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INTRODUCTION

Dear EAPA members, dear Asphalt friends,

Welcome to the 35th Issue of the EAPA Newsletter. The goal of this newsletter is to inform you about the activities that took place in Europe and outside Europe related to asphalt pavements. In Europe we can learn a lot from the rest of the world. The challenges we are facing in Europe are often challenges for our colleagues outside Europe, too. International and global meetings are perfect places to exchange information. We can learn from each other and it helps us avoiding reinventing the wheel. Globally we are facing more or less the same challenges. When we had our Global Asphalt Pavement Alliance meeting in South Africa last month we addressed many subjects and in most cases many other continents were working on the same subject, too. If a certain subject was new for a continent, we can be quite sure that they will face that same challenge in the near future. For that reason international cooperation is very important. It helps us making progress. There are many examples to illustrate this. Environmental Product Declarations is such an example. Norway was the first country in Europe that created one for asphalt. When the USA (NAPA) started working on this issue they used the experience gained in Norway. Now EAPA is preparing a generic

Environmental Product Declaration (EPD) for a European asphalt mixture and we are using the knowledge and experience gained in Norway and in the USA. The same in fact for Warm Mix asphalt. It started in Norway and Germany. USA used the European experience to make a real step forward and now Europe is looking at the USA how to increase the use of Warm Mix Asphalt.

Those international meetings also show the directions we are moving to in the future.

The same applies for the EAPA Symposium we had in Istanbul.

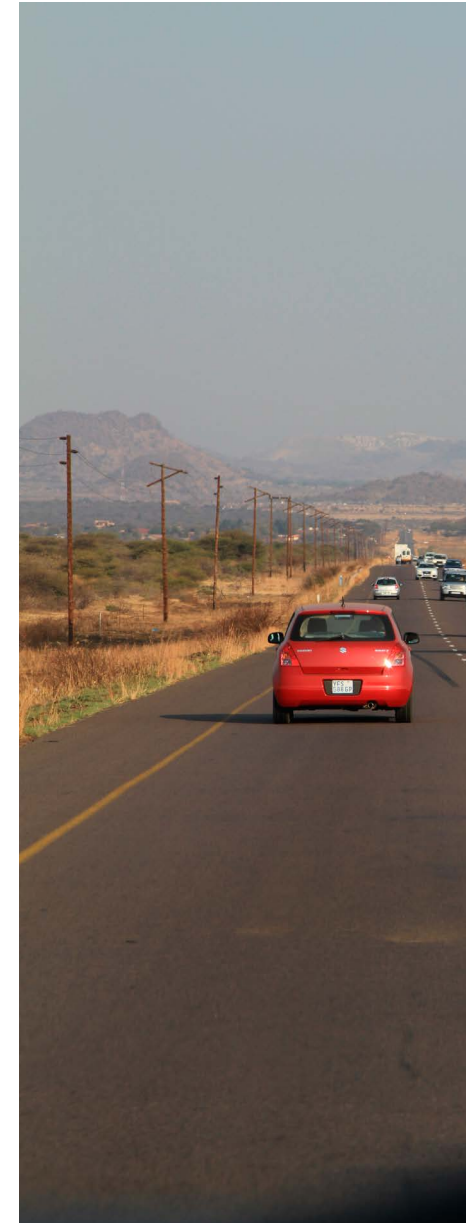
Innovations and the implementation of innovations is also a subject often discussed at those international meetings. We all see limited budgets and an increasing need for less maintenance to keep the roads open for the increasing amount of traffic. Next to that we see many initiatives for reducing CO2 emissions and reducing the use of materials, like Green Public Procurement. This leads to durability. If a road (or surface layer) will last e.g. 20% longer the environmental impact will reduce by 20%.

Here one of the main problems is in fact the implementation of new technologies. There are many innovations and many techniques available to make huge steps forward if the procurement / tendering systems would

stimulate that. If there is no motivation for the contractors to use the new available technology, it will not be used. More durable pavements can be build. We have the knowledge and technology, but when the lowest price is decisive, it will not be delivered.

So in short: by using the knowledge we have world-wide we can make real progress, but there should be incentives to use it. In this issue of the EAPA Newsletter, which will give you an overview of what we did in the past 5 months, you will be able to find many examples of innovations we could use tomorrow. Enjoy reading it.

Egbert Beuving,
Secretary-General of EAPA



EAPA COMMITTEES

EAPA EXCO

On 18 March 2015 the EAPA Executive Committee had a meeting in Paris. The meeting started with the financial situation of EAPA. The end-result of 2014 was positive and the budget of 2016 was explained and discussed.

The EAPA strategy to get new members and new associate members was presented and discussed.

The other EAPA activities were described by using a three pillar approach.

These three pillars of EAPA are:

- Technical Topics
- Health, Safety and Environment Topics
- Communication, Education and Dissemination.

Egbert Beuving (EAPA) explained the Technical Topics (with innovations and regulations from Europe).

Carsten Karcher (EAPA) addressed the Health & Safety and Environment Topics (including regulations from Europe). Here one of the items was a possible NEPSI (European Network for Silica) Membership. The consequences of such a membership were discussed and it was decided to postpone the decision to a future EAPA ExCo meeting. Also the situation in France regarding asbestos in mineral aggregate was discussed.

Several options were mentioned regarding having joint "ExCo + Directors' Group" meetings. The EAPA secretariat will come up with a proposal.

Under "Education, Dissemination and Communication" media and social media were discussed.

Other agenda items were possible locations of the E&E Congress 2020 and the update of the publication "A Global Perspective – The Asphalt paving industry". The next meeting will be a joint ExCo + Directors' Group meeting, which will be held on Tuesday 6th October 2015 in Brussels.

JOINT EAPA – EUROBITUME EXCO

On 18 March 2015 there was also a Joint EAPA/Eurobitume Executive Committee Meeting in Paris. The meeting started with Bitumen International Health Forum (BIHF) items. There was an update on CAS numbers differentiation and post IARC regulations. Eurobitume mentioned that the new edition of "The Bitumen Industry - A Global Perspective" will be available soon on the Eurobitume website.

Beuving (EAPA) gave an update concerning the European bitumen standards. He explained the situation regarding the Performance related bitumen standards, the Paving Grade Bitumen standards and the PMB standards.

The Campaign of Asphalt Promotion

was discussed and the progress and achievements of the EAPA / Eurobitume Task Force "Providing Evidence Asphalt Advantages" were presented including an update of future actions. Eurobitume explained its future organisation structure. The national bitumen associations will be integrated in a single Eurobitume structure. This will not affect the relationship with the local stakeholders as the local national association managers will be maintained in their position and no difference should be noticed. Last but not least, the state-of-the-art of the E&E Congress 2016 was presented and discussed as well as possible locations for the E&E Congress 2020.

EAPA DIRECTORS' GROUP

The latest Directors' Group meeting was held on 17 March 2015 in Paris. The Directors' Group consists of representatives of the national associations that are EAPA member.

The key issues discussed were:

- the EAPA / Eurobitume Task Force "Providing Evidence" (www.AsphaltAdvanatges.com, see extra information in this newsletter),
- the work in the Task Group "Carbon Footprint Document" that will create a document about Carbon Footprint and Environmental Product Declarations (EPD),
- the communication and lobby strategy of EAPA,
- and the preparation of the E&E Congress 2016 in Prague.

In the one day meeting the Directors gave their comments on the draft programme and the organisation of the next the EAPA Symposium 2015 in Istanbul (see extra information in this newsletter) as well as on the reports of the different EAPA committees. In a round table discussion at the end of the meeting, the directors informed the group about discussions, new legislation, new standards, success stories or challenges in their own country.

EAPA GCA 2015

On 4 June 2015, the EAPA General Council Assembly (GCA) was held in Istanbul and it was chaired by EAPA President Ayberk Özcan from Turkey.

Under agenda item "Activity Reports" Gülay Malkoç, chairlady of the EAPA Health & Safety Committee gave a report of the activities of the Health & Safety Committee of the last 12 months. Jean-Paul Michaut gave, as chairman of the EAPA Technical Committee, a report of the activities of the Technical Committee since the previous EAPA GCA.

Dr. Carsten Karcher gave a report of the activities of the Environmental Group, the EAPA Asphalt Plant & Equipment Manufacturers Group and the EAPA Secretariat.

After the Activity Reports Carsten Karcher explained the financial situation of EAPA and the EAPA GCA approved the annual and financial report of 2014. Karcher explained the proposed EAPA budget for 2016, which was approved by the EAPA GCA. The EAPA fee structure for 2016 was agreed to be equal to 2015.

The EAPA GCA approved the draft EAPA "Short Position Paper Warm Mix Asphalt".

Under "Membership Issues" Carsten Karcher reported that EAPA got four new EAPA Associate Members since the GCA of 2014. These were: Astec Inc., Sasol Wax, Antigo Ltd., and Ruthmann Fibres.

In addition, the E&E Congress 2016 and the 9th EAPA Symposium that was held the next day as well as the communication and asphalt promotion were discussed.

The next EAPA GCA will be held in Prague, Czech Republic on Tuesday 31 May 2015, the day before the next Eurasphalt & Eurobitume Congress that will be held in Prague too from 1-3 June 2016.

EAPA AP&EM GROUP

The EAPA Asphalt Plant and Equipment Manufacturers (AP&EM) Group had a meeting on 12 March 2015 in Paris.

Martyn Luby (Volvo) gave a presentation on a joint Swedish-Finnish project regarding "Density on the run". The goal of this technique is to obtain a more homogeneous compaction of the asphalt layer. His second presentation was dealing with Thermal Scanning and it initiated an interesting discussion. By using this system the paving crew can learn a lot and they can optimise the process. The costs of a good job and of a bad job are more or less the same, but for the durability of the surface layers it makes a real difference.

The group also discussed a first draft of a paper for the E&E congress 2016 concerning the training and education of roller drivers. The goal of this paper is to improve the image of the roller driver by providing good education because compaction and the compaction degree of asphalt mixtures are very important for the durability and the behaviour of asphalt pavements. However in general there is a lack of understanding of the importance of the work of the roller driver. A good education system for roller drivers with a certificate or licence to operate a roller could help to underline the importance of good compaction. Education and training of operators can also lead to significant cost reductions.

Items mentioned for the Work plan for the next years were: data management systems, data to be displayed, recyclability and Warm Mix Asphalt. It was agreed to ask the EAPA TC members which kind of information they want to collect in the future and what their needs are 10 years from now.

Other items discussed were:

- News from CECE (Committee for European Construction Equipment)
- ISO project 15143 "Earth-moving machinery and mobile road construction machinery — Worksite data exchange"
- ISO TC195 WG9 Ad-Hoc Group "Fumes & Aerosols from bitumen": This group is formulating recommendations concerning fumes evacuation / extraction ("Engineering Control") systems in paver finishers.
- European Emission Standards medium Combustion Plants

The next EAPA Asphalt Plant & Equipment Producers Group meeting will be held on 17 September 2015 in Paris.

EAPA H&S

The latest H&S Committee meeting was held on 14 April 2015 in Prague. The health items discussed were the Post IARC Monograph activities, here the committee handled different testing procedures for measuring asphalt fumes in the field, discussed the use of reclaimed asphalt shingles (RAS) in Europe, regulation/legislation and NEPSI activities for Silica Dust, and asbestos related topics. As agenda items for safety the general situation at job sites and work zone safety were discussed, e.g. Asfaltindustrien, the national Danish EAPA member, explained that job sites accidents in Denmark have been below the target with the lowest figure ever. The chairlady Gülay Malkoc informed the committee about the content of the ERF brochure "Towards Safer Work Zones", which is publicly available on the ERF website (www.erf.be). Furthermore she explained the "Vision Zero" campaign in the "White Book of Transport" of the European Commission. This vision could be a good argument to lobby for road maintenance, she added.

Increasing concerns of the public regarding asphalt mixing plants were discussed and it was agreed that all the available information and strategies that do already exist to counter public concerns should be collected and exchanged within EAPA.

At the end of the meeting the EAPA secretariat presented information of the AsphaltAdvantages campaign (see www.asphaltadvantages.com and extra article in this newsletter) and asked the committee members to actively contribute to the advantages concerning health and safety items of asphalt.

The next meeting will be a one-day meeting of the re-united HSE Committee together with the Environment Group. It will be held on 21 October 2015 in Paris from 10:00 to 17:00 hrs.



Health & Safety Committee meeting in Prague

EAPA ENVIRONMENT GROUP

The latest Environment Group meeting was held on 14 April 2015 in Prague. The key items discussed were:

- Carbon footprint and Environmental Product Declaration (EPD), see extra article in this newsletter on "Carbon Footprint Document Group"
- Rolling Resistance (RR)
- Green Public Procurement (GPP)
- EU Emissions Trading Scheme (ETS).

EAPA was invited to several meetings of the European Automobile Association (ACEA) to tackle the potential for CO₂ emissions reductions in the transport sector. ACEA invited many stakeholders in the transport sector to think about contributions. The road sector was asked to present potentials for roads especially addressing the rolling resistance (RR). EAPA contributed with reports, figures and research results (like MIRIAM, COOEE etc.) from independent and neutral bodies to demonstrate the potential that a smooth asphalt surface can deliver for the reduction of rolling resistance and hence CO₂ emissions. EAPA Secretariat will take part at the upcoming ACEA meetings too and will inform ACEA about the positive outputs for asphalt pavements related to RR.

EAPA Secretariat in person of E Beuving has replied to the consultation of the European Commission on "Revision of Green Public Criteria for Road Construction" and has attended the corresponding meetings. He explained the content, the procedure and the schedule to the Environment Group. Probably the document will be released at the end of this year. The implementation in the member states will be on a voluntary basis.

A further topic in the meeting was the EU Emissions Trading Scheme (ETS). This regulation says that asphalt mixing plants shall not exceed an output of 20 MW, otherwise they fall under the EU Emissions Trading Scheme (ETS). The different approaches in the member states not to exceed the 20 MW were explained and discussed.

The next meeting will be a one-day meeting of the re-united HSE Committee together with the H&S Committee. It will be held on 21 October 2015 in Paris from 10:00 to 17:00 hrs.



Environment Group meeting in Prague

EAPA TC

The EAPA Technical Committee had its latest meeting on 15 April 2015 in Prague. During this meeting many subjects were addressed. In short:

Regarding CEN TC336 WG1 "Bituminous Binders for Paving": the proposals of Joint EAPA – Eurobitume TC meeting held on 4 February 2015 regarding DSR testing were evaluated and a new proposal was accepted. The use of Re-refined Engine Oil Bottoms (REOB) in Europe was discussed. Gülay Malkoç gave an update on the FunDBitS project.

Regarding CEN TC 227/WG1 "Bituminous Mixtures": the TC chairman Jean-Paul Michaut gave a short overview of the progress of CEN TC27 WG1. He encouraged the EAPA TC members to stimulate their National Standardisation Committees to start writing their National Documents regarding the use of the revised asphalt standards.

New test methods were discussed as well as the need to be able to predict durability and to have procedures to age asphalt.

The development of European Standards for Cold bituminous mixtures was discussed as well as the draft European standard for Asphalt concrete with bituminous emulsion.

discussed. TC members presented the progress made in their country using Warm Mix Asphalt and they shared their experience. The WMA test sections that were built in 2011 in Norway show no differences with the reference sections that were built at the same time. The amount of WMA in France is now about 10 to 12% of the total asphalt production. In the UK a new type of WMA has been developed.

The content of a draft new EAPA position Paper on WMA was discussed. This document was approved at the EAPA GCA in June 2015 and is available now on the EAPA website. Experiences with the (new) Public Procurement Directive (PPD) were addressed. The PPD is offering new ways for tendering. It was agreed to distribute a questionnaire regarding this item to collect experiences.

For EAPA Asphalt Plant & Equipment Producers Group (AP&EP) the Technical Committee members formulated:

- The needs of the asphalt industry in 10 – 15 years from now
- Its experience with Process Management and Data Management
- The kind of information they want to collect / have in 2020 of 2025
- Their Christmas list for the AP&EP Group

Material Price Variations Clauses as they exist in various countries were



EAPA TC meeting in Prague

The wishes formulated by the TC members will be discussed in the next meetings of the EAPA Asphalt Plant & Equipment Producers Group.

The progress of the EAPA Task Group Carbon Footprint Document was presented and the deliverables that will be created were described.

There was a short oral update of TC 154 WG13 / CEN TC227 WG6 activities and of the EAPA Symposium 2015.

Asbestos in natural aggregate was discussed and the EAPA secretariat will create a short document with a summary of the information available from some countries.

The next EAPA TC meeting will be held on 22 October 2015 in Paris.

CARBON FOOTPRINT DOCUMENT GROUP

There have been several meetings of the Task Group Carbon Footprint Document in the last months. The latest meeting was held on 30 June 2015 in Brussels. Eight representatives of EAPA members, under the chair of EAPA Director Carsten Karcher, are working together to prepare a guideline for a generic Environmental Product Declaration (EPD) for a European asphalt mixture. The work is in progress and the preparation of a guidance document for the creation of a Product Category Rule (PCR) and an EPD has begun. The group will work closely together with the National Asphalt Pavement Association (NAPA) and the countries like Norway that have already developed EPDs in the past.



EAPA SYMPOSIUM

EAPA SYMPOSIUM 2015

EAPA held its 9th EAPA Symposium on 3 June 2015 in Istanbul, Turkey. Over 100 participants from the European asphalt and bitumen industry, administration and academia attended. Under the theme "News and solutions from the European asphalt paving industry", the symposium informed its delegates about the latest news from the asphalt sector and provided an excellent opportunity for networking, information exchange and discussions.

The programme for the day included an opening session with a keynote speaker. In the early morning after the welcome by the President of the European Asphalt Pavement Association, Ayberk Özcan, Ismail Ertug, Member of the European Parliament, Vice-president of the Transport and Tourism TRAN Committee and speaker on behalf of the Social Democrats of the European Parliament, gave a keynote about "Transport in European Union". This speech was followed by two presentations: "Social media to inform the uninformed about asphalt pavements" by Juan-José Potti of ASEFMA – the Spanish Association of Asphalt Producers and "Addressing asphalt advantages – The Eurasphalt communication plan" by Carsten Karcher,

EAPA, Belgium.

The morning programme continued with a session on warm mix asphalt: "Why WMA – Warm Mix Asphalt a key solution of our industry" by Egbert Beuving and Jean Paul Michaut, EAPA, Brussels, "Global successful applications of WMA" by Bjarne Bo Jansen, NCC, Denmark, "How to stimulate the use of WMA" by Eivind Olaf Andersen, Veidekke, Norway.

In the afternoon, two more sessions followed. The first afternoon session focused on "News from Brussels and the EAPA Committees":

"European research activities in the field of asphalt pavements" by Rudi Bull-Wasser, BASt - Federal Highway Research Institute, Germany

"Environmental Product Declarations – EPDs: now and tomorrow" by Malcolm Simms, Mineral Products Association, UK

"Bituminous binders for paving – how to characterise and specify bitumen" by Bernard Eckmann, Eurovia, France.

In the last session of the day, a very interesting overview of "Trends and news in the European asphalt industry" was presented:

"Road Maintenance and Road Asset

Management" by Luut van Hoogevest, Grontmij Nederland B.V., Netherlands "Asphalt recycling from 0 to 100% - Recycling practice in European Asphalt Paving Industry" by André Täube, DAV - German Asphalt Pavement Association, Germany "Paving with emulsions - Cold Mixes, micro surfacing and surface dressings" by Jean-Paul Michaut, Colas, France.

The last speaker of the day, André Molenaar, Emeritus Professor of TU Delft, made a very entertaining address with the title "A life of asphalt". EAPA director Carsten Karcher moderated the sessions.

One of EAPA's main goals of this Symposium was to exchange information. Therefore, enough time was provided for exchanging information and discussions during the sessions and during the breaks.

EAPA is sure that it has provided an interesting programme for the attendees. The feedback EAPA received showed this and EAPA thinks the participants have enjoyed the Symposium, gained new information as well as new input for their everyday work and that they had good discussions with the colleagues.

During the Symposium EAPA members

were able to present their companies and products to the participants in a small exhibition. Eight companies used this opportunity.

EAPA Associate Members MeadWestvaco Europe sponsored this year's EAPA Symposium.

For attendees that were interested a technical tour was organised to the construction site of the 3rd Bosphorus Bridge the following day.

On the evening before the Symposium EAPA organised a dinner for the participants and their spouses in a nice restaurant at the Bosphorus, which was very much appreciated.

Please feel free to download the presentations and see more pictures on the EAPA website www.eapa.org.



EAPA symposium 2015 (by Carsten Karcher)



André Taübe



Prof. André Molenaar



Rudi Bull-Wasser



Juan-José Potti



l.t.r.: Carsten Karcher, Ismail Ertug and Ayberk Özcan (by Izzet Kevir)

KEYNOTE SPEECH MEP ISMAIL ERTUG

Ismail Ertug, Member of the European Parliament, Coordinator of the Social Democrats for the Committee on Transport and Tourism (TRAN) in the European Parliament, gave a keynote speech about "Transport in the European Union" at 9th EAPA Symposium 2015 in Istanbul. In front of more than 100 participants, he spoke about the tasks and duties of the European Parliament, especially the Committee on Transport and Tourism (TRAN) and, of course, about infrastructure. During the infrastructure part, he explained the Trans-European Transport Network (TEN-T), the Connecting Europe Facility (CEF), the European Fund for Strategic Investments (EFSI), and gave some examples of Germany, where he has his constituency.

MEP Ertug informed in more detail how the European Fund for Strategic Investments (EFSI), the Commission President Juncker's Investment Plan for Europe (the so-called "Juncker Plan"), works. The Investment Plan for Europe aims to encourage investment in strategic projects around Europe to ensure that money reaches the real economy. This should unlock additional public and private investment of at least 315 billion Euro over the next three years. The EFSI aims to overcome current market failures and will address market gaps by taking on some of the risk and mobilise private investment and other relevant public funding. In

the area of transport, the EFSI focuses on strategic infrastructure including digital, transport and energy, because the politicians realised that there is an urgent need to improve transport infrastructure in the European Union. By the example of Germany Ismail Ertug explained that the value of the German infrastructure decreases daily by 13 million Euros and that the costs to renew and maintain existing infrastructure amount to annually around 7 billion Euro. This seems to be the basis of a competition issue in Germany. Germany became more and more unattractive as a location for business and more and more businesses move their production to other countries. Another issue seems to be a lack of expertise in the area of infrastructure development (Planners, engineers, consultants, etc.). A possible financial solution for these problems could be additional infrastructure financing from the EU and EU member states through distance-based road charging for commercial and private vehicles. At the end of the keynote of MEP Ertug, the audience raised many questions concerning e.g. the lack of financing and maintenance of the European Road Network, road financing possibilities and European road policies. Mr. Ertug took all the necessary time to answer the questions.

You can download his presentation on www.eapa.org.



TECHNICAL TOUR

After the 9th EAPA Symposium 2015 in Istanbul, a technical tour was arranged to the construction site of the 3rd Bosphorus Bridge at the northern part of Istanbul called Marmara region. This region is densely populated and economically developed where decrease in the road service capacity inherits the economic activities and results in loss of time, work force and money. For the construction of the bridge a Public Private Partnership system with Built-Operate and Transfer Method is applied

The aim of the project is to decrease the traffic congestion at the existing two suspension bridges on Istanbul Strait with an alternative suspension bridge located in the north of Istanbul close to Black Sea region.

More than 20 participants enjoyed visiting the site and the responsible persons from the contractor's side and from the highways agency made presentations. The suspension bridge, with a total length of 1,875 meters, is designed as a combination of a stay cable and a suspension bridge with the highest towers being 322 meters. The bridge has a deck with a width of almost 60 meters for 2 x 4 lanes for vehicles and two railway lanes.

After the presentations, the participants raised many questions. They appreciated the technical tour and found it a very nice addition of the Symposium.



Pictures from Gülay Malkoc and Levent Gülsöy



NEW EAPA MEMBERS

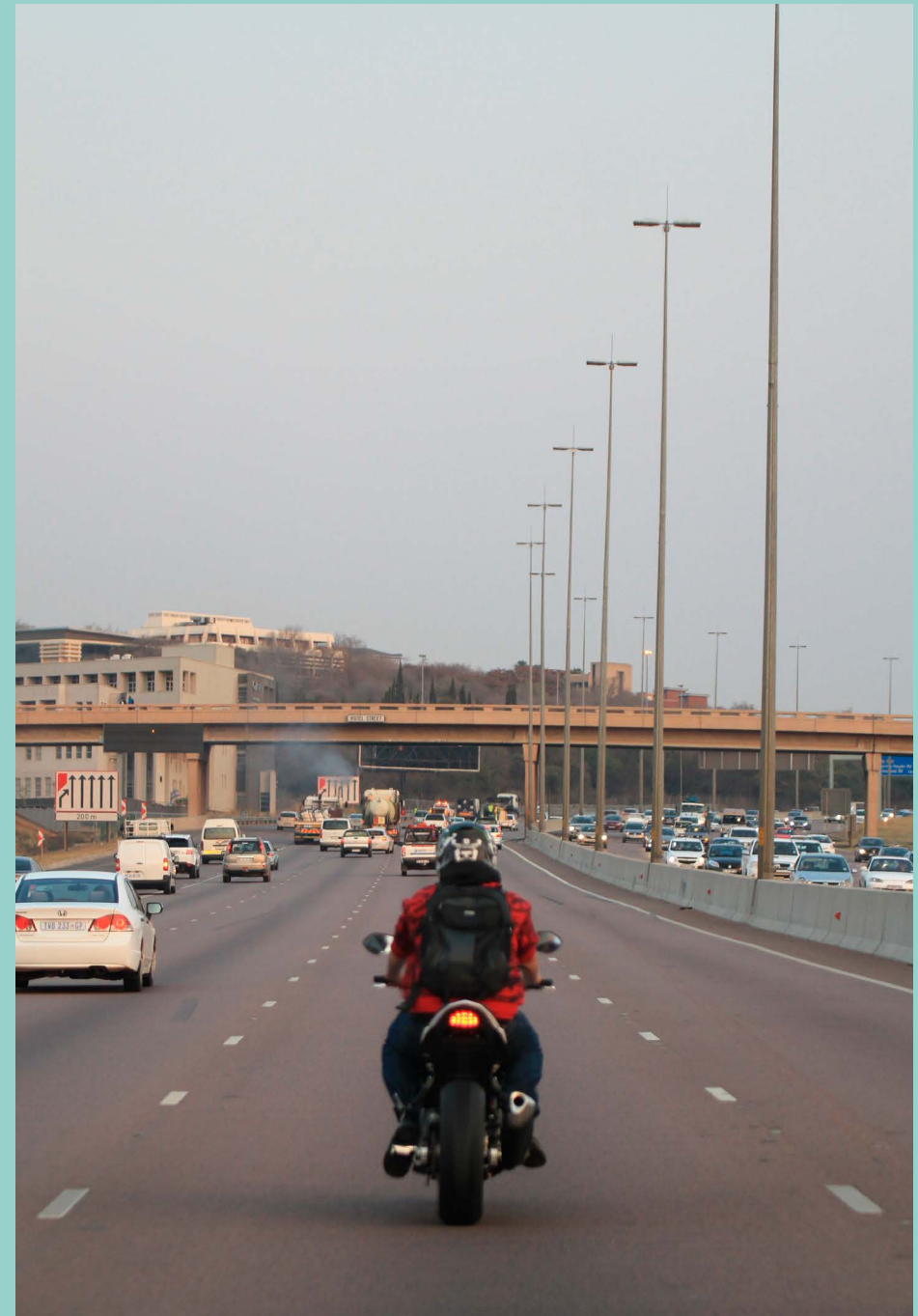
RUTHMANN

Ruthmann GmbH produces cellulose fibres and fibre pellets for more than 15 years. Ruthmann cellulose fibres are used worldwide in various industries and became a well-known brand. In the road construction business Ruthmann cellulose fibres and fibre pellets stand for process safety and product reliability. In collaboration with customers and cooperation with universities and engineering offices Ruthmann extends their portfolio with selected

additives. Their production site is near Prague in the Czech Republic but the company is based in Hückelhoven, Germany and acts worldwide direct and with local distributors.

For more information, please visit their website: www.ruthmann.info

ruthmann
FIBRES WORLDWIDE



EAPA-EUROBITUME ACTIVITIES

ASPHALT ADVANTAGES

The work of the joint EAPA and Eurobitume Task Force "Providing Evidence Asphalt Advantages" is going on since more than one and a half year now. The latest meeting was held on 1st July 2015.

The aim of this project is to inform the uninformed about the positive aspects of asphalt pavements. In a campaign planned for several years the Task Force has already managed to create a website based forum after one year work that provides more than 50 advantages of asphalt pavements. To get all the asphalt advantages please go to www.AsphaltAdvantages.com.

At this moment, the campaign is aiming to get more supporters and readers of the newsletter and the information provided on Twitter, Facebook and LinkedIn.

Everybody is asked to connect to the campaign via social media and the newsletter to get all the advantages and latest news of the branch and to exchange her or his advantages with the community.

Everybody is invited to spread the asphalt advantages and the information given on the website. Therefore different supporting tools have been created. Those are provided in a toolbox and can be downloaded from this website to support the campaign (<http://www.asphaltadvantages.com/graphics/>). Please feel free to add the provided tools on your association's or company's website or use the tools for your printed or online magazine. We would be glad to see the advertisement in your publications. Some of these adverts can be found in this newsletter as an example.

Economics
ADVANTAGE 50
Asphalt containing reclaimed asphalt is cost-effective and just as good as new.
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Sustainability **ADVANTAGE 46**



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EUROBITUME NEWS

NEW SENIOR OFFICERS

Siobhan McKelvey from Nynas was elected President of Eurobitume at the European Bitumen Association's recent EGM held on 3rd June 2015 in Brussels. During this meeting José Luis Prieto Menéndez from Cepsa was appointed Vice President and Markus Spiegel from OMV was elected Treasurer.

Siobhan McKelvey, who was previously Eurobitume Vice President, took the Precedency over from Carl Robertus, who stepped down.

Siobhan is Marketing Director for Nynas Bitumen and has also chaired Eurobitume's PR & Communications Committee since 2006.

Siobhan is a marketing and communications specialist, and graduated with a Business degree with a Marketing specialisation.

José Luis Prieto Menéndez, the new Vice President of Eurobitume is Asphalt General Director of Cepsa Comercial Petroleo. José Luis has worked for CEPESA for more than 25 years, during which time he has held a variety of senior roles. He studied chemical engineering at Universidad Complutense de Madrid.

Markus Spiegel, the new Treasurer of Eurobitume, has represented OMV at Eurobitume since 2009. He has a Civil Engineering PhD from the Technical University of Vienna.



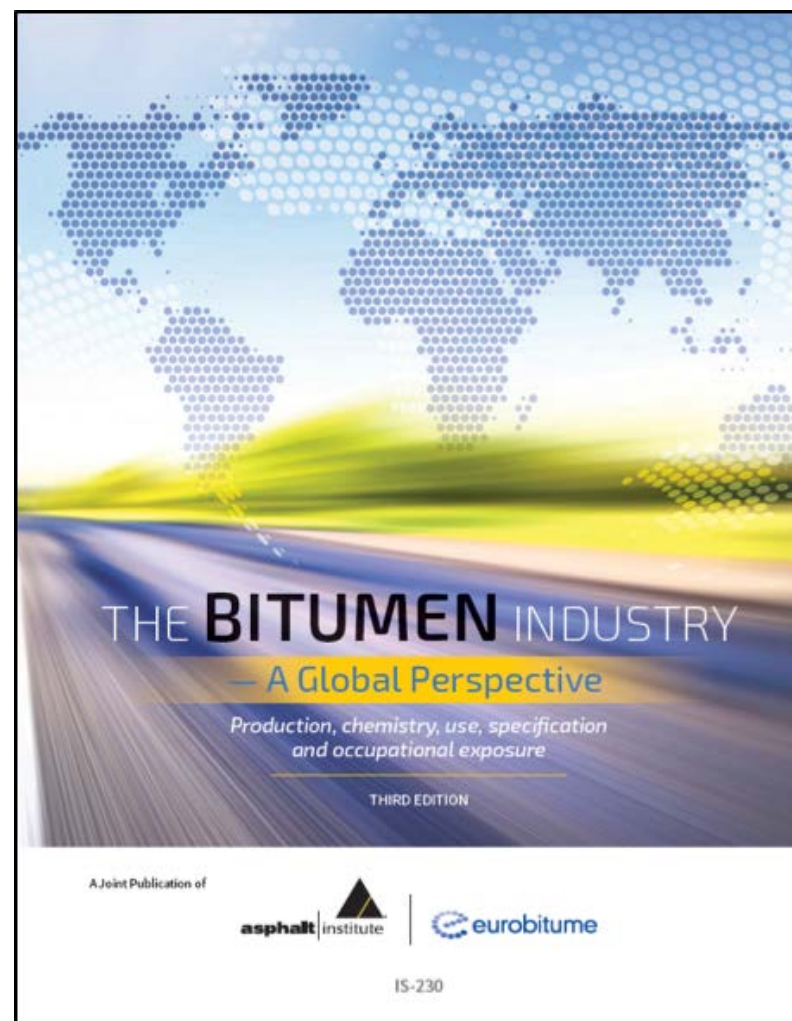
Siobhan McKelvey (foto: Siobhan)



José Luis Prieto Menéndez (Picture Eurobitume)

NEW EDITION OF "THE BITUMEN INDUSTRY - A GLOBAL PERSPECTIVE"

A combined Eurobitume and Asphalt Institute Task Force rewrote "The Bitumen Industry – A Global Perspective" and the new and 3rd edition (IS-230) can be downloaded from <http://www.eurobitume.eu/publications>. It provides a good overview of the bitumen manufacturing industry and includes a number of important changes compared to the 2011 edition.



E&E CONGRESS 2016

E&E CONGRESS 2016 OC

The Organising Committee of the E&E Congress 2016 had its 6th meeting on 22 May 2015 in Prague. During this meeting the progress of the Technical Programme Committee was discussed. The venue for the social event was visited. The congress dinner will be held at the beautiful Žofín Palace in Prague. Here the options for seating were evaluated. The intention is to have a 'dynamic seating' so the congress delegates are not seated for the whole evening but they can mingle. There was also a congress menu tasting at the venue.

During the meeting there was an update on the exhibition booths sold until now as well as the Sponsorship packages sold.

The structure of the Opening Day was further developed and the "Story-line" for the keynote sessions were discussed.

Suggestions for the E&E Congress app for mobile devices were shown.

The overview of promotional activities was discussed as well as the events at which the E&E Congress should be promoted.

Other items were Promotion material, the Focal points E&E Congress and the use of social media; information about new parallel sessions can be provided on Social Media.

The next meeting is in September 2015 in Brussels. During this meeting the proposal for the lay-out and speakers of the opening day will be discussed and the themes and speakers for the two parallel sessions the Organising Committee is taking care of.



Choosing menu for E&E Congress 2016 dinner

E&E CONGRESS 2016 TPC

The Technical Programme Committee (TPC) of the next Eurasphalt & Eurobitume Congress 2016 in Prague had several meetings in the last months. The latest one was held on 9 June 2015 in Brussels. The TPC is responsible for planning and managing the technical programme of the E&E Congress. The TPC is also responsible for the Call for abstracts, the abstract selection, the Call for papers, the paper review process, etc. and reports to the Congress Organising Committee (OC).

In the last months, the main activity of this committee has been the preparation of the paper handling module, the acquisition of the reviewers for the expected 400 papers, and to prepare the structure and content of the three days conference. The content of the technical sessions will be developed on the bases of the abstracts received for the different topics.

All full papers have to be sent to the TPC via the paper handling module until the 1 September 2015. After having received the papers, the double and independent reviewing process starts. Thanks again to all the reviewers for the papers on behalf of the TPC! This review process will be finished by the end of January 2016, so the authors will be informed about the acceptance of their paper(s) in mid-February.



GLOBAL ASPHALT PAVEMENT ALLIANCE

GAPA MEETING

On 20 August 2015 the yearly Global Asphalt Pavement Alliance (GAPA) meeting was held in Sun City, South Africa. This was the day after the CAPSA 2015 Conference in Sun City. The GAPA meeting was attended by representatives of Sabita (South Africa), AAPA (Australia), EAPA (Europe), JRCA (Japan Road Contractors Association) and NAPA (USA) and the meeting was chaired by the current GAPA chairman Egbert Beuving (EAPA).

One of the goals of GAPA is creating a structure and a forum for exchanging information and knowledge. More information about GAPA can be found at its website: www.globalasphalt.org.

Various subjects were discussed during this meeting. It started with "Promotion of Asphalt". Mike Acott (NAPA) gave an overview of the USA activities regarding asphalt promotion and Egbert Beuving explained the European campaign AsphaltAdvantages.

Under "Promotion / protection of the industry" Hitoshi Fujita of JRCA explained how they are promoting the road building industry in Japan to attract the young generation. Piet Myburgh (Sabita) informed the meeting about the progress they

made regarding developing Performance grade binder specifications for South Africa. Their goal is to have a "binder-blind" specification; so no differentiation between straight and modified binders. Rob Vos (AAPA) mentioned that Australia is following the developments in South Africa closely because they also use a lot of sealings.

Egbert Beuving gave a short overview of the developments in Europe concerning new bitumen and asphalt standards.

Under the heading "Technical excellence" Mike Acott presented Perpetual Pavements in the USA and addressed the developments in the USA regarding Durability of Surface Layers. Piet Myburgh gave the state-of-the-art regarding the new Asphalt design method for South Africa and Hitoshi Fujita presented Durable Pavement Technologies in Japan and Long Term Performance Guarantee Contracts in Japan.

The next agenda item was "The Asphalt Paving Industry – a Global Perspective". After a discussion the meeting concluded that there was no need updating this document. Under "Regulatory issues" Mike Acott explained the Silica / Asphalt Milling Partnership in the USA.

Regarding "Environment" Beuving

explained the developments in Europe about future requirements concerning leaching of construction products. Also the consequences of having used tar in the past were discussed.

Mike Acott explained the development of Product Category Rules and the Environmental Product Declaration for asphalt mixtures in the USA under "Sustainability". Hitoshi Fujita explained the Green Public Procurement for the recycling society in Japan and Beuving informed the group about the revision of the Green Public Procurement Criteria in Europe.

Saied Solomon (Sabita) explained the situation in South Africa. Here is also something coming down the pipeline. Again it was interesting to see that all items discussed during the meeting were relevant for all parts of the globe and sharing the knowledge was advantageous for all participants.

The next GAPA meeting will be held on 3 June 2016 in Prague just after the E&E Congress.



The participants of the GAPA 2015 meeting

EUROPEAN STANDARDISATION

CEN TC227 WG1

On 20 and 21 April 2015 there was a meeting of CEN TC227 WG1 in Naples, Italy.

The meeting started with an update of the progress made by Task Group 2 "Test methods".

Due to the 5-year review process of European standards frequently test methods are improved and updated in the revision process. During this meeting 5 revised test methods were discussed and approved to go out for CEN Enquiry.

For 6 test methods TG2 responded to the comments received in the CEN Enquiry process and updated the draft standards accordingly. These 6 drafts were discussed and approved to go out for Formal Vote in the so called "Comments Resolution Meeting".

There was also a progress report of Task Group 3 "Product Standards". The convenor of this Task Group Jan van der Zwan retired and will step down as convenor. Jean-Luc Delorme (France) will take over the convenorship for a while as intermediate convenor.

The draft of the new standard "Asphalt Concrete with Bituminous Emulsion" was shortly discussed. Next to this product standard test methods and conditioning procedures for cold mix-

tures are needed as well as an annex for EN 13108-20 and -21.

Examples of CE-marking and DoP (Declaration of Performance) were shortly discussed and will be extensively discussed in the next meeting as they cannot be shown in annex ZA anymore.

Also Task Group 4 "Conformity Assessment Standards" gave a short update. This TG will now start with part EN 13108-20 and -21 for the bituminous mixtures with emulsions.

There was an update of the activities of Sector Group 15 and ageing of asphalt was discussed. It is planned to have a workshop on Ageing of Asphalt by the end of 2015. This Workshop will build on the results of the Workshop held on this subject in Delft in 2014.

The next CEN TC227 WG meeting will be held on 1 and 2 October 2015 in Turkey.

CEN TC227 WG 6 "SUSTAINABILITY"

CEN TC227 WG6 had a meeting on 30 April in Berlin. The draft for the scope of this Working Group was discussed and amended. The scope of WG6 is now to support CEN TC227 in all matters relating to sustainability of CEN TC227 products, including the Release of Dangerous Substances (RDS) to the environment and Environmental Product Declarations (EPD). The convenor of WG6 John Booth was nominated as liaison officer for TC 351 "Construction products: Assessment of release of dangerous substances" and TC350 "Sustainability of construction works". The Mandate M/124 "Road construction products" has been amended by the EC to fulfil requirements on Dange-

rous Substances. In liaison with CEN/TC154/WG13 "Dangerous substances" an answer has been prepared and has been sent via CEN-CENELEC Management Centre (CCMC) to the EC in 2013 for approval, but without any responses.

WG6 will ask TC 350 to advise regarding environmental product declaration and the possibilities of drafting a document for complementary product declaration for road construction products. Egbert Beuving informed the meeting that EAPA is working on a Product Category Rule and an EPD for a generic asphalt mixture.

There was also a presentation of the FP7 project LCE4ROADS.

CEN TC227 CHP

During the CEN TC227 Chairmen's Panel meeting held on 30 April 2015 in Berlin there were reports on the activities of the Working Groups and the Ad-hoc Group Airfields of CEN/TC 227 and the meeting of CEN/TC 227 to be held in Berlin was prepared.

CEN TC227 WG1

On 8 and 9 June there was a CEN TC227 meeting in Berlin. In this meeting Egbert Beuving was reappointed as convenor of CEN TC227 WG1 for the next 3 years. The present convenor of WG5 "Surface characteristics" Michel Boulet retired and Manfred Haider was appointed as his successor.

The draft revised asphalt product standards (the EN 13108 series) were approved to go out for Formal Vote. The new template for the annex ZA was circulated by CEN and all standards now for enquiry and formal vote shall be amended with the new annex if applicable according to the new template. This is also the case for the revised asphalt standards and they will be updated accordingly.

The next CEN TC227 meeting will be held mid-June 2016.

CEN TC336 WG1

CEN TC336 WG1 "Paving Grade Bitumens" had a meeting on 5 and 6 March 2015 in Zürich.

The PMB standard EN 14023 was under systematic 5-year review. In September 2015 CEN TC336 WG1 will decide whether this standard has to be revised. When agreed, a new Task Group 5 will revise the PMB standard (if needed). The TG5 proposal for a future EN 14023 was circulated to WG1 and was discussed.

During systematic 5-year review of EN 12591 comments were received to address acid value and salt content of binders used for emulsions. CEN TC336 WG2 got work items to develop test methods for these two characteristics. TG 6 is revising EN 12591 "Paving Grade bitumen" and intends to have the draft for CEN Enquiry ready before the next WG1 meeting in September 2015, in order to start the CEN Enquiry on time.

The MSCR Test will go out for Formal Vote soon. Also the revision of several test methods was discussed.

The next WG1 meeting will be held in Tarragona (Spain) on 29th and 30th September.

CEN TC336 ADVISORY GROUP

On 3rd July 2015 a CEN TC336 Advisory Group meeting was held in Paris. Here the activities and issues of the CEN TC336 WG1 and TC336 WG2 were discussed.

Egbert Beuving gave a report from the CEN TC227.

According to the latest rules it is not possible to give examples of CE marking and Declaration of Performance (DoP) in Annex ZA of the harmonised product standards. New possibilities of giving these examples were discussed and the secretariat of TC 336 will check what is allowed because the examples were seen as very useful. Also several other items were discussed as Answer to Mandate M/124, Regulated Dangerous Substances, EPD, PCR, etc.

The next CEN TC336 Advisory Group meeting will be held on 5 February 2016 in Paris.

OTHER MEETINGS & EVENTS

32ND PAPA SEMINAR

On 23 – 25 March 2015 the 32nd PAPA Seminar was held in Warsaw, Poland under the title “Asphalt advantages” and was opened by the PAPA President Andrzej Wyszynski.

Dariusz Slotwinski, the founding father of PAPA, presented the new Polish asphalt campaign “The advantages of asphalt”. The 4 main items of this campaign are: Economics, Ecology, Safety and Comfort.

Egbert Beuving (EAPA) presented the themes and goals of the joint EAPA – Eurobitume project Asphalt Advantages and showed the Asphalt Promotion Tools on the EAPA website.

Sandra Kaden (PEBA, Germany) gave an overview of the advantages of asphalt pavements with many examples from Germany. Martin Muschalla (TPA Germany) presented Innovations in practice and described the technical developments in Germany including the “Prozesssicherer Automatisierter Straßenbau” (PAST) project. He explained the use of thermo-isolated trucks for the asphalt transport, the use of temperature scanners behind the paver, the documentation of the temperatures measured, the use of Continuous Compaction Control systems on the roller and the effect of this on the quality of the paved asphalt layers.

Next to these presentations there were presentations regarding Good practices, Learning from mistakes, Innovative road surface, Innovation in materials, Noise reduction, etc.



Asphalt. For better roads.

FIRM 2015

The FEHRL Infrastructure Research Meeting 2015 (FIRM15) was held on 22 and 23 April 2015 in Brussels. This meeting was opened by Stefan Strick, FEHRL President and in his welcome address he mentioned that this conference is a further step to collaborative research. Thierry Goger, FEHRL Secretary-General, mentioned in the introduction to the conference that maintenance is becoming a critical issue now and therefore this year's focus is on Innovative Maintenance. Member of European Parliament Gesine Meissner addressed the importance of road maintenance too. Everybody is talking about Model shift, but we need all modes of transport and we need roads in a good condition. Therefore road maintenance is very important although it is an under-financed subject. If you don't do that maintenance well we will have a huge problem in the future. She gave the example of Germany where more than double the money available would be needed for road maintenance. A toll system could be the solution, but if the money coming from the toll roads is deducted from the other finances for roads, it makes no difference in the end. She also mentioned the new possibilities of the Juncker plan to create infrastructure.

Keir Fitch, DG MOVE, EC, mentioned that the European Commission is investing significantly to complete the missing links in the infrastructure network and to overcome bottlenecks. The existing infrastructure is ageing. In the future more efficient and quicker maintenance is needed as well as innovative solutions. A wide range of tools is needed. We need to look at business models and at the way we procure it. At the moment there is no incentive for the contractor to innovate.

In the second session Egbert Beuving (EAPA) gave a presentation called “Innovation in the asphalt industry”. He presented Long Life pavements, Self-healing asphalt and Ways to achieve less maintenance and better roads. In his conclusions he mentioned that incentives are needed for the industry to create innovative solutions to improve the performance, robustness and efficiency of road infrastructure. Incentives are needed to use latest technology / innovative products, to raise the productivity, quality and timeliness of infrastructure projects, to deliver high(er) quality products and to be rewarded for excellency. If there are no incentives for the industry there is no motivation for innovation and its implementation. These statements did lead to a very good and animated discussion.

The second day started with a round table discussion. Also here the lack of money for maintenance of infrastructure was discussed. In the discussions it became clear that maintenance should be made more attractive, especially for the politicians. Politicians have to experience it themselves before they act. The moderator of the Round table, Bob Collis concluded that it is up to the engineers to educate the politicians.

In the afternoon session this subject came back. It was mentioned that maintenance should be made attractive (stimulating) for politicians. Good information and numbers are needed for the politicians to convince them of the need of maintenance. It was also mentioned that numerous studies have shown how important the general public sees the importance of good infrastructure, but this did not change anything. This might lead to the conclusion that the politicians have to be informed in a better way (by the engineers).

A copy of all the presentations made at FIRM 2015 can be found at the FEHRL website: http://www.fehrl.org/?m=32&id_directory=7801



MEP Gesine Meissner



Keir Fitch, DG MOVE



Bob Collis



Round table discussion

ROSANNE RESEARCH PROJECT

On 29 April 2015, EAPA Director Carsten Karcher participated in the Stakeholder Reference Group (SRG) meeting of the ROSANNE project at the Rijkswaterstaat office in Utrecht, The Netherlands.

ROSANNE is a collaborative project in the 7th EU Framework Programme, which aims at developing/harmonising measurement methods for skid resistance, noise emission and rolling resistance of road pavements as a preparation for standardisation. To achieve this, the project is following the recommendations of key predecessor projects (like TYROSAFE, HERMES, SILVIA, SILENCE and MIRIAM), as well as considering ongoing work in CEN and ISO.

In the SRG the project team presented general information and the status and output of the ROSANNE project. In the following open discussion, EAPA gave feedback from the asphalt industries' perspective on this very important research in the field of road surface characteristics.

For more information, please go to <http://rosanne-project.eu/>



ACEA MEETINGS ON CUTTING TRANSPORTS' CO₂ EMISSIONS

From April to July 2015 the European Automobile Manufacturers Association (ACEA) held several workshops and meetings as part of its "Joining forces to tackle the road transport CO₂ challenge" initiative. EAPA was invited as one of many stakeholders of the transport sector to show possible contributions to reduce CO₂ emissions within the transport sector as claimed by the European Commission its White paper 2011. Thus, in one workshop the participants shared their thoughts and findings concerning the CO₂ reduction potential of the different infrastructure technologies and approaches. In addition, the workshop also focussed on the possible (practical) barriers and enablers (including policies) about unlocking this potential. The EAPA Secretariat prepared several presentations for the positive aspects of asphalt pavements to reduce rolling resistance and for quick maintenance with smooth and well maintained roads to reduce the CO₂ emissions during the use phase. The presentations were based on independent and neutral studies and research projects that demonstrated the benefits of asphalt pavements in this field. During the discussions, EAPA gave important and relevant input for two reports that will be prepared; one concerning the target group passenger cars and light vehicles and the second one for heavy duty vehicles. EAPA will follow this initiative with further input, participation in meetings, providing relevant information and actively participating in an ACEA conference in Brussels on 3 December 2015.

For further information, please go to:

http://ec.europa.eu/transport/themes/strategies/2011_white_paper_en.htm

<http://www.acea.be/publications/article/background-reducing-co2-emissions-from-cars-and-vans>



ASPHALTSTRASSENTAGUNG HAMBURG

On 5 and 6 May 2015, EAPA Director Carsten Karcher participated in the German Asphaltstraßentagung 2015 in Hamburg, Germany. During this two days' event the latest research results, paving technologies and developments in the asphalt sector were presented and discussed.

In the session "New challenges", Carsten Karcher gave a presentation on "Reduction of CO₂-Emissions – Tasks and challenges for the European Asphalt Industry." In this presentation he addressed the European Commission's White paper on transport, their Green Public Procurement document, initiatives in this field from the European Automobile Manufacturers Association, different member states, research projects, and a general trend to label CO₂ emissions in everyday life. Furthermore, he presented various possibilities to reduce CO₂ emissions during the production and the transport of the material, the construction process, the use phase of an asphalt road and the end of life stage.

For more information please go to www.fgsv.de.



CECE MEETING

On 20 May 2015 Egbert Beuving (EAPA) had a meeting with Sigrid de Vries (Secretary General of CECE), Valentina Resised (Public Affairs & Communication) and Stephan Belaen (Technical Manager) of Committee for European Construction Equipment (CECE).

CECE is representing and promoting the European construction equipment and related industries in Europe. In the EAPA Asphalt Plant & Equipment Manufacturers Group meetings CECE is often mentioned and therefore a meeting with CECE was organised. The activities of both association do not overlap. CECE is focusing on

the equipment itself. For them CO₂, noise, fuel reduction, education and training, safety and environment are the important issues. At EAPA side the Asphalt Plant & Equipment Manufacturers Group is addressing the use of this kind of equipment. For CECE and EAPA it is important knowing each other and to know each other's focus.



DURABROADS RESEARCH PROJECT

On 15 June 2015, EAPA Director Carsten Karcher participated in a workshop of the DURABROADS project in Madrid, Spain. EAPA is in the advisory group of this project and gives support in selected workshops.

DURABROADS' main objective is to provide a sustainable growth through the development and demonstration of cost-effective, eco-friendly, durable and resilient pavements. These pavements will be based on innovative nanotechnology enhanced asphalts and through the optimisation of

procedures to build and rehabilitate long-life, safer and greener roads. The consortium will also consider main transport challenges which Europe is facing at the moment. Improvement citizens daily life in terms of mobility and exportation of innovative European knowledge to third countries will play a key role in the project.

In the workshop, the different working package leaders presented the status and output of the project. EAPA gave feedback from the asphalt industries' perspective on the preliminary results



and contributed to the discussions. Additionally Elena Garbarino from the European Commission's Joint Research Centre, Institute for Prospective Technological Studies (JRC-IPTS), gave the latest information about the Green Public Procurement document.

For more information, please go to <http://www.durabroads.eu/>

Elena Garbarino of JRC-IPTS



DURABROADS Workshop



EPRA MEETING

The European Platform for Recycled Aggregates (EPRA) was launched in 2008 and its mission is to achieve the best use of recycled aggregates for the highest application possible. This platform had a meeting on 23 June 2015 in the UEPG office in Brussels. The goal of this meeting was to exchange information regarding ongoing activities in Europe.

In the meeting there was an update on the ECs Circular Economy Package and the Public Consultation on Circular Economy. There are now "End of Waste Criteria" in the UK and in the Netherlands. In France and Austria they are working on it.

Regarding Sustainability: DG Environment has worked on the development of a harmonised methodology for the calculation of the environmental footprint of products (including carbon): Product Environmental Footprint (PEF). The European Commission also financed a study to examine Environmental Product Declaration Schemes (EPDs). It is not clear which direction will be chosen. UEPG created a model for EPDs (Environmental Product Declarations). Other items discussed were Dossiers for Without Further Testing (WFT), leaching, Green Public Procurement (for roads and office buildings).

C&D WASTE MEETING

On 26 June 2015 a Kick-off meeting "Towards a Common Construction & Demolition Waste Management Protocol" was held in Brussels. From EAPA side Egbert Beuving attended the meeting. It was organised by DG GROW (Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs) of the European Commission.

(based on the Waste Framework Directive (2008), the Communication Roadmap on Resource Efficiency (2011) and Toward Circular Economy (2014)). This meeting / workshop is a new initiative of the European Commission within Thematic Group 3 "Sustainable use of natural resources" of Construction 2020 and the Workshop on Recycling C&D waste held on 28 November 2014.

Based on volume, Construction and

Demolition (C&D) is the largest source for waste stream in the EU – about one third of all waste produced. Some Member States already recycle up to 90%, but the average recovery for the EU is below 50%. So effort is needed to achieve that 70% by 2020. More has to be done to increase recycling of C&D waste. One of the largest hurdles is that the perceived quality of processed C&D waste is low. DG GROW with DG-ENV (Environment) will address this misperception on the perceived quality of processed C&D wastes by developing a Common EU C&D Waste Management Protocol. Such a protocol should further promote the uptake of C&D waste across the EU and ideally be accompanied by End of Waste criteria.

The Protocol should develop a common set of principles, which are

applicable in the entire EU and based on the highest common standards in each stage of the waste management chain. After finalisation, the Protocol will function as 'soft legislation': a reference document for industry professionals and authorities who can refer to it when dealing with Construction and Demolition Waste issues. The Protocol will be developed based on the collaboration between industry professionals, their EU level representations, national government representatives and the EC. The project officially started with this kick-off meeting with the objective of finalising the Protocol in the summer 2016.

The work will be done by two Task Groups: Task Force 1 "Quality Recycling, Building Confidence" and Task Force 2 "Setting conducive Framework Conditions".



Kick-off meeting

ISAP APE SYMPOSIUM

The 3rd ISAP International Symposium on Asphalt Pavements and Environment (APE) was held on 16 Augustus 2015 in Sun City, South Africa, the day before CAPSA 2015 Conference started.

After a local welcome of Kim Jenkins (University of Stellenbosch, SA) and an introduction of Manfred Partl (ISAP APE TC chairman) John Harvey (Professor at the University of California, Davis, USA) gave a keynote lecture on LCA, Sustainability and Resilient Structures. He explained how close we are to sustainability and how to improve the sustainability of pavements. Due to the climate change it is now time to adapt the pavement design to the climate changes that are coming. He also explained the relations (and differences) between PCR (Product Category Rule), LCA (Life Cycle Assessment) and EPD (Environmental Product declaration). If a road (or surface layer) will last 20% longer the environmental impact will reduce by 20%.

Egbert Beuving (EAPA) participated in the Panel discussion that followed. He mentioned that improving the durability of surface layers is very important to reduce the environmental impact. The second session was dealing with Cold Recycling Technology & Mix Design. Several presentations were addressing Bitumen Stabilised Materials (BSMs).

Dave Collings explained the need for robust mix design and pavement

design procedures for BSMs in South Africa, using either foamed bitumen or emulsified bitumen binders.

He outlined the research developments in the field of BSM technology and testing and their link to a standardised mix design as well as laboratory test results to be used in the evaluation of the life of the pavement structure. The BSM, which is seen as a non-continuously bound material, is regarded as a super performing material and the shear parameters (from tri-axial tests) are seen as crucial.

In the 3rd session "New, Innovative Technologies" it was mentioned that we are getting more changes in the climate (and the weather) and the changes are going faster. Sandra Erkens (TU Delft) spoke about innovations in asphalt and how they stimulate innovations in the Netherlands by using the Innovation Test Centre (ITC) of the Dutch Highways Authority (Rijkswaterstaat). She gave several examples like Asphalt paving at temperatures below freezing point, laser monitoring of ravelling, asphalt with steel fibres, rejuvenators to counter-act ageing in-situ and for asphalt with high percentages of Reclaimed Asphalt.

Seirgei Miller (University of Twente, the Netherlands) explained that the guarantee periods for (some) surface layers in the Netherlands went from 3 years to 7 to 10 years and they are using functional contracts. So more

responsibility goes to the contractor. He explained the ASPARi project and the benefits and impact of this project on the roads industry / contractors. In the projects they monitor what the asphalt crews are doing by using "of the shelf" high technology. By analysing this they can optimise the process. Until now they monitored followed more than 50 projects.

More information about the ISAP Technical Committee Asphalt Pavements & Environment can be found at: <http://www.rknet.it/isap/>



John Harvey



Dave Collings



Sandra Erkens



Seirgei Miller

CAPSA CONFERENCE 2015

On 16 – 19 August 2015 the 11th Conference on Asphalt Pavements for South Africa (CAPSA 2015) was held in Sun City in South Africa. There were 577 attendees of which 84% came from South Africa.

In the opening session Phil Hendricks, the CAPSA 2015 Chairperson, gave in the introduction an overview of the previous conferences and he showed the changes and innovations that had been made since the 1st CAPSA Conference in 1969. Martyn Davis (Frontier Advisory) addressed the economic situation in African continent and addressed investing in infrastructure. Thierry Goger (FEHRL) also addressed investing in road assets. In Europe the investments in road assets have dropped and now the European road assets are in danger because of lack of funds for maintenance. Next to that we are facing an increase in demand of transport in the future. Goger also presented the ambitious targets mentioned in the vision for the 5th generation of roads.

Thomas Moons (Shell Bitumen) spoke about the global oil markets and the impact on bitumen. He mentioned that all oil products are growing except residual fuel oil which has consequences for bitumen. He presented the change in refinery capacity build and confirmed closures in the world in 2015. In Europe refineries have been closed and they import less crude now but import more final products instead.

New refineries produce less bitumen so bitumen has to travel more. He expected price volatility to remain in a world of low crude oil prices and changing flows, uncertain geopolitics and economics further contributing to volatility and impacting short-term refinery steer making bitumen production less predictable. Further consolidation is expected in European refining exacerbating product lengths and shorts and forcing bitumen to travel longer distances, both within and across regions.

In the second session Dave Jones (USA) presented the results of a 5-years California Warm Mix Asphalt study. In California 35% of all asphalt mixtures has to contain rubber. They did many tests in various areas. In his key-findings he mentioned that WMA mixes have significant less smoke and odours than HMA, especially rubber mixes. WMA mixes are notably more workable than HMA mixes, especially rubber mixes. WMA generally had equal, but not better performance to HMA on test tracks, better performance in the field. So equal performance can be obtained from WMA compared to HMA.

Francois Olard (Eiffage Travaux Publics) presented French experience of Long-life overlays by using Highly SBS Modified Bituminous mixtures. By using Highly Polymer Modified Bitumen (HPMBs) the asphalt will get

a much higher fatigue resistance so an asphalt layer reduction can be achieved, which brings environmental benefits and cost savings because less material (aggregate and bitumen) is needed. This type of mixture was also used for the bridge deck of the Millau viaduct.

On the second day there was a.o. a Master Class on Bituminous Binder Rheology. Here John D'Angelo (USA) gave a good overview of the binder tests that have been developed and that are being used in the PG grading system in the USA. His presentation was very interesting, especially for the South African audience because South Africa is developing (new) Performance grade binder specifications. In this way they can use the experience from the USA.

The third day started with parallel workshop sessions. One of these sessions was "Transition to a PG Binder Specification". Kim Jenkins explained where they are in South Africa. In South Africa 80% of the surface roads have surface seals on top and not asphalt. At this moment they have a penetration-based specification but that is not considering traffic, climate and durability. Therefore they are now developing PG (Performance Grade) binder specifications. In this session a.o. Geoffrey Rowe (Abatech) gave an overview of the tools available for bitumen characterisation and also presented a way forward for South Africa based on DSR measurements. Sandra Erkens (TU Delft) spoke about

the ageing behaviour of bitumen and the results of the Ageing Workshop that was held in Delft. The results of this workshop will be available (on the internet) soon.

In the Closing session Etienne Le Bou-teiller (Colas) gave a summary and lessons learned of the PPRS Conference held in Paris this year. Geoffrey Rowe spoke about AAPT. Michael Cote (Chairman of the Board of NAPA) explained the active approach of NAPA regarding the asphalt fume exposure reduction. In 2014 the WMA usage in the USA was about 32% of the total asphalt production. Mike Acott (NAPA) gave an overview of NAPA activities and presented some new tools and websites available, like PaveXpress (a simplified pavement design tool to help scope projects more effectively), the Pavement Health Track Analysis Tool for Determining the Health of Pavement Networks, IRI Explorer and DriveAsphalt.org.

Kim Jenkins presented the (draft) Conference Resolutions which were actions formulated for CAPSA, Sabita, the Road Pavements Forum (PRF) and CSIR for the coming 4 years. Saied Solomons (Sabita) closed the CAPSA 2015 Conference.



Thierry Goger (FEHRL)



Thomas Moons (Shell Bitumen)



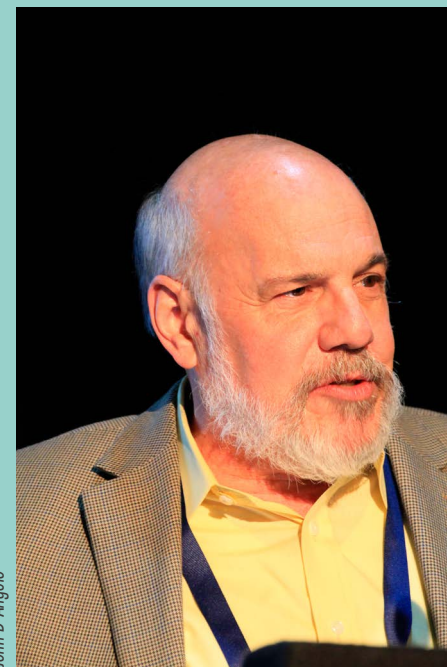
Michael Cote (Chairman NAPA)



Mike Atcott (NAPA)



Dave Jones (USA)



John D'Angelo



Saied Solomons



Kim Jenkins

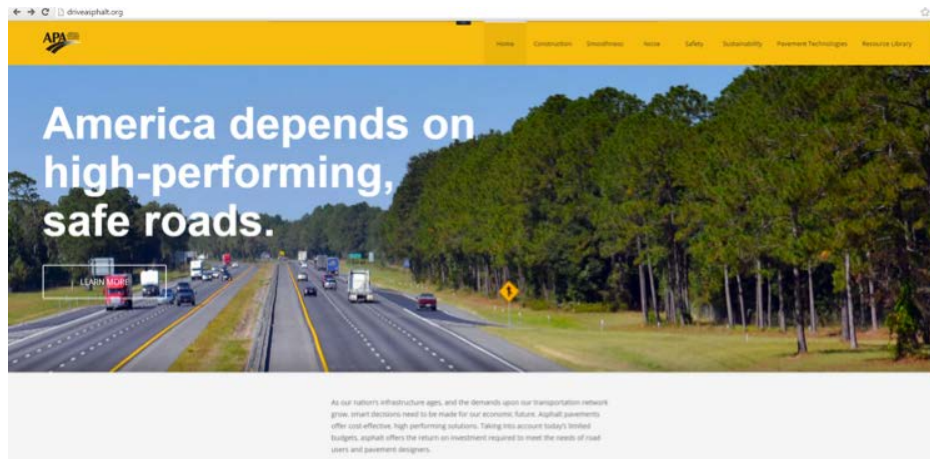
INTERESTING WEBSITES

DRIVE ASPHALT

The website www.Driveasphalt.org is a website of APA (Asphalt Pavement Alliance - USA) which shows that asphalt pavements offer cost-effective, high performing solutions. Taking into account today's limited budgets, asphalt offers the return on investment required to meet the needs of road users and pavement designers. The website provides information regarding the asphalt advantages: Speed

of Construction, Smoothness, Noise, Safety, Sustainability and Pavement Technologies. Papers, videos and illustrations can also be found on this website.

The Asphalt Pavement Alliance is a partnership of the Asphalt Institute, National Asphalt Pavement Association and the State Asphalt Pavement Associations of the USA.



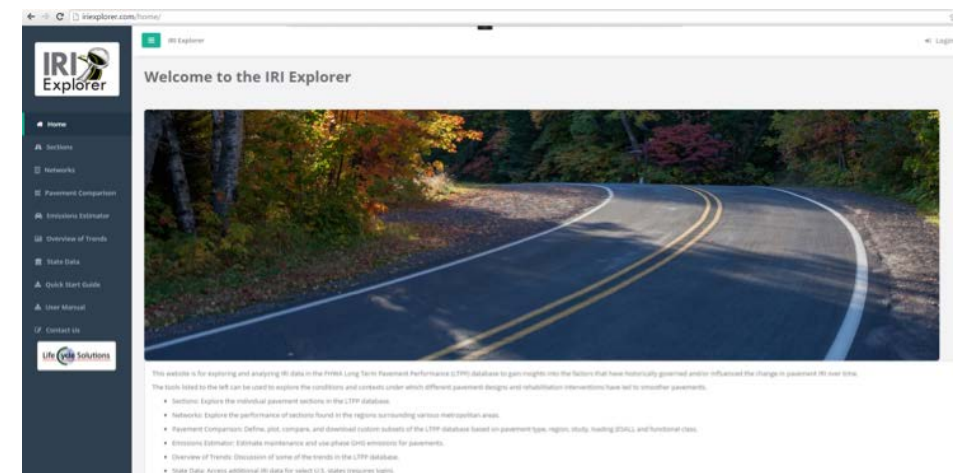
IRI EXPLORER

This IRI Explorer website <http://iriexplorer.com> is for exploring and analysing IRI data in the FHWA Long Term Pavement Performance (LTPP) database to gain insights into the factors that have historically governed and/or influenced the change in pavement IRI over time.

The tools listed to the left of the website can be used to explore the conditions and contexts under which different pavement designs and rehabilitation interventions have led to smoother pavements. Life Cycle Solutions constructed a user-friendly interface for FHWA Long-

Term Pavement Performance (LTPP) pavement roughness data as measured by the International Roughness Index (IRI). This database, the IRI Explorer, provides an increased understanding of pavement maintenance cycles and road condition impacts on drivers, as well as a means to quantify a road's drivability.

The IRI Explorer also quantifies the environmental benefits of smooth pavements in terms of fuel savings and greenhouse gas (GHG) emission reductions associated with pavement construction, use, maintenance, and end-of-life.



UPCOMING CONGRESSES

RESIDENTIAL COURSE IN ASPHALT MATERIALS

On 6 - 11 September 2015 the Newcastle University (UK) organises the 42nd Residential course in Asphalt Materials and Pavement in association with the Mineral Products Association.

All the details about the course can be found at <http://www.ncl.ac.uk/cegs.cpd/cpd/asphalt.php>



INTERNATIONAL AAPA CONFERENCE

On 13 – 16 September 2015 the 2015 AAPA International Flexible Pavements Conference will be held in Gold Coast, Australia.

More information can be found at: <http://www.aapa.asn.au/news-and-events/2015-aapa-international-flexible-pavements-conference>



RILEM SIB SYMPOSIUM

On 7-9 October 2015 the 8th International RILEM SIB Symposium will be held in Ancona, Italy. Here the results of RILEM TC 237-SIB (Testing and characterization of Sustainable Innovative Bituminous materials and systems) will be presented and discussed. More information can be found at: <http://www.rilem-sib2015.it>



25TH PIARC CONGRESS

On 2 – 6 November 2015 the 25th PIARC World Road Congress will be held in Seoul, South Korea. The congress theme is: Road and Mobility – Creating New Value from Transport. More information can be found at: www.piarcseoul2015.org



CILA CONGRESS

The XVIII CILA (Iberian Latin American Asphalt Congress) will be held on 16 - 20 November 2015 in Bariloche, Patagonia, Argentina. More information can be found at: <http://www.cila2015.com.ar/>



AV'15 CONFERENCE

On 24 - 25 November 2015 the CONFERENCE ASPHALT PAVEMENTS 2015 (AV-15) will be held in České Budějovice, Czech Republic.

The topics are:

- New Technological Trends in Asphalt Pavements
- Pavement and construction Material Testing
- Second Generation of European Standards – Impacts, Effects, Experience in Application
- Solutions and Measures for Durable and Cost-Efficient Asphalt Pavements

More information can be found at: <http://www.asfaltove-vozovky.cz/en/>



15TH COLLOQUIUM ON ASPHALT AND BITUMEN

On 26 and 27 November 2015 ZAS is organising the 15th Colloquium on Asphalt and Bitumen, which will be held in Hotel Golf in Bled, Slovenia.

All lectures at the colloquium will be simultaneously translated into Slovenian and English.

There is an opportunity for Technical and Commercial presentations. There is an exhibition and companies will have possibility for 10 minutes technical presentations of their companies and new products.

For more information: www.zdruzenje-zas.si or e-mail: info@zdruzenje-zas.si



DEUTSCHE ASPHALTTAGE 2016

On 17 – 19 February 2016 the XVIII. Deutsche Asphalttage will be held in Berchtesgaden, Germany. More information can soon be found at www.asphalt.de.



DEUTSCHE ASPHALTTAGE 2016

On 1 – 3 June 2016 the 6th Eurasphalt & Eurobitume Congress will be held in Prague. More information can be found at www.eecongress2016.org



2016 ISAP SYMPOSIUM

The 2016 ISAP Symposium "From Molecules to Innovative Pavements" will be held on 18-21 July 2016 and is hosted by Western Research Institute, USA.

This International meeting focusing on the transfer of technology from fundamental research to applied engineering of asphalt pavements will be held in conjunction with the long-standing Petersen Asphalt Research Conference (www.petersenasphaltconference.org).

The web link for Call for Abstracts is: <http://www.isap2016symposium.org/ISAP2016-Abstracts.html>



RILEM CONFERENCE

The 8th RILEM International Conference on "Mechanisms of Cracking and Debonding in Pavements" will be held on 7 – 9 June 2016 in Nantes, France. More information can be found at: <http://mcd2016.sciencesconf.org/>



EVENTS LIST

2015

- 1-2 Oct CEN TC227 WG1 meeting in Turkey
 6 Oct Joint EAPA ExCo / Directors' Group meeting in Brussels
 7 Oct Joint EAPA – Eurobitume ExCo meeting in Brussels
 7-9 Oct if needed
 8th International RILEM SIB Symposium in Ancona, Italy
 12 Oct CEN TC154 WG13/227 WG6 meeting, London
 15 Oct Joint EAPA – Eurobitume TC meeting Brussels
 15 Oct C&D Waste Management Protocol – TF 1 meeting
 21 Oct EAPA HSE meeting in Paris
 22 Oct EAPA TC meeting in Paris
 26 – 28 Oct 33rd Technical Seminar PAPA in Poland

 2 – 6 Nov 25th PIARC World Road Congress in Seoul, South Korea.
 5 or 9 Nov ACEA Stakeholder Round Table meeting
 12 Nov TF Providing Evidence Asphalt Advantages meeting in Brussels
 13 Nov ROSANNE Stakeholder Reference Group meeting
 19 Nov E&E Congress 2016 Organising Committee meeting in Prague
 24-25 Nov Conference Asphalt pavement (AV-15) České Budějovice, Czech Republic
 25 Nov Danube conference in Bled, Slovenia
 26-27 Nov 15th Colloquium on Asphalt and Bitumen in Slovenia

 3 Dec ACEA Event for Commercial Vehicles in Brussels
 10 Dec C&D Waste Management Protocol – TF 1 meeting

2016

- 4 Feb C&D Waste Management Protocol – TF 1 meeting
 5 Feb CEN TC336 Advisory Group meeting in Paris
 17 – 19 Feb DAV XVIII. Deutsche Asphalttage Berchtesgaden

 8 March CEN T227 Chairman's Panel meeting
 9 March CEN TC227 WG6 meeting
 10 – 11 March CEN TC336 WG1 meeting

 6 April EAPA HSE meeting in Oslo
 7 April EAPA TC meeting in Oslo
 25 – 26 April CEN TC227 WG1 meeting in Helsinki
 30 – 31 May CEN TC336 meeting in Prague
 31 May EAPA GCA meeting in Prague

 1 – 3 June E&E Congress 2016

COLOPHON

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