



EAPA MAGAZINE 44 - JULY 2019

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INTRODUCTION

Dear EAPA members,
dear Asphalt friends,

Welcome to the 44th issue of the EAPA Magazine.

In this Magazine we will give you as usual an overview of what happened in EAPA, in Brussels, in Europe and outside Europe regarding asphalt in the past months.

At the beginning of this year EAPA Secretariat decided to provide this magazine with comprehensive information two times a year and to keep you regularly updated by a monthly newsletter about the latest news of the industry and EAPA. So, you should already have received several issues of the EAPA Newsletter in the last months.

Furthermore, EAPA is becoming more and more active on the social media on Twitter, Facebook, Instagram and

LinkedIn. Please follow us and support the latest discussions of our industry there with your valuable contributions!

Thank you for supporting the asphalt industry as well as EAPA and, of course, enjoy reading this magazine.

Carsten Karcher
EAPA Secretary General



EAPA NEWS

EAPA SYMPOSIUM 2019 AND EAPA AWARDS

On Wednesday 5 June 2019, former EAPA Secretary General, Egbert Beuving, his family and invited guests, joined the EAPA Symposium Dinner at La Maison des Travaux Publics. The dinner which was also a farewell dinner for Egbert was full of moving speeches of former colleagues, who did not want to miss the opportunity of thanking Egbert, one more time, for all the tremendous work done for asphalt industry over his entire career.

Next day, 6 June 2019, EAPA organised the Symposium 2019 at La Maison des Travaux Publics in Paris (France). Around 100 participants, mainly from Industry and Public Road Administrations attended the event, where they had a great opportunity to interact with the speakers and network with other stakeholders of asphalt industry.



Some of the EAPA Symposium Dinner participants



Egbert Beuving with his wife listening one of the speeches, in this case presented by Gülay Malkoç (ASMUD)



Opening of the Symposium by EAPA President John Kruse Larsen

The event was opened by EAPA President John Kruse Larsen, who immediately after, joined a panel discussion with Steve Phillips, Secretary General, Board of European Road Directors (CEDR) and Breixo Gomez, EAPA Technical Director. The discussions, moderated by an excellent Katrina Sichel, focused on what the future holds for asphalt roads in a changing mobility sector.

After a coffee break, a technical session took place with three interesting presentations:

1. Riccardo Viaggi, Secretary General of the Committee for European Construction Equipment (CECE), stated that the sector missed the train of digitalisation in 2014 with



Panel discussion moderated by Katrina Sichel with John Kruse Larsen (EAPA President), Steve Phillips (CEDR Secretary General) and Breixo Gomez (EAPA Technical Director) (from left to right)

the H2020 programme and now it is behind of other sectors in this regard. Then he presented how, from 1 September 2019, CECE will work on a digital platform for construction.

2. Frank Bijleveld, from the Dutch Strukton Civiel, talked about how Pavement Information Modelling (PIM) has started to provide lifecycle process and performance information for Dutch contractors.
3. Hakan Johannsen, from Trafikverket (Sweden) explained the vision of Swedish Road Authorities of neutral emissions infrastructure and the proposed road map to achieve it by 2045.

After the first technical session, former EAPA Secretary General, Egbert Beuving, who retired in January, gave an inspiring speech about the main achievements of asphalt industry in the last 40 years, as well as some ideas about what is waiting in the future. He also highlighted that in order to push the whole industry forward it is important that the highest number possible of people participate in the EAPA Committees.

The Symposium continued after lunch with the Communication Session, where the participants worked in groups developing marketing/communication ideas, which they had to capture in a poster



Riccardo Viaggi, Secretary General, Committee for European Construction Equipment (CECE)



Frank Bijleveld, Strukton Civiel



Hakan Johannsen, Trafikverket



Egbert Beuving



Participants presenting their ideas during the Communication Session

or clip and present to the rest of attendees. At the end of the session, the participants voted and selected, as the best idea, the #RoadHeroes, whose objective is to change the perception of road users regarding construction and maintenance workers, from annoyance due to traffic disruptions to pride and satisfaction, due to all the benefits they are bringing in terms of safety, sustainability and savings.

The agenda continued with the second technical session, and its two oral presentations:

1. Jean Eric Poirier, Scientific Director of R&D department at COLAS, presented the outcomes of the MURE project on multiple recycling of asphalt roads.
2. Xavier Carbonneau, also from COLAS, presented practical experiences of using asphalt layers in railway tracks in France, especially in high-speed lines, producing significant advantages in terms of durability, maintenance and comfort, which prove that asphalt is not a material only suitable for roads.



EAPA Secretary General Carsten Karcher closing the event



From left to right: Carsten Karcher, Xavier Carbonneau and Jean Eric Poirier

Before closing the event, EAPA awarded Slovenko Henigman President of ZAS (Združenje asfalterjev Slovenije), the Slovenian Asphalt Pavement Association, with the "EAPA Asphalt Advocate 2019 Award", for having demonstrated own initiatives regarding a better asphalt road marketing, the communication of important industry's topics and support to the "Asphalt Advantages" campaign. Furthermore, EAPA honoured Egbert Beuving with the "EAPA Asphalt Advocate – Lifetime Award", as special recognition never awarded before.



Slovenko Henigman, President of ZAS (in the middle), receiving his award (and a special present) from former EAPA Asphalt Advocates Juan José Potti and Horst Erdlen

The Symposium ended with the words of EAPA Secretary General, Carsten Karcher, who thanked the general sponsors (BASF, COLAS and SASOBIT), as well as the sponsor of the dinner (JRS), speakers and attendees, for making possible such a successful event. More information, pictures and presentations can be found at the [EAPA website](#).



Former EAPA Secretary General Egbert Beuving after receiving the EAPA Asphalt Advocate – Lifetime Award

1ST EAPA WORKSHOP ON THE USE OF REJUVENATORS IN ASPHALT MIXTURES

In December 2015, the EU Commission adopted a Circular Economy Action Plan with the aim to set the European Union "on the course of the transition towards a more sustainable model for economic development". The action plan looks at the whole lifecycle of products and adopts a systemic approach that promotes partnerships along the entire value chain and across five priority sectors, among which is the "Construction and Demolition" sector.

In March 2019 the Commission published a Staff Working Document on the implementation of the Circular Economy Action Plan with 54 actions, with several actions affecting the way we will build and maintain the roads in the coming years. Among others, it can be highlighted the proposal for "New/ revised EU green public procurement criteria integrating new circular economy requirements for road design, construction and maintenance".

In this context, Asphalt is one of the best tools for our Administrations to meet such requirements, as at the end of its service life, it can be re-used 100% to build a new road. At the same time, current technologies allow the construction of

new roads with a content of Reclaimed Asphalt up to 90% in hot and warm mixes and 100% in cold recycling.

One of the greatest technological milestones to achieve this was the use of rejuvenators, which, by restoring the flexibility, cracking resistance and rheological properties of the mix, without reducing other important properties, allow the addition of high quantities of reclaimed asphalt in new pavements.

There is nowadays an increasing demand to classify various products on the market as "rejuvenators" and a great deal of research projects on this topic. However, there is not any harmonised method for the assessment and classification of these products. In 2018, EAPA, the European Asphalt Pavement Association, published a Guidance Document where the best knowledge of each country was included, covering different levels, from plant to unit control.

Due to the great feedback received from the industrial community and with the aim of maximising the dissemination and outreach of EAPA's work, the Association organises the 1st EAPA Workshop on the use of rejuvenators in asphalt mixtures.

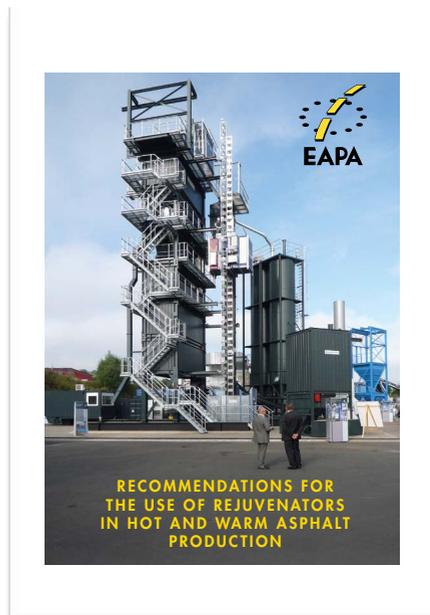
The workshop will start with the presentation of the EAPA Position Paper and then, two main sessions will follow: one with the main outcomes of RILEM TC on Recycling and projects carried out at the main European research centres and another one with the experience of Industrials and Road Administrations from a wide range of European countries. The workshop will end with an interactive session where participants will collaborate in groups.

The event will be held in Padova, beautiful historical city located in North-eastern Italy (30 km from Venice), at the Caffè

Padrocchi (Via VIII Febbraio, n. 15) in the afternoon of 10 September 2019 and the morning of 11 September. After lunch, the 5th International ISAP Symposium on Asphalt Pavements & Environment (APE) will follow, at the Palazzo del Bo (also Via VIII Febbraio, n.2). More info about the ISAP Symposium at: <http://www.isap-ape-2019.org/index.html>.

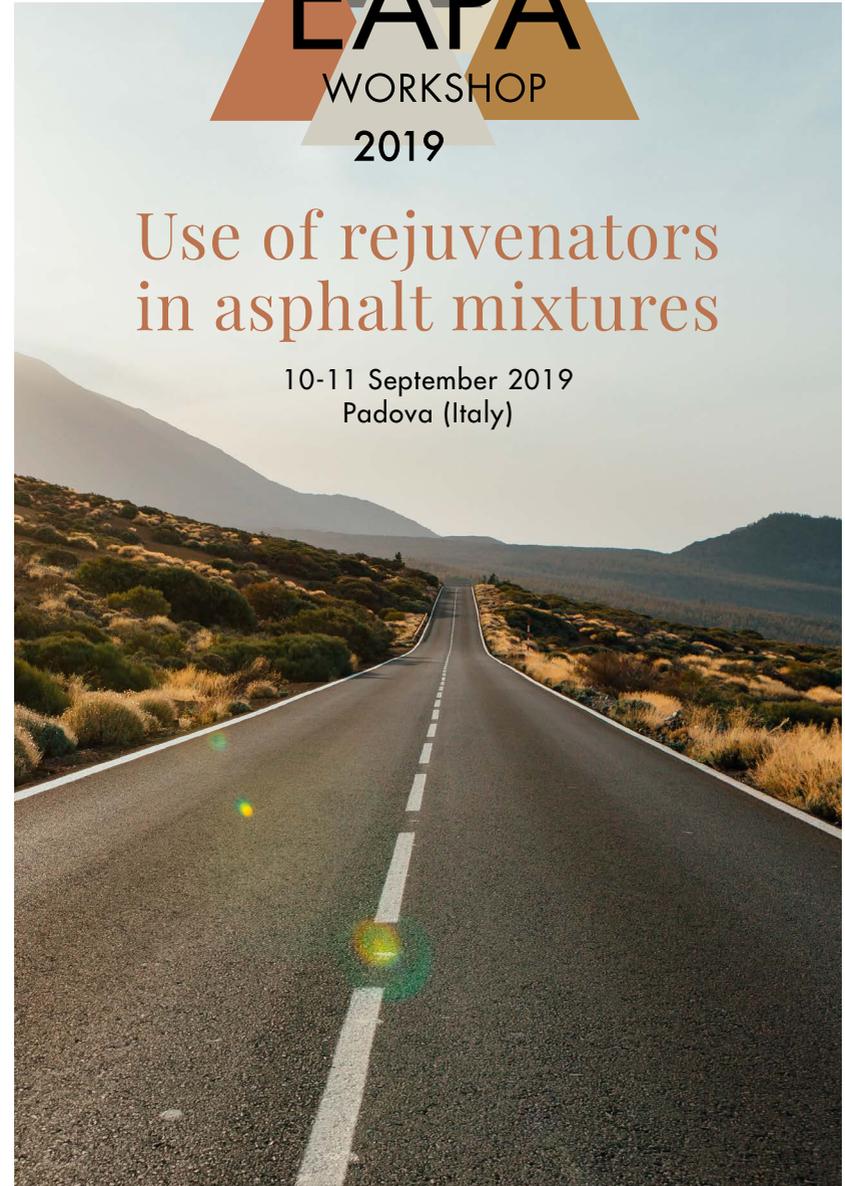
It is possible to register for both events, obtaining a fee reduction.

More info about the agenda, registration and travel tips can be found at: <https://eapa.org/wp-content/uploads/2019/06/Workshop.pdf>



Use of rejuvenators in asphalt mixtures

10-11 September 2019
Padova (Italy)



[CLICK HERE TO LEARN MORE](#)

EAPA COMMITTEES

EAPA GENERAL COUNCIL ASSEMBLY

The last meeting of the EAPA GCA was held in Paris on 5 June 2019.

The first topic consisted on the review and approval finances of last year, as well as the budget for the next one.

The meeting continued with the report from different EAPA Committees:

1. The EAPA Executive Committee.
2. Mats Wendel, Chairman of the Health, Safety and Environmental Committee, reported the topics the Committee is working on at the moment.
3. Breixo Gomez, EAPA Technical Director, reported the work being carried out at the Technical Committee.
4. Carsten Karcher presented the first works and plans of the new EAPA Communications Committee.
5. The decisions adopted during the last meeting of the Asphalt Plant and Equipment Manufacturers Group were also presented by Breixo Gomez.
6. EAPA Secretariat also presented the new structure of the Association, where it is especially remarkable the new Committees for Communication and Asphalt 4.0.

Under the agenda item "Membership issues", each participant had the chance to share topics, concerns, and suggestions, based on new problems arising in their respective countries. Then, the agenda continued by analysing the results of the last E&E Event 2018 in Berlin and by presenting the organisational status of the next EAPA events, i.e. Symposium 2019, E&E Congress 2020 and E&E Event 2022.

Before finishing the meeting, the new EAPA President and Vice-President, François Chaignon (Routes de France) and Juan José Potti (ASEFMA) were elected.



EAPA Members during the GCA

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EAPA JOINT EXECUTIVE COMMITTEE AND DIRECTOR'S GROUP

The last meeting of the EAPA Executive Committee and Directors' Group was held on 9 April 2019 in Brussels. EAPA Secretary General, Carsten Karcher, opened the meeting by presenting the EAPA financial draft results of 2018, as well as the current situation and the budget expected for 2020, which was approved by the Board. He also presented the finances of the Foundation Euroasphalt, which were also approved.

The membership situation and possible strategies to engage more members were discussed, leading to strategic roadmap to be implemented over the coming year.

The Board also ratified Breixo Gomez as EAPA Technical Director and proposed the candidates François Chaignon (France) and Juan José Potti (Spain) for the role of EAPA President and Vice-President for the next period, starting after the GCA meeting in June 2019. It was also proposed that the outgoing President (in this case John Kruse Larsen) will remain involved in the Executive Committee activities and a list of Former EAPA Presidents will be published on the EAPA website, as a kind recognition for their valuable contributions to the Association.

Regarding EAPA communication activities, Carsten Karcher presented the new EAPA Communication Committee, which started its work recently and the new EAPA Newsletter and EAPA Members Info, which both were well received. Juan José Potti also presented the results of the Road Maintenance Day and encouraged EAPA Members to get more engaged in social media.

The Board also decided to set up a new Committee for Asphalt 4.0, which will cover the digitalisation of the paving activities, related to 3 areas: management, customer experience (after construction) and all activities necessary to create a pavement.

After that, the classic round table discussion was carried out, where each member had some time to share important information about their respective countries. Then, Dirk Fincke, Secretary General of European Aggregates Association (UEPG) was invited to present the activities carried out in his association and discuss about EU policies.



Members of the Executive Committee and Directors Group (left) and Dirk Fincke, UEPG Secretary General during his presentation

EAPA HEALTH, SAFETY AND ENVIRONMENT COMMITTEE

The last meeting of EAPA HSE Committee took place on 2 April 2019 in Paris.

Many different topics in the field of "Health" were discussed, such as ongoing studies related to asphalt worker's health, post IARC regulations for bitumen fumes in various countries, potential risks derived from a possible higher sulphur content in bitumen after IMO 2020, and the high incidence of mental health issues detected in UK in the construction sector.

Under the agenda item "Safety", it was agreed to prepare a guidance document for Safety Data Sheets for Asphalt Mixes. Also, important information about the automated inspection during road surfacing was presented, which included its advantages in terms of higher quality, durability, efficiency and safety.

The "Environment items" of the agenda started with the topic of Environmental Product Declarations (EPD) and the latest developments in tendering processes related to activities in road projects aiming to reduce CO₂ emissions. Then, the use of waste (e.g. plastics) in asphalt was also discussed, especially regarding potential risks such as the production of fumes and aerosols, durability reductions or changed recyclability at the end of the pavement service life.

Finally, updates about the results of the EAPA-Questionnaire related to end-of-waste criteria and the main outcomes of the Tyre and Road Wear Particles Platform, in which EAPA is currently active, were given.

The next meeting will take place on 8 October 2019 in Brussels.



HSE Committee 2 April 2019

EAPA TECHNICAL COMMITTEE

The EAPA Technical Committee had its last meeting on 3 April 2019 in Paris.

The busy agenda started with a detailed update about the work of CEN Standardisation Committees TC227 WG1 "Bituminous Mixtures" and WG6 "Sustainability", as well as TC336 WG1 "Bituminous binders for paving". Also, the new work plan for the period 2019-2020 and the agenda for the coming joint EAPA-Eurobitume Technical Committee meeting was defined. In both cases, especial attention will be paid to sustainability and asphalt quality.

The new drafts for the coming publications were discussed. These include:

- Paper on the use of asphalt in railway tracks.
- Future road requirements. In this paper, a classification of roads depending on the level of support they provide to autonomous and electric cars is proposed.
- Digital roadmap of asphalt sector is a publication focused in technologies, such as BIM (or PIM), data storage, machine-to-machine communication, etc.
- Paper on High-performance asphalt pavements, based on the previous

paper on "Heavy-duty pavements", will give also recommendations to meet the needs of future road users, such as electric and autonomous vehicles.

In order to create greater impact by the Association's outcomes, the organisation of an EAPA workshop on the use of rejuvenators was started, which will respond to the interest aroused by the last EAPA guidance paper on "The use of rejuvenators in hot and warm mix asphalt". The workshop is being designed to be attractive for both academics and industrials and high-level speakers from both fields will be invited.

The last updates about the organisation of both EAPA Symposium in June (Paris) and E&E Congress in May 2020 (Madrid) were also presented.

Other topics discussed during the meeting included the use of plastics in asphalt, the future availability and quality of bitumen regarding the coming regulation IMO 2020, and the new environmental issue of the generation of tyre and road wear particles.

The next meeting will be held on 9 October 2019 in Brussels.



TC Committee 3 April 2019

EAPA ASPHALT PLANT & EQUIPMENT MANUFACTURERS GROUP

EAPA Asphalt Plant and Equipment Manufacturers Group met on 1st March 2019 in Paris. In this special occasion, 10 members from the Technical Committee also joined the meeting, with the aim of deciding together a work strategy for the coming years.

The Group decided to focus on hot topics commonly present in the EU high-level meetings and consequent white papers, such as Digitalisation, Sustainability (i.e. circular economy, decarbonisation, etc.) and Health & Safety.

These topics will be addressed in this group from the point of view of asphalt production and will feed the brand new EAPA Committee for Asphalt 4.0. It was also agreed that asphalt plant and equipment manufacturers have already nowadays great technologies that can contribute to previous points but the client is not often aware of them. For this reason, the Group also committed to gather the technologies with greatest impact and promote them better through dissemination activities.

During the technical discussions, an update from the CECE-EAPA working group for Road Equipment Communication Protocol was presented, as well as a series of road digitalisation and BIM technologies. The group discussed about the information items that shall be collected, transferred and stored by stakeholders involved in road construction.

The next meeting will be on 10 October, after the HSE and TC meetings.

NEWS FROM BRUSSELS

INDUSTRY4EUROPE

Following the 2008 financial crisis, millions of manufacturing jobs were lost in Europe, each time bringing dramatic human and social consequences. Nowadays 52 million people and their families throughout Europe benefit directly and indirectly from employment in industrial sectors. In addition, 80% of exportations and 80% of investment in innovation are produced in the Industry sector. Nevertheless, we are still far from the employment levels seen before the crisis and jobs are vulnerable to worrying international trends, including increasing protectionism.

With the aim of campaigning for ambitious Industrial strategy to help EU compete with other global regions – such as China, India and the USA –, the Coalition Industry4Europe was created by gathering EAPA and other 146 organisations from across the EU and spanning most sectors of the economy. The Coalition is helping to the vision for the long-term future of the EU's industrial and manufacturing strategy.

Industry4Europe has published several Joint Papers and Declarations on establishing an ambitious Industrial Strategy. Among these publications, it can be

highlighted the joint call to the Heads of State and Government "Let's put industry at the core of the EU's future!". In this manifesto, the following priorities were listed, as follows:

- Urge the next European Commission to shortlist industry as a top priority of its 5-year Work Programme and appoint a dedicated Vice-President for Industry
- Require the next European Commission to swiftly present an ambitious long-term EU industrial strategy, which shall include clear indicators and governance
- Take stock, each year at the Spring European Council, of progress in the implementation of this EU industrial strategy, and provide political guidance to foster European competitiveness.

The complete version of the manifesto can be downloaded in the different languages of the EU on the following link: <https://www.industry4europe.eu/publications/a-new-joint-call-to-all-heads-of-state-and-government/>

Finally, the Coalition has organised high-level events and round-tables with representatives of EU Commission, Presidency and Parliament.



Meeting organised by Inustry4Europe on 7 March 2019 at the European Economic and Social Committee in Brussels

TYRE AND ROAD WEAR PARTICLES (TRWP) PLATFORM

Plastic and microplastic problems in oceans, on beaches, in organisms and in the food chain have risen great attention from media and general public. However, the scientific knowledge on microplastic (MP) is limited, namely on the emissions to the environment and the impacts of MP.

The European Commission in its recent Plastics Strategy, stated that "microplastics has been found in the air, drinking water and foods like salt or honey, with yet unknown impacts on human health" and that "more research is needed to improve our understanding of the sources and impacts of microplastics, including their effects on the environment and health, and to develop innovative solutions to prevent their dissemination. This can include ways to improve the capture of microplastics in waste water treatment plants, as well as targeted measures for each source."

Tyre and Road Wear Particles are particles composed 50%-50% by dust proceeding from tyres and road wear. It has been estimated that each person in Europe produces around 1 kg of tyre dust per year, which leads to a total production of TRWP in Europe of around

1 Mt per year. They have a usual size range of 1-300 μm and high density (approximately 1.8 g/cm^3) thanks to the presence of mineral products coming from the road. This property makes them "easy" to capture by sedimentation.

Nevertheless, different studies produced alarming conclusions, such as "60 % of all microplastic (MP) emitted to the aquatic environment are TRWP" (EPA of Denmark, 2015).

The generation of these particles is a complex phenomenon highly-related to the properties of the road surface. Hence, it is necessary to target balanced solutions where parameters, such as rolling resistance, are minimised without compromising road safety. Adequate maintenance of road surface has potential impact as it has already been demonstrated that it can reduce fuel consumption and emissions of vehicles through reductions in rolling resistance. Other factors, such as drivers' behaviour, road geometry (curviness, topology, etc.) or weather conditions also affect at high levels.

However, there is, in general, a big lack of knowledge about previous considerations, including the extent of the envi-

ronmental impact, which these particles produce in our ecosystems. In order to contribute to reduce these knowledge gaps, the TRWP Platform was created, where EAPA actively exchanged information with representatives from EU Commission and Parliament, National Authorities, Road Authorities, tyre industry, automotive sector, driving behaviour associations, wastewater sector, universities and NGOs.

The first stage of the Platform meetings started in July 2018 and finished in July 2019 with a high-level meeting where representatives of the EU Commission

DG-MOVE, DG-ENV and Secretariat-General were present. In this final meeting, also a roadmap for the alignment on mitigation options for the reduction of the generation and circulation in the environment was defined. Among such recommendations it can be highlighted, in the short term, the need of funding for research on the relationship between road characteristics (geometry, materials, etc.) and TRWP production. In the mid-long term, the Platform recommended the use of innovative road materials and the improvement of road surface characteristics.



Prof. Martin Jekel, from TU Berlin, explaining the main factors influencing the tyre abrasion rate.



Members of the TRWP

STRATEGIC FORUM ON IMPORTANT PROJECTS OF COMMON EUROPEAN INTEREST

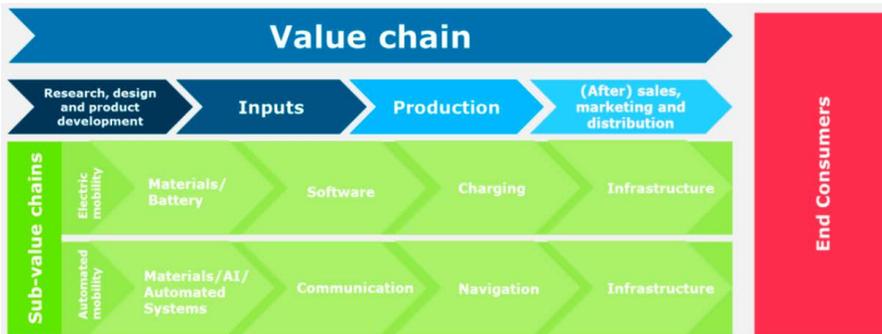
The EU Commission created in 2018 the Strategic Forum for Important Projects of Common European Interest, whose main tasks are: (1) advising the Commission on key value chains in Europe that require joint, well-coordinated actions and investments by public authorities and industries from several EU countries; (2) helping the Commission cooperate and coordinate between public authorities and stakeholders from several EU countries; and (3) helping the Commission monitor progress, reporting on IPCEI-related bottlenecks and obstacles, and proposing solutions to overcome these obstacles.

At the moment, the Forum is taking care of 9 strategic value chains, including "Connected, Clean and Automated Vehicles", where combinations of new technologies and services are being identified to have a large impact on mobility in the coming years and likely have great implications for the European industry and economy. Mobility trends have moved from a state of continued

development to moving differently and this value chain enables to describe the activities, actors, and strategic networking that would allow for this type of "new mobility". Four phases were defined: research, design and product development, inputs to the production process, the actual production and the (after) sales, marketing and distribution.

EAPA is actively involved in the Forum as External Expert, making sure that conversations not only focus on the vehicles but also on the infrastructure necessary to make them a reality. Other participants include Task Force Members designated by the Member States, Members of the EU Commission and other External Experts, such as ANFIA, Ministry of Transport of the Czech Republic or European Aluminium.

After a series of meetings and two workshops in Brussels, the Forum will publish in July 2019 the final report, which will include the progress achieved and recommendations for the future.



DRIVING FUTURE PLATFORM

In October 2016, MEP Ismail Ertug established the Driving Future Platform to foster exchange between policymakers and stakeholders on the complex subject of automated and connected driving. While initially only aiming at the subject of automating, since 2018 the scope is shifting to more general aspects of future mobility: future fuels and powertrains, changing urban mobility and challenges for other modes of transport. In the series of events so far, issues of road safety, liability, data protection, infrastructure and acceptance of autonomous driving in society have been discussed.

Parliament with MEP Ismail Ertug and other collaborators, such as Maja Bakran Marcich, Deputy Director-General DG Move (European Commission), Prof. Dr. Sabina Jeschke, Member of the Management Board of Deutsche Bahn AG for digitalization and technology and Johannes Riedel, COO AIPARK.

In the meeting, it was explained that the pillars of transportation and decarbonisation, digitalisation, investment and innovation. Investment in new, smart and sustainable infrastructure that provides added value for transport network, as a whole, must be a priority. In addition, it was agreed that in this new scenario of digital mobility, data will be the new fuel.



MEP Ismail Ertug introducing the meeting Long distance connectivity: the digital future of mobility at the EU Parliament



Mark Nicklas (DG GROW) presenting the 6+3 key strategic value chains during the Industry4Europe plenary meeting of 18 February 2019



Experts discussing during the 2nd Strategic Value Chain Workshop on Connected, Clean and Autonomous Vehicles held in Brussels in May 2019

ASECAP DINNER-DEBATE AT EUROPEAN PARLIAMENT

MEP Miltiadis Kyrkos (TRAN Committee) hosted on 18 March 2019, at the European Parliament, a dinner-debate on road safety. The event, organised by ASECAP (Association Européenne des Concessionnaires d'Autoroutes et d'Ouvrages à Péage) and titled "Why should we be all involved to save lives?" covered topics related to drivers' distraction and vulnerable road users.

Besides Mr Kyrkos, other personalities, such as Bill Halkias, ASECAP President, Bernhard Lautner, ASFINAG (Austria), Cendrine Nazos, Fondation VINCI Autoroute (France), Claude Van Rooten, PIARC President or Anouar Benazzouz, IRF Vice President had the opportunity to give presentations from their different points of view.

During the event, Bill Halkias and Anouar Benazzouz signed a Memorandum of Understanding between ASECAP and IRF to join efforts on road safety.

Among other conclusions, it can be highlighted that according to EU statistics, there are still 25.500 people who lost their lives in 2016, and 135.000 got seriously injured in Europe. Facts and figures show that 95 % of fatal acci-

dents are caused by human behaviour. Trend of safety improvement is not following Commission expectations. One of the main causes identified so far by the toll road experts is "DISTRACTION" due to the use of mobile devices. There are therefore Actions needed:

- On driver education, awareness
- On people at risk like the employees working on the network to make the road safer who are vulnerable users
- Proposed smart safety solutions on vehicle
- Legislative measures, such as black box inside the vehicle to record to identify the causes of accidents or strengthen the fines for people using mobile phone



MEP Miltiadis Kyrkos during his intervention

EUROPEAN CONSTRUCTION FORUM

FIEC, the European Construction Industry Federation, representing via its 31 National Member Federations construction enterprises of all sizes carrying out all forms of building and civil engineering activities, is leading the European Construction Forum, composed also by EAPA and other 15 Industrial Associations related to construction sector.

The ECF is a platform for cooperation on issues of common interest between independent organisations representing key players in the construction sector and participating on a voluntary basis.

The principal aim of the ECF is the establishment and recognition of a single comprehensive policy approach for the European construction sector through raising the awareness of decision makers at European level to the specific issues affecting the sector as a whole. To this end, the participating organisations strive to arrive at consensual views on issues of common interest. This should lead over time to:

- An increase of the construction sector's direct involvement in the preparation of all EU legislative acts, programmes and actions that have a bearing on the sector

- A more coherent and coordinated approach by the European institutions towards the sector.

After different meetings and reviews, the Manifesto titled "Construction 2050 – Building tomorrow's Europe today" was published, letting know the new EU Commission (after the European elections of May 2019), as well as all stakeholders involved in construction, the principles to promote the sustainable competitiveness of the sector.

The manifesto proposes and summarises a new construction policy framework, a new common European strategy and the list of the main challenges of construction, together with measures to address such challenges and consequent potential benefits.

The main challenges included in the document, such as digital transformation, de-carbonisation, sustainable construction, health and safety, skills and training or infrastructure maintenance and investment, are being already developed at EAPA for the road sector, being hot topics in the Technical Committee, Health, Safety and Environment Committee and in the Asphalt Plant and Equipment Manufacturers Group.



The manifesto is available on the EAPA website and accessible on the following link: <https://eapa.org/wp-content/uploads/2019/06/Construction-2050-Paper-Final.pdf>

CECE MANIFESTO FOR THE EU LEGISLATIVE TERM

On 7th February 2019, the Committee for European Construction Equipment (CECE) organised a public launch event for the CECE elections manifesto. This document, conceived as a call to political action, gathers the EU policies to support after the changes, which will take place within the European Administration after the elections on 26th of May.

According to such manifesto, and in order to achieve a competitive construction equipment industry, the following topics must become key within the new political agenda: Internal market, environmental sustainability, international trade and digitalisation.

CECE President, Enrico Prandini, also proposed the appointment of a Vice-President for Industry within the European Commission, to outline and implement a new and ambitious long-term EU Industrial Strategy. The Association also proposes considering the Industry4Europe coalition join papers in drafting such strategy, the mainstreaming of industrial competitiveness into all EU regulatory decisions, the development of the EU Industry Day and the creation of an European Parliament Intergroup on Sustainable Industrial

Competitiveness, to accompany the work of the Commission and gather relevant stakeholders from across all areas and interests.

Besides the CECE President and Secretary General (Ricardo Viaggi), important members of the EU Administration participated in the event, such as Fluvia Raffaelli (DG GROW, European Commission), Jens Gieseke (MEP, European People's Party), Constantin Apostol (Romanian EU Presidency), Reinhard Bütikofer (MEP, European Green Party), Peter Scherrer (European Trade Union Confederation) and Philippe Citroën (Industry4Europe Coalition).

In general, the presenters agreed about the need for a Vice-President for Industry and key action areas to increase and secure the competitiveness of a sector, which currently presents 40b€ of annual revenues, 300,000 overall employments and 1,200 companies in EU. Some of the most repeated action areas were: Sustainability, circular economy, energy efficiency, research and innovation, digitalisation and the improvement of skills as a mean to add value to our society. In the discussions, the need of

protecting the EU economy against main competitors, such as US and especially China, was also a trending topic.

The European construction equipment industry forms an integral part of the European engineering sector, with 1,200 companies ranging from highly specialised SMEs to large European and multinational companies with pro-

duction sites in Europe. Some of their members, such as Ammann, Caterpillar and Volvo are also involved in EAPA, as Associate Members. They actively participate in the EAPA Technical Committee and in the Asphalt Plant and Equipment Manufacturers Group, bringing to the table topics, such as digitalisation, M2M communication and sustainability in asphalt manufacturing processes.



CECE President, Enrico Prandini, during the Keynote and opening session (left) and Presenters in the Public Launch Event of the CECE Manifesto (right)

EUROBITUME 50TH ANNIVERSARY

On 10-11 April 2019, Eurobitume celebrated its 50th anniversary during the two-day Spring Meeting in Brussels. More than 100 people from member companies and invited friends, such as the members of EAPA Secretariat and Executive Committee, joined them for the celebration.

During the event, a number of former senior Eurobitume team members - including Presidents, Director Generals, Technical Directors and Committee Chairs, as well as former EAPA Secretary General, Egbert Beuving, revisited some of the key industry milestones and deliverables since Eurobitume was founded in 1969.

Then, a panel discussion with EAPA Secretary General, Carsten Karcher, and other representatives from stakeholders, discussed about the future of the sector.

The event finished with a lovely Anniversary Dinner, during which past Presidents of Eurobitume were recognised and diners competed in teams during a featured fun quiz.



Former EAPA Secretary General Egbert Beuving during his intervention



EAPA Secretary General Carsten Karcher during the discussions about the future of road sector

ERTRAC PLENARY MEETING

The European Road Transport Research Advisory Council celebrated their Plenary Meeting on 21 March 2019 in Brussels.

During the meeting, Claire Depré (DG MOVE) and other representatives from the European Commission gave an update about their news and activities, covering specially the timeframe for Horizon Europe Programme and the Cooperative, Connected, Automated and Autonomous Mobility (CCAM) Single Platform. The objective is to improve safety and traffic efficiency, reduce environmental impact and develop EU industry leadership. Nevertheless, the scope is to develop technologies at low TRL levels and leave further developments to the companies developing specific products and solutions. They also highlighted the necessary collaboration between Road Authorities, automotive industry and roads to accelerate the path to automation SAE levels 4 and 5.

From the ERTRAC side, a multi-stakeholder proposal for Road Transport Partnership was proposed within the preparation of Horizon Europe.

During the meeting, different documents were approved, such as the new roadmaps for Connected Automated Driving, where EAPA pointed out that only the development of the vehicles and mobility systems are being considered but not the development of the infrastructure. The next plenary meeting will take place on 3 July 2019 in Brussels.



ERTRAC Plenary Meeting

FEHRL'S FIRM 2019

Between 26 and 28 March 2019, the Association of National Research Centres (FEHRL) celebrated their 30 Anniversary by hosting about 120 experts on Transport Infrastructure Research during the FEHRL Infrastructure Research Meeting (FIRM 2019). These identified research priorities and maintained the positive climate for cooperation between their different institutions.

Participants had over the 3-days event a great opportunity for networking and knowledge exchange. In addition, more than 40 presentations were allocated into nine Sessions, including two Interactive Workshops and a Session Workshop, covering all aspects of current and future needs for research.

EAPA Technical Director, Breixo Gomez, presented during the first session, titled "Fostering Innovation in Transport Infrastructure", a summary of the innovative technologies in the asphalt sector. In his presentation, he acknowledged the past collaborations between EAPA and FEHRL, with especial emphasis on the studies and publications, which correlate the lack of maintenance on road surface with higher fuel consumption and

emissions. He also included developments with impact in each stage of the life cycle of the pavements: Materials, Construction, Service-Life and End-of-Life. Some of these featured technologies included low-temperature asphalt, sustainable materials, digitalisation, self-healing pavements and asphalt rejuvenators. He also presented developments in terms of regulation/standardisation, such as the new Product Category Rules (PCR) for the Environmental Product Declaration (EPD), a document created at EAPA, which served as basis for the future European Standard.



EAPA Technical Director, Breixo Gomez, during his intervention

HIGH CAPACITY ROAD TRANSPORT WORKSHOP

On 7th May 2019, the European Automobile Manufacturers Association (ACEA) organised a workshop on high capacity road transport, focussing innovation on smarter mobility solutions for smarter policies.

The aim of the workshop was to bring together policy makers, industry, researchers and all relevant stakeholders to reflect on how current EU research projects on High Capacity Transport pave the path to a new approach that supports European ambitions.

ACEA Secretary General, Erik Jonnaert, opened the event explaining that Heavy-Duty Vehicles (HDV) are responsible for about 5% of total CO₂ emissions of which only 50% is generated by regional delivery and long-haul transport. In addition, demand for freight transport is expected to grow substantially in the EU over the next few decades. In this scenario, High Capacity Transport (HCT) systems provide a cost-effective solution to reduce fuel consumption and carbon emissions. As an example, he explained that six 16.5m-long trucks would consume 3.5 ml per km and m³ of load.

The same load, transported by three 32m-long trucks could be transported by consuming 2.5 ml/km/m³, with a consequent reduction of 27% of CO₂ emissions. This would also have an impact on health effects (e.g. respiratory diseases).

These are not the only advantages of using HDV, as the number of vehicles necessary to transport a given amount of freight would be reduced. This might contribute to reduce traffic casualties, congestion and infrastructure consumption (road and bridge consumptions per tonne-km of freight or per m³-km of freight). In addition, it would become an effective tool to fight the increasing shortage of truck drivers EU is experiencing nowadays.

Invited speakers, such as Professor Alan McKinnon (Kühne Logistics University), Jerker Sjögren, (International Transport Forum), Karel Kurel (HAN University) and Ben Kraaijenhagen (EUCAR) built on previous ideas, as well as on the effect of these new users on road infrastructures.

The event finished with a round table where Nicolette van de Jagt (European Freight Forwarders Association), Eddy Liegeois (Head of Unit Road Transport, DG MOVE), Loes Arts (Ministry of Infrastructure & Water Management, The Netherlands), Fernando Liesa (Alliance for Logistics Innovation through Collaboration in Europe), Frank Daems (ERTICO) and Sergio Baixauli (Mercadona) discussed about different approaches for HCT, as well as the necessary infrastructure and regulations.



ACEA Secretary General, Erik Jonnaert opening the event and round table of experts during discussions.

RAGTIME PROJECT FINAL CONFERENCE

On 27 June 2019, the RAGTIME project on Innovative Asset Management, held in Brussels its final conference where the main outcomes were presented. The project, led by Tecnalía and funded by the EU Programme H2020, addressed the need of efficient asset management processes to ensure cost-effective planning, delivery, operation and maintenance of large infrastructures. During the project, a whole system planning software platform, based on standard multiscale data models and governance KPIs, able to facilitate the holistic management throughout the entire lifecycle of the infrastructure, was demonstrated and validated.

The event started with an introduction of FEHRL Secretary General, Thierry Goger and DG-MOVE Policy Officer, Rafal Stanecki, who explained the importance of roads within the European transport infrastructure, due to their vast extension (5M km against the 217,000 km of railways or 41,895 km of navigable inland waterways). He also listed the main challenges of the sector, among which can be highlighted the low levels of investment in transport infrastructures (1.8% GDP in 2016), the high degradation due to lack of maintenance and the need of adaptation of infrastructures to

new mobility patterns and technological innovation.

Federico Di Gennaro, Head of Strategic Projects at AISCAT Servizi, explained that most of roads were designed for specific requirements (Standards, traffic flows, user behaviours, vehicles, etc...) but they are currently being used by different users/vehicles and by following different driving behaviours. If we add other issues, such as climate change or new regulations in terms of environment and safety, it can be concluded that a great deal of EU roads could reach soon the end of their service life, as they will no longer meet the requirements they were built for. Therefore, the effective and efficient management of such assets will be crucial over the coming years.

During the technical presentations, it was explained how the project created a digital platform, where the road owners can launch tendering processes based on KPIs, which they select and contractors can address in a transparent way. Then, these KPIs can be monitored along the service life of the road on a BIM-cloud platform, and when a given value gets out of range, the tool assesses the risk and proposes corrective measures.

Finally, they were also presented the results of the practical validation in countries, such as UK, Slovenia and Italy, where the RAGTIME tool showed great potential to extend service life of infrastructures while saving money for the Administrations.



DG-MOVE Policy Officer, Rafal Stanecki, during his intervention

EAPA-EUROBITUME ACTIVITIES

ORGANISATION OF E&E CONGRESS 2020 IN MADRID

The E&E Congress 2020 will take place on 12-14 May 2020, so in less than one year, and its organisation is reaching a busy period. It is being organised by two joint EAPA and Eurobitume committees: the Organising Committee (OC) and the Technical Programme Committee (TPC).

The main items the OC discussed in its latest meeting on 8 May 2019 were the Opening session and the General session (after the Opening session) with invited speakers, the registration fees for congress, the exhibition plan, the budget, and especially the promotion plan.

The TPC had its latest meeting on 23 May 2019 in Madrid. The Committee was very satisfied by the number of abstracts received. In total, more than 400, which were classified under the topics of Future roads and mobility, Binder performance and testing, Asphalt mixture performance and testing, Asphalt production, paving and compaction techniques, Sustainability and Environment, Warm mix asphalt – Low temperature asphalt, Social economy, Health and safety, Maintenance and rehabilitation, Case studies & non-highway applications and Bituminous emulsions.

The Authors of the accepted abstracts have been already contacted and now they are preparing the full-papers for the deadline of 15 August 2019.

The TPC requests the readers to support the reviewing process of the congress papers. Therefore, under the General Data Protection Regulation, it is necessary to sign-up first the consent to be contacted. This can be done in a few seconds on the following link: <https://papers.eecongress2020.org/review-candidate-registration>

If you wish to receive updates of the E&E Congress 2020 you can register on the congress website www.eecongress2020.org by clicking on "Keep me updated".



E&E TPC Meeting



7th E&E CONGRESS

EURASPHALT & EUROBITUME

MADRID 12-14 May 2020
Palacio Municipal de Congresos de Madrid

ASPHALT 4.0 FOR FUTURE MOBILITY



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JOINT EAPA EXCO AND EUROBITUME BOARD OF DIRECTORS MEETING

On 10 April 2019, the Secretariats and Executive Committees of both EAPA and Eurobitume had the opportunity to celebrate a joint meeting, to cover topics, such as Standardisation of bitumen and asphalt products, Health and Safety in road construction works, bitumen/asphalt modifications by recycled waste and by-products or the Product Category Rules (PCR) for the Environmental Product Declarations (EPD) of bitumen and asphalt.

A review of the results of the last E&E (Berlin 2018) and the status of the organisation of the next E&E Congress (Madrid 2020) were also discussed, as well as the financial status of the Foundation Euroasphalt.

Finally, a common EAPA-Eurobitume strategy for the promotion of asphalt was also drafted.



Joint EAPA-Eurobitume Executive Committees meeting

EUROPEAN STANDARDISATION

CEN TC227

CEN TC227 plenary meeting took place by the last time in Madrid, at the headquarters of AENOR, on 25-26 June 2019.

The agenda started with the report from the Chairman's Advisory Group, where the most important news for the asphalt sector is that the Commission released a new version of the roadmap for the implementation of the Construction Product Regulation (CPR) where it is said that estimated time for the citation of EN 13108 series in the OJEU is the 2nd quarter of 2020.

During the meeting, the CEN TC227 Secretary explained some significant changes regarding new CEN procedures, HAS Consultants assessment framework and CPR updates. Also the list of almost 60 active work items was commented, out of which 38 are being developed by WG1 "Bituminous Mixtures".

Then, the respective convenors had the chance to inform about the latest updates of the different Working Groups belonging to the CEN TC227.

WG2 "Surface dressing, sprays and

slurry" is working on a "global and simplified" voluntary test method for the assessment of the quality of surface dressing and slurry surfacing jobsites. They also announced that EAPA President, François Chaignon, is the new convenor of TG1.

WG3 "Materials for concrete roads" is working, among other things, on the revision of EN 13877 series, part 1 "Materials", part 2 "Functional requirements for concrete pavements" and part 3 "Specifications for dowels to be used in concrete pavements". They are also developing new Standards EN 13863-5 "Bond stress of steel dowels" and EN 13863-6 "Splitting tensile strength of concrete at cylindrical discs".

WG4 "Hydraulic bound and unbound mixtures" is at the moment revising EN13286 series, part 1 "General requirements and sampling for laboratory reference density and water content, part 4 "Vibrating hammer", part 41 "Compressive strength" and part 47 "California bearing ratio, immediate bearing index and linear swelling". They are also developing test methods for the permeability and frost susceptibility of unbound mixtures, something

quite common within the normalisation of many European countries but without a Standard at European level.

WG5 "Surface characteristics" is in discussions about Standards EN 13036 parts -1" sand patch test", -5 "Longitudinal evenness parameters or indicators" -6 "Transverse and longitudinal profiles in the evenness and megatexture wavelength ranges" and -8 "Transverse

unevenness indices". Also working on a Technical Specification for the noise assessment of pavements and rolling resistance.

As EAPA is especially active in WG1 "Bituminous Mixtures" and WG6 "Sustainability", the content of these groups was already presented in separated sections of the present Magazine.



CEN TC227 meeting in Madrid

CEN TC227 WG1

CEN TC227 WG1 "Road Materials – Bituminous Mixtures" had its last meeting in Oberbuchsitzen, close to Zürich (Switzerland), on 14 and 15 May 2019.

One of the main topics discussed was the Series of Product Standards EN 13108 (parts 1-7 and 9), which were approved by CEN in 2016 but rejected by the HAS Consultants, preventing them from being cited in the OJEU. As a consequence, such Standards must be used at national level but they cannot be used for CE Marking. The Convenor and former EAPA Secretary General, Egbert Beuving, explained that after the required amendments to align these Standards with the corresponding Delegated Act, it is expected that the Series will be finally cited in the second quarter of 2020.

In addition, the convenor of Task Group 2 explained that, at this moment, 51 test methods in the EN 12697 series have been issued as EN standard and one test method (EN12697-9) was withdrawn.

New test methods that are being developed and have been accepted for Formal Vote on 3 June 2019, are:

prEN 12697-53 "Cohesion increase by spread ability-meter method", prEN 12697-54: "Laboratory curing process for asphalt mixtures with bitumen emulsion", prEN 12697-55: "Organoleptic assessment of compatibility of constituent materials of a mixture with bitumen emulsion" and prEN 12697-56: "Compaction procedure for cold mixtures - Static compaction".

Test method prEN 12697-48 "Interlayer Bonding", is being also developed but due to the expired deadline it got too late for Formal Vote. A new Work Item was approved on 5 March 2019 and will go out for CEN Enquiry again soon.



TC227 WG1 meeting in Zürich-Oberbuchsitzen (Switzerland)

CEN TC227 WG6

The last meeting of TC227 WG6 took place in London in November 2018.

In this meeting, the comments received regarding draft prEN 17392-1:2019 "Sustainability of construction works – Environmental product declarations – Core rules for Road Materials - Part 1: Bituminous Mixtures" were discussed, and the draft was sent out for CEN Enquiry in January 2019. However, the Amended EN 15804prA2 "Sustainability of construction works – Environmental product declarations – Core rules for the product category of construction products" is now at the Formal Vote stage, what could bring citation problems if prEN 17392-1:2019 is published before. For this reason, the group requested a 9-months extension putting the standard on hold, until the results of Formal Vote for EN 15804prA2 are received.

The draft was produced taking as basis the EAPA Guidance Document on the same topic. Nevertheless, this original document had a cradle-to-gate approach, which was necessary to complete as cradle-to-grave, in order to align the standard with the mentioned EN 15804prA2. Once the Standard

is approved by CEN after the eventual Formal Vote, EAPA will also amend the original Guidance Document to align it with the Standard.

In addition, in April 2018, the EU Commission presented the Amended Mandate M124rev1 with stronger requirements regarding the assessment of release of dangerous substances. This is based on the work of TC 351 "Release of dangerous substances in construction products", which is now progressing towards converting TS16637 parts 1 to 3 to EN standards. Although this version of the Mandate was rejected, it is expected that a new similar version will be received soon. For this reason, WG6 will start preparing a draft for the sampling of road materials (especially bituminous materials, surface treatments and hydraulically bound materials), by following a similar draft produced by TC154 WG13 "Aggregates – Dangerous Substances".

At the moment, the group has not decided yet a date for the next meeting, which will take place after the results of the CEN Enquiry are obtained.

CEN TC336 WG1

CEN TC336 WG1 "Bituminous binders for paving" had its 36th meeting on 26 and 27 February 2019 in Athens (Greece).

The status of EN 13924-1 "Hard Paving grade Bitumen", EN 13924-2 "Multigrades Bitumen" and EN 12591 "Paving grade Bitumen" was discussed. As three standards were published by CEN but not cited in the OJEU, they have to be used at national level but they cannot be used for CE Marking. In order to sort out this situation and having into account that the EU Commission will be quite stopped after the EU elections in May 2019, it was decided that the optimum strategy is to go for new a Standardisation Request. Still, it will be difficult to have these standards cited in the OJEU in a period shorter than 2-3 years.

Standard EN14023 "Polymer modified bitumen" is now under systematic review. For more info see next Section CEN TC336 WG1 TG5.

EAPA proposed the creation of a new standard for modified bitumen. Such standard could include different types of bitumen modifiers, avoiding that

manufacturers manage a series of different standards for each of them. Such situation would lead to the discussion, creation and maintenance of a series of standards and, at the same, the manufacturer would not be able to compare different products, as these would be declared in different ways. It was agreed to collect suggestions from the member countries and discuss about it again in the next meeting.

Next meeting will be held on 17-18 September 2019 in Dublin (Ireland).



TC336 WG1 meeting in Athens (Greece)

CEN TC336 WG1 TG5

CEN TC336 WG1 TG5 "Bituminous binders for paving – PMB Standards" had its last meetings on 4 April 2019 in Brussels and an online meeting in late May 2019.

Standard EN14023 "Polymer modified bitumen" is now under systematic review. A first draft was created and the main changes included in the new draft are:

- Addition of new characteristics and test methods to clause 5.2 (MSCRT, Dynamic Viscosity, Temperature sensitivity, Development of visco-elastic properties);
- Deletion of Annexes A (examples of selected classes for a PMB 45/80-60) and B (other voluntary properties);
- Update of clause 6 "Assessment and verification of constancy of performance" and Annex ZA.

After the discussions of the last meeting, a new draft will be produced and distributed for comments in August 2019. Some further amendments will be carried out, with the aim of sending it out for CEN Enquiry in September 2019.

CEN TC145

CEN TC154 WG13 "Aggregates – Dangerous substances" had its last meeting on 10 January 2019 in London (UK).

A series of revised standards were approved by CEN but not cited in the OJEU, as the HAS consultant rejected the new additional levels and classes included in these. The Committee must decide whether they take the route of continue with the Delegate Act along with some 40 DAs associated with standards from other TCs or prepare a new Standardisation Request for the Commission reflecting the actual current content of the standard.

WG13 "Dangerous substances" is now working on the following guidance documents:

- General guidance on how to introduce Regulated Dangerous Substances (RDS) TS 16637:1-3 into TC154 product standards with adequate structure
- Guidance document on how to apply TS16637-3 for aggregates e.g. by using most representative sample to prepare laboratory sample

- Guidance document on the number of eluates and the L/S ratio needed

In addition, Liaison CEN TC351 developed TS to become harmonised standards in the future after further robustness testing. These are: TS1-Selection of leaching test appropriate for each product; TS2-Generic horizontal dynamic surface leaching test for monolithic materials; TS3-Generic horizontal up-flow percolation test for granular materials; and TS4-Assessment of emissions of RDS, determination of emissions into indoor air.

The group is also working on the Product Category Rules (PCR) for the Environmental Product Declaration (EPD) of aggregates.

Next meeting is programmed on 9 July 2019 in London (UK)

OTHER MEETINGS & EVENTS

ASEFMA CONGRESS MAY 2019

ASEFMA, the Spanish Asphalt Pavement Association, held on 22-23 May 2019 its XIV National Meeting in Madrid. This year, the main topic was "Asphalt 4.0, key for the preventive road maintenance and CO₂ emissions reduction".

During the opening session, ASEFMA Executive President Juan José Potti commented that Spain is one of the countries leading the digital transformation of the Asphalt Sector over a process, which started already seven years ago. Maria Rosario Cornejo, from the Spanish Ministry of Public Works, added that the digitalisation of the sector is a priority, as it is behind other sectors. In this regard, she acknowledged the intensive work ASEFMA is carrying out.

After the opening, EAPA Technical Director, Breixo Gomez, presented the latest news of the Asphalt Sector in Europe, as well as an update about the work EAPA is carrying out these days, the new Committee on Asphalt 4.0 and future lines. He also took advantage of the occasion to invite the participants to attend the E&E Congress, which will be also held in Madrid in 2020.

After this, two technical sessions followed on the topics of Digital Transformation and CO₂ emissions associated to the state of road maintenance. New technologies, such as BIM, or advances in construction equipment were presented. CECE Secretary General Riccardo Viaggi also presented the CECE vision for the digitalisation, innovation and sustainability for the period 2021-2028.

During the second day, a series of interesting presentations followed on topics, such as the use of optic fibre for road pavements monitoring and the use of BIM to manage the value chain of road execution.

Finally, a series of awards were granted to:

- The tool ECCO2 (Benito Arnó e Hijos) for the estimation of environmental impact of asphalt mixes
- Eiffage Infrastructures for the best digital initiative within the asphalt sector
- Battle CO₂ LIFE Project for the best sustainable initiative in 2019
- Aida Marzá, Quality Control and R&D at BECSA, for being the most active and influencing person on Twitter during the Event.



Juan José Potti, ASEFMA Executive President and Maria Rosario Cornejo, Spanish Ministry of Public Works, opening the event



Riccardo Viaggi, CECE Secretary General



Breixo Gomez, EAPA Technical Director

BAUMA 2019

During the week of 8-14 April 2019, Munich (Germany) held Bauma 2019, the world's leading trade fair with 614,000 m² of exhibition space for construction, building material and mining machine industry, 3,700 exhibitors from 63 countries and regions and 620,000 visitors from over 200 countries and regions.

The greatest asphalt plants and equipment manufacturers, members of EAPA, such as Ammann, Astec, Bennighoven, Caterpillar, Fliegl, Marini, Vögele and Volvo, presented their latest technologies for the cleaner and safer construction of asphalt roads.

Especial interest received in this edition the latest innovations in robotics, machine-to-machine communication, automation and electrification, which are the starting point for the coming era of asphalt digitalisation, or as it is better known, Asphalt 4.0.

In this regard, the members of the CECE-EAPA working group for Road Equipment Communication Protocol, had the chance to meet at Ammann's Visitors Centre and discuss about a common standard and protocol for machine-to-machine communication.



Robotic and electric truck by Volvo (left) and Robotic roller compactor by Fayat (right)



Meeting of CECE-EAPA working group for Road Equipment Communication Protocol



Caterpillar electric handlers and loaders



Visitors centre and asphalt plants of Wirtgen Group (left) and Ammann (right)



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UPCOMING CONFERENCES & CONGRESSES

18TH AAPA CONFERENCE AND EXHIBITION

The 18th AAPA International Flexible Pavements Conference & Exhibition will be held on 18-21 August 2019 in Sydney, Australia.

The deadline for presentations without paper is 31 January 2019.

More information can be found at www.aapa.asn.au



CAPSA '19

The 12th Conference on Asphalt Pavements for Southern Africa – CAPSA'19 – will be held from 13-16 October 2019 at Sun City, South Africa.

The deadline for Abstract submission for proposed papers is 28 June 2018.

More information can be found on the CAPSA'19 website: www.capsaconference.co.za.



26TH WORLD ROAD CONGRESS (PIARC)

The 26th WORLD ROAD CONGRESS, also known as the PIARC Congress, will be held on 6-10 October 2019 in Abu Dhabi.

More information can be found at the Congress website:

www.piarcabudhabi2019.org



CONFERENCE ASPHALT PAVEMENTS 2019

On 26-27 November 2019 the Conference Asphalt Pavements 2019 will take place in České Budějovice, Czech Republic with the title: "Asphalt pavements – the way to the black future". The deadline for submitting abstracts is 31 January 2019.

More information can be found at:

www.asfaltove-vozovky.cz/en/



17TH COLLOQUIUM ASPHALT, BITUMEN AND PAVEMENTS

On 27-29 November 2019 ZAS will organise its 17th Colloquium Asphalt, Bitumen and Pavements, which will be held in Bled in Slovenia.

More information can be found at:

<http://zdruzenje-zas.si/kolokvij/en/>



E&E CONGRESS 2020

The Eurasphalt & Eurobitume Congress 2020 will be held on 12-14 May 2020 in Madrid.

More information e.g. about paper submission and congress venue can be found at www.eecongress2020.org.



27TH WORLD ROAD CONGRESS

The 27th World Road Congress will be held in Prague (Czech Republic) in October 2023.

More information about this 27th PIARC Congress can be found at the official website <http://www.wrc2023prague.org/>



EAPA EVENTS LIST

2019

JULY

3 Jul ERTRAC plenary meeting

AUGUST

18-21 Aug AAPA Conference & Exhibition in Sydney, Australia
 19 Aug CEN TC336 WG1 TG5 meeting
 21 Aug Joint EAPA and Eurobitume Communications Committee meeting

SEPTEMBER

10-11 Sep EAPA Workshop on the use of rejuvenators in asphalt mixtures in Padua
 11 Sep E&E Congress 2020 Organising Committee meeting in Madrid
 17-18 Sep CEN TC336 WG1 meeting in Ireland

OCTOBER

8 Oct EAPA HSE Committee meeting in Brussels
 8 Oct Technical Programme Committee E&E Congress 2020 in Madrid
 9 Oct EAPA TC meeting in Brussels
 10 Oct EAPA AP&EM Group meeting in Brussels
 13-16 Oct CAPSA 2019 in Sun City, South Africa
 15-16 Oct CEN TC227 WG1 meeting in Ireland
 17 Oct Global Asphalt Pavement Alliance meeting in Sun City, South Africa

NOVEMBER

5 Nov Joint EAPA ExCo & Directors' Group in Birmingham, UK
 11 Nov World Road Day
 12-13 Nov CEN TC336 meeting in Brussels
 19 Nov CEN TC227 WG1 in Delft, The Netherlands
 26-27 Nov Conference Asphalt Pavements 2019 in České Budějovice, Czech Republic
 27-29 Nov 17th Colloquium Asphalt, Bitumen and Pavements in Bled, Slovenia

DECEMBER

3 Dec Technical Programme Committee E&E Congress 2020 in Madrid

2020

JANUARY

- 20-21 Jan E&E Congress 2020 Organising Committee meeting in Madrid
- 28 Jan E&E Congress 2020 Technical Programme Committee in Madrid

FEBRUARY

- 2-5 Feb NAPA Annual Meeting, Hawaii, USA
- 12-14 Feb DAV Asphalttage in Berchtesgaden, Germany

MARCH

- 10-11 Mar CEN TC336 WG1
- 24 Mar EAPA HSE Committee meeting
- 25 Mar EAPA TC meeting
- 31 Mar EAPA General Council Assembly and Joint EAPA ExCo & Directors' Group Meeting in Paris

MAY

- 6-7 May CEN TC227 WG1 meeting in London
- 12-14 May E&E Congress 2020 in Madrid
- 26 May CEN TC227 WG7 Chairman's Advisory Group

OCTOBER

- 20-21 Oct CEN TC227 WG1 meeting in Copenhagen

COLOPHON

TEXT

Breixo Gómez-Meijide, Carsten Karcher

LAYOUT

Window Stories

PICTURES

Egbert Beuving, Helga Beuving,
Breixo Gómez-Meijide, Carsten
Karcher, iStock, Adobe Stock

EAPA MEMBERS

 <p>Asefma</p>	 <p>Asfaltindustrien</p>	 <p>ASMUD - Turkish Asphalt Contractors Association</p>	 <p>Croatian Asphalt Association</p>
 <p>DAV - Deutscher Asphalt Verband e.V.</p>	 <p>EBA</p>	 <p>Eesti Asfaldiliit</p>	 <p>HAPA - Hungarian Asphalt Pavement Association</p>
 <p>IAPA - Irish Asphalt Pavement Association</p>	 <p>Infra Contractors' Association</p>	 <p>MPA - Mineral Products Association</p>	 <p>NCC AB</p>
 <p>Peab Asphalt AB</p>	 <p>Sdružení pro výstavbu silnic Praha</p>	 <p>Routes de France</p>	 <p>ZAS - Združenje asfalterjev Slovenije</p>

ASSOCIATE MEMBERS

 <p>ABZ-1</p>	 <p>Ammann Group</p>	 <p>ASTEC</p>	 <p>Benninghoven</p>	 <p>BASF We create chemistry</p>
 <p>Caterpillar Paving Products Inc.</p>	 <p>CFF</p>	 <p>CRH plc.</p>	 <p>DuPont CZ s.r.o.</p>	 <p>Genan</p>
 <p>Ingevity</p>	 <p>Fliegl Bau- und Kommunaltechnik GmbH</p>	 <p>J. Rettenmaier & Söhne GmbH & Co</p>	 <p>Kraton Polymers Nederland B.V.</p>	 <p>Marini</p>
 <p>Ruthman</p>	 <p>Sasol Wax</p>	 <p>Selenizza</p>	 <p>Turkish Petroleum Refineries Co.</p>	 <p>Vialit</p>
 <p>Vögele</p>	 <p>Volvo Construction Equipment</p>	 <p>Zydex</p>		

