

7th E&E CONGRESS

EURASPHALT & EUROBITUME

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

ASPHALT 4.0 FOR FUTURE MOBILITY

Deadline for
submitting abstracts
is October 30, 2018

INVITATION AND CALL FOR PAPERS

Organised by EAPA & Eurobitume

Congress secretariat:



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INVITATION

The 7th Euraspalt & Eurobitume Congress will be held on 12-14 May 2020 in Palacio Municipal de Congresos in Madrid (Spain).

This congress is organised jointly by the European Asphalt Pavement Association (EAPA) and Eurobitume. The overall theme for the 2020 congress being:

"Asphalt 4.0 for future mobility"

The future mobility scenarios being developed now will clearly have impacts on our road infrastructure in the future. The traditional ways of travel will change and the use of automated and guided vehicles will have a greater effect on road requirements. The current recognised industrial change 4.0 - or often referred to as 'smart' industry - we are already seeing and experiencing will continue further spread across a much wider scope of impact and influence.

With more than 90% of the existing European road infrastructure being represented by asphalt materials, this means that as an industry we will also need to accommodate to the future mobility solutions either for maintenance or construction. The continued integration of digitalisation into industry practices, the needs to create better connectivity and data exchange platforms, and the general ambition overall to offer sustainable solutions will all play key roles!

Asphalt, bitumen and other related industries need to be ready for these future requirements - undoubtedly asphalt roads and the services they provide will remain of high importance in the future for all types of end users from cyclists, motorcycles, cars, buses and heavy goods vehicles regardless of the way they move forward. The focus however, will be to create smart roads and therefore smart asphalt.

We invite you to contribute to the industry's future by supporting the next E&E Congress in 2020 through your attendance and contributions by providing written papers. Our aim is to highlight the importance of an efficient European road network and also the importance that research and new developments play in ensuring that the asphalt roads will be ready for all future demands and innovations.

New technologies do not only influence the future, they also have and will have a clear impact on the way we produce materials, pave and compact asphalt in the future.

The main objectives of the E&E Congress 2020 are to:

- provide a platform for our industry and stakeholders to demonstrate and learn from the innovation and new technologies that have been developed and their impact on our products and processes over recent years.
- offer a unique opportunity for all stakeholders to engage, exchange ideas and network in a way that will encourage positive action in the future.
- stimulate discussions and debates that will help to steer stakeholders to a common approach to future challenges.

To achieve these objectives a varied programme will be created which identifies key issues associated with future mobility and the role asphalt solutions can play here.

The future is already there, and we have no choice except to be prepared.

Looking forward to seeing you in Madrid.



Christophe Jacquet
President of Eurobitume



John Kruse Larsen
President of EAPA



Call for papers

Contributions are invited from all people working with roads and infrastructure, e.g. road, rail and airport administrations, infrastructure engineers and highway concessionaires, contractors, research institutes, consulting engineers, financial specialists, equipment manufacturers. Our target audience is road users, road authorities, research institutes, consultancies, road financing authorities, bituminous binder producers, asphalt producers and contractors.

Keynote speakers will be invited to provide their view for each of our strategic themes.
The overarching theme is "Asphalt 4.0 for future mobility".

Themes

- **Health & Safety**
- **Sustainability & Environment**
- **Future roads and mobility**
- **Binder performance and testing**
- **Asphalt mixture performance and testing**
- **Asphalt production, paving and compaction techniques**
- **Warm Mix Asphalt / Low temperature asphalt**
- **Social economy**
- **Maintenance and Rehabilitation**
- **Case studies & non-highway applications; Success and failure from real practice**

Health & Safety

Ensuring the health & safety of the workforce and the public is a critical aspect of all activities that we undertake. Our industry has been working over many years to improve working conditions and manage the risks associated with the handling and application of our products. Papers are invited on topics covering the following areas and other related subjects;

- **Work zone safety**
- **Exposure monitoring & reduction**
- **Noise reduction**
- **Air quality**
- **Water quality**
- **Skid-resistance**
- **Visibility**

Sustainability & Environment

Today the importance of the impact of our activities on the environment cannot be ignored, increased focus on green public procurement and sustainable development is increasing. Asphalt is one of the most reused / recycled products. Although recycling has been used for many decades still new techniques are being developed and higher percentages of reuse / recycling become common practice. Papers are invited on topics covering the following areas and other related subjects;

- **New reuse / recycling techniques**
- **Use of rejuvenators**
- **Sustainable development**
- **Life Cycle Inventory**
- **Carbon footprint**
- **Energy efficient pavements / Rolling resistance**

Future roads and mobility

The development of future automated and guided vehicles may present new challenges for pavement engineers, these vehicles might need new pavement technologies. In addition to the road network being used for transportation of people, it is increasingly also a conduit for other technologies. Intelligent infrastructure management enables faster communication and reduced delays. Papers are invited on topics covering the following areas and other related subjects;

- **IT and sensors in infrastructure**
- **Cleaning air by using absorptive pavement materials**
- **Heated/cooled roads**
- **Dual-purpose pavements (cool pavement technology, energy generation, etc.)**
- **Intelligent roads**
- **Roads as a means of connectivity**

Binder performance and testing

Bitumen is a complex product and therefore new test methods are developed to describe the behaviour of bitumen. Papers are invited on topics covering the following areas and other related subjects;

- New test methods
- Performance based standards/regulations
- Evaluation of test methods
- Predictive performance models
- Bitumen modification
- Bitumen ageing

Asphalt mixture performance and testing

A sustainable pavement must be durable and its performance should meet the requirements over a long period. The required performance for the present and future can be achieved by using an adequate design of the pavement and mixtures by using suitable binders and where needed additives. Papers are invited on topics covering the following areas and other related subjects;

- New mixtures
- New test methods
- Evaluation of test methods
- Performance based contracts and experience with these contracts
- Performance based standards/regulations
- Construction Products Regulation
- Additives
- Predictive performance models
- Durability

Asphalt production, paving and compaction techniques

New technologies are being developed and used in the production, transport, paving and compaction of asphalt mixtures. New techniques are available for continuous quality control in various stages of the process. Papers are invited on topics covering the following areas and other related subjects;

- Process control
- Process optimisation tools
- Intelligent paving and compaction
- Continuous Quality Control systems
- Autonomous equipment / autonomous asphalt rollers
- Quality management systems
- Efficient production techniques

Warm Mix Asphalt / Low temperature asphalt

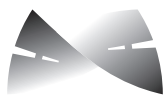
A practical way of reducing the energy used during the production of asphalt is the use of low-temperature asphalt or warm-mix asphalt. In addition to energy reduction, low production and paving temperatures also reduce emissions and occupational exposure in the workplace. Papers are invited on topics covering the following areas and other related subjects;

- Temperature reduction technologies
- Ways to stimulate these techniques
- Performance

Social economy

Financing road infrastructure continues to be one of the major challenges we face. With limited resources available it is important for the society that money is efficiently used. Papers are invited on topics covering the following areas and other related subjects;

- Long-life pavements
- Life-cycle costing
- Project financing
- Public-Private Partnership (PPP), Design, Build, Operate contracts, etc.
- Functional contracting
- Long-term contracts
- Communication and social awareness



Maintenance and Rehabilitation

In many countries the focus has shifted from construction of new highway infrastructure to maintaining the existing road network. Increased utilisation of the network means that opportunities exist for novel maintenance techniques and faster intervention. With limited resources available it is important that maintenance intervention is properly planned and carried out in the effective way. Papers are invited on topics covering the following areas and other related subjects;

- Pavement Management systems
- Asset management
- Surface treatments
- Innovative maintenance techniques
- Performance based maintenance
- Fast application technology
- Road condition monitoring

Case studies & non-highway applications; Success and failure from real practice

This category represents a new approach and is focused on practical experience in both highway and non-highway applications. Papers are invited on projects including ports, railway tracks, aircraft runways and other applications.

The truth is always on the road; and good laboratory results don't always translate to practical outcomes for a variety of reasons. Learning from good and best-practice represents a valuable treasure trove of knowledge. Papers are invited that report on new ideas that have been tested at industrial-scale production and/or a real construction site and have proven themselves in practice for a reasonable time. Papers are invited on both success stories and failures, in particular where the cause of the failure is well-understood. At best, they contain an approach that has already been reported at the development stage at one of the previous congresses.

Submitting Abstracts

The deadline for submitting abstracts is October 30, 2018.

Method of Submission

Abstracts must be submitted via the abstract handling module, which can be found on the E&E Congress 2020 website under "CALL FOR ABSTRACTS" or by clicking here (<http://papers.eecongress2020.org/login>):

- When the abstract has been uploaded successfully a confirmation email will be sent to the corresponding author. In case you do not receive confirmation within 24 hours, please check your spam folder and, in the case that a confirmation e-mail is not received, please contact: eecongress2020-abs@kenes.com.
- Authors will have access to their abstracts until the deadline and will have the possibility to edit submitted abstracts and submit additional ones.
- All correspondence concerning the abstract will be sent to submitting authors e-mail address.

Abstract Submission Instructions

- The official language of the congress is English; therefore all abstracts must be submitted in English.
- Authors will be asked to select the topic under which the abstract is submitted, but the congress organisers reserve the right to re-allocate the abstract to a different category if it is felt to be more appropriate.
- Submitted abstracts must be original. Abstracts previously published or presented at another international scientific meeting should not be submitted.
- The corresponding author's name and e-mail address will be used for all communications relating to the congress.

Abstract Content

- The length of the abstracts should be a maximum of 300 words, plain text.
- Title: Make the title of the abstract brief, clearly indicating the nature of the investigation. Use a capital letter for the first letter in the title only (DO NOT capitalize each word).

Review Process

The E&E Congress is a scientific and technical event and submitted papers are subject to a peer-review process. The abstracts will be reviewed by the Technical Programme Committee and the papers will be reviewed by a Paper Review Committee.

The abstract acceptance criteria are:

- The subject should support the themes of the congress
- The abstract / paper should not be commercial
- The subject should be innovative

Authors are encouraged to relate the technology aspects of their abstract / papers to the socio / economic benefits for society.

For the case studies category additional acceptance criteria apply:

- Only verified projects should be reported. For each project, the road owner should be identifiable.
- Papers should not contain any brand or supplier names. Any product or process should be described by its nature (chemical, physical, technical or other).
- The criteria for classification into "success" or "failure" must be objectively reported. This can be shown e.g. by comparison with a reference section, a listed state of the art and/or applicable technical standards.

The paper acceptance criteria are:

- a. **Technical content (or technical quality) of the paper**
 - Clarity and rigour (the paper should be clear, easy to understand, well structured, based on well-founded arguments)
 - The scientific and technical value
 - Originality and / or innovative level
- b. **The paper should conform to the Guidelines for Authors (these will be published on www.eecongress2020.org)**

Following a review of a submitted paper, if changes are requested by the reviewer(s), authors will have the opportunity to modify their paper. After modification the papers will be reviewed again.

Deadlines	
October 30, 2018	Deadline for submitting abstracts
February 2019	Acceptance notification
August 15, 2019	Deadline for manuscripts submission
January, 2020	Final acceptance

All accepted papers will be published in the proceedings of the congress and authors are encouraged to participate in the poster session. A selection of papers will be invited to be presented orally during the congress, however due to the limited time available oral presentation is not guaranteed.

Poster Session

Previous E&E Congresses have had an excellent and well-attended poster session, this provides an excellent opportunity for networking and in-depth discussion about the content of your work. The poster session will again be open to all authors whose paper has been accepted. Authors will be asked to attend their poster during the poster session.

Languages

The official language for the Congress will be English. Abstracts and papers must be written in English.

Exhibition

There will be a simultaneous wide-ranging exhibition which will provide a visual focus and interaction with the Congress sessions.

The breaks will be taken in the exhibition area.

Accompanying Persons Programme

Special tours will be arranged for the accompanying persons to explore the city of Madrid and its world famous historical and architectural monuments.

Congress Website

Visit our official congress website www.eecongress2020.org to get more information.

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ORGANISING COMMITTEE

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