Invitation and Call for Papers

EURASPHALT & EUROBITUME CONGRESS

13-15 June 2012

Istanbul Lutfi Kirdar
Congress and
Exhibition Center
Rumeli Hall

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

www.eecongress2012.org

INVITATION AND CALL FOR PAPERS

5th Eurasphalt & Eurobitume Congress June 2012 Istanbul

Asphalt, the sustainable road to success

On behalf of the Eurasphalt and Eurobitume Foundation we are pleased to invite you to participate in the 5th E&E Congress to be held between 13-15 June 2012 at the Istanbul Lutfi Kirdar Congress Center and Exhibition Center-Rumeli Hall.

The location for this event is a city representing in itself a special international environment. Here you will find two continents East and West living together as one, joined by magnificent road bridges across the beautiful waters of the Bosphorus.

Istanbul has evolved from an exciting history. Originally called Byzantium it changed to Constantinople before finally bearing the name we know today. Each change of name brought with it new demands from society and therefore a continual need to be able to adapt to change. Currently Istanbul is playing a key role for Turkey in the emerging Europe of tomorrow. We are sure you will agree that it is a very worthy destination as a platform to bring people of all nationalities together in a celebration of our industry. An industry that was borne from one of the important human demands, a freedom to travel.

Following the success of the congress in 2008 and its theme of 'Roads for Life' we will continue the journey with a closer in-depth review of one of the key aspects to this original over-riding theme. The focus for 2012 will be on 'Sustainability'.

Roads have been part of the advancement of civilisation and with that they have also continued to develop with the demands that drive our social, environmental and economic needs. The common thread through these demands is a desire to be sustainable.

The E&E 2012 Congress will provide an excellent platform to investigate key issues such as adapting to climate change; durability & performance; energy & carbon; resource use and recycling; responsible sourcing and green procurement plus many more.

We invite you to contribute to this important event for our industry through the submission of a paper that reflects what you and/or your company are doing within the scope of **Sustainability**. The provisional sessions included in this invitation outline the main themes and examples of typical areas that we anticipate will be included.

Communications and updates of the congress will appear regularly on the website including online registration. We encourage you to start now by visiting and book-marking the congress website to ensure you capture all the latest news.
Visit **www.eecongress2012.org**

See you in Istanbul

Alberto Bardesi
Eurobitume President

Alan Mackenzie
EAPA President

CONGRESS THEMES AND TOPICS

Overarching theme: Sustainability

Sustainability has become an overarching theme touching all aspects of what we do. It comes from a realisation that we live in a finite world and that everything that we do as an industry has some effect on the system of the planet and its future. Whilst much of the obvious focus of sustainability is on environmental aspects it is a much broader concept. Sustainability has three interlinking themes: environmental, social and economic. These can be summarised in the following four sustainability objectives.

- Effective protection of the environment
- Prudent use of natural resources
- Social progress which recognises the needs of everyone
- Maintenance of high and stable levels of economic growth and employment

The Programme Committee would like to see contributions to the congress set in the context of these sustainability objectives. To that end we have set out eight themed sections for which papers should be submitted.

Contributions are invited from transport economists, social scientists, infrastructure engineers, contractors, consultants and financial specialists. Contributors should offer appropriate papers for the target audience of road users, road authorities, research institutes, politicians, road financing authorities, bituminous binder producers, asphalt producers and contractors.

A keynote paper will be invited for each session to put context onto the session content,

SESSIONS

I - Energy and Carbon

Energy reduction and carbon footprint have become important considerations in recent years. Protocols for the quantification and declaration of embodied carbon and embodied energy in asphalt and other road materials are essential if these aspects are to be managed in the future. It is also important to understand practical ways of reducing the energy and carbon impact of asphalt in roads and the performance of the new low energy/carbon asphalts.

Papers covering the following topics are called for:

- Development of carbon footprinting protocols
- Energy management in asphalt production
- Carbon footprint in procurement
- Embodied carbon in binders and additives
- Carbon reduction through recycling
- Lower temperature technologies (cold and warm mixtures)
- Traffic carbon reduction through reduced rolling resistance.

II - Durability & performance – mixtures and binders and pavements
A sustainable pavement must be durable and its performance should meet the requirements over a long period. The required performance for the present and the future can be achieved by using an adequate design of the pavement and mixtures by using suitable binders and, where needed, additives.

Papers covering the following topics are called for:
- Advanced testing of properties and performance of mixes and pavements
- Mix design and Pavement Performance
- Ageing, durability and high and low temperature performance
- Self-healing
- Additives
- Perpetual pavements
- Sustainable construction techniques

III - Resource use and recycling
Sustainability is one of the drivers in the road industry today. Efficient use of resources, increased reuse and recycling and the incorporation into the bituminous mix of materials no longer required by other industries are gaining in importance when a new project is considered. At the end of life the construction materials used in our roads have substantial residual value that can be recovered by applying recycling techniques. Tools that assist in making correct and accurate decisions to establish and diminish the environmental impact during the construction and life of the road are being developed. In this session we will focus on the efforts of our industry efficient (re-)use of pavement materials.

Papers covering the following topics are called for:
- LCA/LCI
- Re-use
- Recycling
  - Material
  - Pavement
- Use of secondary materials and waste

IV - Adapting to climate change
There is now a general agreement that our climate is changing, with a trend of progressive global warming. As a result of this the conditions under which asphalt will have to perform in the twenty first century will be different from those experienced in the last century. This will vary from region to region and country to country but with a common theme of higher sustained maximum temperatures and more extreme weather with storms and floods. Asphalt and pavement design will need to evolve to match the new challenges.

Papers covering the following topics are called for:
- Predicting climate and weather change
- Adapting specifications and design protocols
- High temperature performance
- Waterproofing and drainage
- Storm water mitigation
- Moisture sensitivity
- Low temperature performance

V - Societal impact

Roads connect people, goods and services and they are an essential element of economic growth. They can provide sustainable benefits for individuals, communities and business. Well made roads can improve access to markets, healthcare and education throughout the developing world. In urban environments, multi-user roads can provide safe and efficient travel solutions, and motorways can enable mass movement of people and goods.

The challenge for our industry is how we can build roads for a wide variety of users, in different climatic conditions that have minimum environmental impact.

Papers covering the following topics are called for:

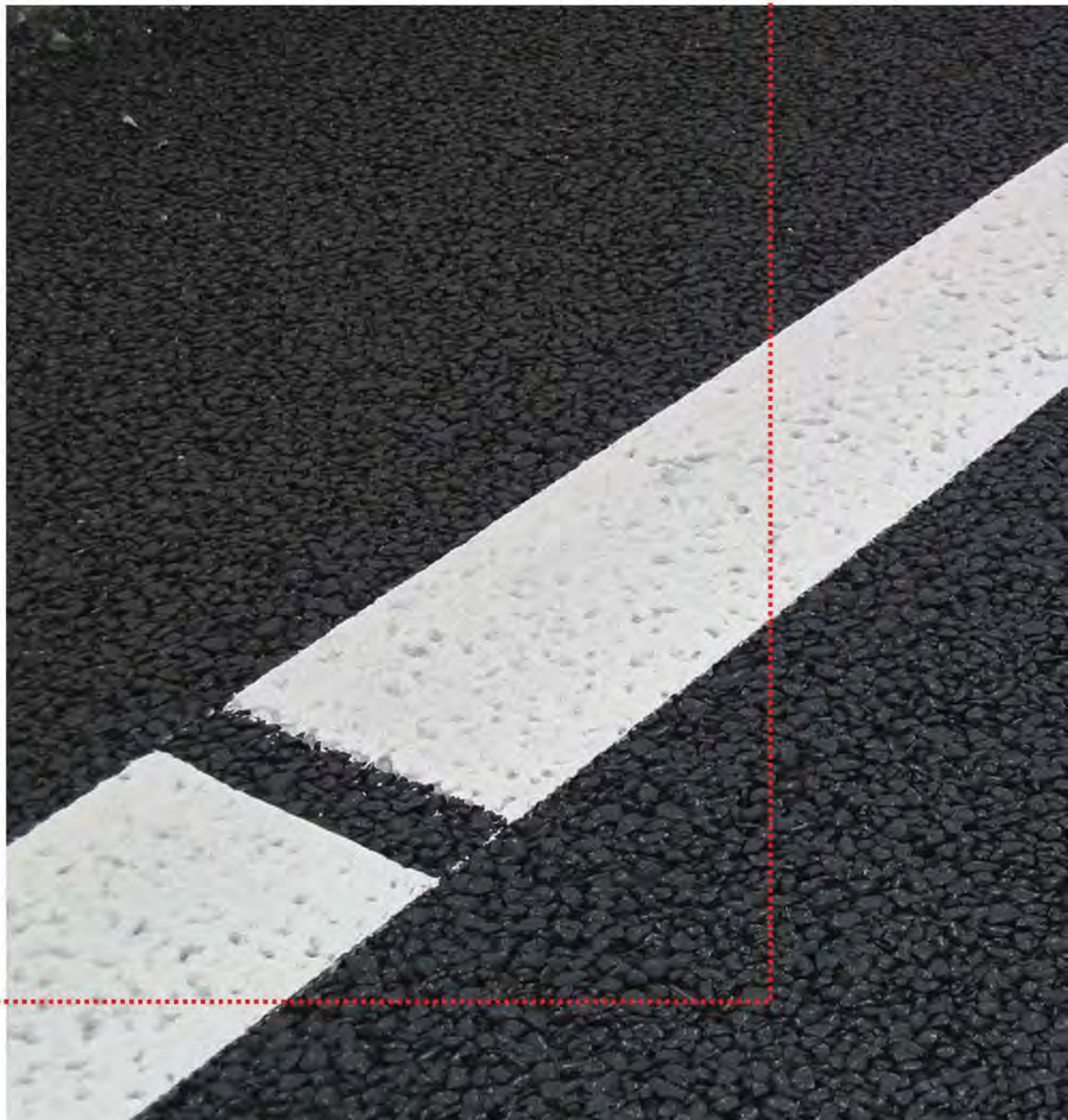
- Technology Transfer
- Education
- Noise reduction
- Congestion
- Maintenance strategies
- Other road users (cycles, motorcycles and pedestrians)
- Rural roads
- Off-road

VI - Responsible sourcing and green procurement

As sustainability becomes more prominent it inevitably becomes more important in the procurement process. In practice this can only be implemented when the key aspects of sustainability can be objectively quantified and measured. Today's market is bombarded with numerous, often unsubstantiated, claims covering a range of sustainability issues from carbon and the environment, fair employment in the supply chain to overall economic stability. The development of such measures and systems is of interest and importance.

Papers covering the following topics are called for:

- Development of standards for responsible sourcing
- Development of green procurement
- Environmental product declarations
- Environmental measures in standards
- Development of sustainability certification schemes.



VII - Improving Health & Safety

For many years all actors of the road industry have been committed to delivering innovative solutions for safer roads. This section will focus on improving comfort and safety on the road for users, including the reduction of the impact of road works on the workers and the environment. These are among the main challenges that the industry will face in this new decade.

Papers covering the following topics are called for:

- Work Zone Safety
- Fume reduction (Warm/cold mixtures)
- Skid resistance
- Emissions from manufacturing
- Workers exposure and exposure control
- Visibility

VIII - Financing of road infrastructure and maintenance

Financing road infrastructure and maintenance is one of the major challenges we face at present. Funds must be found to carry out necessary and indispensable maintenance on the road network and to maintain the required properties at the right level for the comfort and the safety of the users. In this session, we will mainly focus on new and innovative approaches.

Papers covering the following topics are called for:

- New contracts
- Design-Build-Finance-Operate
- PPP
- Road concessions
- Asset management

IMPORTANT NOTE TO AUTHORS

SUBMITTING ABSTRACTS

Details of the procedure for submitting abstracts for a paper on one or more of the topics listed above can be found at the E&E web-site: **www.eecongress2012.org**. All abstracts must be in English. The length of the abstracts should be around 200 words. The deadline for submitting abstracts is **1st March 2011**.

REVIEW PROCESS

The abstracts will be reviewed by the Technical Programme Committee and the papers will be reviewed by the Paper Review Committee.
The abstract acceptance criteria are:
- The subject should be innovative
- The subject should support the theme of the congress
- The abstract/paper should not be commercial
- The abstract should demonstrate high calibre information.

The authors are encouraged to relate the technology aspects of their abstract/paper to the socio/ economic benefits for society.

The acceptance criteria for the papers are:
a. Technical content (or the 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 on (**www.eecongress2012.org**).
If the Paper Review Committee states: "The paper could or might be accepted after modification", the authors will have the opportunity to modify their paper. After modification the paper will be reviewed again.

Acceptance of the abstract will be announced in April 2011. The deadline for submitting papers is 25th September 2011 and the acceptance of the paper will be announced in January 2012. The papers will be reviewed by the Paper Review Committee. Authors of accepted papers will be given the opportunity of presenting their paper to the Congress participants either in print (CD-ROM) or in poster session, however we cannot guarantee to authors that their papers will be orally presented.

LANGUAGES

The official languages for the Congress will be English, French, German, Spanish and Turkish with simultaneous interpretation provided in all these languages. Papers submitted must be written in the English language. Additional copies of Papers may be submitted in French and/or German for inclusion in the Proceedings. During the congress, interpreter facilities for additional languages will be available if participants wish to bring their own interpreters.

EXHIBITION

During the congress there will be a comprehensive and wide ranging exhibition on display providing a visual focus and an important oppurtunity for interaction. All breaks between technical sessions will be taken in this exhibition area.

POSTER SESSIONS

The poster session will be open to all authors whose papers have been accepted for the Proceedings. Authors will be asked to attend their poster in a special Poster Session during the course of the Congress. Posters will also be on display in a separate area in the Exhibition Hall for the whole duration of the Congress.

ACCOMPANYING PERSONS' PROGRAMME

The city of Istanbul will be fully explored during the accompanying persons' programme, including special tours to the many world famous attractions in the city.

www.eecongress2012.org

CONGRESS ORGANISING COMMITTEES

STEERING GROUP

Alberto Bardesi - President Eurobitume
Alan Mackenzie - President EAPA
Martin Carlson - Nynas Bitumen
Ayberk Ozcan - Asfalt Müteahhitleri Dernegi
Egbert Beuving - EAPA
Philippe Dewez - Eurobitume

ORGANISING COMMITTEE

Egbert Beuving - EAPA,
Philippe Dewez - Eurobitume
Gülay Malkoç - ASMUD - EAPA
Siobhan McKelvey - Nynas Bitumen
Malcolm Simms - Mineral Products Association
Mike Southern - Eurobitume

TECHNICAL PROGRAMME COMMITTEE

Mike Southern - Eurobitume
Egbert Beuving - EAPA
Colin Loveday – Tarmac Ltd.
Jean-Paul Michaut - Colas
Jean-Pascal Planche - Total
Antonio Paez-Dueñas - Repsol
Andy Self - Shell Bitumen
Zeliha Temren - ASMUD

CONGRESS SECRETARIAT

FIGUR CONGRESS ORGANIZATION
Ayazmaderesi Cad. Karadut. Sk. No:7
Dikilitaş/Istanbul/TURKEY
Tel: +90 212 381 46 00
Fax: +90 212 258 60 78
mail: eecongress2012@figur.net

FİGÜR
CONGRESS & ORGANIZATION