DESTINATION ISTANBUL
EURASPHALT & EUROBITUME
5th E&E CONGRESS - 2012

5th EURASPHALT & EUROBITUME CONGRESS
13-15 June 2012 - Istanbul, TURKEY
Asphalt, the sustainable road to success
Programme & Exhibition Catalogue

www.eecongress2012.org
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Asphalt, the sustainable road to success

This congress could be the most important E&E Congress in recent years. We are at a point where traditional thinking could change and a new era where Warm Mix Asphalt and other technologies will be embraced by our industry to help shape the future for the coming years.

On the first day there will be two Keynote Speaker sessions where a total of eight eminent experts will give their vision on one of the key issues that will be addressed by the congress. The wealth of presentations, the moderators’ reports in the technical sessions, the exhibition and the poster session will all together provide you an excellent overview of where we are now and where we are going to.

In the proceedings you will find the full text of the 267 papers that were accepted for publication as well as copies of the PowerPoint slides of the papers that were presented during the congress, the moderator reports and presentations, in addition the presentations from Sessions 1 & 2.

Communications and updates of the congress will appear regularly on the congress website www.eecongress2012.org

Alberto Madella
Eurobitume President

Jean-Louis Marchand
EAPA President
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<td>Salt Halim Pasha Mansion</td>
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**Wednesday 13 June 2012**

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<td><strong>Session Chair: Simon van der Byl</strong></td>
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<td></td>
<td>Welcome by president of Eurobitume on behalf of EAPA and Eurobitume</td>
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<td>Welcome by Mayor of Istanbul</td>
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<td>Welcome by Turkish minister of Transport</td>
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<td>Speech and Award Ceremony by president of EAPA</td>
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<td>10.00</td>
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<td>10.30 - 12.30</td>
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<td><strong>Session Chair: Mike Southern</strong></td>
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<td>Social issues</td>
<td>Prof. Dr. Mustafa Karasahin, Civil Engineering Department in Istanbul University, Isparta, Turkey</td>
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<td>Social economic impact</td>
<td>Vilrid Femoen, Director of Policy, Norwegian Road Federation, Norway</td>
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<td>Financing of road infrastructure and maintenance:</td>
<td>André Broto, Vice-President of Cofiroute France</td>
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<td>Responsible sourcing and green procurement</td>
<td>Shamir Ghumra, Head of Sustainability Aggregate Industries, UK</td>
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<td>Health &amp; Safety in the 21st century</td>
<td>Carl Robertus, Global bitumen technology manager, BP, Germany</td>
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<td>Getting the right message: communication and social media</td>
<td>Siobhan McKelvey, Marketing Manager - Nynas Bitumen</td>
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<td>12.30 - 14.00</td>
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Wednesday 13 June 2012

14.00 - 15.30 Session 2: Introduction to congress themes by keynote speakers

Session Chair: Egbert Beuving

Energy & Carbon
Jan van der Zwan, DVS, The Netherlands

Adapting to climate change
Rudi Bull-Wasser, BASt, Germany

Resource use & recycling
John Barritt, WRAP (Waste & Resources Action Programme), UK

Durability & Performance
Prof. Dr. Ir André A. A. Molenaar, Delft University of Technology, the Netherlands

Q&A

15.30 - 16.00 Coffee Break

16.00 - 17.30 Session 3: Health Safety & Social issues

Session Chair: Harry Roos

The IARC decision on bitumen and its fumes
Henri Moller on

Summary of animal skin carcinogenicity test results with bitumen fume condensate samples
James Freeman

Status of bitumens under the REACH regulation
Peter Boogaard

Moderator report
Christine Leroy

Simulation of tyre/road noise as a tool for the evaluation of the acoustic behaviour of road surfaces
Thomas Beckenbauer

An assessment of the evolution of the skid resistance of proprietary asphalt surfacings in the UK
David Woodward

Q&A

19.45 - 24.00 Congress event

Congress Cocktail Prolongé
Salt Halim Pasha Mansion

Address: Salt Halim Pasha Mansion - Kóybaş Caddesi No: 83 Yeniköy - Istanbul T: +90 212 223 05 66 - F: +90 212 223 05 67

Please note that the congress has arranged boats to depart from Kabataş Harbour to go to the historical venue of Salt Halim Pasha Mansion.

Transfer buses will depart from the Congress Center at 19:00hrs to Kabataş Harbour.

If you prefer to make your own way to the harbour from your hotel, the taxi ride will take approx 10-20 mins (the time will depend totally on the traffic) and the cost will be a maximum 10 Euro. However, we would like to inform you that the harbour area has a very busy sea traffic and it could be difficult for you to find us exactly on the harbourside.

There will be drinks and nibbles served during the boat trip to Salt Halim Pasha Mansion.

The boat trip will last approx 30-45 mins depending on the sea traffic and other operational issues.

Departure of the boats from the Kabataş Harbour to Salt Halim Pasha Mansion will be at 19:15hrs.

A full open buffet dinner with drinks will be served on arrival at the Mansion. There will also be some light music and in one corner we will have a screen available to see the European Championship football games.

Buses will start to depart from Salt Halim Pasha Mansion back to the Congress Center and to Taksim hotel district every 15 minutes starting from 22:30 - 24.00hrs.
Thursday 14 June 2012

08.45 - 18.00 Exhibition and posters

09.00 - 10.30 Session 4: Sustainability, Energy use and Climate Change

Session Chair: Sophie Limborg

Moderator report
Timo Blomberg

Life Cycle Inventory: Bitumen
Frederick Bernard

The asphalt pavement embodied carbon tool (asPECT): Developing a carbon footprinting methodology for asphalt products
Matthew Wayman

Moderator report
Imad Al-Qadi

A multi objective framework to optimise planning of road works
Henny Ter Heurne

Adaptation measures to the challenges of climate change in Hungarian road construction
Lazlo Gaspar

Q&A

10.30 - 11.00 Coffee Break

11.00 - 12.30 "Meet the author" Poster session in the poster area

12.30 - 14.00 Lunch

14.00 - 15.30 Session 5: Resource use and Recycling

Session Chair: Gerbert van Bochove

Moderator report
Erik Nielsen

Viscoelastic properties of bitumen blends obtained from pure and RAP-extracted binders
Salvatore Mangiafico

On a laboratory experimental protocol for qualitative characterization of high rate recycled asphalt mixtures
Anissa Eddhahak Ouni

Moderator report
Jean-Pascal Planche

Unlocking the full potential of Reclaimed Asphalt Pavement (RAP) - High quality asphalt courses incorporating more than 90% RAP; a case study
Matthias Nolting

A New Method for Hot Recycling of Asphalt
Selim Emre Gencer

Q&A

15.30 - 16.00 Coffee Break
Thursday 14 June 2012

16.00 - 17.30 Session 6: Warm Mix Asphalt and Low Temperature Techniques

Session Chair: Richard Taylor

Moderator report
Bernard Eckmann

Warm asphalt mixes made with a "ready to use" bitumen: an experimental field trial
Laurence Lapalu

Environmental aspects of warm mix asphalts produced with chemical additives
Juan Gonzalez Leon

Moderator report
Malcolm Simms

Impact of loose mix ageing time and temperature on the mechanistic performance of hot and warm bituminous mixtures produced as virgin mixes or mixes containing 20% rap
Gerald Reinke

Energy in warm mix asphalt
Nicolas Bueche

Q&A

17.45 - 19.15 Sundowner activity (Cocktail reception)

Istanbul Lütfi Kirdar Congress Center - Rumeli Terrace
Friday 15 June 2012

08.45 - 14.30 Exhibition and poster session

09.00 - 10.30 Session 7: Durability & Performance: Binders

Session Chair: Antonio Paez-Duenas

Moderator report
Gordon Airey

Bitumen chemical modification by thiourea: rheological behaviour at low in-service temperatures and microstructure
Javier Navarro

Comparing cold performance results using Fracture Toughness test, Asphalt Binder Cracking Device, Fraass Breaking point and Bending Beam Rheometer
Erica Jellema

Moderator report
Ignacio Perez

Thin film oxidative aging and low temperature performance grading using small plate dynamic shear rheometry: An alternative to standard RTFO, PAV, and BBR
Michael Farrar

Bitumen emulsions: Meeting the pavement preservation challenge
Etienne Lebouteiller
Q&A

10.30 - 11.00 Coffee Break

11.00 - 12.30 Session 8: Durability & Performance: Mixtures

Session Chair: Jean Paul Michaut

Moderator report
Ann Vanelstraete

A single rheological model to describe low temperature behaviour of asphalt mixtures assessed in different laboratory test methods
Stephan Büchler

Interlaboratory experiment of asphalt concrete using indirect tensile fatigue test
Safwat Fadhil Said

Moderator report
Lothair Drueschnner

LOT Winter Damage Theory: Validation and Understanding of Winter Damage in Porous Asphalt
Rien Huurman

Laboratory tests for internal cohesion and raveling of thin and ultra-thin wearing courses
Joëlle De Visscher
Q&A

12.30 - 13.00 Closing session

Short speech by Eurobitume President, Alberto Madella
Summary of the Congress
Best Poster Award
Best Picture Award
Speech by EAPA President, Jean-Louis Marchand, and the announcement of the location and date of the 6th E&E Congress.

13.00 - 14.00 Lunch

15.00 NOT BEFORE Dismantling exhibition and posters
Exhibition Plan and Allocation

ASPHALT, THE SUSTAINABLE ROAD TO SUCCESS
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<tr>
<td>1,2,3,4 Total</td>
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<tr>
<td>5,6,7,8 JRS</td>
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<td>9,10,12 Kraton</td>
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Allocated Booths
Company Name: ABICert the certification body
Address: Zona Ind.le Cucullo – A14 highway exit I-66026 Ortona
Country: ITALY
Web page: www.abicert.it

ABICert is Certification Body notified at the European Commission with no. 1982 for CE marking of building materials: bitumens for road applications (EN 12591), hard grade bitumens (EN 13924), bituminous cationic emulsions (EN 13808), cut-back/fluxed bituminous binders (EN 15322), bituminous conglomerates (EN 13108..), polymers-modified bitumens (EN 14023), road surface dressing (EN 12271), slurry surfacing (EN 12273), precast concrete elements, aggregates, mortar, admixtures, concrete blocks for floorings/walls, geotextiles/geosynthetics, structural timber. ABICert is authorized for issuing Factory Production Control certifications of ready mix concrete plants. ABICert is accredited by ACCREDIA for issuing certifications according to ISO 9001, ISO 14001, BS OHSAS 18001.

Company Name: Advanced Chemical Trading
Address: Am Kanal 8-10 A-2352 Gumpoldskirchen
Country: AUSTRIA
Web page: www.gilsonite-roads.com

ACT was founded in 1997 as Trading Agency for chemical raw materials. Quickly after foundation, ACT advanced to a reliable supplier of additives for the asphalt industry. ACT is exclusive agent in Austria for JRS Cellulose fibers and in Austria and Hungary for Akzo Nobel bitumen emulsifiers and adhesion promoters. Since 2008, ACT is the master distributor for American Gilsonite’s road paving activities in Europe except Scandinavia. American Gilsonite’s HMA Modifier is widely used as additive for high performance roads throughout the World. Major road paving companies are using Gilsonite for asphalt solutions on high resistant base- binder- or surface courses.

Company Name: AkzoNobel Surface Chemistry
Address: Stenunge Allé 3 SE-444 85 Stenungsund
Country: SWEDEN
Web page: www.akzonobel.com/surface/markets/asphalt/

AkzoNobel Asphalt Applications is the world’s leading company in its field, serving the road industry since the beginning of the 1940s. We deliver adhesion promoters, emulsifiers, warm mix additives and technology for the road construction and maintenance industry all over the world. We specialize in applying advanced chemistry for all applications used by the asphalt paving industry. Our business philosophy is to develop sustainable chemistry and technology which improves the performance and durability of asphalt pavements. AkzoNobel is a global fortune 500 company leading in chemicals and coatings with a turnover of 14.6 billion Euro and about 55,000 Employees.
In 2011, World’s number 1 and Turkey’s number 1 in asphalt plants industry decided to unify their power, as a part of Ammann’s global positioning strategy. The result for 2011 was a sales record of over 25 plants, which carried Turkey to second rank in global sales of Ammann.

Today, Ammann Teknomak is providing not only the best asphalt plants to Turkish market, but offering the newest technology in production methods with reduced costs and environmental impacts.

Our experience of 20 years in the market will offer you tailor made solutions for your business.

Antigo Construction, Inc. is a full-service concrete pavement breaking specialist equipped to provide concrete pavement rubblization, cracking & seating, and breaking for removal worldwide. Antigo operates Badger Breakers® manufactured by its affiliate, Badger State Highway Equipment, Inc. Since 1982 Antigo has completed 4,700 projects involving 205 million square yards of pavement in the United States, Canada, the Caribbean Islands, the United Kingdom, Ireland, Belgium, Afghanistan, Saudi Arabia, Turkey, India, South Africa and Suriname. Antigo's fleet of concrete breakers and its experienced crew of equipment operators and support personnel make it uniquely capable of providing a full range of concrete breaking services.

The APS Antriebs-, Prüf- und Steuertechnik GmbH, brand Wille Geotechnik®, is one of the leading companies for developing and producing testing machines with specific software for research on material testing, and Asphalt, particularly in the field of dynamic testing devices with experience for more than 20 years in. In addition to the static and dynamic universal and special testing machines we have the complete assortment of testing machines for recent and projected EN-Tests. During the last years our testing machines for the determination of material fatigue, stiffness and dynamic creep characteristic received international compliment. Individual demands of our customers and latest developments will always be considered in our construction.
Company Name: ASFAMAK İthalat, Ihracaat, İnşaat Sanayi Ticaret Limited Şirketi
Address: Kuzgun Sokak No: 76 / 3 06690 Çankaya - Ankara
Country: TÜRKİYE
Web page: www.asfamak.com

"Asfamak was established in 2006 to operate in asphalt chemicals market, cold asphalt and patching materials and emulsion production and sales in Turkey. Company headquarters is located in Ankara. Asfamak is currently producing cold patching materials and asphalt emulsions for the Turkish market with a 60 ton/hr asphalt plant and a 15 ton/hr emulsion facility. The asphalt chemicals Asfamak is offering to Turkish market include ICSO products from Poland, Hydrior products from Switzerland and BTC products from Germany."

Company Name: baubar GmbH
Address: Südring 8 44787 Bochum
Country: GERMANY
Web page: www.baubar-gmbh.de

baubar GmbH is a worldwide acting trader for special additives. baubar GmbH has specialized in the modification of asphalt and bitumen. In particular additive are offered for the following applications and objectives:

1. Modification of bitumen with SBS and rubber
2. Bitumen and asphalt rejuvenator (naturel based)
3. Production of warm and low temperature asphalt
4. Production of colored asphalt (bitumen and pigments)
5. Anti sticking agents
6. Cellulose fibers

Company Name: Benninghoven GmbH & Co. KG
Address: Industriegelände D - 54486 - Muelheim/Mosel
Country: Germany
Web page: www.benninghoven.com

Benninghoven offers innovative solutions to the Asphalt industry. Over 100 years experience and more than 800 employees worldwide ensure the highest quality standards. The manufacturing is carried out in two modern factories in Germany. We can provide a complete range of mobile and static Asphalt plants in the range of 60-450 t/h, high efficiency multi fuel burners, Bitumen processing systems and recycling technology including, crushers and cold and hot recycling plants. Partnership, Technical Support and Service is part of the strategy of our family business.

We look forward to welcoming you, together with our turkish partner TEKNO, to stand No. 52.
Company Name: BERK Petrochemical  
Address: Berk Petrochemical: Istanbul  
Country: TURKIYE  
Web page: www.berkpetrokimya.com

BERK PETROKIMYA A.S. was founded in 2004 with the objective of the marketing and sales of Petrochemicals. Products include SBS, SEBS, SIS, Solvents. For about 8 years, BERK PETROKIMYA has shown continuous growth on a domestic scale, adding new materials, operational and logistical locations in Istanbul, Ankara, Izmir, Adana and Samsun cost-effectively serve to our customers and business partners.

Company Name: LCY Chemical Corporation  
Address: LCY Chemical Corp: Taipei  
Country: TAIWAN  
Web page: www.lcygroup.com

Global company with diverse portfolio of products. Founded in 1965 with headquarters in Taipei, Taiwan. Manufacturing facilities in Taiwan, China, USA, Qatar. Products include TPE(SBS, SEBS, SIS), Solvents, Polysilicon, Polypropylene, Copper Foil, Fuel Additives.

Company Name: BTC Speciality Chemical Distribution GmbH  
Address: Maarweg 163, 50825 Cologne  
Country: GERMANY  
Web page: www.btc-europe.com

BTC belongs to the world's leading chemical group, BASF – The Chemical Company. BTC is BASF's European sales organization for speciality chemical distribution. The company's seven regional subsidiaries supply customers from numerous industry sectors all over Europe with about 4,000 high-quality chemicals and specialities. Our strengths lie in our knowledge of the industry, based on many years of experience, and our proximity to our customers. Together with them, we develop tailor-made solutions. They also profit from the unique advantages of the BASF Verbund in terms of logistics and product availability and from the individual service provided by our local contacts.

Company Name: BWS Technologie GmbH  
Address: Grevenbroich  
Country: GERMANY  
Web page: www.supraton.com

SUPRATON® inline-homogenizers with the rotor-stator working principle are well experienced in production lines for the dispersion, homogenisation, emulsification and reaction. Since the beginning of the serial production in 1958 SUPRATON machines are established in more than 800 different high-shear applications.

The SUPRATON® machines use high circumferential velocities of the rotor tools up to 50 m/s. The resulting high intensive shear and mixing efficiency make them a preferred system in the industry. Our machines for bitumen emulsions or polymer modified bitumen cover production rates up to 70/t/h.
CECA, a subsidiary of the Arkema Group, is a manufacturer of specialty surfactants used as warm mix additives, asphalt emulsifiers, and antistripping agents. CECA holds leading positions in its markets, and proposes innovative products to the road industry. Ceca team is renowned for its technical support and expertise in road construction technologies. Marketed under the tradenames Evatane®, Lotryl®, Lotader® and Orevac® Arkema’s Functional Polyolefins are used in wide-ranging industrial applications including bitumens, hotmelt adhesives, petroleum additives, .... With operations in more than 40 countries, some 13,200 employees and 9 research centers, Arkema generates annual revenue of Euro 5.9 billion*, and holds leadership positions in all its markets with a portfolio of internationally recognized brands. The world is our inspiration.

*Sales and headcount for continuing activities at end 2011, excluding vinyl products activities, which are part of a divestment plan.

CFF – Passionate about fibres
CFF GmbH & Co. KG is an internationally operating company, producing cellulose fibres and cooperating with technically skilled distribution partners all over the world. Our TOPCEL®, GENICEL® and TECHNOCEL® product range is used in various applications in road construction and our customers rely on a constantly high quality and service for more than 30 years. Being your experienced and reliable partner for any technological, product related or logistical issues we adapt to our customers needs and approach challenges-always trying to provide excellent results and optimised solutions.

Clariant is an internationally active specialty chemical company, based in Muttenz near Basel with a turnover of CHF 7.4 billion in 2011. Clariant Refinery Services is a leading provider of cold-flow additive applications for middle distillates including diesel, home heating oil and biofuels. A global business with headquarters in Frankfurt, Germany, it holds over 300 patents in cold-flow applications and provides robust cold-flow technology to match increasingly complex fuel composition and difficult-to-treat diesel fuels. Clariant Refinery Services works directly with customers to provide a tailored service package that includes product support, analytics, weekly reports and blend suggestions for production planning and product optimization.
Controls

Company Name: Controls
Address: Via Aosta, 6 – 20063 Cernusco s/N (MI)
Country: ITALY
Web page: www.controlsgroup.net

CONTROLS, worldwide leader in the production of testing equipment for the construction industry, after a long experience in advanced testing systems introduces in this event DYNAPAVE, the new generation of Dynamic Testing Systems for Road paving materials, and an innovative high productivity, compact, user-friendly and guaranteed reliability model of GYRATORY COMPACTOR for bituminous mixture. All these equipments complete the range of CONTROLS testing machines according to Superpave™, ASTM, AASHTO and EN Standards.

Cooper Research Technology

Company Name: Cooper Research Technology
Address: Unit 1 & 3 Albert Court, Ripley, Derbys, DE5 3AQ
Country: ENGLAND
Web page: www.cooper.co.uk

Cooper Research Technology is a British company which designs and manufactures testing equipment for asphalt and unbound materials. Equipment produced by Cooper is used to manufacture specimens and then test them for resistance to permanent deformation, resistance to fatigue or measure modulus. Cooper produces equipment which meets AASHTO, EN, Chinese, Australian and other national standards. Additionally Cooper work with industry and academics to develop new tests for the future. Added to the Cooper Group this year, Test International, British company who are global suppliers with 35 years experience, of quality Civil Engineering Materials Testing equipment for laboratory and field testing.

DenimoTech A/SI

Company Name: DenimoTech A/SI
Address: Haandvaerkervangen 12 DK- 5700 Aarslev
Country: Denmark
Web page: www.denimotech.com

DenimoTech is a global manufacturer of asphalt emulsion and PMB plants, diagnostic and control technologies, and technical consulting services that help infrastructure companies on all continents deliver roads with the right characteristics in quality, type and cost. Known for making one of the highest quality colloid mills in the industry, our plants are fully warranted and come in a variety of sizes for any job.
DuPont (www.dupont.com) is a science-based products and services company. Founded in 1802, DuPont (NYSE: DD) has been bringing world-class science and engineering to the global marketplace in the form of innovative products, materials, and services since 1802. The company believes that by collaborating with customers, governments, NGOs, and thought leaders we can help find solutions to such global challenges as providing enough healthy food for people everywhere, decreasing dependence on fossil fuels, and protecting life and the environment. For additional information about DuPont and its commitment to inclusive innovation, please visit http://www.dupont.com.

Dynasol offers some of the world's most innovative and dynamic specialty elastomers, in particular for industries such as: modified asphalt, adhesives and sealants, polymer modification and more.

E-MAK's new concepts and innovative productions are firstly tested and developed within Simge Group's companies' facilities under actual operation conditions then presented to the sector. This special advantage is the resource for many new inventions and designs.
Company Name: ENH Engineering A/S
Address: Jellingvej 15 9230 Svenstrup
Country: DENMARK
Web page: www.enh.dk

We are a Danish company founded in 1989. Our primary business area is manufacturing and consulting of bitumen technology for road construction maintenance. We manufacture stationary and mobile emulsion and PMB plant, pilot plants and know-how. We have produced and sold plant to multinational oil companies and state-owned companies as well as large and small private companies throughout the world.

Company Name: EuLA – European Lime Association
Address: 26 rue des Deux Eglises B-1000 Brussels
Country: BELGIUM
Web page: www.eula.eu

EuLA, the European Lime Association, is the voice of the European Lime sector. Lime is a product derived from limestone in an industrial process. It is extensively used in several industries and is therefore important to many aspects of people’s every-day lives. Lime is notably an important element in construction materials and civil engineering (bricks, mortars, roads, asphalt, railways).

Within EuLA, the Asphalt Task Force is in charge of raising the awareness of the benefits of hydrated lime in asphalt mixtures.

EuLA represents:
- About 95% of the European lime production
- 21 national associations
- 100 companies
- 210 production sites
- 600 lime kilns
- 11,000 employees
- 28.4 million tons total lime and dolime production
- Around Euro 2.5 billion contribution to Europe’s GDP

Company Name: Exxonmobil
Address: Hermeslaan 21831, Machelen
Country: BELGIUM
Web page: bitumen.sales@exxonmobil.com

ExxonMobil is an industry leader in the energy and petrochemical business. Built on global businesses designed to allow ExxonMobil to effectively compete in a changing and ever-challenging worldwide energy industry, our activities span from the exploration and production of oil and gas to the manufacturing and marketing of fuels, lubricants, specialties and chemicals.

ExxonMobil is a global bitumen manufacturer with reliable supply of quality products marketed in some 50 locations worldwide and with local support and expertise.

(“ExxonMobil” may refer to Exxon Mobil Corporation or one of its subsidiaries).
Company Name: GEOS
Address: Hertenstraat 30 B-3830 Wellen
Country: BELGIUM
Web page: www.geos.be

GEOS is Europe’s leading independent bitumen laboratory. We have over 35 years of experience and we currently perform more than 250 tests on bitumen, asphalt, and modified binders. Our lab determines binder characteristics in the framework of CE marking, international trading and product development.

By excellent performance in demanding international markets, GEOS has become preferred partner for all different stakeholders in the bitumen/asphalt industry. Refineries, hot mix plants, road contractors and traders regularly make use of our services.

Our lab is accredited ISO 17025. Please visit us at booth 44 to see how we take care of your products.

Company Name: ICL Performance Products
Address: 622 Emerson Road, Suite 500, St. Louis, MO 63141
Country: USA
Web page: www.ICL-PP.com

ICL Performance Products is a Global Leader in the Manufacturing and Marketing of Phosphates, Phosphoric Acid and Phosphorus Chemicals.

We offer various concentrations of Polyphosphoric acid as a modifier of bitumen for paving and roofing. Polyphosphoric acid significantly improves the physical and rheological properties of bitumen and results in a more durable pavement.

Our Plyant® roofing additives facilitates the air-blowing oxidation of roofing fluxes and enhances the quality of resulting roofing cement.

Company Name: IKA Werke GmbH & Co. KG
Address: Janke- & Kunkel Str. 10 79219 Staufen
Country: GERMANY
Web page: www.ika.com

Today, the IKA group has over 800 employees at eight locations on four continents and is proud to serve customers such as BASF, Bayer or Procter&Gamble. We are the leader in the world market in most of the product groups and a leading example for development and growth. Or as our new slogan expresses it: “IKA-Designed to work perfectly”. The Process Technology division of IKA offers turnkey solutions and state-of-the-art manufacturing options. IKA’s solutions include: dispersing machines, homogenizers, stirrers, jet flow agitators, kneading machines, vacuum dryers as well as ready-for-use process plants, all being manufactured in IKA’s outstanding high product quality. Consulting, design and realization of complex projects as well as proactive after-sales services complete IKA’s solution portfolio.
Company Name: Innophos, Inc.
Address: 259 Prospect Plains Road – Building A Cranbury, NJ 08512
Country: USA
Web page: www.innophos.com • www.innovalt.com

Innophos, Inc., a leading global manufacturer of specialty phosphates, offers a complete range of innovative products and services to the asphalt, consumer and industrial markets. INNOVALT® asphalt modifiers are the most efficient and economical means to increase the performance of asphalt. Small amounts of INNOVALT added to your asphalt formula REDUCE: Rutting, Stripping, Fatigue cracking and Thermal cracking.

INNOVALT® PRODUCT RANGE:
INNOVALT® N - Chemically Modified Asphalt
INNOVALT® XL - Cross Linked Polymer Modified Asphalt
INNOVALT® E - Polymer Modified Asphalt
INNOVALT® R - Ground Tire Rubber Modified Asphalt
INNOVALT® W - Adhesion Promoter
INNOVALT® T - Emulsifier for High Performance Asphalt Emulsions

Innovations in Asphalt

Company Name: IPC Global
Address: 4 Wadhurst Drive Boronia, Victoria 3145
Country: AUSTRALIA
Web page: www.ipcglobal.com.au

IPC Global is the market leader in easy-to-use advanced laboratory asphalt testing systems. Our 20+ years’ experience working closely with highway authorities, contractors, research organisations and universities (e.g. ARRB, ASU, TU Delft and FHWA) has been coupled with our expert knowledge of control systems and materials to design superior testing technologies that include recent advances and meet strict international testing standards. They are the choice of leading laboratories for characterising asphalt mixtures, improving pavement design, QC&QA and forensic analysis. Speak to us about our new EN Standards Tester, our UTMs, AMPT, 4 Point Bend Apparatus, Specimen preparation equipment and accessories.

Company Name: infraTest Prüftechnik GmbH
Address: Wiesenbachstraße 15, 74336 Brackenheim-Botenheim
Country: GERMANY
Web page: www.infratest.net

Systematic testing with innovative testing solutions made in Germany are provided by infraTest Prüftechnik GmbH. Established in 1991, infraTest Prüftechnik develop and distribute asphalt and bitumen testing equipment world wide. A team of skilled engineers and technicians is manufacturing civil engineering testing equipment and machines for the demands of the asphalt and bitumen producing, pavement and material testing market.

The strategy of the company is to supply testing apparatus, mobile laboratories up to the high sophisticated test systems according the actual EN, TP, NF, BS, ASTM and AASHTO standard.
Company Name: ISFALT
Address: İstanbul Asphalt Plants Industry and Trading Inc.) Selimiye Mh. Atölyeler Sk. No: 8/1 34668 Üsküdar - İstanbul
Country: TÜRKİYE
Web page: www.isfalt.com

İstanbul Asfalt Fabrikaları Sanayi ve Ticaret A.Ş. (ISFALT) was established in 1986 for the purpose of fulfilling the asphalt need of Istanbul Metropolitan Municipality and county municipalities. The company carries out this mission through production maintained in facilities established on both sides of İstanbul.

Originally having been established for the purpose of asphalt production, ISFALT has become a major company today which includes into its scope of activities the following fields such as asphalt application, divided road works, layered junction construction, laboratory services, recycling activities, training studies, and consultancy.

Company Name: İstanbul Büyükşehir Belediyesi
Address: Kemalpaşa Mah. Şehzadebaşı Cad. NO: 25 34134 Fatih - İstanbul
Country: TÜRKİYE
Web page: www.ibb.gov.tr

İstanbul Metropolitan Municipality is the public authority that carries out municipal services within the provincial borders of İstanbul, an essential part of world cultural heritage and the trademark city that is first to come to mind when you think of Turkey. İstanbul Metropolitan Municipality, the first municipal organization in Turkey was established under the name “Dersaadet ve Bilad-i Selase'de Şehremaneti” (Local Authority of Urban and Suburban İstanbul) on August 16th, 1855. Said organization managed the municipal services all around İstanbul. It was comprised of two bodies, namely the “Şehremini” (meaning “Mayor” in Ottoman Turkish) and the “City Council,” both of which were led by appointed administrators. Its name and structure remained unchanged in the final years of the Ottoman Empire and the initial years of the Republic of Turkey. Municipal Law no 1580 issued in 1930 amended the terms used for Municipality and Mayor (respectively “belediye” instead of “şehremaneti” and “belediye reisi” for “şehremini”).

With its structure and name changing over the years, İstanbul Metropolitan Municipality’s jurisdiction was enlarged to cover all the area within the provincial borders in accordance with the Law no 5216 adopted on July 10th, 2004. Currently, İstanbul Metropolitan Municipality incorporating 2 general directorates, 21 departments and 25 affiliates provides municipal services in İstanbul -with a population of approximately 14 million- on a 7/24 basis for 365 days a year.

Company Name: İstanbul Teknik İnşaat Mühendislik San. ve Tic. Ltd. Şti.
Address: Tekstilkent Koza Plaza B Blok Kat.19 Esenler 34235 İstanbul
Country: TÜRKİYE
Web page: www.istanbulteknik.com

İstanbul Teknik procure production and sales of technical materials with superior performance as required by the construction sector under swiftest and most economic conditions.

İstanbul Teknik offers production, sales, project design, consultancy and project implementation services with its unique brands on ASPHALT-PAVED ROADS; GEOSYNTHETICS; WATERPROOFING SYSTEMS; THERMAL INSULATION (ETICS) SYSTEMS; CONCRETE and GEOGRID REINFORCED RETAINING WALL SYSTEMS product lines.

Possessing together the characteristics of offering principled sales and technical solutions with the insight of sustainable quality, İstanbul Teknik shall maintain its objective for holding the leading position in its scopes of activity without conceding from customer satisfaction.
Company Name: J. Rettenmaier & Söhne GmbH + Co. KG  
Address: 73494 Rosenberg  
Country: GERMANY  
Web page: www.jrs.de

JRS – we are committed to the development, processing and optimisation of high-grade natural fibers. JRS supplies a broad range of fiber products to meet the needs of the European asphalt industry. It presents its full VIATOP and VIATOP plus product range linked with JRS' new HD asphalt concepts for sustainable roads.

Company Name: Konimpex Diş Ticaret Ltd. Şti.  
Address: Şehit İlkınr Sk.Tema Plaza No:8 kat:5 Kozyatağı - İstanbul 34742  
Country: TÜRKİYE  
Web page: www.konimpex.com

Konimpex Diş Ticaret company is a part of the Polish group - Konimpex Ltd. We offer thermoplastic elastomer SBS, which is used to modify asphalt and roofing, adhesives and shoe soles.

Moreover Konimpex offers raw materials used in rubber and chemical industry such as: carbon black, synthetic and natural rubbers, accelerators, retardants, antioxidants, silica and cellulose. The company has a modern logistic network of warehouses and reloading stations in Europe and Asia. It has sales offices in Poland, Russia, Romania, France and China.

Company Name: Korea Institute of Construction Technology  
Address: (Daehwa-Dong) 283, Goyangdae-Ro, Ilsanseo-Gu, Goyang-Si, Gyeonggi-Do, 411-712  
Country: SOUTH KOREA  
Web page: www.kict.re.kr

Korea Institute of Construction Technology (KICT) is a government-sponsored research institute responsible for establishing government policies and performing R&D to enable convenient, safe, and high-quality land development for the nation. Since its foundation, the institute has achieved outstanding research outcomes that contribute to addressing the nation's pending projects and social issues. KICT will continue to advance its human resources, nurturing its workers to become expert-level professionals while striving to advance its research infrastructure and strengthen competitiveness by inviting internationally renowned figures.
Kraton Performance Polymers, Inc. (NYSE: KRA) is a leading global producer of styrenic block copolymers (SBCs), which are highly engineered synthetic elastomers used to enhance the performance of end use products that touch our daily lives. The original inventor of SBC chemistry in the 1960s, Kraton has a broad portfolio of value-enhancing polymers that are used in a wide variety of applications including consumer and personal care items, adhesives and coatings, electronics, medical supplies, automotive components, and paving and roofing materials. Kraton offers its products to a diverse group of more than 800 customers in over 60 countries worldwide.

Latexfalt develops, produces, sells and applies bitumen, and clear binder products for the (road) construction industry as well as for industrial applications. With corporate social responsibility Latexfalt aims to adjust its strategy based on external developments. Additionally, corporate social responsibility provides a motivating atmosphere for Latexfalt employees and contributes to the image of the company. In recent years Latexfalt with its customers and suppliers focussed on bringing innovative solutions for specific problems in the road engineering industry using their knowledge on bituminous binders. Latexfalt aims to be the binding factor in bridging the gap between oil industry and (road) contractors.

Created in 2007, LEA-CO INTERNATIONAL sells licences to produce Warm asphalt mixture known as LEA®. This innovative process allows up to 50% of energy savings, maintaining the same performances as HMA, and has the highest reduction of CO2 and other greenhouse gases. The LEA Mixes are laid down since 2005 all over the world such as the United States, New-Zealand, Europe. LEA-CO works titely with distributors to reach every destination possible.
Company Name: LOTOS Asfalt Ltd.
Address: Ul. Elblaska 135 80-718 Gdańsk
Country: POLAND
Web page: www.lotosasfalt.pl

LOTOS Asfalt Ltd. is one of the largest bitumen manufacturers in Europe, specialising in the manufacture and sale of road bitumen. Thanks to great installation efficiency, skilled logistics and a broad warehouse base LOTOS Asfalt is able to provide fast product delivery domestically and abroad. Products are distributed by land: in trucks or rail tanks, as well as by sea on ships. LOTOS Asfalt is adept at selling its products to Europe and Africa. The company is constantly striving to achieve the highest degree of satisfaction of business partners in terms of quality in products and services. LOTOS Asfalt ensures product safety, reliable and punctual delivery. We invite you to contact our representative at LOTOS Asfalt’s stand no. 33-36 at Euroasphalt and Eurobitume Congress.

Company Name: LUCOBIT AG
Address: Brühler Straße 60 Basell Polyolefine GmbH - B100 D-50389 Wesseling
Country: GERMANY
Web page: www.lucobit.de

As an independent company LUCOBIT AG develops, produces and sells top quality materials for the plastics processing industry. Our prior area of business is the high-quality plastics based on flexible polyolefins. A large spectrum of products is divided into three main areas of applications:

- Asphalt
- Flexible Polymers
- Waterproofing

In the Asphalt segment LUCOBIT AG provides products for the modification of asphalt and bitumen under the brands Lucobit®, Lucolast®, Lucowax®, Lucocell®. Also hard bitumen is provided under the brand Luxbit®.

Company Name: Macismo Asphalt Innovations
Address: PO Box 733, Worcester, WR3 8SQ
Country: UNITED KINGDOM
Web page: www.macismo.com

Macismo innovations Eco-friendly additives and technology that transforms the properties of the Bitumen used in Road Surfacing and repairs. This allows Asphalt products used in all the various climatic conditions to behave in different and unique ways. Our Macfix® additive creates Asphalts that remain workable even after 2 years of external storage in all seasons, BUT also make a permanent product, even if applied in the rain.

The power of our Rapfix™ rejuvenator allows up to 100% RAP to be re-used in a Marshall stability Asphalt.

Using our technology all the end products are produced using Warm Mix temperatures.
Company Name: MAKİMSAN Asphalt Co. Inc.
Address: Reşit Galip Cd. Gölgei Sk. No: 6 GOP 06700 - Ankara
Country: TÜRKİYE
Web page: www.makimsan.com.tr

MAKİMSAN has started its activities in 1969 with the production of bitumen, emulsion and the surface treatment works. Then continued its operations as contracting services by undertaking commitments in the construction of infrastructures, highways, motorways and airports in our Country & abroad. Manufacturing of equipments such as crushers, asphalt and concrete plants, bitumen spreaders, etc. are included in the Company’s production line. Makimsan has started Slurry Seal, Micro Seal applications in the country in large scales. And also for the Asphalt production, polymer modified bituminous are to be produced under a new technology transferred by Makimsan.

Company Name: Massenza
Address: Via Bologna, 12 43036 – Fidenza (PR)
Country: ITALY
Web page: www.massenza.it

The company MASSENZA manufacture and supply two different type of products:
• Bitumen Handling Equipments (Polymer Modified Bitumen plants, bitumen emulsions plants, spraying tank, bitumen drums melting units, hot oil heaters, ...)
• Concrete Pavers (canal lining machine, slipform pavers, ...)

MASSENZA have been exporting their specialised range of construction equipment to worldwide markets for over 50 years.

On both lines MASSENZA is a worldwide leader thanks to his innovative technology and advanced concepts developed on production side.

Their extensive knowledge, built up trough uninterrupted research and field experience, has resulted in a wide range of reliable, top quality products.

Company Name: Matest S.p.A. Unipersonale
Address: Via delle Industrie, 25 24048 – Treviolo (Bg)
Country: ITALY
Web page: www.matest.com

Matest is the world leading manufacturer of material testing equipment for the construction industry. The company has a strong commitmet in developing innovative products, with particular attention to advanced solutions for test on asphalt, and offers an extensive range designed in accordance with the most important International Standards.

Matest high production capacity, good quality-price ratio, fast delivery time, qualified support and technical assistance have set the company as one of the reliable manufacturer of material testing equipment.

Matest is internationally recognized and its presence around the world is ensured by a wide distribution network of qualified agents, distributors and retailers.
Company Name: MeadWestvaco Europe Sprl
Address: Avenue des Olympiades, 2 B-1140 Brussels
Country: BELGIUM
Web page: www.mwv.com/SpecialtyChemicals

MWV Asphalt Innovations is the global leader in the development and delivery of high-performance chemical products and technologies for the world's paving industry. Our complete line of asphalt emulsifiers, additives, and warm mix technologies provide superior performance with a wide variety of aggregates and asphalt cements.

Building on our advanced chemistries and industry expertise, we partner with our customers to develop innovative solutions and deliver reliable product performance.

Our global field engineering and research teams provide technical assistance to our customers in Europe and throughout the world. These services are provided through our research facility in Charleston, South Carolina, and laboratories in Lille, France; and Shanghai and Beijing, China; and India.

MWV is committed to excellence and has been leading the way in asphalt technologies for over 50 years.

Company Name: Nalco
Address: Ir. G. Tjalmaweg 1 2342 BV Oegstgeest
Country: The Netherlands
Web page: www.nalco.com

Nalco is part of Ecolab Inc. with 2011 annualized sales of $11 billion and more than 38,000 employees. Ecolab Inc. is the global leader in water, hygiene and energy technologies and services that provide and protect clean water, safe food, abundant energy and healthy environments.

Nalco Downstream Energy Services is the global leader in refining process, fuel additives, petrochemical processes, and water treatments. For more than 80 years, we have worked to build an unrivalled level of essential expertise with over 1,200 employees delivering innovative technology and programs in more than 350 refineries and 400 petrochemical plants across 6 continents.

Company Name: Nynas AB
Address: P O Box 10700 SE-121 29 Stockholm
Country: SWEDEN
Web page: www.nynas.com

Nynas is a different kind of oil company. Our business is specialised oil applications – we use oil to create sustainable value. Within our field of specialization, we’re a world leader. We have over 800 employees, we maintain production facilities in Europe, North and South America and have offices in 30 some countries. In order to meet changing needs and demands, we work closely with our customers to continually develop oil’s unique possibilities. That's what we call – Taking oil further

See you on Nynas stand to discuss how we can move forward on more sustainable roads.
Address: Ostim OSB. 12. Sokak Nn: 12 Yenimahalle - Ankara
Country: TÜRKİYE
Web page: www.okurmakina.com.tr

Okur Makina has been building versatile machines over 40 years, headquarters and manufacturing facilities of firm are in Ankara - Türkiye. Bitumen storage tanks, mechanic stabilization plants, asphalt emulsion production plants, polymer modified bitumen plants, asphalt distributors, sprayer&spreaders, relay tanks, hot oil boilers, crack filling machines, chip spreaders and figure machines, are our main products. Firm has a remarkable reference list not only manufactures for many purposes but also provides just in time turnkey solutions with trustworthy worldwide after sales services.

Company Name: OMV Refining & Marketing GmbH
Address: Trabrennstrasse, 6-8, 1020, Wien
Country: AUSTRIA

OMV Group, the Austria's largest industrial companies is active in two core countries Romania and Austria and holds a balanced international portfolio. OMV has an annual refining capacity of 22.3 mn t and approximately 4,500 filling stations in 13 countries including Turkey.

OMV is carefully considering the Road constructors' special needs by providing a wide innovative Bitumen product portfolio, as Bitumen for Recycling Asphalt, Fuel resistant bitumen and many other special products, supplied directly from our own production plants well positioned in Central & Easter Europe.

Our Professional Bitumen Competence Center is specialized in offering highly product quality control, continuous research & development activities and technical support directly to the customer.

Company Name: Onur Taahhüt Taşmacılık ve Ticaret Ltd. Şti.
Address: İlkbahar Mah. Turan Gunes Bulvari, Galip Erdem Cad. 612 Sk. No:12 06550 Çankaya - ANKARA
Country: TÜRKİYE
Web page: www.cetionur.com.tr

Onur began its activities as Çetin Enterprises and succeeded important infrastructure and highway construction projects. Çetin Enterprises and Onur Company was established in 1981 and 1991 respectively to carry out construction projects in Turkey and abroad such as, Ukraine, Turkmenistan, Saudi Arabia, Equatorial Guinea, Oman, Moldova and Venezuela. Onur is a member of Turkish Contractor Association (TMB), Turkish Asphalt Contractors Association(ASMUD) and Foreign Economic Relation(DEIK) and have TS-N-SO 9001 and ISO 14001 Quality and Environment System Certificates. Onur Company has ranked 169th, according to the Engineering News Record(ENR) ranking of the Top 225 International Contractors in the year 2011.
Company Name: ÖSAK A.Ş.
Address: Tunali Hilmi Cad. Büküm Sok. No:63/61 Kavaklidere 06700 - Ankara
Country: TÜRKİYE
Web page: www.osak.com.tr

ÖSAK A.Ş. was founded in 1985. Since foundation ÖSAK has completed a total 207 km. of highways, 187 km. of which is Bitumenous Hot Mixture paved and 136 km of this is in double way National Highways status. ÖSAK owns the asphalt plant with the largest capacity of 450 tons/hour, in TURKEY. ÖSAK is one of the co-founders in Turkish Asphalt Contractor Association and company’s president is the vice-president of the Association as well as the vice-president of EAPA.

Company Name: Petrotest GmbH
Address: Ludwig-Erhard-Ring 13 15827 Dahlewitz
Country: GERMANY
Web page: www.petrotest.com

Petrotest GmbH, a company of Anton Paar, is a leading manufacturer of standardized automatic, semi-automatic and manual petroleum testing equipment. The comprehensive sales program includes more than 200 standardized test instruments such as flash point testers, distillation units, testing equipment for bitumen, penetration and texture. They comply with ASTM, DIN, EN, ISO and other standards. For bitumen testing, Petrotest offers e.g. Ring and Ball Tester RKA 5, Breaking Point Analyzer BPA 5, Penetrometer PNR 12 and Cleveland flashpoint tester CLA 5. Petrotest products are distributed and supported by a comprehensive partner network all over the world.

Company Name: PQ Corporation
Address: Malvern, PA 300 Lindenwood Drive Valleybrooke Corporate Center Malvern, PA 19355-1740
Country: UNITED STATES
Web page: www.pqcorp.com

We are a leading producer of specialty inorganic chemicals and catalysts, with annual sales revenues in excess of US $1 billion. The company conducts operations through two principal businesses: the Performance Chemicals division, which develops, manufactures and sells high performance silicate-based specialty chemicals and the Catalysts division, a leading producer of high performance zeolite- and silica-based catalysts. These products are used in a variety of applications. The company operates over 60 manufacturing sites in 21 countries on five continents and has one of the most comprehensive global manufacturing and distribution networks serving customers in the company's end-markets.
Company Name: PR Industrie
Address: Rue de Barive ZI la Planchotte 21230
Country: FRANCE
Web page: www.pr-industrie.com

PR INDUSTRIE manufactures and markets additives for asphalt concrete. These additives aim at improving the physical, mechanical and environmental properties of asphalt mixes. Our products are easy to use and allow the making of high-performance asphalt concrete mixes all around the world.

PR INDUSTRIE, through its laboratories of quality control and asphalt mix formulation (Marshall, rutting, CGP, modulus tests, fatigue...etc.) allow us to provide our clients with effective expertise.

We are present on road, highway, port and airport projects in many countries.

Company Name: Q8Oils
Address: Petroleumkaai 7, 2020 Antwerp
Country: BELGIUM
Web page: www.q8oils.com / www.q8specialties.com

Q8Oils is the brand responsible for the international marketing of Q8 Aerosol Propellants, Base and Process Oils, Bitumen, Extracts, Lubricants and Waxes. Our success is founded on significant corporate resources, a commitment to product development and uncompromising standards of quality and service.

Q8Oils strives to exceed customers’ expectations by offering products of the highest quality with a professional, personal service and superior levels of technical support.

The Q8Oils product portfolio consists of Aerosol Propellants, Base and Process Oils, Bitumen, Extracts, Lubricants and Waxes. This comprehensive range makes Q8Oils one of the most complete suppliers of petroleum based products in the industry.

Company Name: RGRA
Address: 9, rue de Berri - 75008 Paris
Country: FRANCE
Web page: www.rgra.fr

RGRA is a publisher specializing in trade magazines and books devoted to roads, streets and various networks, encompassing all related aspects from planning to maintenance; its main publications are:

- RGRA (Revue générale des routes et de l’aménagement): French review written by highway engineering experts, authorities, research centres and contractors.
- ERR (Europeanroads review): six-monthly English review with articles written by experts from European countries, with supplements from other continents.
Company Name: Sasol Wax GmbH
Address: Worthdamm 13-27, 20457 Hamburg - GERMANY / www.sasolwax.com
Since 1997 Sasol Wax is selling Sasobit®, a high molecular mass Fischer-Tropsch Wax synthesized from natural gas. Sasobit® offers considerable quality improvements for asphalt mixtures. Sasobit® enables a significant reduction of both production and application temperatures which provides increased protection for workers and environment. Since 1997 more than 40 Million tons of asphalt mixtures have been produced globally incorporating Sasobit®. Main technical focus areas are “Improved deformation resistance”, “Improved workability”, “Reduced temperatures” and “Early opening to traffic”. “Asphalt recycling” and “Rubber modification with Sasobit®” have been developed during the past years and will be showcased at our display.

Company Name: Storimpex Group
Address: Poststraße 1 21509 Glinde - GERMANY / www.storimpex.de
We are pleased to be present at the 18th International Euroasphalt & Eurobitumen Congress in Istanbul for the first time. Our Main topics are high-value reuse of reclaimed asphalt and rubber modification of asphalt mixtures. Furthermore we advise our clients on projects for innovative developments on the reuse of reclaimed asphalt. Be rejuvenating the binder inside the RAP the use of neat binders is almost needless. Beside sustainable economic savings due to resource conservations this new method also provides significant reductions of CO₂ emissions. We are looking forward to successful fair, new contacts and meeting again with business partners.

Company Name: S.C. Romis TL2004 S.R.L.
Address: Calea Fagarasului Nr. 27, Brasov
Country: ROMANIA
Web page: www.tl2000.ro
S.C. ROMIS TL2004 S.R.L Brasov, founded in 2008, has as its main activity implementation, maintenance and repair of roads, highways, airports, parking areas, garages, recreation areas. Our company offers the ideal solution for implementation, maintenance and repair of roads, highways, airports. Our company through the results obtained, consistently managed to meet the demands imposed by the beneficiaries and this year established an integrated quality management, environment and occupational health and safety in accordance with the requirements of ISO 9001:2008, ISO 14001:2005 and OHSAS 18001:2008. Our company has the structure of personnel, engineers, skilled workers, equipment, to tackle and complete large-scale works. All our works were monitored and the material have been tested in approved laboratories.

Company Name: Showa Denko Europe GmbH
Address: Konrad-Zuse-Platz 4 81829 Munich
Country: GERMANY
Web page: www.showa-denko.com
Showa Denko is a diversified chemical company headquartered in Tokyo, Japan, with 42 subsidiaries and more than 11,500 employees around the world. We supply high quality Chloroprene Rubber, covering a wide range of grades for all relevant applications. Our unique non-ionic Liquid Dispersion grade 115 is used in asphalt and bituminous mixes. It provides increased elasticity, toughness and ductility, and reduced thermal softening, compared with modification by natural rubber latex, SBS or SBR. Other Liquid Dispersion grades are suitable for waterproofing solutions in the construction industry.
For more information, visit us at our booth or send your request to info-elastomer@sde.de.
Company Name: Sigma Asphalt Technology
Address: Cankiri Yolu 7. Km. Akyurt, Ankara
Country: TÜRKİYE
Web page: www.sigma-asphalt.com

SIGMA is an Italian – Turkish partnership, specialized in manufacturing of latest technology ASPHALT PLANTS. Combining most innovative Italian technology with best quality Turkish manufacturing, SIGMA offers one of the most modern and advanced asphalt plants in the market.

Responding to the strictest demands of today’s road building industry, SIGMA developed special solutions to achieve easy transportation, fast installation, minimum fuel consumption, minimum maintenance requirements and reduced emission.

SIGMA offers best asphalt quality, efficient and problem-free operation, together with instant after-sales support when needed. SIGMA Asphalt Plants are available with a wide range of capacities and competitive prices.

Company Name: Sinopec
Address: Saray Mah 186.Sokak No 4 Kazan Ankara
Country: TÜRKİYE
Web page: www.oznergiz.com

Sinopec Corp. is one of the largest integrated energy and chemical company in China. The scope of its business mainly covers oil and gas exploration and production, extraction, pipeline transmission and marketing; oil refining; production, marketing, storage and transportation of petrochemicals, chemical fibers, chemical fertilizers and other chemical products; import, export and import/export agency business of crude oil, natural gas, refined oil products, petrochemicals, chemicals, and other commodities and technologies; research, development and application of technology and information.

Company Name: Star Asphalt S.p.A. Road System
Address: Strada Provinciale Piana, località Garga - 87010 Saracena (CS)
Country: ITALY
Web page: www.starasphalt.com

Star Asphalt is a company with Italian origins which is specialized on innovative asphalt and bitumen additives. The main production is focused on antistripping agents, traditional amine types, based on polyphosphoric esters and a new line based on silica derivates. Second important line are the bitumen modifiers based on polyphosphoric acid and on amid esters. Further products like emulsifiers and flux oils completes the line. All the activity is combined to constant international researches, focused on the continuous improvement of existing product and development of new technologies.
Company Name: TEC Container Sales Ltd
Address: Unit B2, Yeoman Gate, Yeoman Way, Worthing, West Sussex
Country: UK
Web page: www.tecint.co.uk

Innovative Solutions for Bitumen and Fuel Logistics
TEC's design and mechanical engineering team are dedicated to the design of specialised tank containers. This team has designed amongst others, the Bitutainer range of containers—which has essentially transformed the transportation of bitumen since the 1990s.

This has been achieved by adopting the philosophy of maximising product carrying capacity within the constraints of a standard ISO shipping slot. TEC's close relationship with heavy steel product and container manufacturers in Europe and Asia means that they are able to ensure a high level of quality and workmanship to complement their unique designs.

Company Name: Tekno Maccaferri
Address: Şehit Şakir Elkovdan Cad. No:2 A Blok, 34750 Ataşehir – İstanbul
Country: TÜRKİYE
Web page: www.teknomaccaferri.com

TEKNO who has been Turkey's leading company in construction sector over 25 years, offers innovative solutions to civil, geotechnical, environmental and ground engineering market. TEKNO is marketing and selling range of double twisted wire mesh products steel fibers and geosynthetics.

TEKNO is a solution partner of 130 years established MACCAFERRI GROUP who is the world's leading producer and supplier of double twisted wire mesh products, steel fibers with over 25 manufacturing facilities.

TEKNO&MACCAFERRI have combined the forces and established a joint stock company operating the trade name of “TEKNOMACCAFERRI ENVIRONMENTAL TECHNOLOGIES ENGINEERING INDUSTRY AND TRADE INC.” as of 2012.

Company Name: TOTAL
Address: TOTAL Bitumen Division Le Spazio 562, avenue du Parc de l'île 92029 Nanterre Cedex
Country: FRANCE
Web page: www.bitumen.total.com

5th International Oil and Gas company, Total has a strong presence over 130 countries with more than 96 000 employees. The vision of Total is to be an Energy company that is a leading international oil company and a global operator in gas, petrochemicals, solar energy and tomorrow, biomass. Leader in France and in Europe on the bitumen market, Total brings innovative solutions not only for the durability of the works but also considering the major societal and environmental stakes. In 2011, Total started providing customers with AZALT ECO 2, binders that reduce mixing and application temperatures by around 40°C.
**Company Name:** Turkish Petroleum Refineries Corporation  
**Address:** Güney Mah. Petrol Cad. No:25 41790 Körfez Kocaeli  
**Country:** TÜRKİYE  
**Web page:** www.tupras.com.tr

As pioneers of refining in Turkey with 4 refineries located in Izmit, Izmir, Kırklareli, Batman, 80% ownership of DİTAŞ marine shipping, 40% ownership of ÖPET petroleum products distribution company and an annual crude oil processing capacity of 28.1 million tones, Tüpraş (Turkish Petroleum Refineries Co.) is the largest Turkish company. Tüpraş is also the seventh largest refining company in Europe and twenty ninth largest refining company globally. The decision by the Turkish Privatization Administration on 12 September 2005 to privatize Tüpraş acted as a trigger of change. On 26 January 2006, Koç Holding signed the Stock Sales Contract and became the majority shareholder of Tüpraş. Following the transition of Tüpraş into Koç Holding a rapid transformation and progress was achieved in production efficiency, environment, worker's safety and technology where the culture of responsibility of the public sector was blended with the dynamism of the private sector. When new processing units equipped with state of the art technology started to come online at Tüpraş refineries, production of more environment friendly petroleum products meeting international quality standards started. With the Residuum Upgrading Project which is to come online by 2014 a significant increase in the production capacity of ultralow sulfur diesel and high octane gasoline will be achieved and by then Tüpraş Izmit Refinery will have one of the advanced technology in the world.

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**Company Name:** Usirf  
**Address:** 9 rue de Berri – 75008 Paris  
**Country:** FRANCE  
**Web page:** www.usirf.com

Usirf strives to be a strong and federative national union with the purpose of defending the interests of road constructors and manufacturers of road materials.  
**Its 4 primary goals:**  
• Federate, represent road constructors;  
• To defend, promote, and valorize the industry in concertation with various economic and political partners;  
• To be a vector of promotion of the street, the road;  
• To evolve in a logic of proximity: USIRF federates 20 regional federations.  

USIRF is involved in significant actions to valorize the profession in the eyes of the general public and young people.

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**Company Name:** UTEST Material Testing Equipment A.Ş.  
**Address:** İvedik Organize Sanayi Bölgesi Ağacı İşleri Yapı Kooperatifisi 600. Sok. No:31 06370 Ostim- Ankara  
**Country:** TÜRKİYE  
**Web page:** www.utest.com.tr

UTEST Material Testing Equipment A.Ş. specializes in the design, manufacture and supply of Construction Materials Testing Equipment and also provides a technical support dedicated to the needs of customers. UTEST since its beginning has been the designer and manufacturer of its Concrete, Aggregate, Cement, Soil and Asphalt testing machines, accessories, hardware and software. UTEST also manufactures special test systems for important research & development projects and organizations. Excellence in Quality and Service is a customer’s expectation. Breaking the mold and going beyond this by providing expertise, cost savings, and becoming an extension of the customer’s staff are UTEST’s goals and long-term commitment.  
UTEST is aiming to become World leading manufacturer of material testing equipment.
Company Name: Rhodia
Address: 40 Rue de la Haie Coq, 93306 Aubervilliers
Country: FRANCE
Web page: www.rhodia.com

Rhodia, member of the Solvay group, is a specialty chemical company resolutely committed to sustainable development. As a leader in its businesses, the Group aims to improve its customers' performance through the pursuit of operational excellence and its ability to innovate. Structured around 11 Global Business Units, Rhodia is the partner of major players in the automotive, electronics, flavors and fragrances, health, personal and home care markets, consumer goods and industrial markets. Rhodia employs around 14 000 people worldwide and generated sales of 76.17 billion in 2011. In the Bitumen market, Rhodia presents Rhodoval® range of high performance additives for sustainable asphalt pavements and bituminous applications.

Company Name: ValoChem
Address: 24, rue de la Mouche, 69540 IRIGNY
Country: FRANCE
Web page: www.utest.com.tr

ValoChem is a distribution company specialized in Chemical Additives and Technologies for bitumen operating all over Europe. Partner of Rhodia, Innophos and other suppliers, our extensive portfolio of products includes emulsifiers, antistrips, hydrocolloids and viscosity control agents, polymer crosslinker, crumb rubber, bitumen modifier, latex, and colored pigments among others. In addition to sales, we provide formulation guidelines and technical support thanks to dedicated lab facilities. In association with our suppliers, we are also constantly looking at developing new solutions adapted to customer's needs.

Company Name: Viachem, S.A.
Address: Rua Eugénio De Castro, N° 248 1º Andar Sala 150 – 4100-225 Porto
Country: PORTUGAL
Web page: www.viachem.pt

VIACHEM provides a specialized distribution of chemicals with a wide portfolio of products ranging from raw materials, additives to other chemicals specifically intended for the supply to the petrochemical, paint, road and urban paving industries, as well as specific chemicals for multiple industrial applications including the agricultural and animal nutrition industries. The deep technical knowledge of products in these sectors and a solid industrial experience in various fields, allow us to expand our offer of added value to a set of Global Solutions based on the trilogy "Engineering + Product + Equipment".

WEEDSWEST is part of the Viachem group that is focused on the supply and rental of equipment for the production of emulsions and in situ modified bitumen, providing also specialized technical support.
For Congress event the boats will leave from the kabatas Harbour

Getting to Istanbul Lütfi Kirdar ICEC
ICEC is readily accessible to guests via all forms of public transportation.
23 km from Istanbul Atatürk Airport (30 min. by taxi).
5 km from Sirkeci Train Station.
100 m from Harbiye bus stop on Taksim-Şişli line.
500 m from Osmanbey metro station.
Useful Turkish Words

A few basic Turkish words can go a long way... learn how to say please, thank you and more...

<table>
<thead>
<tr>
<th>ENGLISH</th>
<th>TURKISH</th>
<th>PRONUNCIATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hello</td>
<td>Merhaba</td>
<td>(Mer-ha-ba)</td>
</tr>
<tr>
<td>Good morning</td>
<td>Gunaydin</td>
<td>(Goon-ay-dun)</td>
</tr>
<tr>
<td>Good evening</td>
<td>Iyi Aksamlar</td>
<td>(Ee-y-Ak-sham-lar)</td>
</tr>
<tr>
<td>Good night</td>
<td>Iyi Geceler</td>
<td>(Ee-Gejeler)</td>
</tr>
<tr>
<td>Goodbye</td>
<td>Hosca kalın</td>
<td>(hosh cha Kalun)</td>
</tr>
<tr>
<td>Excuse me</td>
<td>Pardon, Affedersiniz</td>
<td>(pardon, afer-dersiniz urz dilerim )</td>
</tr>
<tr>
<td>How much?</td>
<td>Kac para</td>
<td>(kach para) para = money</td>
</tr>
<tr>
<td>How many?</td>
<td>Kac tane?</td>
<td>(kach tane) tane = times</td>
</tr>
<tr>
<td>How are you?</td>
<td>Nasıl-siniz?</td>
<td>(nass-uh sun uh)</td>
</tr>
<tr>
<td>Is there any?</td>
<td>Varmi?</td>
<td>(varmuh) ekmek varmi? is there any bread?</td>
</tr>
<tr>
<td>Please</td>
<td>Lutfen</td>
<td>(Loot-fen)</td>
</tr>
<tr>
<td>Thank you</td>
<td>Teskkur ederim</td>
<td>(teshekur-ederum)</td>
</tr>
<tr>
<td>Thanks</td>
<td>Tesekküler</td>
<td>(teshekur-lur)</td>
</tr>
<tr>
<td>Yes</td>
<td>Evet</td>
<td>(evet)</td>
</tr>
<tr>
<td>No</td>
<td>Hayir</td>
<td>(hi-uhr)</td>
</tr>
<tr>
<td>Okay</td>
<td>Taman</td>
<td>(taman)</td>
</tr>
<tr>
<td>I want</td>
<td>istiyorum</td>
<td>(ist-i-yorum)</td>
</tr>
<tr>
<td>Pardon (me)</td>
<td>Efendim</td>
<td>(eff-en-dim)</td>
</tr>
<tr>
<td>Where?</td>
<td>Nerede?</td>
<td>(nehre-deh)</td>
</tr>
<tr>
<td>Which?</td>
<td>Hangi?</td>
<td>(han-guh) Hangi otobus? = which bus</td>
</tr>
<tr>
<td>Hot</td>
<td>Sıcak</td>
<td>(suh-jak)</td>
</tr>
<tr>
<td>Hot</td>
<td>Aci</td>
<td>(a-juh) = spicy</td>
</tr>
<tr>
<td>Cold</td>
<td>Soguk</td>
<td>(so-uk)</td>
</tr>
<tr>
<td>Bill</td>
<td>Hesap</td>
<td>(hessap)</td>
</tr>
<tr>
<td>Open</td>
<td>Açik</td>
<td>(ajik)</td>
</tr>
<tr>
<td>Closed</td>
<td>Kapali</td>
<td>(kapalug)</td>
</tr>
<tr>
<td>Salt</td>
<td>Tuz</td>
<td>(tuz)</td>
</tr>
<tr>
<td>Beer</td>
<td>Bira</td>
<td>(beerah)</td>
</tr>
<tr>
<td>Pepper</td>
<td>Biber</td>
<td>(bee-ber)</td>
</tr>
<tr>
<td>Oil</td>
<td>Zetinyagi</td>
<td>(sey-ten-yar)</td>
</tr>
<tr>
<td>Wine (red and white)</td>
<td>Şarap (kirmizi ve beyaz)</td>
<td>(şa-rap kirmizi beyaz)</td>
</tr>
<tr>
<td>Water</td>
<td>Su</td>
<td>(su)</td>
</tr>
<tr>
<td>Fruit Juice</td>
<td>Meyve Suyu</td>
<td>(meyva suyu)</td>
</tr>
<tr>
<td>Milk</td>
<td>Süt</td>
<td>(sut)</td>
</tr>
<tr>
<td>Coffee</td>
<td>Kahve</td>
<td>(kayfe)</td>
</tr>
<tr>
<td>Tea</td>
<td>Çay</td>
<td>(cay)</td>
</tr>
<tr>
<td>Sugar</td>
<td>Şeker</td>
<td>(şiker)</td>
</tr>
<tr>
<td>Meat</td>
<td>Et</td>
<td>(et)</td>
</tr>
<tr>
<td>Fish</td>
<td>Balık</td>
<td>(balık)</td>
</tr>
<tr>
<td>Do you speak English?</td>
<td>İngilizce biliyor musunuz?</td>
<td>(engeeleejeh bill-i-yor mus-sun-uz)</td>
</tr>
</tbody>
</table>
Asphacal® is a lime-based multifunctional additive for asphalt mixtures which
• improves the resistance to moisture damage and frost
• limits bitumen embrittlement
• enhances the mechanical properties of asphalt mixtures.

The positive impact of hydrated lime on asphalt mixtures, thanks to its chemical and physical interactions, is supported by hundreds of scientific publications worldwide.

The experience gathered over the past decades in numerous applications demonstrates 25% extra durability of the wearing courses according to road managers.

To find out more, please contact our Asphacal® specialists!

Looking for durable asphalt pavements? Think Asphacal®!
HYDRATED LIME
A PROVEN ADDITIVE FOR DURABLE ASPHALT PAVEMENTS

Adding hydrated lime to asphalt mixtures extends pavement life by 25%

Hydrated lime acts as a multi-functional modifier:
- mitigates moisture damage
- improves resistance to rutting
- reduces the rate of aging
- reduces cracking

Meet us at the Eurasphalt & Eurobitume Congress in Istanbul from 13 to 15 June 2012, booths 70 & 71, or on www.eula.eu.
LET'S WORK TOGETHER

www.viachem.pt
European Asphalt Pavement Association - EAPA

EAPA is the European industry association representing the manufacturers of bituminous mixtures and companies engaged in asphalt road construction and maintenance. EAPA's mission is to promote the good use of asphalt in the creation and maintenance of a sustainable European road network. EAPA is a nonprofit organisation founded in 1973 and operates a permanent office since 1990. Since 2005 its office is located in Brussels, Belgium.

Rue du Commerce 77 1040 Brussels Belgium
Phone: +32.2.502.5888 • Fax: +32.2.502.2358
info@eapa.org
www.eapa.org

European Bitumen Association - Eurobitume

Eurobitume is the European industry association for the producers of refined bituminous products in Europe. The organisation was founded in 1969 and since 1993 has had a permanent office in Brussels, Belgium. Eurobitume is a non-profit organisation and works to promote the efficient, effective and safe use of bituminous binders in road, industrial and building applications. Eurobitume and its members are committed to high quality, European product standards, and best practice in the transport, and handling and use of bitumen. The membership extends to all European countries.

Boulevard du Souverain 165 - 4th Floor B-1160 Brussels, Belgium
Phone: +32 (0)2 566 9140 • Fax: +32 (0)2 566 9149
info@eurobitume.eu
www.eurobitume.eu

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