



We ♥ NY!

We ♥ Quiet Pavements!

Asphalt-Rubber Advances for New York Workshop

**THURSDAY, OCTOBER 11,
2007**

8:30 AM—3:00 PM

**MARRIOTT ALBANY HOTEL
189 Wolf Road
Albany, NY 12205**

FREE REGISTRATION !

Register at:
www.rubberpavements.org
Or call (877) 517-9944



The Rubber Pavements Association

invite you to its

Asphalt-Rubber Advances for New York Workshop

Come and meet the leading EXPERTS in Asphalt-Rubber Technology. The course is designed to provide the attendee with all of the information needed to overcome barriers to the greater use of rubberized asphalt concrete in City, County or State paving projects.

WHEN: Thursday , October 11, 2007

8:30 AM—3:00 PM

WHERE: Marriott Albany Hotel
1189 Wolf Road
Albany, NY 12205
www.marriott.com

Following the completion of this course the attendees will:

- ◆ Know the history of research and development of crumb rubber modified asphalt pavements.
- ◆ Recognize the difference between the various processes of incorporation of crumb rubber into asphalt.
- ◆ Understand the tire recycling and rubberized asphalt manufacturing processes.
- ◆ Recognize applications such as A-R chip seals and open graded friction course overlays for use in pavement preservation and rehabilitation.
- ◆ Be familiar with quality control testing in accordance with American Society for Testing and Materials and standard specifications from routine user states of asphalt-rubber material
- ◆ Know the benefits of the use of tire rubber in asphalt such as safety, noise reduction and long term performance.

For more information call:

(480) 517-9944,

Or email to:

gdickerson@rubberpavements.org

AGENDA

Registration starts at 7:30 AM

Workshop starts at 8:30 AM

- **Welcome and Introduction to Asphalt-Rubber**
By Doug Carlson, Exec Dir RPA
An overview of the development of asphalt-rubber technology and its entrance into the public domain, ASTM specifications and a discussion on the different methods of incorporating tire rubber into asphalt mixtures such as the dry method and terminal blend.
- **Crumb Rubber Production and Specifications**
By Barry Takallou P.E. PhD. President CRM
A look at Scrap Tire processing into an engineered product and agency specifications and quality control
- **Asphalt Rubber Research and Development**
By George Way P.E. ADOT (Ret)
Research progress in Super Pave and long-term performance predicted by the FHWA ALF tests. Also an overview of the use of AR in China.
- **Asphalt Rubber Manufacturing and Placement**
By Michael Hoag, Granite Construction
An overview of the processes used to incorporate scrap tire rubber to capture the engineering properties of tires
- **Asphalt Rubber Binder and Mix Design**
By Maghsoud Tahmoressi P.E., PaveTex Engineering
How asphalt and scrap tire rubber are combined and tested to ensure good engineering properties and the use of the binder in SMA and Friction Course Mixes
- **Asphalt Rubber Performance In Cold Weather**
By George Way P.E. ADOT (Ret)
A review of cold weather performance of rubber projects in the cold/wet LTTT database classification and the effect of salt and snow plows on A-R Friction Courses.
- **The Effect of Rubber in Ice De-bonding**
By Fred Milani, CRM
Research related to the effect granulated tire rubber particles in asphalt pavements through surface adhesion loss of ice.
- **The Use of AR Friction Courses to Enhance Safety and Reduce Noise**
By Cliff Ashcroft, FNF Construction
Decreased Accidents on I-35 in San Antonio following the application of a thin AR PFC over rough and aged PCCP and the Arizona Quiet Pavement Pilot Program and other research on Noise Reduction.

Adjourn at 3:00 PM

Meet the Speakers

Douglas D. Carlson

Executive Director

Rubber Pavements Association

1801 S. Jentilly Lane Ste A-2

Tempe, AZ 85281-5738

Phone: 480-517-9944

Fax: 480-517-9959

Email: dougc@rubberpavements.org

Doug has ten years of experience working within the rubberized asphalt industry conducting over 70 conferences, workshops, seminars, and technology tours in Arizona, California, Texas and worldwide with the Rubber Pavements Association. He is a recognized expert used for presentations in conferences concerning rubberized asphalt, tire recycling and the use of granulated tire rubber in engineering materials.

He has held or maintained the following positions: Executive Director, Rubber Pavements Association, February 2003 to Present. Director, Recycled Tire Engineering and Research Foundation, November 2003 to Present, FHWA Quiet Pavement Technology European Scan Team Member 2004, Member of the US Quiet Pavements Expert Task Group, 2004 to Present, Member, Transportation Research Board 2004 to Present, Member, ASTM 1999 to Present, Member, Caltrans Rubberized Asphalt Concrete Task Group March 1998 to Present (Co-Chairman of the RAC, Special Provision Performance Grade Binder Update 2005), Member, US EPA Resource Conservation Challenge, Tire Cluster, Rubber Modified Asphalt Subcommittee May 2002 to Present.

He has other unique qualifications: Project Administrator, Crumb Rubber Concrete Design Guide Development, Arizona Department of Environmental Quality, Contract EV 05-0002 AC, October 2004 to Present, Executive Board Member, Arizona Highway Users Conference 2002 to Present, Project Proposal Reviewer for EPA projects related to waste tires, Trained Combat Engineer and Bulk Fuel Specialist, USMC 1987-1995.

Barry Takallou, Ph.D, P.E.

President, CRM (Crumb Rubber Manufacturers) of America

11400 E. Pecos

Queen Creek, Arizona 85242

Phone: 480-987-3006

E-Mail: hbtak@aol.com

Dr. Takallou received a B.S. in Civil Engineering at California State University in 1981. He received his M.S. and Ph.D. in Civil Engineering at Oregon State University. Dr. Gary Hicks was his professor and mentor at OSU. He is affiliated with numerous professional organizations including the Transportation Research Board (TRB), APWA, ASCE, AAPT, ISAP and many others.

He has authored numerous publications on asphalt rubber pavement technology and has been a speaker at several national and international symposiums, including the American Society of Civil Engineers, American General Contractors, National Paving Association, ASTM, national tire seminars in Florida, Philadelphia and Transportation Research Board, New York, Swedish National Paving Conference, and the International Conference on Paving in Cold Regions held in Ottawa, Canada.

He is currently a member of the RPA Executive Committee, a founding Director of the Recycled Tire Engineering and Research Foundation and is active in many local California technical organizations including the Greenbook Committee. Dr. Takallou spent many years in the crumb rubber modified industry prior to becoming involved in tire recycling. He has authored numerous technical papers on rubber modified asphalt pavements as well as tire recycling. Dr. Takallou has recently established a tire processing equipment manufacturing plant, Artisan Machinery Global, in Illinois. He currently operates three tire recycling plants, the Queen Creek plant in AZ, Los Angeles, CA and Albany, NY..

Michael Hoag

Asphalt-Rubber Engineer

Granite Construction Company

38000 Monroe Street

Indio, California 92203

Phone: 760-775-7500

Fax: 760-775-8229

E-Mail: mike.hoag@gcinc.com

Mike Hoag graduated with a degree in Environmental Engineering from Montana Tech in 2000. After graduating, he started working for Granite Construction Company as a project engineer in Granite's Southern California Branch in Palm Springs. He worked on several road reconstruction and maintenance projects including three major paving projects with Asphalt-Rubber. In January of 2003, Michael was promoted to the position of Asphalt-Rubber Engineer for Granite where he managed all of the company's asphalt-rubber blending plants until 2005. He was responsible for bidding all Asphalt-Rubber work, scheduling the projects, managing quality control, crews, and equipment for each of Granite's four mobile Asphalt-Rubber plants. Presently, he is a project estimator and aggregate resource development engineer. He has been a member of the RPA Board since 2002 and currently serves as the Association President.

George Way, P.E.

Chairman, Recycled Tire Engineering Research Foundation (RTERF)

Arizona, DOT (Ret).

8609 E. Hubbell Street

Scottsdale, AZ 85257

Phone: 480-990-9451

E-Mail: wayouta@cox.net

George retired in 2004 from the Arizona DOT as the Chief Pavement Design Engineer with 35 years of experience in Pavement Structural Design, Materials Testing, Materials Pavement Research, Pavement Condition Inventory, Pavement Management, Asphalt and Asphalt Rubber Mix Design, Concrete Mix Design, and all related materials composing the pavement structure from the soil foundation to the surface of the pavement. His service with ADOT coincided with the development of asphalt-rubber materials used by the agency beginning in 1972.

Also during his career with ADOT he served on the Strategic Highway Research Program (SHRP) AASHTO Task force that developed the original Long Term Pavement Performance (LTPP) plan. He is an active member of many engineering Associations and Societies including the following: American Society of Civil Engineers (ASCE), American Institute of Chemical Engineers (AIChE), National Society of Professional Engineers (NSPE), Association of Asphalt Paving Technologists (AAPT), American Society for Testing Materials (ASTM), Transportation Research Board (TRB), Panel member NCHRP 1-37A (1998-2004), Pacific Coast User Producer Conference on Asphalt Specifications, Chairman of the Rubber Pavement Association (RPA) Technical Advisory Board, and Chairman of the Recycled Tire Engineering and Research Foundation (RTERF).

He has authored and co-authored over 70 published reports in technical journals, conferences and proceedings many involving the research, design, and use of asphalt rubber materials.

Fred Milani Ph.D.

Director of Technical Services

Crumb Rubber Manufacturers

15800 S. Avalon Blvd

Los Angeles

CA, 90220

Phone: (310) 538-2222

Fax: (310) 538-2227

Email: femilani@aol.com

Dr. Milani is a recognized expert in the field of rubber chemistry and in the chemical compatibility of crumb rubber and asphalt cement. In 1989 he developed a test method to evaluate the de-icing properties of rubberized asphalt pavements.

Prior to joining the CRM to direct technical services, Dr. Milani taught in several

universities as a full professor for 30 years. His primary field of experience is spectroscopy. He has published 3 books in his field and is authored of more than 30 scientific and technical papers, several being co-authored by Dr. Takallou. Dr. Milani has participated in several research programs in cooperation with the Universities of Massachusetts, South Carolina, California at Irvine and Oregon State University.

Cliff Ashcroft

Vice President California Operations

FNF Construction

1310 Domingo Road

Fullerton, CA 92833

Phone: 714-525-2666

Fax: 714-525-1717

Cell Phone: 949-295-7503

e-mail: cliffa@fnfinc.com

Cliff Ashcroft started in the Asphalt-Rubber industry in 1989 when he worked for the first California based Asphalt-Rubber contractor as their Marketing Manager. In 2000 he joined FNF Construction as a Vice President of California Operations.

His pavement career started in 1984 with the Equipment Division of Sully Miller Contracting in Southern California. Later he served as Plant Manager of Production and Sales at the Norwalk Concrete Plant of Blue Diamond Materials. Prior to joining the Asphalt-Rubber industry, Cliff served as Manager of the Blue Diamond Class II Base Department in Long Beach, CA.

Cliff has a solid reputation as an industry expert in the use of Asphalt-Rubber and is well known to public works agencies in Southern California. Cliff is President of the Rubber Pavements Association, having served as a RPA Director for several years. He has also served as the Co-Chair of the RPA California Task Force and Chairman of the RPA Annual Awards Committee from 2000-2004. He is an active member of several Caltrans/RPA committees and participated in the review team of asphalt rubber projects placed throughout the state. Cliff has been a participant in workshops in California, Texas and Arkansas and presented a paper at Asphalt-Rubber 2003 in Brazil. He is a member of the California APA and also serves on the Green book Committee in Southern California.

Maghsoud Tahmoressi, P.E.

President, Pavetex Engineering and Testing, Inc.

3989 Highway 290 East

Dripping Springs, TX 78620

Phone: 512-894 3040

E-Mail: MT@pavetex.com

Maghsoud is a registered professional engineer in the state of Texas. He has a BS and MS degree in Civil Engineering from University of Texas at Austin. He is currently President of Pavetex Engineering and Testing, Inc. Pavetex is a consulting engineering firm specializing in all aspects of hot mix, Asphalt Rubber, Seal Coat, Microsurfacing and Cold Mix design, construction and evaluation. Pavetex also has a state of the art laboratory for materials testing and design.

Prior to forming Pavetex, Maghsoud was the State Bituminous Engineer for Texas Department of Transportation. In that capacity he was responsible for all-bituminous materials specification as well as OC and OA bituminous materials. Maghsoud has worked extensively with dense graded and gap graded mixtures. He developed a Coarse Matrix High Binder mixture for TxDOT which strives to reduce rutting through stone-on-stone contact. During implementation of CMHB, he devised method to improve resistance to permeability. He has also conducted research to improve measurement of bulk specific gravity of cores for mixes, which tend to have interconnected air voids. Maghsoud has also worked at University of Texas as a research engineer and at southwestern laboratories as a materials engineer prior to working at TxDOT. Among the research projects he worked on are SHRP A-001 and SHRP A-004 contracts. He was also the project engineer for LTPP Southern Regional sampling contract.

Maghsoud is very active in research related to hot mix. He is Past chairman of TRB committee A2F02 "Construction and Rehabilitation of Flexible Pavements". He is also chairman and Panel member of several NCHRP projects.

Maghsoud has authored or co-authored more than 50 technical papers and reports

REGISTRATION FORM

Thank you for participating in the **Asphalt-Rubber Advances for New York Workshop**
 On Thursday, October 11th, 2007!

Please complete the application and mail, email or fax it to:

Rubber Pavements Association
 P. O. Box 40878
 Mesa, AZ 85274
 Fax (480) 517-9959
 Email: gdickerson@rubberpavements.org

REGISTRATION FEES: FREE! But we need you to RSVP before October 1st. 2007

Attendee # 1 Contact Information			
Full Name:			
	Last	First	M.I.
Company Name			
Job Title:			
Address:			
	Street Address		Suite #
	City	State	ZIP Code
Phone:	()	E-mail Address:	

Attendee # 2 Contact Information			
Full Name:			
	Last	First	M.I.
Company Name			
Job Title:			
Phone:	()	E-mail Address:	

Attendee # 3 Contact Information			
Full Name:			
	Last	First	M.I.
Company Name			
Job Title:			
Phone:	()	E-mail Address:	



Dedicated to encouraging greater usage of high quality, cost effective asphalt pavements containing recycled tire rubber.