complete without the preaching of organizing one-day recycling seminars in your area. This ongoing recycling awareness opportunity will pay you back ten-fold.

If you would care to discuss or need some help, certainly don’t hesitate to give me a call. For that matter, if you have any issues, don’t hesitate to call.

On a personal note, which I don’t often do, I wish a speedy recovery from surgery for John Rathbun of Cutler Repaving. John and Cutler Repaving have been longtime ARRA members and supporters and very much a skeletal part of our organization as well. John is a close personal friend of mine.

“Speedy recovery there, J.R.”

Wishing you all a safe & happy holiday. Hope to see you in Florida.

Best regards, Patrick A. Faster

Terry Hoesktra, Illinois DOT and ARRA President Patrick Faster at the field demonstration during the 2013 Midwestern States Regional In-Place Recycling Conference. See more on page 30

Photograph courtesy of Tom Kuennen, ExpresswaysOnline.com
RHINO BIT RELIABILITY: PRECISION MANUFACTURING = CONSISTENT, HIGH-QUALITY PRODUCT EVERY TIME

Consistent quality:
- Maximizes reliability, thereby reducing downtime.
- Provides for even wear, reduced fractures & proper rotation.
- Gives confidence in knowing that the next bucket of Rhino bits will be as good as the last.
Dear Members,

The international economical context is very tough, not just for the US government as we all saw recently, but for every country around the world. This is why pavement preservation is more than ever at the heart of owners’ preoccupations. The industry should take that as a fabulous opportunity to propose and design new, highly efficient products that will help to preserve road assets around the world. Today, we need very high quality products that will restore surface characteristics to roads and prevent cracking and damage linked to the water effects. Those products must be durable and efficient, applied by qualified and well trained teams and implemented with adapted equipment. Safety of people involved is a topic that must be taken into account as well, that of the people involved on the job site and that of users and neighboring residents, too.

ISSA technical Director Bob Jerman is working very hard with the people involved to put together new technical specifications and to carry out review/revisions of all ISSA Technical Bulletins, to assure a high quality level for the techniques ISSA promotes. The last one was the update of ISSA TB No. 145, Methylene Blue Value, after approval regarding TB No. 147, Loaded Wheel Tester. On the other hand, some TBs are to be archived (TB 115 for example). He set up several hours of conference calls to work on that; it is not always easy to reach people because everybody is so busy. A special thanks to Bob and I apologize on behalf of all ISSA members if sometimes you feel lonely! The Slurry/Micro committee is doing a lot (with Rusty Price as leader) to put together new reliable tests to measure cohesion in the field. An excellent power point to be used on the ISSA website is being designed by Bryan Darling regarding Crack Treatment, and a guideline for ISSA Chip Seal is being reviewed (thank you to Ben Vagher). During the last Board meeting, it was proposed to include video with Technical Bulletins. Still on the subject of technical staff at a global level, a letter was sent to FP2 to encourage dialogue between ISSA and FP2 including ISSA participation in the area of technology specifications. We are sure that an efficient collaboration will help meet the needs and expectations of the end users of the techniques we promote.

For the international context, all of the actors are involved and concerned. That is what we’ll see during the next international scale meeting in 2015. Mike Krissoff is doing a good job with the executive directors of the other association partners to prepare the “Pavement Preservation & Recycling Summit” that will be held in Paris in 2015. Don’t forget to save the date of February 22-25 on your schedule.

The PPRA Fall meeting in November welcomed many people from the industry and from the agencies, and ISSA is pleased to participate. This was a very good opportunity for committee meetings and to progress in all the topics that have been identified during our Strategic planning meeting in June. They are all very important and a lot of work has been done:

1. coordination with NCPP/FP² (Rusty Price)
2. FHWA training packs (Larry Tomkins)
3. assistance to contractors in planning and providing local training (Rex Eberly)
4. Design software to help implement ISSA techniques (Larry and Howie Snyder) à chip seal calculator, Slurry/Micro calibration
5. Promote through You tube Channel (Larry and Howie Snyder) a first tutorial Video: the WTAT (TB100)
6. Set up proactive calls for press and web articles (Howie)

One word regarding the ISSA/FHWA WBT Phase 1 (3 modules) that was launched mid 2013:

- **How to Construct High Quality Slurry Seal and Micro Surfacing Treatments - Part 1**

- **How to Construct a High Quality Slurry Seal and Micro Surfacing Project - Part 2**

- **How to Construct High Quality Chip Seal Treatments**

At the end of September, around 300 new and returning users viewed the Chip Seal and Slurry/Micro WBT (80% for Slurry/Micro and 20% for Chip Seals). About 60% of the users are from agencies. That was our goal and that’s very good result. As decided during the June board meeting, a request has been submitted to FHWA to update the WBT Phase 1. A plan for designing and launching a WBT 2 has been set up: Slurry/Micro Spreader Boxes principles and Crack Treating Best Practices. Bryan Price and Scott...
Bergkamp have volunteered to be SMEs (subject matter experts) for Phase 2 and we need a few more volunteers - don’t be shy and let us know if you would like to be involved. I would like to thanks Larry Tomkins who is doing a very good job of chairing the ISSA Technical Marketing Committee.

Pending FHWA approval of the update to Phase 1 and the production of Phase 2, we are already thinking about a Phase 3 regarding Safety during operations.

As you can see a lot has been done so far but we have still a lot on our plate. One thing I can say is how motivated and committed the ISSA Board members and ISSA members are. It’s a true pleasure to work in such a positive, focused atmosphere. Let’s keep on paving the way forward, together.

Warm regards,
Christine Deneuvillers
you can access the presentations on the AEMA, ARRA, and ISSA websites. It is no secret that the real work gets done in the technical committee meetings. It is also no secret that all committee members are volunteers, time is tight during the year, and email communications can only go so far in making things happen. The PPRA Fall Meeting gave all committees another opportunity to meet face-to-face, with sleeves rolled up, and get to work. AEMA and ISSA are re-vamping their strategic plans, ARRA is re-writing its Recommended Performance Guidelines for Asphalt Emulsions and reviewing all methods and specifications coming from the Emulsion Task Group, ARRA is reviewing TCCC & NHI recycling courses, and ISSA has approved the posting of a brand new Crack Treating PowerPoint on its website, drafted plans for two Phase Two web-based training modules on Crack Treating and Spreader Box Principles, and devoting a lot of effort in the matters of testing and training. This brief report doesn’t do justice to the amount of work being done; we urge interested members and others to contact the appropriate committee chairman to make your voice heard.

And the speakers, wow! TxDOT Deputy Executive Director John Barton and FHWA Associate Administrator of the Office of Infrastructure Butch Waidelich opened the meeting and set the stage for a busload of experts addressing the pavement preservation sections on the NCAT Test Track, HIR for urban pavement preservation, fibers and polymers in pavement preservation, grade & slope controls for cold planers, mix designs, performance of surface treatments over CIR & FDR, soil modification, and much more. Program co-chairs Archie Reynolds (AEMA, Norjohn), Ryan Essex (ARRA, Miller Paving), and Rex Eberly (ISSA, Strawser) outdid themselves in assembling a line-up of topics truly representative of the combined interests of the AEMA-ARRA-ISSA audience.

The 2013 PPRA Fall Meeting. Did it work? Just listen to some of these comments.....

“The first annual PPRA Meeting in Dallas provided a great opportunity to interact with pavement preservation leaders from across our industry. The exchanges in board and committee meetings, the presentations, and the “live” interaction with colleagues from multiple industry disciplines offered insight that provided technical solutions as well as business growth opportunities. We look forward to participating again in 2014.” – Bob Jerman, Director, Technical Service, MWV Asphalt Innovations

“The PPRA workshop underscored the fact that the combined knowledge of the AEMA/ISSA/ARRA membership is unparalleled. As roadway funding levels continue to decline in terms of real dollars, we can all appreciate that Pavement Preservation and Pavement Recycling are no longer simply options but much closer to requirements. Both under the banner of PPRA and in their distinctly separate functions, AEMA/ISSA/ARRA continue to make progress towards their common goal of educating those responsible for maintaining our most vital asset, the transportation system.” – Mark Ishee, Vice President, Ergon Asphalt & Emulsions, Inc.

“Coughlin Company has seen great benefits as a result of our association with ARRA. In attending conferences, we have been able to stay informed on new trends in the asphalt recycling and reclaiming industry. We are able to stay ahead of the game and implement new strategies and lead out with the latest equipment to keep our productions high and our customers pleased. We have found great benefit in meeting and associating with our peers.” – Darren Coughlin, President, Coughlin Company, Inc.

“I belong to ISSA based on the value I see from gaining industry knowledge working with others within the ISSA membership. As with any organization being involved is critical to any benefit I have as a member. I also am of the opinion that ISSA does shape the movement of the industry by providing information to the agencies who provide the slurry seal projects and contractors who do the work. In review of all the success ISSA has driven on gaining market share resulting in more projects for all of us as contractors I see benefits to belonging to the organization. My membership in ISSA has provided my company access to people, companies and agencies I would not have been able to have access as an individual company. “ – Eric Reimschiissel, President Manager, American Pavement Preservation

It worked.

Mark your calendars now for the next PPRA Fall Meeting, November 17 – 19, 2014, at the Hyatt Regency in Baltimore, MD. Meanwhile, please contact any Board member, committee chair, or the headquarters office with your input, concerns, or questions. All three groups have plenty of ways for you to get involved; just let us know you’re interested.
Following is a list of all presentations offered at the 2013 PPRA Fall Meeting, all posted on the AEMA, ARRA, and ISSA websites.

**Welcome**
John Barton, P.E., Texas Department of Transportation

**FHWA Update**
Butch Waidelich, FHWA Office of Infrastructure

**An Introduction to Asphalt Emulsions**
Alan James, Akzo Nobel Surface Chemistry

**PPRA Processes at the NCAT Pavement Test Track**
Buzz Powell, NCAT / Auburn University

**Emulsions for Pavement Preservation Materials**
Iain Jack, Heartland Asphalt Materials

**ABC’s of In-Place Recycling**
Dr. Stephen Cross, ARRA

**In-Place Recycling - What to use and Where?**
Trevor Moore, Miller Paving

**Cold Planing and Micro Milling**
Tom Chastain, Wirtgen America

**Introduction to Slurry & Micro Systems**
David Stroud, Ergon Asphalt & Emulsions
Dan Welsh, Viking Construction

**Pavement Asset: Statewide Perspective**
Brian Huntsinger, TXDOT

**Poor Soils - How Soil Modification/Stabilization Can Help**
Terry McCleary, McCleary Engineering

**Next Generation of Distributors**
Brian Horner, E.D. Etnyre

**Technical Advances in Chip Seal Spreaders**
Brian Horner, E.D. Etnyre

**Hot-In-Place-Recycling: A Valuable Tool For Urban Pavement Preservation**
Pat Kennedy, City and County of Denver

**The Benefits of Polymers in Pavement Preservation Applications**
Arlis Kadrmas, BASF Corp.

**Fibers in Pavement Preservation**
Rich Wenthe, MWV Asphalt Innovations

**Controlling Quality - What Matters for Performance of In-Place Recycling**
Don Matthews, Pavement Recycling, Inc.

**ISSA Inspectors Manual Review**
Rex Eberly, Strawser Construction, Inc.

**Chip Seals / Two Course Surface Treatments, Best Practices**
Bill O’Leary, General Liquids Canada

**In-Place Recycling Meets The Demands of DOT and Local Programs in The 21st Century.**
Lee Gallivan, FHWA

**Technology in Grade & Slope Controls for Cold Planers**
John Guzman, Caterpillar Paving Products

**Need for Mix Design & Performance Criteria**
Tom Flowers, Ergon Asphalt & Emulsions, Inc.

**Factors Affecting Mix Design Method**
Joe Brandenburg, Asphalt Materials, Inc.

**Trackless Tack Coat**
Grover Allen, Blacklidge Emulsions, Inc.

**Performance of Surface Treatments over CIR and FDR**
Todd Thomas, Colas Solutions, Inc.

**Educational Opportunities Available Through ISSA**
Chuck Ingram, Slurry Pavers, Inc.

---

**A Member’s Perspective - Continued from page 1**

and to the quality standards set forth by their specifiers. We get education on testing and “tried and true practices” that are being utilized around North America in real-time. We see a growing ARRA membership of new specifying agencies that want to learn and share their own experiences. With this, we see a growing membership of contractors that want to be with these specifying agencies (their customers) to better serve them. Whenever ARRA is meeting, we couldn’t be in a better place to reach our customer base! Recently I sat at an ARRA luncheon and realized we had not been doing business with any of the companies seated at our table 5 years ago. Now Roadtec had 5 new customers at our luncheon table and the active effort we have been putting into ARRA was proving very rewarding. Regarding ARRA membership Patrick Faster (current ARRA President) says, “you get out, what you put in”. This has proven true for us. Our partnership with ISSA and AEMA through the PPRA Alliance also allows us the glimpse we desire to watch what the emulsion and slurry seal industries are accomplishing and share marketing, promotional ideas, and costs to get jobs specified at local levels. Isn’t that the goal? Besides, we have made many new friends and have a lot of fun doing it.
NCAT

Stay informed. Keep up to date with the National Center for Asphalt Technology at www.ncat.us and also the NCAT pavement test track at www.pavetrack.com

Look for the NCAT Newsletter here:

http://issuu.com/auburn_eng_mag/docs/newsletter
The National Center for Asphalt Technology (NCAT) study on longitudinal joints has determined that Crafco Pavement Joint Adhesive is the winner for reducing longitudinal joint cracks and joint failure over all other joint sealant products and techniques tested.

Minnesota Transportation Board research report

Pavement Joint Adhesive

Crafco Pavement Joint Adhesive is a hot applied modified asphalt that effectively bonds paving passes together creating a flexible water tight seal.

- Simple, Fast Application
- No Special Preparation
- No Paving Operations Delay
- Reduces Costly Rehabilitation
- Reduces Road Closures

NCAT confirms that Crafco Pavement Joint Adhesive is the performance leader.

For more information contact your authorized Crafco representative.
AEMA International Technical Committee
Mike Hemsley, Chairman

1) The ITC is creating a series of documents to help with issues that some members are having with agencies and how they are treating samples. The sampling issues range from sample containers, point of sampling to duration between sampling and how to ensure a representative sample is obtained from the sample container. A few Technical Committee members are creating the initial “Sampling and Handling” document and then will draft a form letter that member agencies will be able to use to send to an agency about the treatment and accuracy of data collected from bad sampling procedures.
Status: A deliverables date is set for Feb 2014

2) The ITC has been working on getting a more up to date and involved Technical Committee organized. The ITC has received many updated member representatives and we are working at getting them organized and put to work in the ITC. I have a current active membership list and we will be using this list for upcoming work. We are constantly working on keeping the list up to date. If a change has occurred with any member companies representative, please send Lisa Cerone or Mike Hemsley your updated representative.
Status: Ongoing

3) The ITC undertook the rewriting of the Recommended Performance Guidelines. We have made significant progress in this rewrite. We are working hard on the remaining chapters that we felt needed a little more substance. The assignments have been made and I am receiving corrections daily.
Status: A deliverables date is set for Feb 2014

4) The ITC is working with volunteers to form Round Robin Groups. Arlis Kadrmas and Kevin McGlumphy are working to organize the groups and prioritize the list of tests and specifications that are to be reviewed. We are forming the membership into 3 categories based on volunteers and will begin to evaluate the emulsions under the new methods soon.
Status: Ongoing

5) Self Certification – I am working on a new poll to give to the state DOT’s on self certification to help put limits around the current practices for the DOT’s that do allow self certification. This is an effort to push the FHWA towards adopting a national standard.
Status: Ongoing

6) Additional Items suggested by the BOD – Education.
We are working with several member representatives on organizing the following:
- Converting / Organizing the AI / AEMA Train the Trainers presentations into a lecture(s)
- Potentially obtaining some current lectures used by a University on Asphalt Emulsions and Pavement Preservation.
Status: Ongoing

ARRA Cold Planing
Tom Chastain, Chairman

- Review BARM
- Indiana sand patch test documentation
- Eric Baker will secure an example of a sand patch test
- Photos updated thru process of elimination
- Check with other groups on pocket guides
- Consider separate meeting times-some contractors and manufacturers want to have opp. to go to multiple meetings.
- Review DR spec booklet
- Send list of potential ARRA members
- Put information out there for contractors to learn more about milling

ARRA Cold Recycling
Trevor Moore, Chairman

1) Selected winner of Excellence in Cold Recycling award.
2) Wish list –
   I) Complete Best Practices Guide, we already have Compaction Best Practices and Project Selection Guide but needs to be completed. Construction Best Practices needs to be developed
   II) Condition Manual to rate CIR pavements after construction – agencies revert back to appearance of HMA for acceptance purposes
   III) Development of performance criteria for performance specifications
   IV) Collection of research library – once was a TRC initiative taken to the board, what is status?
V) FHWA support program to provide funds to states wanting to perform CIR. Funds to be for candidate selection and QA testing to ensure success.

VI) FHWA to ensure CIR, gradation, core thickness, AC content, penetration to be included in CIR contracts.

3) Keep OCP Testing in CR201 but leave as separate section with qualification stating that this testing be performed by agency prior to letting contract.

ACTION PLAN/COMMITTEE ASSIGNMENTS:

1) CIR Checklist Subcommittee to provide suggestions for revision by November 29
2) BARM Subcommittee made revisions to draft copies, copies to be supplied to Steve Cross

ARRA Full Depth Reclamation/Soil Stabilization
Kimbel Stokes, Chairman

- Reviewed CORE Executive Committee meeting
- Everyday Counts - FHWA
- Promotion wish list
- BARM is in process, FDR is the last revision (January deadline, published 90 days after). All revisions or input will have to be participated through email.
- FDR 101, 102, 103 Review from board
  - All board recommendations were reviewed, discussed, accepted, or rejected per Kimbel’s notes.
  - Bituminous was approved per Kimbel’s notes - marked up copy (unanimous) Cementitous was approved per Kimbel’s notes - marked up copy (unanimous) LKD was approved per Kimbel’s notes - marked up copy (unanimous)
  - Lee Gallivan - FHWA
    - Need to promote the FDR Checklist – post on ARRA website.
    - Everyday Counts: In-Place Recycling has moved up on the list
    - Needs more ideas on how to better promote our technologies
  - Dr. Cross is writing Pre-construction Sampling and Mix Design guidelines & QA sampling and testing guidelines...
    - 201, 202, 203
    - 301, 302, 303

ARRA Hot In-Place Recycling
Pat Faster, Chairman

No Report

ISSA Chip Seal
Ben Vagher, Chairman

No Report

ISSA Crack Treatment
Bryan Darling, Chairman

Darling will make a couple of final changes to the crack treatment powerpoint for the ISSA website, and submit to ISSA Board and Technical Director Bob Jerman for final approval.

Next task is to develop a Crack Treatment Inspectors Manual, to follow the format of the Slurry Systems Inspectors Manual.

ISSA Slurry/Micro
Rusty Price, Chairman

No Report

ISSA Slurry Systems Workshop Committee
Rex Eberly, Chairman

- Finalized program and schedule details for 2014 SSWS
ISSA Technical Marketing Committee
Larry Tomkins, Chairman

Activity Report

Web Based Training (WBT)
- Phase 1 WBT
  - We have had around 300 new and returning users view the Chip Seal and Slurry/Micro WBTs since March. We also have numbers on how many times users logged into the WBTs per month. The graphs below show these comparisons by WBT.

![ISSA WBT Log-Ins Graph]

- ISSA WBT Log-Ins
- September: 4, 51
- August: 14, 72
- July: 19, 35
- June: 20, 101
- May: 21, 14
- April: 20, 67
- March: 22, 18

![ISSA WBT Total Log-Ins Graph]

- ISSA WBT Total Log-Ins
- Chip Seal WBT: 79%
- Slurry/Micro WBT: 21%
• A written request has been submitted to FHWA for a Phase One update. The letter is attached to this report detailing the budget for the update. We believe that this request will be approved by the FHWA based on the discussions we have had with them.

• Phase 2 WBTs
  • Outlines were obtained for the possible Phase 2 WBT topics, Slurry/Micro Spreader Box Principles and Crack Sealing Best Practices
  • Bryan Price of Crafco (crack sealing) and Scott Bergkamp of Bergkamp, Inc. (spreader box) have volunteered to be the SME’s for Phase 2
  • Attached to this report is the letter that has been submitted by Krisoff and Associates that details the proposed outline of each course and the budget. We wanted to submit the letter in order for us to get us in line for a Phase 2 pending final approval from the Board. This gives us a head start.

**Chip Seal Calculator**

- A new chip seal calculator has been developed for the website. The calculator details are as follows:
  - The design method is based on the McLeod method
  - A user is able to find a “starting point” on application rates for binder and aggregate.
  - A user is able to print a gradation curve of the aggregate.

*Continued on page 20*
The program automatically finds the median particle size of the gradation. This has normally been done by hand but is now done by an interpolation formula in Excel.

- Next steps
  - Evaluate the program to fix bugs
  - Develop adjustments for hot applied chip seals
  - Create possible additional spreadsheets for other design methods
  - Obtain input from Chip Seal Committee and others in the industry
  - Completion date goal: January 31st, 2014

**Slurry/Micro Calibration Forms**

- Slurry/Micro calibration forms were developed for the website. The details are as follows:
  - Based on the forms in the ISSA Inspector’s Manual
  - Most calculations have now been automated including automatically drawing the aggregate graph
  - The summary sheet automatically interpolates the gate setting based on dry aggregate count and emulsion content

- Next steps
  - Develop additional calibration sheets for VSS and CPM machines
  - Evaluate the program to fix bugs
  - Obtain input from Slurry/Micro Committee and others in the industry to improve the program
  - Completion date goal: January 31st, 2014

**Mix Design Video Tutorial**

- At the strategic planning meeting in June, a concept was discussed on using YouTube to educate more people on how you perform some of the mix design tests for slurry and micro.
- It was decided that the first tutorial video to be developed was the wet track abrasion test (TB-100).
- With the help of Mike Hemsley at Paragon, Mike and I came up with an outline of how the video would be shot and we used a video that the Oklahoma DOT had developed on the sand equivalency test as a guide for the format.
- Video was shot mid September and a narration script was developed a couple weeks later.
- We are now in the middle of editing the video but should have a rough draft in time for the PPRA meeting.
When Time Is Money, Speed Is Everything

Kennametal’s new ECO™ Pro tools are specially constructed so you can run your machines faster — with less fuel. That means significantly reduced overall operating costs, making RoadRazor ECO™ Pro an unmatched combination of ultimate service life, efficiency, and productivity.

- Lower operating costs.
- Reduced fuel consumption.
- Increased uptime and performance.
- Improved holder protection.

To experience the advantages of RoadRazor ECO™ Pro, contact your Kennametal salesperson or call 800.458.3608.
ARRA Immediate Past President Billy Garrity, Garrity Asphalt Reclaiming Inc.; ARRA President Patrick Faster, Gallagher Asphalt Corporation


Dave Welborn, MWV; Tom Flowers and Ron Matteson, Ergon Asphalt & Emulsions Inc.

Bucky Brooks, Asphalt Materials, Inc.; Scott Bergkamp, Bergkamp, Inc. and Mark McCollough, Asphalt Materials, Inc.

Etienne Le Bouteiller, Colas S.A. and Todd Thomas, Colas Solutions, Inc.

Eric Tulk and Brittany Blacklidge, Blacklidge Emulsions
PPRA Fall Meeting Album
November 11 - 13, 2014
Dallas, Texas

Jeff Gustafson, Superior Tire and Rubber Corporation

Joseph Leidy and Carmen Inglehart, Texas Department of Transportation

Morgan Kessler and Jason Harrington, Federal Highway Administration

Dennis Munks, The Sollami Company

Rob Hannon, Volvo Construction Equipment
John Barton, Deputy Executive Director, Texas Department of Transportation

Walter “Butch” Waidelich, Director of Field Services - West, Federal Highway Administration

ISSA President Christine Deneuvillers, Colas S.A.

Alan James, Akzo Nobel Surface Chemistry

ARRA Technical Director Stephen Cross, Ph.D., Oklahoma State University

Trevor Moore, Miller Paving
PPRA Fall Meeting Wrap-up

Find more photographs from the PPRA Fall Meeting on the PPRA Facebook page at:

http://www.facebook.com/PPRA.social

Visit the page and don't forget to "Like" us!

Tom Chastain, Wirtgen America

Dan Welsh, Viking Construction

David Stroud, Ergon Asphalt & Emulsions, Inc.

Bob Jerman, MWV; Diane Franseen, H.G. Meigs, LLC and Todd Weist, Tri-State Asphalt, LLC

John Irvine, ROADTEC, Inc.; John Guzman, Caterpillar Paving Products, Inc. That is Tom Flowers, Ergon Asphalt & Emulsions, Inc. in the background.
BASF Corporation.............................. Jim Andrews ...............................704-587-8147
Bergkamp Inc................................. Scott Bergkamp ..........................785-825-1375
BLS Enterprises, Inc......................... Barry Stoughton ..........................800-307-0299
Caterpillar Paving Products............... Terry Sharp .................................763-315-5503
Cleveland Asphalt Products............... Craig Moore ...............................713-202-4083
Cutler Repaving Inc........................ John Rathbun ...............................785-843-1524
Dustrol, Inc.................................... Brian Hansen ..............................316-619-4432
Ergon Asphalt & Emulsions, Inc.......... Mark Ishee ..................................601-933-3000
Heartland Asphalt Materials.............. Eric Bowen ..................................817-788-9700
Intermountain Slurry Seal .................. Kevin Harris ...............................682-229-0843
Kennametal Inc............................... Jeff Larson .................................724-610-3429
Norjohn Limited............................... Archie Reynolds ..........................905-336-1216
NovaPick......................................... Gary Peterson ..............................801-369-8671
Roadtec ........................................ Eric Baker ..................................423-265-0600
Sandvik MGT .................................. Dean Marks ................................423-217-9545
The Sollami Company......................... Dennis Munks .............................800-992-1521
Superior Tire & Rubber Corp.............. Jeff Gustafson ...............................814-723-2370
ULTRAPAVE Corp......................... Barry Baughman ......................... 706-277-1300 x4553
VSS Macropaver ................................ Doug Hogue .............................209-874-2357
VM Fiber Feeders, Inc....................... Terry Jackson ................................941-342-9997
Volvo Construction Equipment.......... Rob Hannan ......................... 502-415-1456
Western Emulsions.......................... Rusty Smallwood ..........................806-787-0557
Wirtgen America ................................ Mike Marshall ............................615-415-7332
PPRA Fall Meeting Wrap-up

OUR SPONSORS

CATERPILLAR

BASF

BERGKAMP

BLT Industries, Inc.

CUTLER Repaving Inc.

ERGON ASPHALT & EMULSIONS, INC.

HEARTLAND

INTERMOUNTAIN SHINY SEAL CO.

KERNMETAL

Loma 75

NORJOHN LIMITED

Novapick

ROADTEC

SANDVIK

SOLLAMI

SUPERIOR TIRE & RUBBER CORP

ULTRAPAVE Corp.

VOLVO

Western Emulsions

VM Fiber Feeders

Construction Equipment

MARTINDALE GROUP

ROAD AND MINERAL TECHNOLOGIES

An International Distributor of Fiber Products
ARRA’s Technical Review Committee Chairman, Todd Thomas (Colas Solutions Inc.) recently represented ARRA when he participated in the Alaska Asphalt Pavement Summit, organized by the Alaska Department of Transportation and Public Facilities and the Alaska Asphalt Paving Alliance (AAPA), this event provided interested parties with an opportunity to present and discuss current issues and review new techniques in the world of asphalt materials and paving.

During the 1.5-day Summit, speakers gave presentations on aviation and highways topics such as pavement/materials research, pavement preservation, maintenance, rehabilitation, recycling, construction best practices including longitudinal joints, intelligent compaction. Coverage included aviation and highway paving/materials issues.

This training class was aimed toward Federal, State, and local transportation agencies, consultants, contractors, producers and others involved in the planning, design, construction, maintenance and review of asphalt pavement projects.

Also on the program were Greg Sharp, representing ISSA and Brad Grose representing AEMA.

Presentations will be posted soon at:

http://www.dot.state.ak.us/stwddes/research/pavement_summit.shtml

<table>
<thead>
<tr>
<th>Day 1: Monday, 18-Nov-13</th>
<th>Presentation</th>
<th>By</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30 - 12:00</td>
<td>Registration / Sign In</td>
<td></td>
</tr>
<tr>
<td>12:00 - 12:15</td>
<td>Opening Statements / Welcome Notes</td>
<td>Mike San Angelo, DOT&amp;PF; Kim Rice, Dep. Commissioner, DOT&amp;PF</td>
</tr>
<tr>
<td>12:15 - 12:30</td>
<td>Alaska University Transportation Center Update</td>
<td>Billy Connor, AUTC</td>
</tr>
<tr>
<td>12:30 - 13:15</td>
<td>Overview of the National Center for Pavement Preservation</td>
<td>Larry Galehouse, NCPP</td>
</tr>
<tr>
<td>13:15 - 14:00</td>
<td>Pavement Preservation for Highways and Airports</td>
<td>Larry Galehouse, NCPP</td>
</tr>
<tr>
<td>14:00 - 14:15</td>
<td>BREAK</td>
<td></td>
</tr>
<tr>
<td>14:15 - 15:00</td>
<td>Pavement Maintenance Techniques for Highways and Airports</td>
<td>Greg Sharp, ISSA</td>
</tr>
<tr>
<td>15:00 - 15:45</td>
<td>Preserving Asphalt Pavements using Thin Film Surface Treatment Technologies</td>
<td>Brad Grose, AEMA</td>
</tr>
<tr>
<td>15:45 - 16:30</td>
<td>An Introduction to Modified Asphalt Binders</td>
<td>Chris Lubbers, AMAP</td>
</tr>
<tr>
<td>16:30 - 19:00</td>
<td>Hospitality event (no host bar): Hors D’Oeuvres provided by Paving Industry Sponsors</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Day 2: Tuesday, 19-Nov-13</th>
<th>Presentation</th>
<th>By</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 - 8:00</td>
<td>Registration / Sign In</td>
<td></td>
</tr>
<tr>
<td>8:00 - 8:40</td>
<td>Comparisons of Emulsion, Foamed, and Cement Treated Bases</td>
<td>Todd Thomas, ARRA</td>
</tr>
<tr>
<td>8:40 - 9:20</td>
<td>Cold Central Plant Recycling - Paving with 100% RAP Mix</td>
<td>Brad Neitzke, WFLHD-FHWA</td>
</tr>
<tr>
<td>9:20 - 10:00</td>
<td>Northern Region’s Experiences with Material Transfer Vehicles</td>
<td>Andrew Schultz, David Arvey, DOT&amp;PF; Kelly Painter, GNI</td>
</tr>
<tr>
<td>10:00 - 10:15</td>
<td>BREAK</td>
<td></td>
</tr>
<tr>
<td>10:15 - 11:05</td>
<td>Anchorage’s Dimend Blvd Paving using Hard Aggregate</td>
<td>Jason Lameraux, DOT&amp;PF; Josh Hart, Granite Construction</td>
</tr>
<tr>
<td>11:05 - 12:00</td>
<td>Sitka Airport Paving using Intelligent Compaction</td>
<td>Bruce Brunette, DOT&amp;PF; Amanda Gilliland, Knik Construction</td>
</tr>
<tr>
<td>12:00 - 1:30 pm</td>
<td>LUNCH (on your own)</td>
<td></td>
</tr>
<tr>
<td>1:30 - 14:15</td>
<td>Airfield Asphalt Pavements: Materials &amp; Mix Design</td>
<td>John Duval, Pavement Services Inc.</td>
</tr>
<tr>
<td>14:15 - 15:00</td>
<td>Airfield Asphalt Pavement Construction, Preservation, Maintenance</td>
<td>John Duval, Pavement Services Inc.</td>
</tr>
<tr>
<td>15:00 - 15:15</td>
<td>BREAK</td>
<td></td>
</tr>
<tr>
<td>15:15 - 16:00</td>
<td>Reclaimed Asphalt Pavement: State-of-the-Practice</td>
<td>David Johnson, The Asphalt Institute</td>
</tr>
<tr>
<td>16:00 - 16:45</td>
<td>Longitudinal Joint Construction</td>
<td>David Johnson, The Asphalt Institute</td>
</tr>
</tbody>
</table>

Spread the Word
Members, if you have been involved with an activity designed to promote and/or educate our industry, please let us know! Contact Mike Krissoff - krissoff@krissoff.org or call Headquarters (410-267-0023). We want to give you credit for your efforts and at the same time, encourage others to follow your example.
The ARRA Booth made an appearance at the Illinois Association of County Engineers

This was the final set-up for the ARRA booth as it was displayed at the Fall Meeting for the IL Association of County Engineers (IACE) on October 10, 2013

**BEFORE** - This is an example of a road that has a non-uniform base with softer material. The road is failing under the load of traffic.

**AFTER** - This shows the same materials stabilized (mixed together) that yielded a stronger road that supports the same load that caused the non-stabilized road to fail.

ARRA Affiliate Member Chair, Stephanie Drain (S. Drain Engineering of IL, LLC) prepared the "sweet" little demo of a non-stabilized road base vs a stabilized road base.
2013 Midwestern States Regional In-Place Recycling Conference Schaumburg, Illinois

Field Trip
HIR

*CPhotographs submitted by Tom Kuennen, ExpresswaysOnline.com*
Welcome to Illinois
Steve Mueller, FHWA
ARRA Welcome
Pat Faster, Gallagher Asphalt
FHWA Welcome
Glenn Fulkerson, FHWA
FHWA Initiatives in Sustainability
Butch Wlaschin, FHWA
Benefit of In-Place Recycling to State Highway Programs
Jim Pappas, Delaware DOT

In-Place Recycling on Illinois DOT and BLRS Roadways
Kevin Burke, LaDonna Rowden, Kyle Videgar - Illinois DOT,
Bureau of Local Roads & Streets
Bureau of Local Roads & Streets: In-Place Recycling Policy &
Specifications (powerpoint only)
Bureau of Local Roads & Streets
NHI Training Course on In-Place Recycling
Tim Aschenbrener, FHWA
Seven Steps of Implementing In-Place Recycling by Public
Agencies
Tim Aschenbrener, FHWA
Cook County - In-Place Recycling Activities
Paulino Leyva, Cook County
State Presentations: Oklahoma DOT
Taylor Henderson, Oklahoma DOT
State Presentations: Montana DOT
Jason Sorenson, Montana DOT
State Presentations: Manitoba
Tara Liske and Larry Halayko, Manitoba
State Presentations: Nebraska DOT
Andy Dearmont, Nebraska DOT
State Presentations: Iowa DOT
Jason Klemme and Newman Abuissa, Iowa DOT
MoDOT - Roadway Reclaim Projects due to Birds Point
Floodway Damages
Todd Miller, Missouri DOT
Mix Design for CIR and FDR - Coaching Our Way to Success
Stephanie Drain, S. Drain Engineering
History, Performance and Benefits of CIR
Steve Cross, ARRA
Full Depth Reclamation (FDR) Overview
Todd Thomas, Colas Solutions, Inc.
Hot In-Place Recycling in Mequon, WI
William Hoppe, City of Mequon, WI
Implementing a CIR Project - Creating a CIR Program
Chuck Valentine, Sandvik
Cold In-Place Recycling - Project Selection
Kevin McGlumphy, Road Science
Full Depth Recycling - A Contractors Perspective
Tom Johnson, Midstates Reclamation
Hot In-Place Recycling Overview
John Rathbun, Cutler Repaving
2013 BARM Updates and Design Considerations
Lee Gallivan, FHWA
Development of ARRA Specification Guidelines and Field
Inspector Guidelines
Steve Cross, ARRA
Lessons Learned: How States Will Implement In-Place Recycling
Moderated by Brian Pfeifer, States DOTs
Conclusion, Summary and Adjournment
Steve Mueller and Lee Gallivan, FHWA
Field Trip Recycling Demonstrations

The following presentations from the conference are available in either video or pdf format through the link below:
Decades in the making, the Occupational Safety and Health Administration (OSHA) released a proposed permissible exposure level (PEL) for silica dust. The proposed level is more stringent than the agency's current regulations, but thanks to the work of the Silica/Milling Machine Partnership, the asphalt industry is positioned to meet the new standard.

The proposed PEL for silica dust is now set at 50 micrograms of respirable crystalline silica per cubic meter of air (50 μg/m³). This is consistent with the National Institute for Occupational Safety and Health’s (NIOSH) current recommended exposure level (REL) for silica, and will provide greater protection for those who work with materials that cause silica exposure. Silica, a known carcinogen, is also known to cause silicosis, a restrictive lung disease. For the asphalt pavement industry, dust from roadway milling operations is the greatest potential source of silica exposure for workers. Steps to mitigate this hazard have been well documented, and current milling-machine technology can ensure exposure levels below the current OSHA standard.

Over the past decade, the Silica/Milling Machine partnership – which is made up of the National Asphalt Pavement Association (NAPA), milling-machine manufacturers, labor, academia, and NIOSH – has worked to identify simple retrofits for existing milling machines that effectively reduce potential silica exposure below OSHA’s new proposed PEL. More advanced systems that could reduce dust and potential silica exposure is reduced to the absolutely lowest level possible,” says Tony Bodway, operations manager for Wisconsin based contractor Payne & Dolan Inc. and chairman of the Silica/Milling Machine Partnership. “These are complicated field trials, with lots of coordination and effort, all while working alongside government occupational health agency personnel. Everyone involved has been focused on the ensuring we do our best.”

While the proposed PEL is achievable, as part of the federal rulemaking process, NAPA will file comments offering suggestions to help better calibrate the rule to the industry’s exposure potential. NIOSH is expected to release in the coming months a best practices document for roadway milling based on the work of the Silica/Milling Machine Partnership. This document will provide a simple roadmap to ensure that any dust generated during milling operations is well-controlled and that workers experience a safe workplace.

Update – Silica/Asphalt Milling Machine Partnership
From the National Asphalt Pavement Association (NAPA)

The Asphalt/Milling Machine Partnership is currently focused on four major opportunities:

- Response to the current OSHA notice of proposed rulemaking regarding silica standards by the January 27th deadline.
- Submittal of notice of intent and organization of a panel comprised of labor, equipment manufacturer, and contractor representatives to present the Partnership response to proposed rulemaking during a March 18th, 2014 public hearing in Washington, D.C.
- Working with NIOSH to complete their proposed guidance for engineering controls and best practices to reduce respirable silica dust from half lane and larger asphalt milling machines.
- Completion of development and field testing of engineering controls for reduction of silica bearing dust on remaining milling machines.

On November 20th representatives of the machine manufacturers, contractors and labor came together at the NAPA office to develop a framework and action plan for the response to proposed OSHA rulemaking. The group was joined by John Keating, NAPA Chairman and Mike Acott president of NAPA who thanked the Partnership for the 10 years of hard work and reinforced the criticality of positioning this Industry for strength and success going forward. The group is continuing to address the above opportunities in an orderly and timely manner under the leadership of Tony Bodway, long standing Chairman of the Partnership and Operations Manager for Payne & Dolan.

Asphalt Industry Positioned to Meet OSHA’s Proposed Silica Standard Rule
From Asphalt Contractor Magazine, October 2013

Decades in the making, the Occupational Safety and Health Administration (OSHA) released a proposed permissible exposure level (PEL) for silica dust. The proposed level is more stringent than the agency’s current regulations, but thanks to the work of the Silica/Milling Machine Partnership, the asphalt industry is positioned to meet the new standard.

The proposed PEL for silica dust is now set at 50 micrograms of respirable crystalline silica per cubic meter of air (50 μg/m³). This is consistent with the National Institute for Occupational Safety and Health’s (NIOSH) current recommended exposure level (REL) for silica, and will provide greater protection for those who work with materials that cause silica exposure. Silica, a known carcinogen, is also known to cause silicosis, a restrictive lung disease. For the asphalt pavement industry, dust from roadway milling operations is the greatest potential source of silica exposure for workers. Steps to mitigate this hazard have been well documented, and current milling-machine technology can ensure exposure levels below the current OSHA standard.

Over the past decade, the Silica/Milling Machine partnership – which is made up of the National Asphalt Pavement Association (NAPA), milling-machine manufacturers, labor, academia, and NIOSH – has worked to identify simple retrofits for existing milling machines that effectively reduce potential silica exposure below OSHA’s new proposed PEL. More advanced systems that could reduce dust and potential silica exposure is reduced to the absolutely lowest level possible,” says Tony Bodway, operations manager for Wisconsin based contractor Payne & Dolan Inc. and chairman of the Silica/Milling Machine Partnership. “These are complicated field trials, with lots of coordination and effort, all while working alongside government occupational health agency personnel. Everyone involved has been focused on the ensuring we do our best.”

While the proposed PEL is achievable, as part of the federal rulemaking process, NAPA will file comments offering suggestions to help better calibrate the rule to the industry’s exposure potential. NIOSH is expected to release in the coming months a best practices document for roadway milling based on the work of the Silica/Milling Machine Partnership. This document will provide a simple roadmap to ensure that any dust generated during milling operations is well-controlled and that workers experience a safe workplace.

AEMA-ARRA-ISSA Newsletter 2013 Issue #4
Using a rotary mixer just makes more sense. The RM500 grinds up existing pavement and mixes it in place with base materials and any other specified remedial agents.

Costs are saved on pavement removal and/or replacement, plus any existing problems in the base are remedied.

The result is a better road built at a fraction of the time and cost of total reconstruction, with less cost for future maintenance and longer life than an overlay.

The RM500 is the greener, cost effective alternative for road rehabilitation. Check out the RM500 at your local Cat® dealer today.

www.cat.com/paving

SAVE COST.
SAVE TIME.
SAVE THE PLANET.
Update of ARRA Technical Director’s Activities

Stephen A. Cross, Technical Director, ARRA

It has been a busy six months since I made the transition into the role of ARRA’s technical director. At least from my end, it was a rather painless transition thanks to the patience and guidance from the Board members, CORE Committee chairmen, excellent staff at ARRA, and too many other members to mention. Your efforts on my behalf are greatly appreciated.

One of the most common questions I am asked concerns the status of the new Basic Asphalt Recycling Manual or BARM II. We are nearing completion and hope to have a finalized version ready for the publisher by the Annual Meeting in February. The new BARM is more than a simple update of the original document that has served us well since its publication in 2001. The second edition keeps the basic structure of the original document but will consist of a complete revision of all chapters. The process has consisted of an initial revision and review of the chapters covering each ARRA discipline by the respective CORE Committees, followed by a line by line review of the entire draft document by a small group consisting of FHWA and ARRA members. The goal of this thorough review is to maintain consistent terminology throughout each chapter and to ensure the latest CORE Committee recommendations are included. After completion of this review, chapters are sent back to the respective ARRA CORE Committees for a final review. As of the date of the writing of this article, three of the four CORE Committees have received their final draft chapters and returned their comments. We have a goal of completing the document by the Annual Meeting.

Going hand-in-hand with the revision of the BARM has been the development of construction, mix design and preconstruction sampling, and quality assurance guidelines for some of the ARRA CORE disciplines. Significant progress was made on final reviews of these draft documents at the fall PPRA meeting in Dallas. Look for these to start appearing on the ARRA web site this spring.

Progress is being made on additional training/educational fronts as well. The PRRC developed a draft pocket guide or checklist for full depth reclamation (FDR) to match the FHWA checklist series developed by the Foundation for Pavement Preservation (FP2). The draft FDR checklist was reviewed and revised by ARRA and FHWA has been recently published by FHWA as publication FHWA-HIF-13-036. In addition, with FHWA’s assistance, we have completed a revision of FP2’s Hot In-place Asphalt Recycling Application Checklist, FHWA-HIF-13-061 and are currently revising FP2’s Cold In-place Asphalt Recycling Application Checklist. The revised checklists are available on the FHWA web site at http://www.fhwa.dot.gov/Pavement/preservation/ppcl00.cfm and will be posted on ARRA’s web site when all three are completed.

Finally, ARRA was asked to participate in the development of three web based interactive training courses on in-place recycling. These courses are developed by the Transportation Curriculum Coordination Council (TCCC) and completed courses are hosted on the National Highway Institute’s web site. The courses are designed for local, county and state owner agency technicians/inspectors. The CIR course is a 4 hour basic training course consisting of three modules covering an introduction to the CIR process, full and post production inspection activities. Information the recently completed TCCC Inspector Training for Cold In-Place Recycling, FHWA-NHI-134114, is available at www.nhi.fhwa.dot.gov/training/course_search.aspx or at www.tccc.gov. Plans are in the works for classes on hot in-place recycling and full depth reclamation for 2014.
2014 and Beyond

Mike Dougherty, Online & Social Media Marketing Manager

2013 has been a great year here at AEMA-ARRA-ISSA, but, as the end of the year gets closer, I am extremely looking forward to 2014 and everything it has to offer.

2014 will be the launch of the new websites for each of the associations. It will also be the official launch of the new online stores which have been in soft launch for the past month. These new online stores will allow us to sell physical and digital products as well as do online registration for events and instant credit card processing all through one portal per association.

2014 will have a big focus on driving membership through online engagement and making the user experience a bit friendlier. Instead of creating stale content, we'd like to create more user designed topics. I look forward to your feedback. What areas can we improve upon with the website? What topics would you like to see talked about?

The preservation group study at NCAT on Lee County Road 159 continues to be monitored with an array of equipment on a weekly and monthly basis depending on equipment type and availability. Construction information for each treatment can be accessed at www.pavetrack.com by clicking on each section of Lee Road 159 which is displayed near the bottom of the page. Performance data for each section should be available soon and funding partners (seven DOTs and FP2 Inc.) will meet in early December, 2013 to review results.

We continue to be involved in trying to understand the July Technical Memo issued by the Department of Justice and FHWA regarding maintenance and alterations to the pavement surface during resurfacing. Some preservation treatments that in the past have been exempted from compliance with the Americans with Disabilities Act (maintenance) are now considered alterations. Local governments are particularly affected by the memo which attempted to provide clarity to the provisions of the existing statute.

FP2 Inc. Update

Jim Moulthrop, Executive Director

Our annual FHWA/James B. Sorenson Excellence in Pavement Preservation Award was presented at the recent Midwest Pavement Preservation Partnership meeting in Indianapolis, IN, to the New Hampshire Department of Transportation. Commissioner Chris Clement and Pavement Management Engineer Eric Thibadeau were both present and Commissioner Clement accepted the award and presented New Hampshire DOT’s vision of preservation, some of the difficulties in championing such a program and the benefits of a robust pavement preservation program.

FP2 Inc. board members and contributors convened a Strategic Planning session in late October to discuss current issues and plan for future activities.

1. Continue our advocacy efforts for keeping good roads good with national, state, and local officials. We will be engaged in the predecessor to MAP-21 legislation that will emerge in 2014 as the current legislation expires. The major issue in the next bill will be the revenue source to adequately enhance the Highway Trust Fund.

2. Support pavement preservation research of strategic importance and that have long-term consequences.

3. We plan to spread the pavement preservation message to a broad array of audiences.

If you are planning to attend the annual Transportation Research Board meeting in Washington during January, 2014, plan to stop by our hospitality room (9021 in the Marriott Wardman Park) and “talk” preservation with your colleagues from around the nation and world.

2014 and Beyond

Mike Dougherty, Online & Social Media Marketing Manager

2013 has been a great year here at AEMA-ARRA-ISSA, but, as the end of the year gets closer, I am extremely looking forward to 2014 and everything it has to offer.

2014 will be the launch of the new websites for each of the associations. It will also be the official launch of the new online stores which have been in soft launch for the past month. These new online stores will allow us to sell physical and digital products as well as do online registration for events and instant credit card processing all through one portal per association.

2014 will have a big focus on driving membership through online engagement and making the user experience a bit friendlier. Instead of creating stale content, we’d like to create more user designed topics. I look forward to your feedback. What areas can we improve upon with the website? What topics would you like to see talked about?

AEMA-ARRA-ISSA Newsletter 2013 Issue #4
UC - Davis and UC - Berkeley Plan Pavement Life Cycle Assessment Workshop in 2014

International Symposium on Pavement LCA (Pavement LCA 2014)
TRB Co-Sponsored
(Sustainable Pavements AFD00(1))
FHWA Co-Sponsored
(Sustainable Pavement Task Group)

| Location: | UC Davis Campus Conference Center; Davis, CA, USA |
| Date: | October 14-16, 2014 |
| Description: | This workshop, hosted by the University of California, Davis and the University of California, Berkeley, will focus on the implementation of Life Cycle Assessment (LCA) for pavements. The workshop will be coordinated with activities of the FWHA Sustainable Pavement Technical Working Group. The workshop subject is implementation of LCA in pavement operations, at network and project levels. The purpose of the workshop is to review current status, identify the extent of consensus, and discuss future developments for implementation of pavement LCA in North America. This workshop will be a follow up to the 2010 Pavement LCA workshop held at UC Davis and the 2012 RILEM meeting on LCA for pavement materials held in Nantes, France. |
| Expected Attendees: | 100-200, open to all. |
| Anticipated Products: | Pre-conference document for discussion at breakout sessions, conference document and results of breakout sessions and summary session, website for workshop, and published proceedings (electronic and paper) from submitted papers. |
| Other Sponsors: | ISAP Environment Committee, ISCP. Organizational support from ITS Tech Transfer at UC Berkeley. |
| Funding: | The workshop will be funded by attendance and institutional sponsors (no funding from TRB or FHWA). |
| Scientific Committee | The Scientific Committee is being solicited from members of the FHWA SPTG, TRB AFD00(1) and attendees of the 2010 and 2012 meetings. |
| Papers | Call for papers December 5, 2013 Second call for papers January 5, 2013 March 1, 2014 first submission of papers April 15, 2014 Comments back to authors July 15, 2014 Final paper submission |

You may obtain additional information here:

http://www.ucprc.ucdavis.edu/LCA2014/
#1 POLYURETHANE TRACK PAD IN THE WORLD!

TUFPADS® HIGHTOP BLUES

REQUEST QUOTE
CALL 1-800-307-0299

LASTS UP TO 88% LONGER Than Standard Black Polyurethane

WHY SO BLUE?
An Additive in the Blue Polyurethane Makes the Pad More Abrasion Resistant

1-800-307-0299 +1-630-766-1300
1120 Thorndale Ave. - Bensenville, IL 60106 USA

bls@tufpads.com www.tufpads.com
Message from New Chairman
Yukio Yamauchi, Chairman, JEAA

This is a message from Yukio Yamauchi, the new Chairman of JEAA elected at the 33rd Annual Meeting in June. The production amount of asphalt emulsion in Japan in 2012 was 160,000 tons, only 22% of the peak amount of 710,000 tons in the 1970’s. On the contrary, cold in-place recycling and WMA are widely accepted in Europe and creating the market of asphalt emulsion.

Now the infrastructure, including asphalt pavement in Japan gets older and it is the era of maintenance and rehabilitation. The budget for public work has been increasing as one of the economic-boosting policies, and it is a good opportunity for us to promote the advantage of using asphalt emulsion as economical and environmentally friendly technology.

Introduction of Paper from the 5th Eurasphalt & Eurobitume Congress (1)
Overseas Documents Working Group, Technical Committee, JEAA

This is the introduction of a paper from the 5th Eurasphalt & Eurobitume Congress in 2012. In this issue, the following paper is translated and introduced:

A5EE-178 Evaluation of Tack Coat Performance for thin and Ultra-Thin Asphalt Pavements
Alexandra Destree, Joelle De Visscher, Ann Vanelstraete (Belgium)

Introduction of Paper from the 5th Eurasphalt & Eurobitume Congress (2)
Overseas Documents Working Group, Technical Committee, JEAA

This is the introduction of a paper from the 5th Eurasphalt & Eurobitume Congress in 2012. In this issue, the following paper is translated and introduced:

A5EE-138 Warm Mix Asphalt Based on Bitumen Emulsions
Francisco Jose Barcelo Martinez, Antoin Paez Duenas (Spain)

Article from AEMA Newsletter

This is a Japanese translation of the article “2012 Western States Regional In-Place Recycling Conference”, which was originally published by AEMA Newsletter 2012 #4.

Trekking Course in Seoul, Korea (2)
Jeong Hong Ki, Representative Director, IL WOO PPC

Naesasan hiking course in Seoul is one of the famous trekking courses in Korea. It is developed along 20 km of old castle wall and consists of four trails. In this Issue, Bugaksan and Naksan hiking courses are introduced.

Questions and Answers
Technical Committee, JEAA

Questions from JEAA members and answers from Technical Committee; tack coat in porous asphalt rehabilitation with thin overlay, type of water used in asphalt emulsion, structure of self priming asphalt finisher, tank capacity and type of asphalt distributor.

Topics and JEAA News

1. 33rd Annual Meeting was held on June 19, 2013 and Yukio Yamauchi was elected as new Chairman of JEAA.

The JEAA Activities Plan in 2013 is presented and approved as follows:

1. Standardization of asphalt emulsion quality, surveying manufacturing technology.
2. Developing and promoting multilateral demand of asphalt emulsion.
   1) Promoting cold mix paving
   2) Promoting modified asphalt emulsion for impermeable layer in porous asphalt pavement
   3) Surveying technology to expand use of asphalt emulsion

3. Survey and research of manufacturing/application of asphalt emulsion Bibliographic survey (domestic and abroad) on application of cold mix and WMA.

4. Surveying demand and technical trend of asphalt emulsion, providing information, promotion and education of research result.
   1) Publishing bulletin “Asphalt Emulsion” (3,300 in January, 3,100 copies in April and August)
   2) Digitalizing bulletin No.1 – 100 for archives
   3) Translation and reprint of the paper on 5th E&E Congress
   4) Providing document for technical seminar, including its revision
   5) Presentation and co-sponsoring 92nd Asphalt Seminar
   6) Cooperating 30th Japan Road Conference
   7) Discussion with authorities and associations
   8) Fulfilling and renewing JEAA Website

5. Other associated activities

2. Asphalt Emulsion production amount by JEAA members (FY 2012, April – June 2013) is shown below:

<table>
<thead>
<tr>
<th>Division</th>
<th>Penetration Type</th>
<th>Mixing Type</th>
<th>Modified Emulsion</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hokkaido</td>
<td>6,809</td>
<td>641</td>
<td>1,067</td>
<td>8,517</td>
</tr>
<tr>
<td>Tohoku</td>
<td>21,896</td>
<td>9,809</td>
<td>2,721</td>
<td>34,426</td>
</tr>
<tr>
<td>Kanto</td>
<td>29,450</td>
<td>7,638</td>
<td>5,559</td>
<td>42,647</td>
</tr>
<tr>
<td>Hokuriku</td>
<td>5,641</td>
<td>636</td>
<td>393</td>
<td>6,670</td>
</tr>
<tr>
<td>Chubu</td>
<td>11,458</td>
<td>7,538</td>
<td>2,685</td>
<td>21,681</td>
</tr>
<tr>
<td>Kinki</td>
<td>7,744</td>
<td>1,976</td>
<td>1,848</td>
<td>11,568</td>
</tr>
<tr>
<td>Chugoku</td>
<td>6,957</td>
<td>1,506</td>
<td>1,406</td>
<td>9,869</td>
</tr>
<tr>
<td>Shikoku</td>
<td>3,658</td>
<td>463</td>
<td>250</td>
<td>4,371</td>
</tr>
<tr>
<td>Kyushu</td>
<td>14,085</td>
<td>3,607</td>
<td>2,125</td>
<td>19,187</td>
</tr>
<tr>
<td>Okinawa</td>
<td>1,910</td>
<td>0</td>
<td>55</td>
<td>1,965</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>109,608</strong></td>
<td><strong>33,814</strong></td>
<td><strong>18,109</strong></td>
<td><strong>161,531</strong></td>
</tr>
</tbody>
</table>

Asphalt Emulsion Productions from April – June 2013 (t)

<table>
<thead>
<tr>
<th>Division</th>
<th>Penetration Type</th>
<th>Mixing Type</th>
<th>Modified Emulsion</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hokkaido</td>
<td>1,267</td>
<td>69</td>
<td>398</td>
<td>1,734</td>
</tr>
<tr>
<td>Tohoku</td>
<td>5,738</td>
<td>3,669</td>
<td>241</td>
<td>9,648</td>
</tr>
<tr>
<td>Kanto</td>
<td>5,245</td>
<td>1,388</td>
<td>856</td>
<td>7,489</td>
</tr>
<tr>
<td>Hokuriku</td>
<td>1,285</td>
<td>139</td>
<td>95</td>
<td>1,519</td>
</tr>
<tr>
<td>Chubu</td>
<td>2,046</td>
<td>612</td>
<td>559</td>
<td>3,217</td>
</tr>
<tr>
<td>Kinki</td>
<td>1,519</td>
<td>320</td>
<td>422</td>
<td>2,261</td>
</tr>
<tr>
<td>Chugoku</td>
<td>1,375</td>
<td>217</td>
<td>487</td>
<td>2,079</td>
</tr>
<tr>
<td>Shikoku</td>
<td>639</td>
<td>170</td>
<td>73</td>
<td>882</td>
</tr>
<tr>
<td>Kyushu</td>
<td>2,511</td>
<td>1,075</td>
<td>428</td>
<td>4,014</td>
</tr>
<tr>
<td>Okinawa</td>
<td>248</td>
<td>0</td>
<td>14</td>
<td>262</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>21,873</strong></td>
<td><strong>7,659</strong></td>
<td><strong>3,573</strong></td>
<td><strong>33,105</strong></td>
</tr>
</tbody>
</table>

AEMA-ARRA-ISSA Newsletter 2013 Issue #4
Asphalt Academy of the Asphalt Institute Announces Fall 2013 and All 2014 Courses & Webinars


Asphalt Emulsions

- Asphalt Emulsion Series – Session 1 – Introduction and Chemistry: 2 PDHs, REC $50
- Asphalt Emulsion Series – Session 2 – Storage, handling & sampling testing, selecting the right grade: 2 PDHs, REC $50
- Asphalt Emulsion Series – Session 3 – Surface treatment (chip seals, slurry, micro, etc.): 2 PDHs, REC $50
- Asphalt Emulsion Series – Session 4 – Emulsion aggregate mixtures: 2 PDHs, REC $50
- Asphalt Emulsion Series – Session 5 – Asphalt pavement recycling, miscellaneous applications: 2 PDHs, REC $50

Preservation – Maintenance and Rehabilitation

- Cold Mix Paving – If we can make HMA warm, can we make it cold?: 1.5 PDHs, REC $50
- Introduction to Cold In-Place Recycling: 1.5 PDHs, REC $50
- Combining Preservation Treatments: 1.5 PDHs, REC $50
- Pavement Management Systems: 1.5 PDHs, REC $50
- ISSA Inspector’s Manual for Slurry Seal/Microsurfacing: 1.5 PDHs, REC $50
- Mix Design Methods for Slurry Seal/Microsurfacing Chip Seals: 1.5 PDHs, REC $50
- Pavement Preservation Treatments Series – Introduction to Crack Treatments & Best Practices: 2 PDHs, REC $50
- Pavement Preservation Treatments Series – Introduction to Slurry Seal & Microsurfacing & Best Practices: 2 PDHs, REC $50
- Pavement Preservation Treatments Series – Introduction to Chip Seals & Best Practices: 2 PDHs, REC $50
INTERNATIONAL SLURRY SURFACING ASSOCIATION

2014 SLURRY SYSTEMS WORKSHOP
Featuring Pavement Preservation Techniques Including:
Micro Surfacing/Slurry Surfacing/Chip Seal & Crack Treatment

Registration Brochure
HANDS ON PROGRAM FOR ENGINEERS, INSPECTORS, AND INDUSTRY PERSONNEL

January 21 - 24, 2014
Caribe Royale Hotel
Orlando, Florida

Big changes to Program Schedule
See page 2
**WHAT IS THE SLURRY SYSTEMS WORKSHOP?**

The Slurry Systems Workshop is a study course offering a challenging and informative program on slurry seal, micro surfacing, chip seals and crack treatments with "hands-on" operation demonstrations and workshop-type discussions. Highly qualified Pavement Preservation Specialists will cover topics on the above listed processes, including materials and equipment, specifications, hand mixes, calibration, quality control, and inspection.

Attendees will also be able to view state of the art slurry, micro surfacing, chip seals and crack treatment equipment, independent of the paving demonstrations.

ISSA encourages all ISSA members, and non-members who are contractors, suppliers, engineers, consultants as well as government agencies to attend this valuable workshop. A certificate of achievement will be awarded to all participants at the completion of the workshop.

In addition to attending the workshop, your company or organization can become a workshop sponsor. Your company name will be listed in the final program as a sponsor, displayed on signage, and you'll have the opportunity to bring company literature to display.

Please read all of the enclosed information and send in your registration for this valuable and popular workshop. We look forward to seeing you in Orlando!

---

**PRELIMINARY PROGRAM**

(subject to change without notice)

<table>
<thead>
<tr>
<th>Tuesday, January 21, 2014</th>
<th>Thursday, January 23, 2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00am - 1:00pm Registration Desk Open</td>
<td>7:00am - 8:00am Continental Breakfast</td>
</tr>
<tr>
<td>7:00am - 8:00am Continental Breakfast</td>
<td>7:00am - 4:00pm Registration Desk Open</td>
</tr>
<tr>
<td>8:00am - 8:10am ISSA Welcome</td>
<td>8:00am - 9:00am Quality in Pavement Preservation</td>
</tr>
<tr>
<td>8:10am - 8:15am Presidents Message</td>
<td>9:00am - 9:30am Troubleshooting Slurry Systems in the Field</td>
</tr>
<tr>
<td>8:15am - 9:00am Introduction to Slurry Systems</td>
<td>9:30am - 9:55am Factors Affecting Mix Design Methodology</td>
</tr>
<tr>
<td>9:00am - 9:50am Introduction to Crack Treatments</td>
<td>9:55am - 10:00am Hand Mix Preview</td>
</tr>
<tr>
<td>9:50am - 10:05am Break</td>
<td>10:00am - 10:15am Break</td>
</tr>
<tr>
<td>10:05am - 10:45am Emulsions for Pavement Preservation</td>
<td>10:15am - 11:30pm Group 1 - Slurry/Micro Calibration</td>
</tr>
<tr>
<td>10:45am - 11:05am Aggregates for Emulsion Based Pavement Preservation</td>
<td>11:30am - 12:45pm Group 1 - Daily Material Reports and Other Record Keeping</td>
</tr>
<tr>
<td>11:05am - 11:35pm Designing a Successful Pavement Preservation Project</td>
<td>10:15am - 12:45pm Group 2 - Hand Mixes - 15 minutes per session</td>
</tr>
<tr>
<td>11:35am - 12:00pm Preview of Outside Demo</td>
<td>12:45pm - 1:45pm Lunch</td>
</tr>
<tr>
<td>12:00pm - 12:45pm Lunch</td>
<td>1:45pm - 3:00pm Group 2 - Slurry/Micro Calibration</td>
</tr>
<tr>
<td>12:45pm - 12:55pm Board Buses for Demo</td>
<td>3:00pm - 4:15pm Group 2 - Daily Material Reports and Other Record Keeping</td>
</tr>
<tr>
<td>1:00pm - 4:30pm Equipment Parade &amp; Live Demonstrations</td>
<td>1:45pm - 4:15pm Group 1 - Hand Mixes - 15 minutes per session</td>
</tr>
<tr>
<td>Crack Sealing</td>
<td>Slurry Seal Hand Mixes</td>
</tr>
<tr>
<td>Chip Seal</td>
<td>Laboratory Equipment</td>
</tr>
<tr>
<td>Slurry/Micro</td>
<td>Micro Surface Hand Mixes</td>
</tr>
<tr>
<td>4:30pm - 4:45pm Lunch</td>
<td>Micro Surface - Troubleshooting</td>
</tr>
<tr>
<td>6:00pm - 7:30pm Sponsors Reception</td>
<td>Chip Seal</td>
</tr>
<tr>
<td>Group 2 - Crack Treatment</td>
<td>Crack Treatment</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wednesday, January 22, 2014</th>
<th>Friday, January 24, 2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:00am - 8:00am Continental Breakfast</td>
<td>7:00am - 8:00am Continental Breakfast</td>
</tr>
<tr>
<td>7:00am - 5:00pm Registration Desk Open</td>
<td>7:00am - 11:00am Registration Desk Open</td>
</tr>
<tr>
<td>8:00am - 8:25am Demo Review and Questions</td>
<td>8:00am - 8:05am Review/Preview/Questions</td>
</tr>
<tr>
<td>8:25am - 10:00am Introduction to Chip Seals</td>
<td>8:05am - 8:35am What Quality Means to an Agency</td>
</tr>
<tr>
<td>10:00am - 10:15am Break</td>
<td>8:35am - 9:00am ISSA Web-Based Training</td>
</tr>
<tr>
<td>10:15am - 10:35pm ISSA Presidents' Award</td>
<td>9:00am - 9:30am Equipment Maintenance</td>
</tr>
<tr>
<td>10:35am - 11:00am Emulsion Storage, Handling &amp; Shipping</td>
<td>9:30am - 10:00am Review of Fiber Slurry Systems – Materials, Specs, Advantages</td>
</tr>
<tr>
<td>11:00am - 11:30am Marketing Preservation Processes</td>
<td>10:00am - 10:30am Crack Treatments</td>
</tr>
<tr>
<td>11:30am - 12:00pm FHWA Report</td>
<td>10:30am - 11:00am Cape Seals</td>
</tr>
<tr>
<td>12:00pm - 1:00pm Lunch</td>
<td>10:50am - 11:00am SSWS Closing Remarks/Adjournment</td>
</tr>
<tr>
<td>1:00pm - 1:30pm Pavement Preservation through In-Place Recycling</td>
<td></td>
</tr>
<tr>
<td>1:30pm - 2:00pm Slurry Systems Best Practices and Craftsmanship</td>
<td></td>
</tr>
<tr>
<td>2:00pm - 2:30pm Spreader Box/Pugmill Principles</td>
<td></td>
</tr>
<tr>
<td>2:30pm - 3:00pm Inspectors Manual Review</td>
<td></td>
</tr>
<tr>
<td>3:00pm - 3:15pm Break</td>
<td></td>
</tr>
<tr>
<td>3:15pm - 4:00pm Mix Design for Slurry/Micro</td>
<td></td>
</tr>
<tr>
<td>4:00pm - 4:30pm Agency Perspective – Insuring Quality Preservation Projects</td>
<td></td>
</tr>
<tr>
<td>4:30pm - 4:55pm Work Zone Safety</td>
<td></td>
</tr>
<tr>
<td>4:55pm - 5:00pm Review/Preview/Questions</td>
<td></td>
</tr>
</tbody>
</table>

The Slurry Systems Workshop is made possible by ISSA and the ISSA Workshop Committee.
ISSA 2014 SLURRY SYSTEMS WORKSHOP
January 21 - January 24, 2014
Caribe Royale Hotel
Orlando, Florida

REGISTRATION FORM

Please register the following:
Organization ___________________________________________________________
Address ___________________________________________________________
City ___________________________________________________________
State ___________________________________________________________
Zip/Postal Code __________________________________________________________
Country ___________________________________________________________
Attendee 1
Position ___________________________________________________________
Phone ___________________ T-Shirt Size ___________________
E-mail ___________________________________________________________
Attendee 2
Position ___________________________________________________________
Phone ___________________ T-Shirt Size ___________________
E-mail ___________________________________________________________
Attendee 3
Position ___________________________________________________________
Phone ___________________ T-Shirt Size ___________________
E-mail ___________________________________________________________
Attendee 4
Position ___________________________________________________________
Phone ___________________ T-Shirt Size ___________________
E-mail ___________________________________________________________
Attendee 5
Position ___________________________________________________________
Phone ___________________ T-Shirt Size ___________________
E-mail ___________________________________________________________

Total Registration Fees Enclosed $ _____________________________
Sponsorship Enclosed + $ _____________________________
Total Enclosed $ _____________________________

☐ Check ☐ Mastercard ☐ VISA ☐ American Express
Account # ___________________________________________________________
Exp. Date _____________________________
Name as it appears on card: _____________________________ CVV2 # _____________________________

Please return the completed registration form by December 17, 2013, with a check payable to ISSA for the total registration fees to: ISSA, #3 Church Circle - PMB 250, Annapolis, Maryland 21401. Credit card registrations may be faxed to ISSA Headquarters at 410-267-7546 or emailed to cerone@slurry.org.

REGISTRATION FEES:
COMPLETE FOUR-DAY WORKSHOP
Fees for the complete four-day workshop include four continental breakfasts, three lunches, two evening receptions, all refreshment breaks, materials and handouts AND a T-Shirt.

BEFORE DECEMBER 17, 2013

| Registrants | 1-2 Registrants
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ISSA Member</td>
<td>$ 525 each</td>
</tr>
<tr>
<td>Government Agency</td>
<td>$ 375 each</td>
</tr>
<tr>
<td>Non-Member</td>
<td>$ 1075 each</td>
</tr>
</tbody>
</table>

AFTER DECEMBER 17, 2013

| Registrants | 1-2 Registrants
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ISSA Member</td>
<td>$ 550 each</td>
</tr>
<tr>
<td>Government Agency</td>
<td>$ 400 each</td>
</tr>
<tr>
<td>Non-Member</td>
<td>$ 1100 each</td>
</tr>
</tbody>
</table>

SPONSORSHIP
☐ YES, my company would like to be a sponsor of the Slurry Systems Workshop for $750.
☐ YES, we will need a table to display literature at the workshop.
☐ NO, we will not need a table to display literature at the workshop.

Luncheon and Reception Sponsorships also available; please contact ISSA headquarters.
INFORMATION

REGISTRATION POLICY: ISSA will not process any registration form that is not accompanied by payment, period. What this policy means is that ISSA will not make any related arrangements for any person whose registration form is received without payment.

CANCELLATIONS: Notification must be received in writing by ISSA headquarters if you have registered for the Workshop and subsequently find you will be unable to attend. If registration cancellation is necessary, ISSA will refund registration fees in accordance with the following schedule:

<table>
<thead>
<tr>
<th>Cancellation received by:</th>
<th>Refund:</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 7, 2014</td>
<td>100% minus $25</td>
</tr>
<tr>
<td>January 14, 2014</td>
<td>50% of registration fee</td>
</tr>
<tr>
<td>January 15, 2014</td>
<td>No Refund</td>
</tr>
</tbody>
</table>

"No shows" will be charged the full registration fee. Substitutions may be made at any time by contacting ISSA headquarters at (410) 267-0023.

REGISTRATION DEADLINE: Although ISSA expects to be able to accommodate all meeting registrants, we urge you to complete and return the registration form to ISSA, and contact the hotel, no later than December 17, 2013. After that date, we cannot guarantee hotel reservations at the Caribe Royale Hotel; space available will apply.

HOTEL: The Caribe Royale Hotel, 8101 World Center Drive, Orlando, Florida 32821. ISSA has negotiated a special room rate of $140.00 + tax (January 21 – 24, 2014.) Don’t forget to mention ISSA.

Make your reservations online at: https://resweb.passkey.com/Resweb.do?mode>Welcome_ei_new&eventID=10216118

In order to assure room availability and to receive the group rate, you must make your reservation by December 17, 2013. After that date, room reservations will be accepted on a space available basis. The first night’s deposit is non-refundable unless reservations are canceled 48 hours before the day of arrival. Check-in time is after 3:00 pm and check-out time is 11:00 a.m. Facilities at the Caribe Royale include three restaurants including fine dining and 24 hour café/deli, two lounges, pool bar and grill, coffee shop, 250,000 gallon freeform pool with cascading waterfalls, and 75-foot water slide and two whirlpool spas; lighted tennis court; lighted basketball court, spa, state-of-the-art fitness center, two video arcades, wireless Internet service, and 24-hour room service. The hotel is just 15.5 miles from Orlando International Airport (MCO).

SPONSORSHIP: For $750, your organization will be recognized on signage at the workshop, listed as a workshop sponsor in the final program, highlighted in the ISSA Report, have opportunity for equipment displayed outside, your company logo will appear on the workshop T-shirt and listed on the workshop CD. As an extra bonus, at your option and at no additional cost, ISSA will provide you with 10 feet of exhibit space outside the workshop classroom. For enhanced value, consider sponsoring a workshop reception, please contact Program Director, Lisa Cerone (410) 267-0023 or cerone@slurry.org for more details.

GENERAL INFORMATION: Please call (410) 267-0023, email cerone@slurry.org or write to ISSA Headquarters, #3 Church Circle, Annapolis - PMB 250, Maryland 21401 if you have any questions or concerns.
Preservation & Rehabilitation 2014
The Smart, Sustainable Choice

February 25 - 28, 2014
The Turnberry Isle - Miami
Aventura, Florida

Meeting Registration

AEMA 41st Annual Meeting
ARRA 38th Annual Meeting
ISSA 52nd Annual Convention
Pavement Preservation & Rehabilitation 2014
The Smart, Sustainable Choice

The Asphalt Emulsion Manufacturers Association, the Asphalt Recycling & Reclaiming Association and the International Slurry Surfacing Association are about to meet together for the 11th consecutive year. The reasons that brought these three associations together from 2004 - 2013 still exist today with even more relevance than ever before. This year's program focus is ‘Pavement Preservation & Rehabilitation 2014, The Smart, Sustainable Choice’. AEMA, ARRA and ISSA are strongly invested in the maintenance and preservation of our highways in ways that are economically beneficial, soundly engineered, and friendly to the environment at the same time. Through our marketing program, the Pavement Preservation & Recycling Alliance, we are well prepared to meet the challenges ahead with a united front.

Industry speakers and cutting edge topics equal the best in technology transfer. Attendees at this meeting will have the opportunity to enjoy the general sessions and then choose the topics on which they want to focus. This scheduling allows everyone to keep abreast of new developments that may be valuable for future business expansion or simply pertinent for current customer satisfaction.

Reduced Fees and Changes in Programs for Spouses

For the low reduced registration fee of only $400, your spouse will enjoy all the same meeting activities you do: the opening reception, continental breakfasts, Awards Breakfast, the big Thursday night Game-A-Palooza party, and the special spouses’ Welcome to Aventura Champagne Brunch. In addition, we’ll have a few special a la carte sightseeing opportunities for her, advance arrangements for which can be made directly with our on-site coordinator; we will send those details when we confirm receipt of your registration.

One reminder, register your spouse for the AEMA-ARRA-ISSA Annual Meeting. Unregistered spouses may not participate in scheduled Annual Meeting activities.

The information that appears on the following pages represents speakers, both invited and/or confirmed, at present. Between now and the meeting, it may change to some degree. We will keep you abreast of all additions or changes as best we can.

Looking forward to seeing you in sunny Aventura, Florida.

Mark McCollough, AEMA President, Asphalt Materials, Inc.
Archie Reynolds, AEMA Annual Meeting Program Planning Chairman, Norjohn Limited
Patrick Faster, ARRA President, Gallagher Asphalt Corporation
Andrew Fox, ARRA Program Chair, InVia Pavement Technologies, LLC
Christine Deneuvillers, ISSA President, Colas S.A.
Carter Dabney, ISSA Convention Chair, Slurry Pavers, Inc.
Mike Krissoff, Executive Director, AEMA-ARRA-ISSA
## Schedule at a Glance

<table>
<thead>
<tr>
<th>Date</th>
<th>Start</th>
<th>End</th>
<th>Function</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Monday 2/24/2014</strong></td>
<td>1:00 PM</td>
<td>5:00 PM</td>
<td>Registration Set-Up</td>
<td>Ballroom East Foyer</td>
</tr>
<tr>
<td></td>
<td>6:00 PM</td>
<td>7:00 PM</td>
<td>AEMA Board of Directors</td>
<td>Salon I</td>
</tr>
<tr>
<td></td>
<td><strong>Tuesday 2/25/2014</strong></td>
<td></td>
<td><strong>Wednesday 2/26/2014</strong></td>
<td></td>
</tr>
<tr>
<td>8:00 AM</td>
<td>12:00 PM</td>
<td></td>
<td>Exhibit Set-Up</td>
<td>Ballroom III</td>
</tr>
<tr>
<td>1:00 PM</td>
<td>5:00 PM</td>
<td></td>
<td>ARRA Board of Directors</td>
<td>Salon I</td>
</tr>
<tr>
<td>2:00 PM</td>
<td>8:00 PM</td>
<td></td>
<td>Registration &amp; Information</td>
<td>Ballroom East Foyer</td>
</tr>
<tr>
<td>6:00 PM</td>
<td>8:00 PM</td>
<td></td>
<td>AEMA-ARRA-ISSA Opening Reception</td>
<td>Magnolia Courtyard</td>
</tr>
<tr>
<td><strong>Thursday 2/27/2014</strong></td>
<td>7:00 AM</td>
<td>12:00 PM</td>
<td>Registration &amp; Information</td>
<td>Ballroom East Foyer</td>
</tr>
<tr>
<td></td>
<td>24 hours</td>
<td></td>
<td>Exhibits</td>
<td>Ballroom III</td>
</tr>
<tr>
<td>7:00 AM</td>
<td>9:00 AM</td>
<td></td>
<td>AEMA-ARRA-ISSA Annual Recognition Breakfast</td>
<td>Garden Room</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>10:00 AM</td>
<td></td>
<td>AEMA Business Meeting</td>
<td>Ballroom I</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>10:00 AM</td>
<td></td>
<td>ARRA CORE Meeting</td>
<td>Ballroom II</td>
</tr>
<tr>
<td>9:00 AM</td>
<td>11:00 AM</td>
<td></td>
<td>ISSA Technical Session</td>
<td>Salons IV/V/VII</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>12:00 PM</td>
<td></td>
<td>AEMA General Session</td>
<td>Ballroom I</td>
</tr>
<tr>
<td>10:00 AM</td>
<td>11:00 AM</td>
<td></td>
<td>ARRA Business Meeting</td>
<td>Ballroom II</td>
</tr>
<tr>
<td>11:00 AM</td>
<td>12:00 PM</td>
<td></td>
<td>ISSA Business Meeting</td>
<td>Salons IV/V/VII</td>
</tr>
<tr>
<td>12:00 PM</td>
<td>1:00 PM</td>
<td></td>
<td>AEMA-ARRA-ISSA Luncheon</td>
<td>Garden Room</td>
</tr>
<tr>
<td>1:00 PM</td>
<td>4:00 PM</td>
<td></td>
<td>AEMA ITC Meeting/Technical Session</td>
<td></td>
</tr>
<tr>
<td>1:00 PM</td>
<td>4:00 PM</td>
<td></td>
<td>ARRA Cold Planing Committee</td>
<td>Ballroom I</td>
</tr>
<tr>
<td>1:00 PM</td>
<td>4:00 PM</td>
<td></td>
<td>ARRA Cold Recycling Committee</td>
<td>Ballroom II</td>
</tr>
<tr>
<td>1:00 PM</td>
<td>4:00 PM</td>
<td></td>
<td>ARRA Full Depth Reclamation/Soil Stabilization Committee</td>
<td>Salons III</td>
</tr>
<tr>
<td>1:00 PM</td>
<td>4:00 PM</td>
<td></td>
<td>ARRA Hot In-Place Recycling Committee</td>
<td>Salon III</td>
</tr>
<tr>
<td>1:00 PM</td>
<td>4:00 PM</td>
<td></td>
<td>ISSA Chip Seal Committee</td>
<td>Salon IV</td>
</tr>
<tr>
<td>1:00 PM</td>
<td>4:00 PM</td>
<td></td>
<td>ISSA Crack Treatment Committee</td>
<td>Salon V</td>
</tr>
<tr>
<td>1:00 PM</td>
<td>4:00 PM</td>
<td></td>
<td>ISSA Slurry/Micro Committee</td>
<td>Salon VI</td>
</tr>
<tr>
<td>4:00 PM</td>
<td>5:00 PM</td>
<td></td>
<td>AEMA-ARRA-ISSA Supplier Members Meeting</td>
<td>Ballroom I</td>
</tr>
<tr>
<td>7:00 PM</td>
<td>11:00 PM</td>
<td></td>
<td>Theme Party - Food, Drink, Music &amp; Fun</td>
<td>Laguna Pool</td>
</tr>
<tr>
<td><strong>Friday 2/28/2014</strong></td>
<td>7:00 AM</td>
<td>12:00 PM</td>
<td>Registration &amp; Information</td>
<td>Ballroom East Foyer</td>
</tr>
<tr>
<td></td>
<td>7:00 AM</td>
<td>8:00 AM</td>
<td>AEMA-ARRA-ISSA Continental Breakfast</td>
<td>Conference Lobby</td>
</tr>
<tr>
<td></td>
<td>7:00 AM</td>
<td>11:30 AM</td>
<td>Exhibits</td>
<td>Ballroom III</td>
</tr>
<tr>
<td>8:00 AM</td>
<td>11:30 AM</td>
<td></td>
<td>AEMA General Session</td>
<td>Ballroom I</td>
</tr>
<tr>
<td>8:00 AM</td>
<td>11:30 AM</td>
<td></td>
<td>ARRA General Session</td>
<td>Ballroom II</td>
</tr>
<tr>
<td>8:00 AM</td>
<td>11:30 AM</td>
<td></td>
<td>ISSA General Session</td>
<td>Garden Room</td>
</tr>
<tr>
<td></td>
<td>1:00 PM</td>
<td>6:00 PM</td>
<td>AEMA-ARRA-ISSA Golf Tournament</td>
<td></td>
</tr>
</tbody>
</table>
## Preliminary Speaker List

**subject to change without notice**

### Wednesday - February 26

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Garry Golden</td>
<td>University of Houston</td>
<td>Issues Shaping Business and Society in the 21st Century</td>
</tr>
<tr>
<td>Tom Byron</td>
<td>Chief Engineer, Florida DOT</td>
<td>Florida DOT’s Pavement Preservation Program</td>
</tr>
<tr>
<td>Robert Mooney</td>
<td>Pre-Construction Team Leader, FHWA Office of Infrastructure</td>
<td>Americans with Disabilities Act (ADA)</td>
</tr>
<tr>
<td>George Olsen</td>
<td>Williams &amp; Jensen</td>
<td>Affordable Care Act</td>
</tr>
<tr>
<td>Dr. Buzz Powell</td>
<td>Auburn University</td>
<td>NCAT Update/Test Track</td>
</tr>
<tr>
<td>Jim Moulthrop</td>
<td>Executive Director, FP2, Inc.</td>
<td>FP2 Update</td>
</tr>
<tr>
<td>Greg Cohen</td>
<td>President &amp; CEO, American Highway Users Alliance</td>
<td>High Level Business Issues</td>
</tr>
<tr>
<td>Butch Wlaschin</td>
<td>FHWA</td>
<td>FHWA Update</td>
</tr>
</tbody>
</table>

### Thursday - February 27

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arlis Kadrmas, BASF Corporation</td>
<td>ISSA 2014 President’s Award Winner</td>
<td>Value of Polymer Modifications &amp; Fibers in Pavement Preservation</td>
</tr>
<tr>
<td>Rich Wenthe, MWV Asphalt Innovations</td>
<td>ISSA 2014 President’s Award Winning Submission</td>
<td>Multi-Functional Equipment for Chip Seals &amp; Cape Seal</td>
</tr>
<tr>
<td>Yvon Gerbel</td>
<td>Breining-Seckair, Fayat Group</td>
<td>Bulking Effect, Does it Matter?</td>
</tr>
<tr>
<td>Mike Hemsley</td>
<td>Paragon Technical Services</td>
<td>ISSA Technical Response Q &amp; A</td>
</tr>
<tr>
<td>Rich Wenthe, MWV Asphalt Innovations</td>
<td>Rusty Price, Intermountain Slurry Seal</td>
<td>Chip Seal Aging Survey</td>
</tr>
<tr>
<td>Rich Wenthe, MWV Asphalt Innovations</td>
<td>Rex Eberly, Strawser Construction</td>
<td></td>
</tr>
<tr>
<td>Mike Farrar, Western Research Institute</td>
<td>Jean-Pascal Planche, Western Research Institute</td>
<td></td>
</tr>
<tr>
<td>Trey Jordan</td>
<td>Ergon Asphalt &amp; Emulsions</td>
<td>Applicability of Modified Vialit Adhesion Test for Seal Treatments</td>
</tr>
<tr>
<td>Mike Hemsley</td>
<td>Paragon Technical Services</td>
<td>Correlation of Shear and Tension Tests for Bond Coats Used in Asphaltic Materials</td>
</tr>
<tr>
<td>Todd Ryne</td>
<td>Akzo Nobel Surface Chemistry</td>
<td>Making &amp; Breaking Emulsions Outside the Asphalt Industry</td>
</tr>
</tbody>
</table>

**Note:** The Program Committee is still adding speakers.
### Thursday - February 27 - continued

<table>
<thead>
<tr>
<th>Name</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jean-Martin Croteau</td>
<td>Road Maintenance Using Natural Resources in Emulsion Primers</td>
</tr>
<tr>
<td>Bob Walley</td>
<td>Reducing Hydrogen Sulfide in Emulsion Manufacturing</td>
</tr>
<tr>
<td>Andrew Braham, University of Arkansas</td>
<td>The Effect of Lab Compaction Method on the Strength of FDR Mixtures</td>
</tr>
<tr>
<td>Kirk Thornock</td>
<td>Double Layer Cold Recycling</td>
</tr>
<tr>
<td>Todd Thomas, Colas Solutions, Inc.</td>
<td>QA/QC for CIR/FDR for Rapid Adaptation for Field Conditions</td>
</tr>
<tr>
<td>Tom Wirth</td>
<td>Chemical Modification &amp; Stabilization of Fallston Commons, MD</td>
</tr>
</tbody>
</table>

### Friday - February 28

<table>
<thead>
<tr>
<th>Topic</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Business Owners Forum</strong></td>
<td>Phil Tarsovich, Slurry Pavers, Inc.</td>
</tr>
<tr>
<td></td>
<td>Eric Reimschiissel, American Pavement Preservation</td>
</tr>
<tr>
<td></td>
<td>Craig &amp; Marty Moore, Cleveland Asphalt Products</td>
</tr>
<tr>
<td></td>
<td>Neil Guiles, Vestal Asphalt</td>
</tr>
<tr>
<td><strong>Supply Chain</strong></td>
<td>Frank Cawkell Exxom-Mobil</td>
</tr>
<tr>
<td></td>
<td>Outlook of Cement Supply in North America</td>
</tr>
<tr>
<td><strong>Aggregate Demands, Al A/C vs Planet Usage &amp; Surfactant</strong></td>
<td>Frank Hurkman Norjohn/Walker Industries</td>
</tr>
<tr>
<td></td>
<td>Challenges Within the Aggregates Industry &amp; the Impact on Chip Seal Aggregates</td>
</tr>
<tr>
<td><strong>Emulsifiers Challenges</strong></td>
<td>Andy Bickford MWV Asphalt Innovations</td>
</tr>
<tr>
<td></td>
<td>Barry Baughman ULTRAPAVE Corporation</td>
</tr>
<tr>
<td></td>
<td>Emulsifiers Latexes</td>
</tr>
</tbody>
</table>
Registration Fee: Your registration fee for the AEMA-ARRA-ISSA Annual Meeting includes not only your actual meeting participation, but also provides you with two continental breakfasts, a delightful Awards Breakfast, one luncheon, a heavy reception with food and drink, a spectacular theme party with dinner, and more!

Persons attending any portion of the Annual Meeting will be responsible for the full registration fee.

There will be no partial registration fee for one-day attendance or participation at meal functions only.

Spouses’ Program: We invite and encourage the participation of all registered spouses in the Annual Meeting business sessions, committee meetings, and social activities, which includes our Thursday night theme party - and of course spouses are welcome to participate in the Golf Tournament! Please remember - spouses must register for the meeting if they intend to participate in any of the scheduled functions. No exceptions!

This year, we have arranged with Access Florida to have tours offered at very reasonable prices - one is offered on Wednesday, a Mansion and Marina Tour via Water Taxi. On Friday, there is an everglades tour at Sawgrass Recreation Park & Shopping at Sawgrass Mills Mall. See details on page 8.

Theme Party: You won’t want to miss AEMA-ARRA-ISSA’s legendary Thursday night party, this year’s theme, Game-A-Palooza and you can count on an evening to remember. We’ll have food, we’ll have great music, we’ll have drinks, and we’ll have plenty of lively fun & games! Casual attire for an evening of arcade fun!

Registration Deadline: Although we expect to be able to accommodate all meeting registrants, we urge all prospective Annual Meeting attendees to register well in advance of the meeting. To take advantage of the early registration discount, we must have your completed meeting registration form with payment no later than January 31, 2014. No exceptions, please!

Weather: The weather should be beautiful, with daytime highs in the 70’s and evenings in the 50’s, but bring a sweater or light jacket.

Cut-Off Date is January 31, 2014. Don’t Delay – Make Your Reservations Today. We cannot guarantee the availability of guest rooms at the Turnberry Isle Miami; our room block is reserved on a first come, first served basis until it is gone. Our rate is protected until January 31; after January 31, we cannot guarantee room reservations at the hotel; space available will apply.

And a quick word about hospitality suites and private functions. We are doing everything we can to discourage hospitality suites, for a lot of reasons. We’ve got three associations involved in this meeting. We do not want to do anything at this meeting that will lessen the value of having all these people in the same place at the same time. When all participate in the same coffee breaks, breakfasts, luncheons, receptions, dinners, and parties, the networking opportunities are vastly improved rather than having people breaking off on their own to visit various private suites. We strongly encourage anyone considering a hospitality suite to instead get involved through one of our sanctioned opportunities. It is imperative that this meeting be a whopping success, from the standpoint of both content and value to the registrants, and to the three associations financially. We are asking all member companies to assist us in this effort and not to schedule any private functions that will erode the attendance of the sessions or the social events.

REGISTRATION CANCELLATION POLICY: Notification must be received by AEMA/ARRA/ISSA headquarters if you have registered for the meeting and subsequently find you will be unable to attend. If registration cancellation is necessary, we will refund registration fees in accordance with the following schedule:

<table>
<thead>
<tr>
<th>Cancellation received by:</th>
<th>Refund:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two weeks prior to first day of meeting</td>
<td>100% minus $50 processing fee</td>
</tr>
<tr>
<td>One week prior to first day of meeting</td>
<td>50% of registration fee</td>
</tr>
<tr>
<td>Less than one week prior to meeting</td>
<td>No refund</td>
</tr>
</tbody>
</table>

“No Shows” will be charged the full registration fee.

Persons attending any portion of the Annual Meeting will be responsible for the full registration fee.

There will be no partial registration fee for one-day attendance or participation at meal functions only.

We strongly urge your compliance with this policy in order to equitably allocate meeting costs among all meeting participants.
Special arrangements have been made with Access Florida for the following activities:

**Wednesday, February 26, 2014**

**Welcome Brunch** *(included in your registration fee)*
Wellness Speaker - Wellness is a term used to describe a balance between the body, mind and spirit. A wellness speaker will emphasize this concept and educate you on your personal responsibility to achieve balance in these areas to increase your overall lifestyle, quality of life and well being. The topic, *Integration of Food in Our Daily Lives*, will be discussed. How everything in our lives (relationships, career choices, spirituality, activity levels) are all related to our food choices and how we eat.

**Wednesday, February 26, 2014**

**Mansion & Marina Tour via Water Taxi** *(An elective activity you may choose to participate in - separate fee of $72.00)*
The best way to view the beauty of South Florida is a leisurely cruise on Ft. Lauderdale’s popular Water Taxi. Sit back and enjoy a narrated scenic cruise along the beautiful Intra-coastal Waterway. Discover the best view of Fort Lauderdale that has earned the city the nick-name “Venice of America”. Experience close-up views of the millionaire’s mansions and marinas and find out the rich history of our waterways. You will see lively waterside cafes, villages of the rich and famous and a magnificent view of the colorful architecture.

This tour includes free time on Las Olas Boulevard – South Florida’s most architecturally unique, authentic, and eclectic shopping and dining district. Stroll the boulevard, duck in and out of our cool breezeways, and be delighted by what you discover. Nowhere else in Florida will you find over 30 al fresco dining options, 10 major international art galleries, 2 world class museums, a charming historic hotel and 65 shops filled with fashion, accessories, gifts and more.

**Friday, February 28, 2014**

**Everglades Tour at Sawgrass Recreation Park & Shopping at Sawgrass Mills Mall** *(An elective activity you may choose to participate in - separate fee of $60.00)*
You may visit the Everglades at Sawgrass Recreation Park and take an airboat tour amidst the “sea of grass”, then visit animal exhibits featuring the gator and reptile exhibit, the exotic animals with the Florida panther, the beautiful black cougars, hawk, with much more. The park is known for its rich bird life, particularly large wading birds, such as the roseate spoonbill, wood stork, great blue heron and a variety of egrets.

A narrated airboat tour with a professional guide allows guests to experience the unique natural beauty of the Everglades. See alligator nests and observe wildlife in their natural habitat. The tour gives ample time to photograph birds, alligators and other endangered wildlife. You will see native and exotic animals, panthers, gators, otters, birds of prey and more.

You will see a presentation on life in the Everglades as it was for the Seminole Indians. Next, you can stop by the live Alligator, Reptile, and Vanishing Species Exhibits and learn fact from fiction about the magnificent prehistoric reptiles. Tour the nearby Flamingo Gardens and a naturalist will point out the wide variety of tropical plants and native wildlife as guests wander through the aviary and gardens. Exhibits and attractions include Everglades “Free Flight” Aviary the Wildlife Encounter, Bird of Prey Center, a tram tour, Tropical Plant House, Flamingo Island and Bobcat Habitats.

Lunch on your own and shopping at Sawgrass Mills Mall, the 7th largest mall in the United States!

*Activity Sign-up*
An online website will be available no later than January 22, 2014. Activity sign ups must be completed by Thursday, February 6, 2014 approximately two weeks prior to start of program. All activities require a minimum number of participants to be able to operate the tour. If activity minimums are not met, that particular tour will be canceled and attendees will be notified and refunded.
AEMA, ARRA, and ISSA count on proceeds from the annual meeting to help with their program budgets throughout the year, so the overall financial success is vital. Please remember a major benefit of the combined meeting is not having to go to three separate meetings; you can reach more people at one time in one place, and not have to spend more time and money at two other meetings. We humbly ask you to consider applying some of that savings towards sponsorship of the AEMA-ARRA-ISSA 2014 Annual Meeting, and we encourage you to bring more people from your company.

Levels

**Green Sponsorship - $10,000**
- Company logo on the meeting shirts & bags
- Recognition on signage, meeting program, and newsletter
- Display two pieces of equipment in the outdoor display area
- 10’ of indoor exhibit space for a pop-up or tabletop display
- Distribution of product literature in the display area

**Silver Sponsorship - $2,500**
- Recognition on signage, meeting program, and newsletter
- Display one piece of equipment in the outdoor display area
- 10’ of indoor exhibit space for a pop-up or tabletop display
- Distribution of product literature in the display area

**Gold Sponsorship - $5,000**
- Recognition on signage, meeting program, and newsletter
- Display two pieces of equipment in the outdoor display area
- 10’ of indoor exhibit space for a pop-up or tabletop display
- Distribution of product literature in the display area

**Bronze Sponsorship - $1,000**
- Recognition on signage, meeting program, and newsletter
- 10’ of indoor exhibit space for a pop-up or tabletop display
- Distribution of product literature in the display area

Sponsorship of individual meeting events is also available in accordance with the schedule below, with recognition granted corresponding to the levels above:

- **Opening Reception** – $15,000
- **Wednesday Continental Breakfast** – $5,000
- **Wednesday Morning Break** – $5,000
- **Wednesday Luncheon** – $10,000
- **Wednesday Afternoon Break** – $5,000

- **Awards Breakfast** – $15,000
- **Theme Party** – $25,000
- **Friday Continental Breakfast** – $5,000
- **Friday Morning Break** – $5,000
- **Golf Tournament** – $5,000 (Limit 3)

**AEMA-ARRA-ISSA Golf Tournament Sponsorship Opportunities**
- **Golf Tournament Sponsors** (maximum of 3 available) $5000 – Receive maximum recognition throughout the day, including exposure out on the golf course. All print material and on-course signage will incorporate your logo as well as that of the tournament.
- **Beverage Cart Sponsor** (maximum of 2 available) $2,500 – Receive logo recognition prominently displayed on both sides of the beverage carts.
- **Putting Contest Sponsor** $2,500 – Receive logo recognition on the putting green. A putting contest will be set up to entertain golfers before the tournament.
- **Hole Sponsor** – (maximum of 18 available) $1,000 – Receive distinctive logo recognition on one hole. Will include a Pin Flag and a Tee Marker. Both the Pin Flag and Tee Marker will be full color and double-sided. Pin Flags will have a wire frame built in to extend the flags out, so sponsor receives recognition even if the wind is not blowing.
- **Skills Contest Sponsor** – (maximum of 2) $1,000 each - This sponsor will receive recognition on two skills contests either on the front nine or back nine.

Thank you all very much for your anticipated continuing support of AEMA, ARRA, and ISSA.
Sponsor Opportunities

Please indicate your preference to sponsor:

- [ ] Green
- [ ] Gold
- [ ] Silver
- [ ] Bronze

- Opening Reception – $15,000
- Wednesday Morning Break – $5,000
- Wednesday Afternoon Break – $5,000
- Theme Party – $25,000
- Friday Morning Break – $5,000

- Wednesday Continental Breakfast – $5,000
- Wednesday Luncheon – $10,000
- Awards Breakfast – $15,000
- Friday Continental Breakfast – $5,000

Golf Tournament Sponsors

- Golf Tournament Sponsors – $5000 (Limit 3)
- Putting Contest Sponsor – $2,500
- Skills Contest Sponsor – $1,000 (Limit 2)

- Beverage Cart Sponsor – $2,500 (Limit 2)
- Hole Sponsor $1,000 (Limit 18)

Please provide an electronic copy of your company logo for use on signs and in the AEMA - ARRA - ISSA Newsletter. You may send the file to cerone@krissoff.org

Name __________________________________________________________________________________
Company ______________________________________________________________________________
Telephone (__________) ___________________________________________________________________
Company Address _________________________________________________________________________
City _________________________________________ State/Province_______ Zip/Postal Code _________
Country ________________________________________________________________________________
E-mail _________________________________________________________________________________

☐ Check enclosed  ☐ MasterCard  ☐ VISA  ☐ American Express

Account # _______________________________________________________ Expiration Date ________
Name as it appears on card ___________________________________________ CVV2 # ______________

Contributions or gifts are not deductible as charitable contributions for federal income tax purposes; however, dues, publications, advertising, and registration fees are generally deductible as ordinary and necessary business expenses. Check with your accountant.

Deadline – January 31, 2014
AEMA-ARRA-ISSA, #3 Church Circle – PMB 250, Annapolis, MD 21401
Phone 410-267-0023; Fax 410-267-7546
cerone@krissoff.org
Please register the following for the AEMA-ARRA-ISSA 2014 Annual Meeting:

Name ______________________________________  Registered Spouse ______________________________________
Nickname for Badge __________________________  Nickname for Badge __________________________
E-Mail _____________________________________  Spouse E-Mail _______________________________
Company _______________________________________________________________________________
Telephone (        )  ______________________________ Fax (        )  _________________________________
Company Address __________________________________________________________________________
City _________________________________________ State ___________ Zip/Postal Code _____________
Country _________________________________________________________________________________

Shirt Size  ☐M  ☐L  ☐XL  ☐XXL  ☐3XL  ☐4XL

Special needs requests regarding diet or access issues should be made directly to the hotel.

REGISTRATION FEES
Please send your check for the registration and activities fees to AEMA-ARRA-ISSA with this form.

Before January 31  After January 31

____ AEMA-ARRA-ISSA Member ...................... $ 1,200.00 $ 1,500.00 = $ _____________
____ Governmental, Educational ....................... $ 500.00 $ 600.00 = $ _____________
____ Non-Member ........................................ $ 1,700.00 $ 2,000.00 = $ _____________
____ Spouse ................................................ $ 400.00 $ 500.00 = $ _____________
____ Non-Member Spouse ................................ $ 600.00 $ 750.00 = $ _____________
____ Golf…..(handicap _____, spouse _____) ........ $ 250.00 $ 300.00 = $ _____________

☐Yes ☐No Thursday AM Awards Breakfast* ........ $ Free $ Free = $ _____________
☐Yes ☐No Thursday Night Theme Party* ........... $ Free $ Free = $ _____________

*No charge, but please indicate your plans to attend

TOTAL REGISTRATION FEES (US Funds only) ................................................................. $___________

PAYMENT METHOD: ☐Check (Payable to AEMA-ARRA-ISSA)  ☐Credit Card (Fill in information below)
☐Mastercard  ☐VISA  ☐American Express

Account # ______________________________________________ Expiration Date ____________
Name as it appears on card ________________________________ CVV2 # ____________

Please return this form to AEMA-ARRA-ISSA Headquarters no later than January 31, 2014
Registration discount not available after that date - Please do not ask for it. Fax: 410-267-7546
Program Committee Announced for PPRS Paris 2015/ Members with Global Operations Urged to Plan Now

The PPRS Paris Steering Committee (Jean-Claude Roffe, Etienne LeBoutellier, Jim Moulthrop, and Mike Krissoff) are pleased to announce the appointment of the following representatives to the Program Committee:

IBEF  Bernard Eckmann  bernard.eckmann@eurovia.com
      Siobhan Mc Kelvey  siobhan.mckelvey@nynas.com
AEMA  Mike Hemsley  Mike.Hemsley@ptsilab.com
      Gaylon Baumgartner  gaylon.baumgardner@ergon.com
ISSA  Robert Jerman  robert.jerman@mwv.com
      Carter Dabney  cdabney@slurrypavers.com
ARRA  Stephen Cross  steve.cross@okstate.edu
      Todd Thomas  tthomas@colasinc.com
FP2   Larry Galehouse  galehou3@msu.edu
      Rod Birdsall  Rbirdsall@asmg.com

The first order of business was the decision NOT to issue a call for papers but, instead, to rely upon the expertise of the Program Committee to identify key technical issues and qualified persons to present those topics. The Program Committee is responsible for coming up with papers that represent all aspects of pavement preservation and recycling, with a truly global perspective.

PPRS Paris 2015 will address trends in the marketplace:

1. The road industry has been facing heavy challenges, especially since the 2008 financial crisis, especially in the industrial countries (e.g. U.S.A., Japan, Europe).
2. Public funds available for road construction and maintenance are scarcer and scarcer.
3. In the meantime, costs of materials and energy have increased dramatically.
4. Environment and social requirements are heavier and heavier

And a new mindset…Declaration of the European Ministers of Transport (2013)

- “Transport infrastructure is much more than asphalt, concrete or steel; it is the backbone of national economies, providing connections for people and goods, access to jobs and services, and enabling trade and economic growth…”
- The Ministers recognize that “sufficient infrastructure investment and maintenance is required to ensure a robust, high-quality, sustainable transport system…”
- Preservation & Rehabilitation….More Miles, Less $$$

The European members of the Program Committee are meeting with their colleagues in early January to build upon the framework already constructed. The US members will meet primarily by email, but also during the Transportation Research Board Annual Meeting and at the 2014 AEMA-ARRA-ISSA-PPRA Annual Meeting.

The Steering Committee is handling the opening general session and has already initiated dialogue with invitations to selected key individuals.

Although firm deadlines have not yet been set, it is the goal of the Steering Committee to have all aspects of this meeting wrapped up sooner rather than later. Aside from the list of expert speakers and a wide range of timely presentations, progress is being made on all other fronts. The PPRS Paris 2015 website will launch shortly after the first of the year, to be followed soon by the Sponsors & Exhibitors packet. Planners have also made strides in the logistical aspects of the meeting, and are examining pre- and post-conference activities, options for spouse programs, and a gala evening event.

AEMA, ARRA, and ISSA have approached their Supplier Members, particularly those with operations in Europe, to consider options to arrange post-conference activities at their manufacturing and laboratory facilities. Interested parties should contact AEMA-ARRA-ISSA-PPRA Executive Director Mike Krissoff at krissoff@krissoff.org. The time to do so is now.
Get the ultimate up-close look at the future of asphalt. CONEXPO-CON/AGG represents an immense unveiling of all the newest equipment, technology and product breakthroughs in asphalt. Bringing you the latest in everything from warm-mix asphalt to making roads smoother, it’s the one show that paves the way to working smarter.

Pre-register to get show updates at conexpoconagg.com

MARCH 4-8, 2014 | LAS VEGAS CONVENTION CENTER | LAS VEGAS, USA
AEMA Welcomes New Members

NORTH AMERICAN MANUFACTURER MEMBERSHIP
S&S Emulsions
PO Box 66
Rayland, OH 43943
Phone 740-859-2121
Website www.ssemulsions@shellyandsands.com
Mark Haverty, Area Manager
mhaverty@shellyandsands.com
Manufacturer of chip seal and tack coat emulsions.

ASSOCIATE MEMBERSHIP
Auxilia Consulting Services LLC
30 Connor Drive
Englewood Cliffs, NJ 07632
Phone 201-894-5585
Website www.auxiliaconsulting.biz
Georges Ausseil, President
gausseil@auxiliaconsulting.biz
Consulting services.

ASSOCIATE MEMBERSHIP
American Refining Group
77 North Kendall Avenue
Bradford, PA 16701
Phone 814-368-1244
Website www.amref.com
Yassin Al Obaidi, Senior Research Chemist
yobaidi@amref.com.com

ISSA Welcomes New Members

INTERNATIONAL CONTRACTOR MEMBERSHIP
Heridoiza Crespo Construcciones S.A.
Abraham Lincoln N26-16 Y San Ignacio
quito, Ecuador
Phone 00-593-2-398-2500
Email cmellering@hcc.com.ec
Web www.hcc.com.ec
Ing. Gonzalo Marta Nez, Gerente TA Cinco
Road construction and maintenance as well as managing the main 500 km concessionary highway that runs through Ecuador.

INTERNATIONAL SUPPLIER MEMBERSHIP
SECMIR - Breining
Rue des Freres Lumiere BP 10042
Cosse le Vivien 53230 France
Phone 33-243-982-776
Fax 33-243-988-649
Email f.campagne@secmair.fayat.com
Web www.secmair.fayat.com
Frederic Campagne, Director
Road Maintenance Equipment.

INTERNATIONAL SUPPLIER MEMBERSHIP
Shanghai Longfu Materials Technology Co., Ltd.
No. 1188 Xin Yan Road, Maogang, Songjiang
Shanghai, 20167 P.R. China
Phone 86-21-37012873
Email wudelong@longfu.com.cn
Web www.longfu.com.cn
DeLong Wu, General Manager
Supplier of road construction materials such as asphalt emulsifiers, adhesion promoter, asphalt modifiers.

AFFILIATE MEMBERSHIP
Expanded Shale, Clay and Slate Institute
35 E. Wacker Drive, Suite 850
Chicago, IL 60601
Phone 801-272-7070
Fax 312-644-8557
Email info@escsi.org
Web www.escsi.org
Abigail Gabbard, Executive Director
ESCSI is a trade association for manufacturers of rotary kiln-produced expanded shale, clay and slate lightweight aggregate.
Asphalt Emulsion Manufacturers Association
2013 - 2014 Board of Directors

President
Mark McCollough
Asphalt Materials Inc.
8720 Robbins Road
Indianapolis, IN 46268
Phone 314-249-0839
mark.mccollough@asphalt-materials.com

Vice President
Archie Reynolds
Norjohn Limited
4365 Corporate Drive
Burlington, ON L7L 5P7 Canada
Phone 905-336-1216
areynolds@walkerind.com

Secretary/Treasurer
Mark Ishee
Ergon Asphalt & Emulsions, Inc.
PO Box 1639
Jackson, MS 39215
Phone 601-933-3000
mark.ishee@ergon.com

Past President
Bucky Brooks
Asphalt Materials Inc.
940 N. Wynn Road
Oregon, OH 43616
Phone 419-693-0626
bucky.brooks@asphalt-materials.com

Director
Hans Ho
Telfer Oil Company
211 Foster Street
Martinez, CA 94553
Phone 925-228-1515 x1329
hansho@telferoil.com

Director
Dan Koeninger
Terry Asphalt Materials Inc.
8600 Berk Boulevard
Hamilton, OH 45015
Phone 513-673-8840
dkoeninger@terryasphalt.com

Director
Craig Moore
Cleveland Asphalt Products
PO Box 1449
Shepherd, TX 77371
Phone 800-334-0177
ccmcapco@msn.com

Director
Mark Smith
Vance Brothers Inc.
5201 Brighton Ave.
Kansas City, MO 64130
Phone 816-923-4325
msmith@vancebrothers.com

Supplier Member Rep
James Andrews
BASF Corporation
11501 Steele Creek Road
Charlotte, NC 28273
Phone 704-587-8147
james.andrews@basf.com

International Member Rep
Jean Claude Roffe
Colas
7 Place Rene Clair
Boulogne Billancourt Cedex 92653 France
Phone +33-1 476-17380
roffe@siege.colas.fr

ITC Chairman
Mike Hemsley
Paragon Technical Services
390 Carrier Blvd.
Richland, MS 39218
Phone 601-932-8365
mike.hemsley@ptsilab.com

General Counsel
David H. Baker
Law Offices of David H. Baker LLC
1701 Pennsylvania Ave., NW - Suite 300
Washington, DC 20006
Phone 202-253-4347
david.baker@dhbakerlaw.com

Executive Director
Mike Krissoff
AEMA
#3 Church Circle - PMB 250
Annapolis, MD 21401
Phone 410-267-0023
krissoff@aema.org

aema.org
Asphalt Emulsion Manufacturers Association
2013 - 2014 Committees

Annual Meeting Program Planning
Archie Reynolds
Norjohn Limited
4365 Corporate Drive
Burlington, ON L7L 5P7 Canada
Phone 905-336-1216
areynolds@walkerind.com

Asphalt Institute Liaison
Bucky Brooks
Asphalt Materials Inc.
940 Wynn Road
Oregon, OH 43616
Phone 419-693-0626
bucky.brooks@asphalt-materials.com

ASTM Liaison
Andrew Bickford
MeadWestvaco Corporation
255 Virginia Avenue
N. Charleston, SC 29406
Phone 843-746-8156
andrew.bickford@mwv.com

Emulsion Task Force Liaison
Arlis Kadrmas
BASF Corporation
1547 Woodridge Drive
Wichita, KS 67206
Phone 316-200-7326
arlis.kadrmas@basf.com

Finance
Mark Ishee
Ergon Asphalt & Emulsions, Inc.
PO Box 1639
Jackson, MS 39215
Phone 601-933-3000
mark.ishee@erгон.com

International Bitumen Emulsion Federation
Gaylon Baumgardner
Paragon Technical Services, Inc.
PO Box 1639
Jackson, MS 39215
Phone 601-933-3000
gaylon.baumgardner@ptsilab.com

International Symposium on Asphalt Emulsion Technology 2012
Gaylon Baumgardner
Paragon Technical Services, Inc.
PO Box 1639
Jackson, MS 39215
Phone 601-933-3000
gaylon.baumgardner@ptsilab.com

Membership
Bucky Brooks
Asphalt Materials Inc.
940 Wynn Road
Oregon, OH 43616
Phone 419-693-0626
bucky.brooks@asphalt-materials.com

Pavement Preservation ETG
Ergon Asphalt & Emulsions, Inc.
PO Box 1639
Jackson, MS 39215
Phone 601-933-3000
mark.ishee@ergon.com

PPRA
Mark Ishee
Ergon Asphalt & Emulsions, Inc.
PO Box 1639
Jackson, MS 39215
Phone 601-933-3000
mark.ishee@ergon.com

Mark McCollough
Asphalt Materials Inc.
8720 Robbins Road
Indianapolis, IN 46268
Phone 314-249-0839
mark.mccollough@asphalt-materials.com

Archie Reynolds
Norjohn Limited
4365 Corporate Drive
Burlington, ON L7L 5P7 Canada
Phone 905-336-1216
areynolds@walkerind.com

PPRA 2013 Meeting
Archie Reynolds
Norjohn Limited
4365 Corporate Drive
Burlington, ON L7L 5P7 Canada
Phone 905-336-1216
areynolds@walkerind.com

Supplier Members
James Andrews
BASF Corporation
11501 Steele Creek Road
Charlotte, NC 28273
Phone 813-923-4325
mberrow@vancebrothers.com

Environmental & Regulatory Issues
Everett Crews
MeadWestvaco Corp.
5255 Virginia Avenue
N. Charleston, SC 29406
Phone 843-746-8470
everett.crews@mwv.com

ITC
International Technical Committee
Mike Hemsley (Chairman)
Paragon Technical Services, Inc.
390 Carrier Blvd.
Richland, MS 39218
Phone 601-932-8365
mike.hemsley@ptsilab.com

Joe Brandenburg (Vice Chairman)
Asphalt Materials, Inc.
7901 W. Morris Street
Indianapolis, IN 46231
Phone 734-770-9106
joe.brandenburg@hrglab.com

Committee on Emulsion Materials
Steven Muncy
BASF Corporation
11501 Steele Creek Road
Charlotte, NC 28273
Phone 919-275-0063
steven.muncy@basf.com

Committee on Maintenance Technology
Arlis Kadrmas
BASF Corporation
1547 Woodridge Drive
Wichita, KS 67206
Phone 316-200-7326
arlis.kadrmas@basf.com

Committee on Paving Technology
Marty Burrow
Vance Brothers. Inc.
5010 Brighton
Kansas City, MO 64130
Phone 816-923-4325
mberrow@vancebrothers.com

Gaylon Baumgardner
Paragon Technical Services, Inc.
PO Box 1639
Jackson, MS 39215
Phone 601-933-3000
gaylon.baumgardner@ptsilab.com

AEMA-ARRA-ISSA Newsletter 2013 Issue #4
AEMA Members

Go to www.aema.org to find detailed contact information for all AEMA members.

NORTH AMERICAN MANUFACTURER MEMBERS
Albina Fuel Company
Asphalt Emulsion, Inc.
Asphalt Materials Inc.
Asphalt Products Unlimited Inc.
Asphalt Systems Inc.
Associated Asphalt
Blacklidge Emulsions, Inc.
BTB Corporation
California Commercial Asphalt, LLC
Calumet Specialty Products LLP
Cleveland Asphalt Products
Coastal Energy Corporation
COBITCO, Inc.
Duncor Enterprises Inc.
Dynasol
Emulsion Products Company
Ergon Asphalt & Emulsions Inc.
Eurovia Group
Flint Hills Resources LP
Gorman Group
Greater Cincinnati Asphalt Terminal
Heartland Asphalt Materials
Henry G. Meigs LLC
Holly Frontier
Hudson Materials Co.
Idaho Asphalt Supply Inc.
Jebro Inc.
Marathon Petroleum Corporation
Martin Asphalt Company
McAsphalt Industries Ltd.
Michigan Paving & Materials Co.
Midland Asphalt Materials, Inc.
Missouri Petroleum
New England Emulsions Corp.
Norjohn Limited
Pacific Emulsions, Inc.
Petro Emulsion Oil Company
Pounder Emulsions - A division of Husky Oil Limited
Quality Emulsions, LLC
Reed & Graham Inc.
Road Science, Division of ArrMaz Custom Chemicals
Russell Standard Corp/Hammerman East, Ltd.
S&S Emulsions
STEB Division of Sintra Inc.
Talley Oil Inc.
Telfer Oil Co.
Terry Asphalt Materials, Inc.
Tri-State Asphalt, LLC
Unique Paving Materials Corp.
US Oil & Refining Company
Vance Brothers, Inc.
Vestal Asphalt Inc.
VSS International, Inc.
Western Asphalt Products
Western Emulsions Inc.

INTERNATIONAL MANUFACTURER MEMBERS
Asphalt Processors Inc.
Colas SA
Lake Asphalt of Trinidad
Reda National Company
Tipco Asphalt Public Co., Ltd.

SUPPLIER MEMBERS
AKZO NOBEL Surface Chemistry LLC
BASF Corporation
CorsiTech
Dalworth Machine
E.D. Etnyre & Co.
HEATEC Inc.
Innophos, Inc.
International Tank Service, Inc.
Kao Specialties Americas LLC
Kraton Polymers, LLC
McConnaughay Technologies
MeadWestvaco Corporation
Momentum Technologies International, a division of RCMA Americas, Inc.
Pinova Inc.
ULTRAPAVE Corporation

ASSOCIATE MEMBERS
American Refining Group
Asphalt Technologies Group
Bitumar USA, Inc.
Finocchi & Associates
InVia Pavement Technologies, LLC
Maritime Asphalt Emulsion Inc.
MTE Services, Inc.
Paragon Technical Services Inc
Patch Management
Pavement Preservation Systems, LLC
RAD
Scott Construction
Tri Products LLC
West-Can Seal Coating

INDIVIDUAL MEMBERS
Roger Hayner
German Hernandez
MN DOT
Daniel T. Murphy
University of Arkansas

HONORARY MEMBERS
Norman R. Aguirre
Jack N. Dybalski - Consultant
*Jim Sorenson - Federal Highway Administration
Donald L. Nielsen

*deceased
ARRA 2013 - 2014 Board of Directors

President
Patrick Faster
Gallagher Asphalt Corporation
18100 South Indiana Avenue
Thornton, IL 60476
Phone 708-877-7160
pfaster@gallagherasphalt.com

Vice President
Position Vacant

Secretary/Treasurer
Ryan Essex
Miller Paving Limited
287 Ram Forest Road
Gormley, ON L0H 1G0 Canada
Phone 905-726-9518
ryan.essex@millergroup.ca

Past President
Bill Garrity
Garrity Asphalt Reclaiming Inc.
22 Peters Road
Bloomfield, CT 06002
Phone 860-243-2300
bill.garrity@garrityasphalt.com

Director
Darren Coughlin
Coughlin Company
809 E. Commerce Drive
St. George, UT 84790
Phone 435-634-1266
darren@coughlincompany.com

Director
Dale Cronauer
Blount Construction Co., Inc.
1730 Sands Place
Marietta, GA 30067
Phone 770-541-7333
dcronauer@blountconstruction.com

Director
John Irvine
Roadtec
800 Manufacturers Road
Chattanooga, TN 37415
Phone 319-431-0594
jirvine@roadtec.com

Director
Tom Kiernan
Lafarge Corporation
20408 West Renwick Road
Lockport, IL 60441
Phone 630-514-5284
tom.kiernan@lafarge-na.com

Director
Terry Sharp
Caterpillar Paving Products Inc.
11601 93rd Avenue
Maple Grove, MN 55369
Phone 763-315-5503
sharp_terry_g@cat.com

Technical Director
Stephen A. Cross, Ph.D., PE
Oklahoma State University
207 Engineering South
Stillwater, OK 74078
Phone 405-744-7200
steve.cross@okstate.edu

Legal Counsel
David H. Baker
Law Offices of David H. Baker LLC
1701 Pennsylvania Ave., NW - Suite 300
Washington, DC 20006
Phone 202-253-4347
david.baker@dhbakerlaw.com

Executive Director
Mike Krissoff
ARRA
#3 Church Circle - PMB 250
Annapolis, MD 21401
Phone 410-267-0023
krissoff@arra.org

Gilley’s Welcome: Welcome PPRA Don’t let the bull buck you on your asphalt...
ARRA 2013 - 2014 Committees

Affiliate Members
Stephanie Drain
S. Drain Engineering of IL
PO Box 805
Charleston, IL 61920
Phone 312-919-9527
stephdrain@sdrainengineering.com

Annual Meeting Program
Position Vacant

Government Relations
John Rathbun
Cutler Repaving Inc.
921 East 27th Street
Lawrence, KS 66046
Phone 785-843-1524
jrathbun@cutlerrepaving.com

Membership
John Irvine
Roadtec Inc.
800 Manufacturers Road
Chattanooga, TN 37405
Phone 800-272-7100
jrvine@roadtec.com

Pavement Preservation ETG
Mike Polak
E.J. Breneman
1117 Snyder Road
West Lawn, PA 19609
Phone 610-678-1913
mpolak@ejbreneman.com

PPRA
Ryan Essex
Miller Paving Limited
287 Ram Forest Road
Gormley, ON L0H 1G0 Canada
Phone 905-726-9518
ryan.essex@millergroup.ca

Bill Garrity
Garrity Asphalt Redaining Inc.
22 Peters Road
Bloomfield, CT 06002
Phone 860-243-2300
bill.garrity@garrityasphalt.com

PPRA Meeting
Ryan Essex
Miller Paving Limited
287 Ram Forest Road
Gormley, ON L0H 1G0 Canada
Phone 905-726-9518
ryan.essex@millergroup.ca

Supplier Members
Tom Kiernan
Lafarge Corporation
20408 West Renwick Road
Lockport, IL 60441
Phone 630-514-5284
tom.kiernan@lafarge-na.com

Cold Planing
Tom Chastain
Wirtgen America Inc.
6030 Dana Way
Antioch, TN 37013
Phone 615-501-0600
tchastain@wirtgenamerica.com

Cold Recycling
Trevor Moore
Miller Paving Limited
287 Ram Forest Road
Gormley, ON L0H 1G0 Canada
Phone 905-726-9518	
trevor.moore@millergroup.ca

Full Depth Reclamation/
Soil Stabilization
Kimbel Stokes
The Miller Group Inc.
1715 Nolan Court
Morrow, GA 30260
Phone 770-968-9100
kimbel.stokes@millergroup.ca

Hot In-Place Recycling
Patrick Faster
Gallagher Asphalt Corporation
18100 South Indiana Avenue
Thornton, IL 60476
Phone 708-877-7160
pfaster@gallagherasphalt.com

Technical Director
Stephen A. Cross, Ph.D., PE
Oklahoma State University
207 Engineering South
Stillwater, OK 74078
Phone 405-744-7200
steve.cross@okstate.edu

COMMITTEE ON RECYCLING EDUCATION (CORE) TECHNICAL SUBCOMMITTEES
ARRA Members

Go to www.arra.org to find detailed contact information for all ARRA members.

CONTRACTOR MEMBERS
All States Asphalt Inc.
Alpha Milling Company, Inc.
Arizona Pavement Profiling
ARS Companies, Inc.
Asphalt Busters
Atlanta Paving & Concrete Construction Inc.
Base Construction Technologies, Inc.
Blount Construction Co., Inc.
Byrne & Jones Stabilization
Construction Material Recycling
Coughlin Company, Inc.
Cruickshank Construction
Cutler Repaving Inc.
Donegal Construction Corp
Dunn Company, Div of Tyroll Inc.
Dustol Inc.
E.J. Brenerman Inc.
Ellis Consolidated Pty. Ltd.
Flex-Tech Resources Ltd.
Fonseca McElroy Grinding Co., Inc.
Fresar Tecnologia de Pavimentos Ltda.
Gallagher Asphalt Corporation
Garry Asphalt Reclaiming
Gazzola Paving Limited
George & Lynch Inc.
Green Roads Recycling Ltd.
James J. Anderson Construction
Koss Construction Company
Kubricky Construction Corp.
Lanford Brothers Co.
Lavis Contracting Company, Ltd.
Manatt’s Inc.
Maritime Road Recycling Inc.
Maverick Milling
Midland Asphalt Materials Inc.
Midstate Reclamation, Inc.
Miller Paving Limited
Mt. Carmel Stabilization Group Inc.
Municipal CIP Recycling Ltd.
Pace Construction Company
Pavement Recycling Systems, Inc.
Paveover, Inc.
Payne & Dolan Inc.
Reclamation Inc. of Kingston
Recon Construction Services Inc.
Roadway Management Inc.
Rock Solid Stabilization & Reclamation, Inc.
ROTO-MILL INC.
Ruston Paving Co., Inc.
Sanders Brothers Construction, Inc.
Slurry Pavers Inc.
Specialties Company, LLC
Tennmile Creek Excavating, LLC
Terra Firma Stabilization & Reclamation
The Lane Construction Corporation
The Miller Group Inc.
Turner Asphalt, Inc.
Wadel Stabilization, Inc.

SUPPLIER MEMBERS
Asphalt Materials, Inc.
BLS Enterprises Inc.
Carmeuse Lime and Stone
Caterpillar Paving Products Inc.
Colas Solutions Inc.
D. Storey Inc.
Ergon Asphalt & Emulsions, Inc.
Essroc Italcementi Group
Fusion Inc.
Graymont Inc.
InVia Pavement Technologies, LLC
Kenco Engineering, Inc.
Kennametal Inc.
Keystone Engineering & Manufacturing Corp
LaFarge, Inc.
MeadWestvaco Corporation
Mintek Resources Inc
NovaPick
Road Science, Div of AmnAz Custom Chemicals
ROADTEC Inc.
Sandvik MGT Construction Tools
Sollami Company
Stoltz Mfg., LLC
Superior Tire & Rubber Corp.
Tricor Refining
Tri-State Asphalt, LLC
Tungco Inc.
Volvo Construction Equipment
Western Emulsions, Inc.
Wirtgen America Inc.

AFFILIATE MEMBERS
Alt & Witzig Engineering
AME Materials Engineering
AMEC Environment & Infrastructure, Inc.
American Engineering
Applied Pavement Technology, Inc.
Asphalt Pavement & Recycling Technologies, Inc.
Benchmark Inc. - Pavement Consulting Div.
Bitumix Solutions
Braun Intertec
Cement Council of Texas
City of Edmonton Transportation Dept.
City of Glendora
City of Los Angeles DPW
Construction Equipment Guide
Construction Materials Services, Inc.
Cummins Engineering Corporation
Dakota Asphalt Pavement Association
DBA Engineering Ltd.
Delaware County Engineer
ECS Mid-Atlantic, LLC
exp
Geo-Technology Associates, Inc.
Jeff Zeil Consultants
JR Paine & Associates Ltd
Kercher Engineering Inc.

AFFILIATE MEMBERS-continued
La Belle - Marvin Inc.
Le Sueur County Highway Department
Loudon International
LVM Inc.
Mason County Highway Dept.
McClean Engineering
Midland Standard Engineering & Testing, Inc.
Midwest Testing
Missouri DOT
Morris Engineering, Inc.
National Center for Pavement Preservation
Ontario Hot Mix Producers Assn.
Pavement Services, Inc.
Portland Cement Association
Road Recycling Council
S Drain Engineering of IL, LLC
Scott County Secondary Road Dept.
Soil and Materials Engineers, Inc.
Stancliffe Services LLC
Stephen A Cross, Ph.D., PE
Texas Road Recyclers
The Barnhardt Group LLC
Township of Plainsboro
University of Maryland
Virginia Asphalt Association
Washington State County Road Admin Board
Whitpain Township
WHPacific Incorporated
www.ibuildroads.com

HONORARY MEMBERS
American Public Works Assn
Asphalt Institute
Doug Bernard - Quixote Transportation Safety
Roy G. Biscamp, PE - NMSPE
Frank “Stan” Bland, Jr. - SCDOT
*Ken Damgaard - Arizona Pavement Profiling
Jon A. Epps - Granite Construction Inc.
Luther Hall - Terex Roadbuilding
Bill Heitschmidt
Carl L. Monismith - Univ. of California - Berkeley
Bill Heitschmidt
Jim Pickett - Pickett Consulting Group
National Asphalt Pavement Assn
Jim Pickett - Pickett Consulting Group
*Jim Sorenson – FHWA
Al Sproull
Jack Taylor - Consultant
Gordon F. Whitney, PE - Whitney Consultants

*deceased
# International Slurry Surfacing Association 2013 - 2014 Board of Directors

**President**  
Christine Deneuvillers  
Colas SA  
4 rue Jean Mermoz Batiment C  
Magny Les Hameaux 78772 France  
Phone 33-1-39-30-93-62  
deneuvillers@campus.colas.fr

**Immediate Past President**  
Doug Ford  
Pavement Coatings Company  
10240 San Sevaine Way  
Jurupa Valley, CA 91752  
Phone 714-826-3011  
dford@pavementcoatings.com

**Vice President**  
Rusty Price  
Intermountain Slurry Seal  
1000 Warm Springs Road  
Salt Lake City, UT 84130  
Phone 801-526-6144  
rusty.price@gcinc.com

**Secretary**  
Carter Dabney  
Slurry Pavers, Inc.  
3617 Nine Mile Road  
Richmond, VA 23223  
Phone 804-264-0707  
cdbabney@slurrypavers.com

**Treasurer**  
Eric Reimischlssel  
American Pavement Preservation  
4725 E. Carter Avenue  
Las Vegas, NV 89115  
Phone 702-507-5410  
ericr@americanpave.com

**Technical Director**  
Bob Jerman  
MeadWestvaco Corporation  
5255 Virginia Ave.  
N. Charleston, SC 29406-3615  
Phone 843-746-8155  
rjerman@mwv.com

**Director**  
Scott Bergkamp  
Bergkamp Inc.  
3040 Emulsion Drive  
Salina, KS 67401  
Phone 785-825-1375  
scottb@bergkamapinc.com

**Director**  
Rex Eberly  
Strawser Construction Inc.  
1565 Frank Road  
Columbus, OH 43223  
Phone 614-276-5501  
reberly@strawserconst.com

**Director**  
Rich Francis  
Southwest Slurry Seal Inc.  
22855 N 21st Avenue  
Phoenix, AZ 85027  
Phone 623-582-1919  
rich.swss@earthlink.net

**Director**  
Doug Hogue  
VSS Macropaver  
PO Box 178  
Hickman, CA 95323  
Phone 209-874-2357  
doug@slurry.com

**Director**  
Howie Snyder  
Vance Brothers, Inc.  
5201 Brighton  
Kansas City, MO 64130  
Phone 816-923-4325  
hsnyder@vancebrothers.com

**Director**  
Larry Tomkins  
Ergon Asphalt & Emulsions Inc.  
PO Box 1639  
Jackson, MS 39215  
Phone 601-933-3000  
larry.tomkins@ergon.com

**Director**  
Dave Welborn  
MWV Specialty Chemicals  
5255 Virginia Avenue  
N. Charleston, SC 29406  
Phone 918-237-3783  
dave.welborn@mwv.com

**General Counsel**  
David H. Baker  
Law Offices of David H. Baker LLC  
1701 Pennsylvania Ave., NW - Suite 300  
Washington, DC 20006  
Phone 202-253-4347  
david.baker@dhbakerlaw.com

**Executive Director**  
Mike Krissoff  
ISSA  
#3 Church Circle - PMB 250  
Annapolis, MD 21401  
Phone 410-267-0023  
krissoff@slurry.org

---

The PPRA Fall Meeting Reception gave attendees a look at Gilley’s Dallas. The original Gilley’s building was featured in the 1980 film “Urban Cowboy”, starring John Travolta and Debra Winger. That building was destroyed by fire in 1990.

---

Sean Abbitt, Tri-State Asphalt takes a ride on the mechanical bull at Gilley’s Dallas
International Slurry Surfacing Association
2013 - 2014 Committees

Chipseal
Ben Vagher
A-1 Chip Seal & Rocky Mountain Pavement
2001 W. 64th Lane
Denver, CO 80221
Phone 303-464-9267
bvagher@gmail.com

Crack Treatment
Bryan Darling
Crafco Inc.
420 N. Roosevelt Ave.
Chandler, AZ 85226
Phone 602-276-0406
bryan.darling@crafco.com

Slurry/Micro Surfacing
Rusty Price
Intermountain Slurry Seal
1000 Warm Springs Road
Salt Lake City, UT 84130
Phone 801-526-6144
rusty.price@gcinc.com

Asia Market Development
Songchang Huang
Research Institute of Highways (RIOH)
No. 8 Xitucheng Road
Haidian, Beijing 10008 China
sc.huang@rioh.com

Awards
Doug Ford
Pavement Coatings Company
10240 San Sevaine Way
Jurupa Valley, CA 91752
Phone 714-826-3011
dford@pavementcoatings.com

Bylaws
Doug Ford
Pavement Coatings Company
10240 San Sevaine Way
Jurupa Valley, CA 91752
Phone 714-826-3011
dford@pavementcoatings.com

Convention
Carter Dabney
Slurry Pavers, Inc.
3617 Nine Mile Road
Richmond, VA 23223
Phone 804-264-0707
cdbaney@slurrypavers.com

European Specifications
Jean Etienne Urban
Eurovia Management
18 place de l’Europe
Rueil Malmaison Cedex 92565 France
Phone 33 1 471 64858
jean-etienne.urban@eurovia.com

Government Relations
Scott Bergkamp
Bergkamp Inc.
3040 Emulsion Drive
Salina, KS 67401
Phone 785-825-1375
scott@bergkampinc.com

Industry Relations
Doug Hogue
VSS Macpaver
13024 Lake Road
Hickman, CA 95323
Phone 209-874-2357
doug@slurry.com

Information Services
Carter Dabney
Slurry Pavers, Inc.
3617 Nine Mile Road
Richmond, VA 23223
Phone 804-264-0707
cdbaney@slurrypavers.com

International Members
Christine Deneuvillers
Colas SA
4 rue Jean Mermoz Batiment C
Magny Les Hameaux 78772 France
Phone 33-1-39-30-93-62
deneuvillers@campus.colas.fr

Membership
Doug Ford
Pavement Coatings Company
10240 San Sevaine Way
Jurupa Valley, CA 91752
Phone 714-826-3011
dford@pavementcoatings.com

Nominating
Doug Ford
Pavement Coatings Company
10240 San Sevaine Way
Jurupa Valley, CA 91752
Phone 714-826-3011
dford@pavementcoatings.com

Past Presidents
Doug Ford
Pavement Coatings Company
10240 San Sevaine Way
Jurupa Valley, CA 91752
Phone 714-826-3011
dford@pavementcoatings.com

PPRA
Christine Deneuvillers
Colas SA
4 rue Jean Mermoz Batiment C
Magny Les Hameaux 78772 France
Phone 33-1-39-30-93-62
deneuvillers@campus.colas.fr

Rusty Price
Intermountain Slurry Seal
1000 Warm Springs Road
Salt Lake City, UT 84130
Phone 801-526-6144
rusty.price@gcinc.com

Slurry Systems Workshop
Rex Eberly
Strawer Construction Inc.
1595 Frank Road
Columbus, OH 43223
Phone 614-276-5501
reberly@strawerconst.com

Supplier Members
Bill Cooper
Bergkamp Inc.
3040 Emulsion Drive
Salina, KS 67401
Phone 785-825-1375
billo@bergkampinc.com

Technical Director
Bob Jerman
MW Specialty Chemicals
5255 Virginia Avenue
N. Charleston, SC 29406-3615
Phone 843-746-8155
bob.jerman@mwv.com

Technical Marketing/Webinar
Larry Tomkins
Ergon Asphalt & Emulsions Inc.
PO Box 1639
Jackson, MS 39215
Phone 601-933-3000
larry.tomkins@ergon.com

Technical Response Team
Rich Wenthe (Chair)
MW Specialty Chemicals
5255 Virginia Avenue
North Charleston, SC 29406
Phone: 843-637-7531
richard.wenthe@mwv.com

Bryan Darling
Crafco Inc.
420 N. Roosevelt Avenue
Chandler, AZ 85226
Phone 602-276-0406
bryan.darling@crafco.com

Doug Ford
Pavement Coatings Company
10240 San Sevaine Way
Jurupa Valley, CA 91752
Phone 714-826-3011
dford@pavementcoatings.com

Bob Jerman
MW Specialty Chemicals
5255 Virginia Avenue
N. Charleston, SC 29406-3615
Phone 843-746-8155
bob.jerman@mwv.com

Carlos Mata Ascoli
Asfaltos de Centroamerica SA de C.V.
96 Avenue Norte #632
San Salvador, El Salvador
Phone: 503-773-03638
carlosmata@asfalca.com

Rusty Price
Intermountain Slurry Seal
1000 Warm Springs Road
Salt Lake City, UT 84130
Phone 801-526-6144
rusty.price@gcinc.com

Ben Vagher
A-1 Chip Seal & Rocky Mountain Pavement
2001 W. 64th Lane
Denver, CO 80221
Phone 303-464-9267
bvagher@gmail.com
Breathtaking...

There is a simple beauty in the image of a perfectly re-surfaced roadway leading into the distance. But that beauty doesn’t just happen. It is the result of a dedicated crew with the proper equipment solutions and a plan for success. Bergkamp has been providing pavement preservation solutions worldwide for over 35 years.

We are the only manufacturer offering a complete line of equipment solutions that include full-size continuous and truck- and trailer-mounted slurry seal and micro surfacing pavers and Variable Width Spreader Boxes. Our exclusive EMCAD and EMS Systems increase production by reducing calibration time and simplifying production adjustments.
ISSA Members

Go to www.slurry.org to find detailed contact information for all ISSA members.

CONTRACTOR MEMBERSHIP
A-1 Chipseal & Rocky Mountain Pavement
AC Pavement Striping Company
Alakona Corp.
American Asphalt Repair & Resurfacing Co.
American Pavement Preservation
American Pavements, Inc.
Asphalt Maintenance Solutions, LLC
Asphalt Surface Technologies Corp (ASTECH)
Benedict Slurry Seal Inc
Blackline, Inc.
California Pavement Maintenance
DENCO Highway Construction Corporation
Doug Martin Contracting Company Inc
Duncor Enterprises Inc.
Fahrner Asphalt Sealers LLC
Foothills Paving & Maintenance, Inc.
Geneva Rock Products, Inc.
Graham Contractors Inc
Greenwood Paving Ltd.
Hardrives Construction, Inc.
Intermountain Slurry Seal, Inc.
IPR Ltd.
J. Di Iorio Construction Ltd.
Lone Star Dirt & Paving, Ltd.
Microsurfacing Contractors, LLC
Mission Paving & Sealing, Inc.
Missouri Petroleum
Morgan Pavement
Pavement Coatings Co.
Pavement Maintenance Systems LLC
Peter J. Caruso & Sons, Inc.
Regional Pavement Maintenance of Arizona
Roadway Management, Inc.
Roadway Services, Inc.
Sealcoating Inc.
Sierra Nevada Construction, Inc
Slurry Pavers Inc
Southwest Slurry Seal Inc.
Strawser Construction, Inc
T.L. Wallace Construction, Inc.
The Miller Group
Vance Brothers Inc
Vestal Asphalt Inc
Viasun Corporation
Viking Construction Inc.
VSS International, Inc.
West-Can Seal Coating Inc.
Western Pavement Solutions

SUPPLIER MEMBERSHIP
ACP Applied Products
Akzo Nobel Surface Chemistry, LLC
BASF Corporation
Bergkamp Incorporated

SUPPLIER MEMBERSHIP-continued
Colas Solutions Inc.
CorsiTech
Crafo Inc.
E.D. Etnyre & Co.
Ergon Asphalt & Emulsions Inc.
General Liquids Canada Ltd.
Hudson Materials Company
MaAsphalt Industries Limited
MeadWestvaco Corporation
Owens Corning
Paramount Petroleum
Petrochem Manufacturing, Inc.
Road Science LLC
SealMaster
Tri-State Asphalt, LLC
TYMCO, Inc.
ULTRAPAVE Corp.
VM Fiber Feeders, Inc.
VSS Macropaver, a Division of Reed International
Western Emulsions Inc.
Wright Asphalt Products Company

INTERNATIONAL CONTRACTOR MEMBERSHIP
Asfalta S.A. de C.V.
Asfaltos Emulsificados, S.A.
Downer Infrastructure
Eurovia Management
Fulton Hogan Limited
Heridoza Crespo Construcciones S.A.
Proyextra S.A. de C.V.
RAD
Showa Rekisei Industry Co Ltd
Tipco Asphalt Public Company Limited

INTERNATIONAL SUPPLIER MEMBERSHIP
Colas SA
Cold Chon (Galway) Ltd - Colas Teo
Nynas AB
Secmair - Breining
VP Technologies, LLC
WEIRO Weisig Maschinenbau GmbH

GOVERNMENT MEMBERSHIP
City of Emporia
City of Englewood
City of Florissant
City of Greeley
City of Houston
City of Huntington Beach
City of Laguna Niguel
City of Las Vegas Streets & Sanitation
City of Lewiston PW Street Division
City of North Las Vegas
City of Pocatello
City of Scottsdale
Los Angeles County DPW
RIOH - MOC
Town of Gardnerville
Village of Pleasant Prairie
Whitpain Township

AFFILIATE MEMBERSHIP
Expanded Shale, Clay & Slate Institute
Hawaii Asphalt Paving Industry
National Center for Pavement Preservation
The Barnhardt Group, LLC

HONORARY MEMBERSHIP
*Russell R. Ballou – Ballou Construction Co.
*C. Robert Benedict – Benedict Slurry Seal
Norman (Bud) Clovis – Ballou Construction Co.
Fred Dabney – Slurry Pavers Inc.
Charlie Gagnon – Ballou
Doug Hall – Musselman & Hall Contractors, LLC
Rudy Jimenez – University of Arizona
Nigel Kerrison
Harold McKeever – Roads & Streets Magazine
Darryl Montgomery
Bob Province – APCO
*Jerry Ritschel
Bob Shey
*Jim Sorenson – FHWA
*Ted Van Pelt
*Raymond Young
*deceased
Request for Online Educational Videos

Headquarters would like to feature your links for online educational videos or presentations. Do you have them on your company website? People contact AEMA, ARRA, and ISSA constantly, seeking more detail about the materials, products, and processes we represent. We know that some of our member companies have gone to great lengths to build informative websites which showcase various pavement preservation, recycling, and reclaiming technologies. We’d like to publish this list but first must give all members the opportunity to be included. If you have such material available online, and if it is purely and generically informative and educational and not a sales pitch, please send an email message including the appropriate links to Executive Director Mike Krissoff at krissoff@aema.org. We’ll take a look at what we receive and assemble the appropriate items into a list for publication.

Just have a look at what Ergon has done by visiting www.savemyroad.com

Please check out http://pavinars.uark.edu/Previous_Pavinars.php - This link was sent to us by Andrew Braham, Ph.D., Assistant Professor, University of Arkansas, Department of Civil Engineering. Andrew has uploaded several one-hour presentations on various pavement topics (both flexible and rigid). These presentations are recordings of live presentations.

Lang Butler from Ruston Paving shared the following:


Our FDR with Portland cement video: http://www.youtube.com/watch?v=Sdq-pWLIMdw


Thanks, Lang!

Logo Available to Members

The AEMA Logo is available to AEMA members in an electronic version; we will be pleased to send you one. For an electronic version of the AEMA logo, contact krissoff@aema.org.

ARRA Logo Available to Members

The ARRA logo is available for distribution to ARRA members. This is useful for use in stationery, advertising graphics, brochures, websites, etc. To receive the logo via e-mail, just send a note to ARRA headquarters: krissoff@arra.org

ISSA Logo Available to Members

The ISSA logo is available for distribution to ISSA members. ISSA Members may find this useful for stationery, advertising graphics, brochures, websites, etc.

To receive the new logo via e-mail, just send a note to ISSA headquarters: krissoff@slurry.org
# MASTER CALENDAR OF UPCOMING EVENTS

## 2014

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Details</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feb 25 – 28</td>
<td>AEMA-ARRA-ISSA Annual Meeting</td>
<td>The Turnberry Isle - Aventura, Florida</td>
</tr>
<tr>
<td>Mar 4 – 8</td>
<td>CONEXPO – <a href="http://www.conexpoconagg.com">www.conexpoconagg.com</a></td>
<td>Las Vegas, Nevada</td>
</tr>
<tr>
<td>Apr 13 – 17</td>
<td>NACE – <a href="http://www.countyengineers.org">www.countyengineers.org</a></td>
<td>Baton Rouge, Louisiana</td>
</tr>
<tr>
<td>Nov 17 – 19</td>
<td>PPRA Fall Meeting</td>
<td>Hyatt Regency - Baltimore, Maryland</td>
</tr>
</tbody>
</table>

## 2015

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Details</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feb 22 - 25</td>
<td>PPRA World Congress (AEMA, ARRA, ISSA, PPRA, IBEF, ICPP)</td>
<td>Concorde La Fayette Hotel - Paris, France</td>
</tr>
<tr>
<td>Mar 17-19</td>
<td>World of Asphalt – <a href="http://www.worldofasphalt.com">www.worldofasphalt.com</a></td>
<td>Baltimore, Maryland</td>
</tr>
</tbody>
</table>

## 2016

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Details</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feb 23 - 26</td>
<td>AEMA-ARRA-ISSA Annual Meeting</td>
<td>Hyatt Regency Coconut Point - Bonita Springs, Florida</td>
</tr>
<tr>
<td>Nov 1 - 4</td>
<td>AEMA ISAET – <a href="http://www.aema.org">www.aema.org</a></td>
<td>Hyatt Regency Crystal City, Arlington, Virginia</td>
</tr>
</tbody>
</table>

## 2017

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Details</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feb 14 – 17</td>
<td>AEMA-ARRA-ISSA Annual Meeting</td>
<td>Westin La Paloma, Tucson, Arizona</td>
</tr>
</tbody>
</table>

## 2018

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Details</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feb 20 – 23</td>
<td>AEMA-ARRA-ISSA Annual Meeting</td>
<td>Renaissance Esmeralda, Indian Wells, California</td>
</tr>
</tbody>
</table>

*Updated November 26, 2013*
All types of surface cracking and distress can be fixed with CIR technology from Roadtec. A rule of thumb is that CIR costs 50% less than rehabilitating with hot mix, and a CIR pavement will possess 80% of the strength of a hot mix pavement.

Roadtec has been developing and refining its CIR technology over many years and offers a number of equipment configurations to help you meet your goals.

To find out how Roadtec can assist you with your CIR questions and equipment needs, contact us at the number below, or see our website www.roadtec.com.

Because CIR is the Future of Road Rehabilitation.
continuous or truck mounted...
stop trying to decide

NEW VSS STV™
Slurry Transfer Vehicle

The STV takes the proven technology of the Material Transfer Vehicles (MTV) already used in the Road Construction Industry and applies it to road maintenance. The STV will allow you to make your Truck Mounted Slurry Machines into versatile Continuous or Standard slurry machines. The highly productive STV can work with both the Macropaver® and competitor’s machines.

EMULTECH® EMULSION PLANTS

Grow your business, enhance your versatility and control your quality by making your own emulsions. Emulsion Plants available in sizes producing 8, 16, 25, 40 and 75 tons per hour. Both stationary and mobile plants available. Popular sizes in stock. Call us to discuss your needs.

www.slurry.com // sales@slurry.com // (209) 874-2357