



EAPA MAGAZINE ISSUE 47 - MAY 2021

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INTRODUCTION



Dear EAPA members, dear Asphalt friends,

Welcome to the 47th issue of the EAPA Magazine, I strongly hope that it finds you well.

Since more than one year we all have been living with the COVID-19 crisis and our world has changed in many ways. One important change is that travelling is very much restricted or simply not allowed. So, we have been virtually meeting on video calls and we will continue in the nearer future, also for the 7th E&E Congress, which for the first time, will be held as a virtual edition. In this magazine we try to provide you with all the relevant information you need for this extraordinary event. On behalf of the organisers, and EAPA is one of them as you might know, we are happy to announce that already more than 500 participants and more than 40 exhibitors have registered. I really want to say 'thank you very much' to all sponsors, exhibitors and participants for their participation and support. EAPA is really looking forward to this new experience and to virtually meeting all of you in this congress.

For the first time, the EAPA Asphalt Advocates have a section in this magazine, which is called the Asphalt Advocate's Corner. For this, all five advocates together have prepared a message for you and the asphalt industry. We are proud of our advocates and thank them for their contribution and we hope to hear regularly from them in their corner.

I really hope you enjoy reading this magazine and participating in the E&E Congress 2021 safe from home.

Carsten Karcher
EAPA Secretary General

EAPA MAGAZINE OPEN FOR ADVERTISEMENTS NOW!

EAPA has currently released issue 47 of its Magazine. It started out as a Newsletter and grew out to becoming a full Magazine (30+ pages) over the years, as the popularity and number of readers grew. The EAPA Magazine goes out to the EAPA Members and Asphalt friends that have subscribed for EAPA information. The Magazine is sent via email as digital document to almost 2,000 subscribers. The Magazine is also placed on the EAPA website and information about the Magazine is shared on EAPA's social media channels such as Twitter, LinkedIn and Facebook. The Magazine is free of charge for the readers. Only EAPA Members and members of EAPA members have the opportunity to advertise in the magazine. The size of the magazine is 210 x 297 mm and you can purchase full page or half page adverts.

Next releases in 2021 are planned for:

Issue No.	Release Date	Advertising Deadline
#48	09 July 2021	25 June 2021
#49	12 November 2021	29 October 2021

For more information and costs please contact EAPA Secretary General Carsten Karcher.

[E-Mail](#)



Do not miss the opportunity to include your ads in the EAPA Magazine and reach almost 2,000 subscribers in the paving sector around the world!

7TH E&E CONGRESS 2021

ONLY 4 WEEKS TO GO

From 15 to 17 June 2021 the 7th edition of the E&E Congress will be held. The organisers EAPA and Eurobitume kindly invite you to participate and to give your contribution to a successful virtual congress.

Again, it will provide outstanding content and possibilities:

- Hear the latest news about the Asphalt industry from top international speakers.
- Meet fellow professionals and colleagues from all around the world.
- Gain new inspiration and insights about Bitumen and Asphalt and the congress theme Asphalt 4.0.
- Access great e-posters about the congress strategic themes.
- Network with the industry's leading companies in the virtual exhibition hall.

Enjoy live sessions, safe networking, high-level and breakthrough research & technology. Plus, you will have access to all sessions on-demand during and after the event! All the content will be available for 3 months (until 15 September 2021). Get all the necessary information on the E&E Congress Website

[Congress Website](#)

REGISTRATION

The registration is still open and includes:

- Access to the virtual congress platform to participate in all sessions,
- Access to the virtual exhibition as well as the poster area.
- Access to the congress proceedings
- Virtual congress bag
- Certificate of attendance

- Access to all the content on-demand for 3 months after the Congress

Registration

STANDARD - VIRTUAL CONGRESS	
Full access registration	575 €
Student*	50 €
University academic Staff / PHD**	400€

21% VAT Included

*Students are required to provide proof of status

**University academic Staff / PHD are required to provide proof of status

The programme will be presented in two parallel virtual auditoriums, accompanied by posters and trade exhibitions, also in allocated virtual rooms. The Opening and Closing Sessions, as well as the Sessions on Communication and Future Leaders will be presented live. In the Technical Sessions there will be sufficient time for questions and answers to the Speakers and all along the Congress, you will be able to chat or video chat with authors and other participants anytime. This will bring many opportunities for interaction, bringing the Congress close to a face-to-face event. Before and after the programme there is still room for a personal exchange, to visit the exhibition and to attend commercial events of the sponsors.

The technical programme has been prepared by the E&E Technical Programme Committee (TPC) since 2018. Among other things, the TPC ensured that all the received papers were subjected to a strict double peer review. As a result, in this edition of the Congress, more than 280 high-quality papers will be presented in either oral or poster sessions.

The final programme, which is available on the Congress website, sorts the above-mentioned publications into the following technical sessions, each of them with 6 oral presentations:

- Future roads & mobility
- Binder Performance and Testing (Part 1 and 2)
- Asphalt Mixture Performance and Testing (Part 1 and 2)
- Bituminous Emulsions
- Health & Safety
- Sustainability & Environment
- Asphalt Production, Paving and Compaction Techniques
- Warm Mix Asphalt / Low Temperature Asphalt
- Case Studies & Non-Highway Applications; Success and Failure from Real
- Maintenance and Rehabilitation

Check the interactive Programme on the website for more information on speakers, topics and to get the abstracts!

Programme Timetable

The e-posters of the congress will be available over the 3 days of the Congress in the virtual posters room. Moreover, on the second day of the Congress, a specific poster session will be organised, in which the Authors of the posters will be especially available to respond any question related to their work.

OPENING SESSION AND CONGRESS THEME "ASPHALT 4.0 FOR FUTURE MOBILITY"

The Opening Session will be an interactive session that will inform participants about the overall theme of the congress "Asphalt 4.0 for future mobility". Facilitated by a professional moderator, experts will discuss the various aspects of "Asphalt and Industry 4.0": General overviews regarding digital transformation, digital transformation for

the asphalt industry, its implementation, and the view of road authorities.

After a welcome of the Mayor of Madrid and the Eurobitume President, four keynote speakers will give short presentations and will participate in a panel discussion.

- Enrique Benayas (Director General ICEMD - El Instituto de Economía Digital de ESIC Business & Marketing School, Spain)
- Juan José Potti (President ASEFMA and Vice President EAPA, Spain)
- Claude Le Noan (Manager Industrial Projects, Eiffage Group, France)
- Steve Phillips (Director General, Committee of European Road Directors - CEDR, Belgium)

The objective is to ensure that the audience understands how the future of roads paving and roads could look like for the digital age. Congress participants will have the possibility to raise live questions to the panel.

Get further information on

What is Asphalt 4.0

FUTURE LEADERS SESSION

Asphalt and bitumen industry are nowadays undertaking a series of initiatives to boost the engagement and impact of the young professionals, which one day will become the next generation of Managers.

Hence, by the first time in history, the organisation of the Congress decided to grant complimentary Delegate Passes for Future Leaders, which were selected according to a series of requirements, such as not having participated in an E&E Congress or Event before, having less than ten years of work experience in the industry, not being currently in a management role, demonstrating potential to progress into a future management role and submitting an application endorsed by their senior manager.

PROGRAMME AT A GLANCE

TUESDAY, 15 June 2021

TIME/ROOM	AUDITORIUM 1	AUDITORIUM 2
12:30 - 14:00	Opening Session	
14:00 - 14:30	Coffee Break	
14:30 - 16:00	Technical Session: Session 2A Future Roads and Mobility	Technical Session: Session 2B Binder Performance & Testing #1
16:00 - 16:30	Coffee Break	
16:30 - 18:00	Technical Session: Session 3A Asphalt mixture Performance & Testing #1	Session 3B Communications Workshop

WEDNESDAY, 16 June 2021

TIME/ROOM	AUDITORIUM 1	AUDITORIUM 2
10:30 - 11:00	Commercial Session: Decarbonisation & Circular Economy – Implications and opportunities for bitumen and asphalt pavements	
11:00 - 11:30	Commercial Session 3 Why? How? and What? - Highly Modified Asphalt	
11:30 - 12:00	Commercial Session: ReLIXER®: A Market Leader in RAP Rejuvenation Technology	
12:30 - 14:00	Technical Session: Session 4A Asphalt Mixture Performance & Testing #2	Technical Session: Session 4B Bituminous Emulsions
14:00 - 14:30	Coffee Break	
14:30 - 16:00	Meet the authors - Poster Session	
16:00 - 16:30	Coffee Break	
16:30 - 18:00	Technical Session: Session 5A Binder Performance & Testing #2	Technical Session: Session 5B Health & Safety

THURSDAY, 17 June 2021

TIME/ROOM	AUDITORIUM 1	AUDITORIUM 2
11:00 - 11:30	Commercial Session: Secondary resources – A sustainable solution to highest performance in asphalt	
11:30 - 12:00	Commercial Session: One world, one road, one concept: infraTest!	
12:30 - 14:00	Technical Session: Session 6A Sustainability & Environment	Technical Session: Session 6B Asphalt Production, Paving and Compaction Techniques
14:00 - 14:30	Coffee Break	
14:30 - 16:00	Technical Session: Session 7A Warm Mix Asphalt/ Low Temperature Asphalt	Technical Session: Session 7B Case Studies and Non-Highway Applications; Success and Failure from Real Practice
16:00 - 16:30	Coffee Break	
16:30 - 18:00	Technical Session: Session 8A Maintenance & Rehabilitation	Session 8B Future Leaders Session
18:00 - 18:15	Closing Session	

In addition, the E&E Congress will have this year a specific session dedicated to these Future Leaders. This session, allocated at the end of the third day, will offer a discussion platform to exchange views and hear insights on shaping the future of the sector, from the point of view of potential future managers.

All the participants in the E&E Congress 2021 are invited to join the workshop and discuss the future leaders' insights on topics, such as:

- Perceptions on their initial experience within the industry
- Expectations from their career, ambitions, and personal rewards
- What they value in a working environment
- How they relate the industry and their role to the congress theme (Asphalt 4.0 for future mobility)

THEME OF THE CONGRESS – ASPHALT 4.0 FOR FUTURE MOBILITY

Over the last years, the asphalt industry got its own digital revolution, hand in hand with the latest developments in robotics, machine-to-machine communication, sensors and IoT (Internet of Things), big data, artificial intelligence, and many others. These new technologies have a huge impact on the asphalt industry itself. They are a contribution to and improving almost every aspect of asphalt production, asphalt paving and asphalt maintenance. This was recognised in the theme of the congress: Asphalt 4.0.

The digitalisation in the asphalt sector has already and will continue to improve areas such as production efficiency and the asphalt paving process including its quality control. Next to that, it will also contribute to delivering a high-quality customer experience during every stage of the road's service life, in a smart, connected, and synergetic way. The continued integration of digitalization into industry practices, the need to create better connectivity and data exchange platforms, and the general ambition overall to offer sustainable solutions

will play key roles!

Digital transformation of road paving refers to a series of smart and autonomous systems driven by big data, machine learning, artificial intelligence, etc. with the capacity to significantly push forward the efficiency, productivity, quality, reliability, and sustainability of asphalt roads. This involves the use of digital tools to automate, monitor, and improve the way, in which the industry develops conventional activities, such as management, manufacturing of bituminous mixtures, supply, or laying. This theme of the congress will be the red thread for the interactive sessions of the congress and will be discussed in many technical sessions.

VIRTUAL EXHIBITION AND SPONSORS

More than 40 exhibitors will present their products and services in the virtual exhibition halls. A virtual visit to the exhibition booths is possible, including chat, video chat, taking over documents from the exhibitor, viewing videos or handing over your own digital business card.

The Organising Committee and the Congress Secretariat would like to thank all sponsors and exhibitors for their great support and especially want to acknowledge the importance of their continued commitment, which has enabled us to successfully reschedule the Congress as a virtual edition for 2021.

There are still possibilities to participate in the exhibition with your company's booth. Simply check the Sponsorship and Exhibition Manual on the E&E Congress Website.



EAPA will also have a booth at the virtual exhibition of the congress. There, we will inform you about our latest videos in the EAPA YouTube channel, the latest publications, our everyday work and how to become a member. So, it is definitely worth a visit!

ACKNOWLEDGEMENT EXHIBITORS

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FURTHER CONGRESS INFORMATION

In order to help you with the most common questions about registration, programme and e-posters, technical requirements, and exhibition, a Frequently Asked Questions - FAQ section on the website has been created. Please visit our Frequently Asked Questions page to learn more about the virtual congress format:

Please get connected to the social media of the congress and use the hashtag of the congress #ee-congress2021 for your communication. If you use this hashtag your tweet will be displayed on the website of the congress.

If you still would have any questions or need to contact the Congress Secretariat, please do so on:

[Q&A](#)

[Contact us](#)

There are many possibilities to interact during the upcoming E&E Congress. Look at the video below to find out how to contact your colleagues, speakers, and exhibitors thanks to live chats and other features:

[Video](#)

DISCOVER MADRID

As the E&E Congress 2021 was originally planned in Madrid, we have decided to maintain some of the Spanish flavour into the overall virtual experience. Visit virtually the main museums and most symbolic buildings of Madrid in order to enjoy this culture from home. The capital city gathers most of the best art museums in Spain, some of them internationally recognised with great prestige. Thanks to the virtual visits you can continue enjoying the masterpieces and discover new corners of the city.

Further general information about the congress can be found in the video "7 reasons to join us online":

[7 reasons to join us online](#)

[Discover Madrid in a different way!](#)

SHARE, RE-TWEET AND TALK TO US ON ANY CHANNEL



#EEcongress2021

EAPA TECHNICAL TALK ON SUSTAINABILITY ASSESSMENT

Over the last years, EAPA has become more and more active on various communication channels like website, magazine, newsletter and social media and has organised digital events, such as the Webinar on Sustainability Assessment of Asphalt Pavements.

Additionally, the Association has just launched a new initiative consisting of digital talks or interviews, with the aim of providing relevant topics for or from the industry.

The first Talk was carried out between EAPA Technical Director Breixo Gomez and Professor Davide LoPresti, Coordinator of the Research Project PavementLCM (Life Cycle Management of Green Asphalt Mixtures and Road Pavement), funded by the Conference of European Directors of Roads (CEDR).

EAPA and PavementLCM co-organised the above-mentioned webinar on Sustainability

Assessment of Asphalt Pavements on 16-17 December 2020, obtaining great feedback and creating a high impact with more than 160 participants from 35 different countries across the world.

In this talk, both organisers summarise what happened over those 2 days and what were the main outcomes and highlights. In addition, they also discuss possible ways forward to continue this exchange platform for stakeholders meeting on a regular basis.

[Watch the video](#)

All the information of the Webinar and videos of the presentations can be also found on the following link:

[Webinar page](#)



Davide LoPresti and Breixo Gomez

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EAPA MAGAZINE ISSUE 47 - MAY 2021

THE EAPA ASPHALT ADVOCATES' CORNER

Dear EAPA members, dear friends of the asphalt industry, dear valued guest readers,

For the first time ever in EAPA's history and in the history of the EAPA Magazine we the Asphalt Advocates are honored to get a special place here to talk about our view on the asphalt industry. The past – the present – the future ... we will try to cover them all not just in this edition but also in the many coming ones.

First, please let us introduce ourselves to you. EAPA started Asphalt Advocate of the Year award back in 2017. The motivation was to recognize and honor members of the industry who constantly raised and continue to raise their voice for the sake of asphalt in Europe and around the globe. The decision is made by the members of the board of directors of EAPA based on broad criteria. Consequently, we – the EAPA Asphalt Advocates of the Year have so far been selected:

2021	#5	Susann Gross-Matthäi from Germany
2020	#4	Malcolm Simms from the UK
2019	#3	Slovenko Henigman from Slovenia
2018	#2	Dr. Juan José Potti from Spain
2017	#1	Horst Erdlen from Germany

Each of us received the award with pride and promised EAPA and the asphalt industry to continue with our full strength and of course loud voice to spread the message of all the benefits of asphalt around the globe.

EAPA Secretariat recently send an internal survey, based around 5 simple questions:

1. What is your EAPA history?
2. When was your first contact with EAPA?
3. Why is an association like EAPA needed?
4. What is the biggest challenge for the asphalt industry?
5. Why will the asphalt industry have a bright future?

You will have the possibility to read the answers of the experts that have responded so far on the EAPA Website soon.

In addition, guess what – of course the EAPA Secretariat has asked us, the Asphalt Advocates, the same 5 questions too.

For us and most probably for all of you, questions number 4 and 5 are the most interesting and exciting ones, so we have decided to summarize our Asphalt Advocates' answers and present our view of the biggest challenges and our bright future in the first EAPA Asphalt Advocates' Corner in the EAPA Magazine.

Let us have a look at the biggest challenge(s) for the asphalt industry first:

As an Industry we need perpetual progress. Digitalization and digital transformation – or as Juan José likes to call it Asphalt 4.0 – is one of the biggest challenges we already face. But surely, we should see it as a great opportunity.

Our roads need to be durable, sustainable, economical, environmentally friendly. They need to fulfill the expectations of the public regarding safety, comfort, noise reduction, lower energy consumption and reliability. This is what our industry has been offering with first class asphalt pavements for many years. However, what we see as the next biggest challenge, is: Does the public know that we are the good guys in delivering for their needs? Are the people aware of all the advantages, benefits and added values asphalt construction offers? Are we loud enough? The answer unfortunately is: "No"! Therefore we need to raise our voices and become louder. We need to significantly improve our collective PR and marketing efforts. AND here we need YOU! You are part of the asphalt industry so please support our efforts and we can look to help yours. Any ideas and input are very welcome.

There is another reason why we need to raise our voices:

It is important to let the younger generations know about the value of asphalt. Our industry is much more than just black toppings – our industry is a high-tech industry offering so many opportunities for young engineers and students, so that they become the engineers and experts of the future. We need to establish a HR culture to attract the young generations to join our industry.

Our industry has a bright future that is crystal clear to us Asphalt Advocates:

Mobility and travel are an important part of human nature and because of that, we will always need sufficient infrastructure. Asphalt offers solutions

for all the challenges of a modern infrastructure even in the future. As Dr. Carsten Karcher once said: “We build the roads today for the children of our children”. Talking about the future generations it is essential that we also talk about environmental issues. Asphalt rare as a construction material that can be re-used and recycled at a rate of 100%. We also have been using technologies to reduce emissions, save energy and conserve resources. For our industry building to protect the future - on every day of the week - started long before the world listened to the words of movements to save our planet. On top of all that: innovation will never stop in our industry so if you are ready for a bright future – RAISE YOUR VOICE – be an EAPA Asphalt Advocate!

THE ASPHALT ADVOCATES



Asphalt Advocates

EAPA COMMITTEES

EAPA SPRING COMMITTEES

EAPA held the Spring 2021 Committee meetings on 16-18 March 2021. By the third time in a row, and due to the persisting pandemic situation, this 3-days event was organised online, which on the bright side, made possible the participation of more EAPA Members.

DAY 1: HEALTH, SAFETY AND ENVIRONMENT

As usual, the first day was reserved for the discussion of topics related to Health, Safety and Environment. HSE Committee Chairman Mats Wendel opened the meeting with a roundtable, during which Members explained the current Covid-19 situation in their respective countries and presented the measures being taken in the paving sector to maintain the production and keep functioning under safe conditions for the workforce.

After that, the reports from different EAPA Task Forces were presented. It can be especially mentioned the considerable effort that the Task Force on Life Cycle Assessment is currently making in support of CEN TC227 WG6 for the development of the European Product Category Rules (PCR) for the Environmental Product Declarations (EPD) of Asphalt Mixtures.

In addition, EAPA Technical Director Breixo Gomez explained the status of the collaboration with the American National Asphalt Pavement Association (NAPA), which is currently developing their own PCR for the EPD of asphalt mixtures in USA.

The main outcomes of the joint EAPA-Eurobitume meeting, which in December 2020 gathered the HSE and Technical Committees of both Associations, were also commented. EAPA Members expressed their tremendous satisfaction with this annual initiative, which was organised in 2019 and 2020 and which is intended to continue over the coming years.

After reviewing the latest publications and the outcomes of current research projects on Health, Safety and Environment in the asphalt industry, a series of other topics were also covered. For example, the road workers safety campaigns, which are being carried out in different countries.

One of the main discussions of the day was related to the conflictive end-of-waste criteria for the site-won asphalt in Europe, which in many cases, depending on the country, can be one of the main barriers for the greater use of this material, which is 100% re-usable and recyclable. The Committee reviewed the current situation and discussed possible ways forward to further increase circularity in the paving sector.

DAY 2: TECHNICAL TOPICS

The second day of the meeting, chaired by the Chairman of the EAPA Technical Committee, Knut Johannsen, was particularly focused on the technical aspects. Hence, the agenda started with the report from the EAPA Task Forces on Re-use of Reclaimed Asphalt and Warm Mix Asphalt.

The EAPA Task Force on Re-use of Reclaimed Asphalt has been working for one year and a half along numerous action lines, such as the identification of regulations, which make difficult the re-use of asphalt, the precise definition of terms such as “asphalt re-use”, “asphalt recycling”, RAP vs RA, etc., collection of end-of-waste criteria across Europe, exchange of information and best practices, impact of the use of RA in the LCA of new mixes or the re-use of reclaimed asphalt in mixes elaborated at low temperature. Currently, the work is focused on the communication of all the information collected and produced, which will be soon released in the form of a report for Members Only and a series of publications and videos addressing different stakeholders and general public.

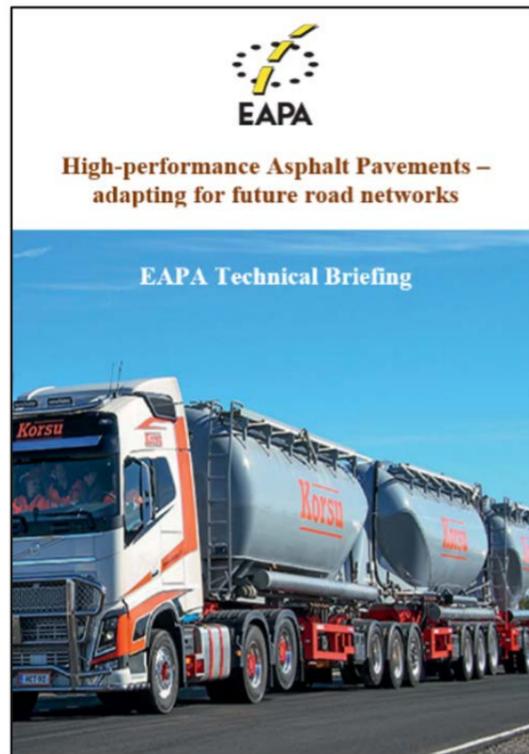
The EAPA Task Force on Warm Mix Asphalt started its activity much more recently, in November 2020, and aims at finding a common understanding / position in EAPA on the use of this material. The TF Members are currently working on a comprehensive report for Members Only and an update of the EAPA Position Paper on WMA from 2014. In addition, a series of documents will be created addressing different stakeholders, such as Road Administrations, Industrials and EU Administrations.

EAPA Technical Director Breixo Gomez also presented the analysis of the data published in the well-known EAPA annual publication "Asphalt in Figures", which was released in December 2020 and is available on the EAPA website. Members celebrated the excellent figures of re-use and recycling of reclaimed asphalt (RA), which makes asphalt industry one of the top circular economies, as well as the steady increase in WMA production, which among other benefits is significantly reducing emissions and energy consumption, while improving working conditions.

EAPA also established the first contacts for the collaboration with Rilem Technical Committees. This is expected to bring numerous benefits for both Institutions, as Researchers will be more aware of current needs and priorities for the industry, while this will be more aware of the latest scientific developments in the field.

After the reviewing of the situation at CEN Standardisation Committees, the Committee finalised the draft document on "High-performance pavements - adapting to future road networks and vehicles with enhanced road requirements". This document will be published in 2 different versions: a detailed and comprehensive Technical Review and a Technical Briefing, containing a simplified summary and EAPA recommendations, addressed to non-technical public, as well as decision/policy makers.

Before finishing the second day, the groups dis-



New EAPA Document
approved by the Technical Committee

cussed the latest development of the sector in hot topics, such as the use of waste and by-products from other industries into asphalt, alternative binders and the new trial sections of e-Highways, which in some countries are already providing electric charge to vehicles while driving.

DAY 3: ASPHALT 4.0

The third day was chaired by Juan José Potti, Chairman of the Asphalt 4.0 Committee and Vice-President of EAPA. The agenda covered the discussions and updates on the new digital technologies, which nowadays are improving the way, in which organisations of the asphalt sector develop conventional activities, such as management of asphalt plants, manufacturing of bituminous mixtures, transport/supply or installation (e.g. laying, compaction, etc).

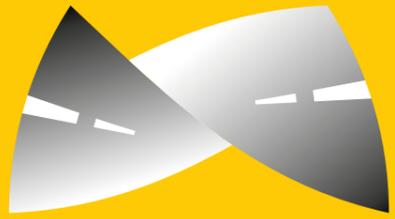
Under the first agenda item, the outcomes of the Digital Symposium, organised by the Spanish Association of Asphalt Producers (ASEFMA) where discussed. Some of the presented technologies are able to reduce documentation in paper, manage information in real time, interconnect 26 different plants in Spain to share information, manage reported incidences in a road network, survey the characteristics of a road surface in real time and apply BIM technologies to the road sector (also known as RIM).

After this, the invited participant Francisco Veja, Director of Innovation and New Technologies at BECSA, the leading construction company of the Simetria Group, presented the following two technologies developed in his company: the PAV-DT system, an advanced solution for pavement auscultation installed in conventional vehicles and able to collect information of the road surface while driving; and AutoPro2, a group of BIM technologies applied to the road sector to manage construction and/or maintenance works, asphalt plants, transport trucks, etc. from the office. After the presentation, EAPA Members had the chance to exchange with Francisco and ask all their questions about these Asphalt 4.0 technologies.

Before ending the meeting, the content of the E&E Congress 2021 related to the topic of future roads and mobility was discussed and the definition of "Asphalt 4.0" was revised. This can be found on the EAPA website.



Francisco Veja



VIRTUAL

15th - 17th June 2021

7th E&E CONGRESS EURASPHALT & EUROBITUME

ASPHALT 4.0 FOR FUTURE MOBILITY

www.eecongress2021.org

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NEWS FROM BRUSSELS

CONNECTED, COOPERATIVE AND AUTOMATED MOBILITY (CCAM) ASSOCIATION

Within the framework of the European Research Programme Horizon Europe, the Connected, Cooperative and Automated Mobility Partnership (CCAM) was created. Through the process of the Partnership Proposal and drafting of the Strategic Research and Innovation Agenda (SRIA), a network of stakeholders interested to take part in the new Partnership was built, reaching more than 400 contacts, with a high diversity of actors and geographical coverage across Europe.

At the beginning of 2021, this Partnership became an official Association, which on 14th April, held its first General Assembly. At the moment, more than 140 members have joined the new CCAM Association, demonstrating the high interest for this research field, which is key for a future safe and efficient road transport.

The CCAM Association has a legal status similar to most European associations: international non-profit making association, established under Belgian law (A.I.S.B.L.). This legal status involves that the activities will not seek any economic profit and will have an international objective.

Furthermore, the non-profit nature means that the association will only seek common objectives in line with the Partnership commitments, and to benefit collectively to the whole stakeholder's community.

However, it will not provide specific benefits to single members, and members shall not seek to obtain specific return from their membership, e.g. being a member of the association does not guarantee to get projects and funding from the Partnership.

The Association is open to all stakeholders interested to contribute to the activities of the Partnership, with the following basic conditions:

1. Be established in the European Union. Or in a country Associated to the Horizon Europe programme.
2. Be able to demonstrate relevant activities in research & development, and/or testing

& demonstration, and/or deployment of the technologies and services covered by the CCAM Partnership.

3. Share and support the objectives of the CCAM Association.
4. Commit to contribute to the Strategic Research & Innovation Agenda of the CCAM Partnership.

Joining the CCAM Association is still possible. If your association, company, or organisation would be interested in doing so, please contact the EAPA Secretariat for further information or check the following links for the statutes or the Strategic SRIA:

[Statutes](#)

[SRIA](#)



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THE CONSTRUCTION 2050 ALLIANCE



Launch of website and social media

The Construction 2050 Alliance aims to coordinate common political messages of the construction value chain and raise the political importance of the sector at the European level. To better reach our audience, we are pleased to announce the creation of our website, as well as our presence on Twitter and LinkedIn. Follow us to keep up to date with our upcoming actions and events!

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[Construction 2050 Alliance website](#)

The Construction 2050 Alliance, which brings together EAPA and other 46 European Associations, keeps working to advance the needs and priorities of the construction and built environment sector at the European level.

The European built environment speaking with a single voice

By optimising construction works, the Construction 2050 Alliance aims to improve the life of European citizens, provide higher value with fewer natural resources, and achieve higher quality assets for owners and users.

EUROPEAN STANDARDISATION

CEN TC 227 ROAD MATERIALS

The latest plenary meeting of CEN TC227 was held online on 19 May 2021.

The main topic, which was discussed, was the strategy to handle the asphalt product standards (series EN 13108), whose latest versions (2016) were approved by CEN but not cited in the Official Journal of the European Union (OJEU), after the negative assessment of HAS Consultants. The main consequence of this is that, while the updated versions (2016) can be used at National level, CE-Marking still has to be done against the previous and outdated versions from 2006.

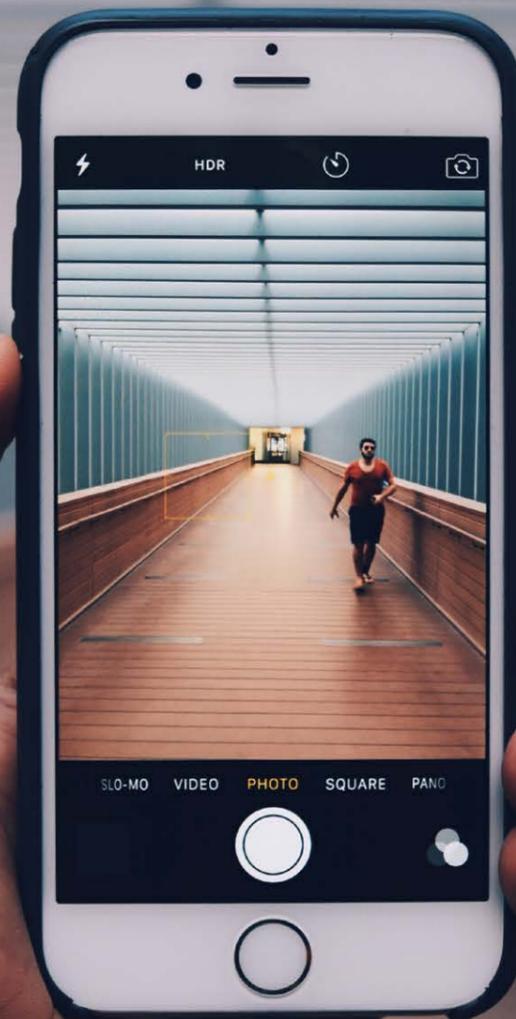
Like in most of the other CEN technical committees with the same problem, all the efforts made by TC227 over the last years have resulted unsuccessfully. Hence, around one year ago, Working Groups and National Mirror Committees linked to CEN TC227 started discussions to find an alternative strategy, from the development of a new Standardisation Request to the de-citation

/ de-harmonisation of existing versions, which would leave asphalt industry without CE-Marking.

Towards the end of 2020, after the pressure from industry, the EU Parliament and Governments of Member States, the European Commission launched the Acquis revision process with the purpose of ensuring the compliance of the Acquis with the revised or current CPR.

Unfortunately, due to the large number of product standards in this conflictive situation, not all acts belonging to the Acquis can be revised at the same time. Accordingly, the European Commission established a list of product families ranked in order of priority. In a first stage, only WGs for the handling of the first top-10 will be created.

Mandate M/124 "Road Construction", which involves CEN TC227 and CEN TC336 ranked in 12th position, which will significantly hinder the achievement of a solution in the near future.



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Rank	Product families	weighted points	share
1	M100 Precast concrete	47.28	6.85%
2	M120 Structural metallic	44.39	6.43%
3	M115 Reinforcing steel	40.67	5.89%
4	M101 Doors, windows	40.41	5.86%
5	M114 Cement	36.78	5.33%
6	M103 Thermal insulating	31.93	4.63%
7	M112 Structural timber	31.71	4.60%
8	M128 Concrete, mortar &	30.95	4.49%
9	M116 Masonry	28.88	4.19%
10	M125 Aggregates	25.88	3.75%
11	M109 Fixed fire fighting	22.61	3.28%
12	M124 Road construction	22.58	3.27%
13	M119 Floorings	22.55	3.27%
14	M489 ETICS	18.43	2.67%
15	M108 Curtain walling	18.10	2.62%
16	M113 Wood based panels	17.81	2.58%
17	M104 Structural bearings	15.99	2.32%
18	Kits and assembled products	15.75	2.28%
19	M121 Wall and ceiling finishes	14.95	2.17%
20	M129 Space heating	14.43	2.09%
21	M122 Roof coverings	13.65	1.98%
22	M111 Circulation fixtures	13.40	1.94%
23	M118 Waste water disposal	12.70	1.84%
24	M127 Adhesive	12.50	1.81%
25	M106 Gypsum	12.01	1.74%
26	Anchors and fasteners	11.77	1.71%
27	M102 Membranes	11.41	1.66%

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CEN TC 227 WG1 ROAD MATERIALS – BITUMINOUS MIXTURES

The latest meeting of CEN TC227 WG1 was held on 11-12 May 2021.

During this meeting, the latest developments in the ongoing revision of the Construction Products Regulation (CPR) were discussed and the position of the National Mirror Committees in this regard was also exchanged.

The working group also dedicated extensive time to discuss the options related to the non-cited asphalt product standards. With a minority of countries in favour of de-harmonising standards and after the unsuccessful strategy of awaiting a Delegated Act from the EU Commission, which would allow modifications in the original Answer to Mandate M/124, the two options, which at the moment gained more importance, are:

1. Continue with the current situation, which involves possible revisions of the non-cited standards every 5 years, while CE-Marking is done against the versions from 2006.
2. In addition to Option 1, start also working on possible inputs for a potential Standardisation Request, which in the future would allow the updating of the CE-Marking versions.

At the moment, there is a huge uncertainty about how long will take for the Acquis revision process to reach the 12th position in the priority list and whether CEN TCs will be actually allowed/requested to submit any inputs. For these reasons, the Group has not achieved yet a decision on how to proceed.

Regarding Test Method Standards, the projects that are currently active are:

Draft Standards recently approved:

- EN12697-42: Amount of foreign matters in reclaimed asphalt.

Draft Standards under 5-years Systematic Review:

- EN 12697-4: Bitumen recovery: Fractionating column (new Work Item request and drafts for CEN Enquiry approved).
- EN12697-43: Resistance to fuel. Amendments on draft for CEN Enquiry approved. CEN Enquiry expected in June 2021.
- EN12697-47: - Ash content of natural asphalts (new Work Item request and drafts for CEN Enquiry approved).

Draft Standards sent out for CEN-Enquiry:

- EN12697-7: Determination of Bulk Density of bituminous by gamma rays (comments received and new draft approved to be sent out for Formal Vote).
- EN12697-15: Determination of the segregation sensitivity (comments received and new draft approved to be sent out for Formal Vote).
- EN12697-36: Determination of the thickness of a bituminous pavement sensitivity (comments received and new draft approved to be sent out for Formal Vote).
- EN12697-37: Hot sand test for the adhesivity of binder on Precoated Chippings for HRA (comments received and new draft approved to be sent out for Formal Vote).
- EN12697-38: Test Equipment and Calibration (comments received and under discussion whether to continue the revision, stop the work or even delete).
- EN12697-41: Resistance to de-icing fluids (comments received and WG1 working on the new draft).
- EN12697-49 - Friction after polishing (comments received and new draft approved to be sent out for Formal Vote).
- EN12697-48: Interlayer bonding (after different delays, the draft will be issued soon for Formal Vote).

Other active projects:

- EN 12697-22:2020 - Wheel tracking (currently under discussion on how to proceed with possible Amendment).
- EN12697-25:2016/prA1:2020 - Cyclic compression test. At the moment is being investigated whether Teflon sheets may produce results bias and affect the reproducibility of Method B.
- EN 12697-26:2018 - Stiffness (decided to request a New Work Item for the Amendment of the Standard).
- EN 12697-33:2019 - Specimen prepared by roller compactor (decided to request a New Work Item for the Amendment of the Standard).

Next meeting will be held online on 26-27 October 2021.

CEN TC 227 WG6 ROAD MATERIALS - SUSTAINABILITY

CEN TC227 WG6 had the last meeting on 13 April 2021.

The main topic of the meeting was the drafting of the Product Category Rules (PCR) for the Environmental Product Declarations (EPD) of bituminous mixtures, which is under the umbrella of the Core Rules for the EPD of construction products, Standard EN 15804+A2.

The first draft had the form of an EN Standard and was sent out for CEN Enquiry in March 2020 but Member States rejected it, attaching more than 60 pages of comments advising in very different directions.

This put CEN TC227 WG6 in a very complex situation to reach a solution that satisfies all Member States and remains in compliance with EN 15804+A2. After long discussions, the Group decided to let the current Work Item lapse and restart the project as a European Technical Specification (TS), instead of EN Standard.

The new TS will establish a guidance for product category rules complementary to EN 15804, focusing only on the case of cradle to gate with options (modules A1-A5, C1-C4 and D) and for the declared unit "tonne of bituminous mixture".

The elaboration of this draft is currently in process and in the last meeting different aspects of this were discussed.

CEN TC336 BITUMINOUS BINDERS

The latest plenary meeting of TC336 was held online on 18 November 2020 with the participation of the European Commission Consultant Jean Carlo Benotti, who kindly answered all the questions raised by the participants.

The main discussions covered the non-citation of 5 Standards, which similarly to the case described for CEN TC227, were approved by CEN but rejected by the European Commission. In some cases, e.g. EN 12591 "Paving grade bitumen", there is still a previous version from 2013 cited in the OJEU that can be used for CE-Marking purposes. However, in other cases, such as EN 13924-1 "Hard paving grade bitumen", or EN13924-2 "Multigrade paving grade bitumen", there is not any previous version. Consequently, the CE-Marking is not possible.

Unlike asphalt mixtures, bitumen is a material with great international market across borders. Hence, the lack of updated Product Standards for the correct implementation of CE-Marking has put the sector in a very complicated situation. Consequently, CEN TC336 decided to work on a Standardisation Request, with the aim of, after its approval, producing the consequent Harmonise Standards. After a long drafting process, the draft was finally submitted to the European Commission.

Due to the big amount of work, the European Commission created the so-called CPR Aquis system, where a priority racking to handle Standardisation Requests was established around

product families. The case of TC336, related to the Mandate M/124 "Road construction" was listed in 12th position, which will make difficult to solve the problem in the near future.

For previous reasons, TC 336 is now tracking very closely the process and designing alternative strategies to solve the situation if it were required.

The group also exchanged on the current situation of the CPR revision and started conversations about the possibility of developing technical specification for the environmental product declaration of bituminous binders. In this regard, the related Basic Work Requirements (BWR) were included in the Standardisation Request but the actual implementation is still under discussion.

In addition, TC336 will directly work (instead through Working Groups) on the Standards EN 12594 "Preparation test samples" and EN 12597 "Terminology".

The next TC336 Plenary meeting will be held in Brussels on 17-18 November 2021.

CEN TC336 WG1 BITUMINOUS BINDERS FOR PAVING

Unlike asphalt mixtures, bitumen is a material with great international market across borders. Hence, the lack of updated Product Standards for the correct implementation of CE-Marking has put the sector in a very complicated situation. Consequently, in 2018 CEN TC336 decided to work on a Standardisation Request, with the aim of, after its approval, producing the consequent Harmonise Standards. After a long drafting process, the draft was finally submitted to the European Commission. Unfortunately, as explained above, the new Acquis revision system launched by the European Commission stopped the plans for all the product families not included in the top-10 list of priorities, which is the case of TC336.

CEN TC336 WG1 had the latest meeting on 9-10 March 2021 and the above-mentioned conflict covered a great deal of the discussions. Nevertheless, other important topics were also discussed.

The product standard EN 14023 "Specification framework for polymer modified bitumens" was revised and sent out for CEN Enquiry. HAS Consultants rejected the draft mainly for being based on the new Standardisation Request, instead of the old Mandate M/124. In addition, a great deal of comments (more than 240) was received from Member States. In order to handle all these comments and prepare a new draft, the specific Task Group TG5 has been making great efforts over an extensive series of ad-hoc meetings. The draft is expected to be issued for Formal Vote by 9 August 2021.

The following standards have been recently confirmed after the 5-years systematic review:

- EN 12592:2014 Determination of solubility.
- EN 12607-2:2014 Determination of the resistance to hardening under the influence of heat and air – Part 2: TFOT Method.
- EN 12607-3:2014 Determination of the resistance to hardening under the influence of heat and air – Part 3: RFT Method.
- EN 13632:2010 Visualisation of polymer dispersion in polymer modified bitumen
- EN 12593:2015 Bitumen and bituminous binders – Determination of the Fraass breaking point.
- EN 12606-1:2015 Bitumen and bituminous binders – Determination of the paraffin wax content – Part 1: Method by Distillation.

The following Standards are under revision:

- EN 12607-1:2014 Determination of the resistance to hardening under the influence of heat and air – Part 1: RTFOT method.
- EN 1426:2015 Bitumen and bituminous binders – Determination of needle penetration.
- EN 1427:2015 Bitumen and bituminous binders – Determination of the softening point – Ring and Ball method.

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Other Standards that are currently under revision and will be sent out soon for CEN Enquiry are:

- prEN 14770 Determination of complex shear modulus and phase angle. Dynamic Shear Rheometer (DSR).
- prEN 14769 Accelerated long-term ageing conditioning by a Pressure Ageing Vessel (PAV).
- EN 14771 Determination of the flexural creep stiffness. Bending Beam Rheometer (BBR).
- EN 12595 Kinematic viscosity.
- EN 12596 Dynamic viscosity by vacuum capillary.

Standards currently in CEN Enquiry

- EN 17643 Determination of equi-shear modulus temperature using a Dynamic Shear Rheometer (DSR) – BTSV Binder Fast Characterization Test in the high service temperature range.

The next meeting will be held on 19-20 October 2021.

UPCOMING CONFERENCES & CONGRESSES

7TH INTERNATIONAL SEMINAR ASPHALT PAVEMENTS 2021

From 30 September to 1 October 2021 the Croatian Asphalt Pavement Association will hold its traditional International Seminar on Asphalt Pavements in Opatija, Croatia.



AFPA SYMPOSIUM "ROADS GOING FULL CIRCLE"

AfPA (Australian Flexible Pavement Association) will hold its "Roads going full circle" Symposium that will replace the AfPA International Flexible Pavements Conference for 2021 – due to the uncertainty of COVID-19.

In addition to the traditional knowledge sharing from the presentation of papers and addresses from keynote speakers, there will also be a series of workshops, panel sessions and online skills training opportunities – a new stream to engage with our operational members

The title of the conference "Roads going full circle" refers to the need for the infrastructure sector to become circular and incentivise circular economy solutions to respond to the challenges of climate change, carbon emissions and reducing the use of virgin natural resources.

The symposium will comprise 4-part day events covering the full suite of flexible pavement topics areas. It is envisaged, that each day of the event will focus on one of the core streams (outlined below) with content being delivered through a combination of presentations, workshops and panel sessions.

For more information please visit our website:



[AfPA website](#)

Date	03 August 2021	04 August 2021	05 August 2021	06 August 2021
Streams	Opening Health and Safety	Sustainability & Circular Economy	Engineering and Construction	Training Day Closing
Delivery format	Keynotes/presentations/workshops/panel sessions			

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 <p>HAPA - Hungarian Asphalt Pavement Association</p>	 <p>IAPA - Irish Asphalt Pavement Association</p>	 <p>Infra Contractors' Association, Finland</p>	 <p>MPA - Mineral Products Association, UK</p>
 <p>NCC AB, Sweden</p>	 <p>Peab Asphalt AB, Sweden</p>	 <p>Czech Road Contractors Association</p>	 <p>Routes de France - French Contractors Association</p>
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