



# ANNUAL REPORT

## 2017





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# I. ADMINISTRATIVE INFORMATION

## a. Registered office

The address and telephone number of EUPAVE changed in 2017.

New address:

EUPAVE

Boulevard du Souverain , 68- **B13**

1170 Brussels

New telephone number:

+ 32 (0)2 645 52 31

## b. Bylaws

The bylaws of association were modified at the Extraordinary General Assembly held on 3 December 2015. The revised version is available in French and in English. In case of differences between the two versions, the French version shall prevail.

## c. President and Vice-President

Mr. Stéphane Nicoud at LafargeHolcim and Mr. André Burger at Cement & Beton Centrum, elected at the Board Meeting 04 December 2013, remain in the function of President and Vice-President of EUPAVE.

## d. Managing Director

Mr. Luc Rens, Consulting Engineer at FEBELCEM remains in the function of Managing Director of which he was nominated during the EUPAVE Board meeting of 23 March 2009.

## e. Secretary General

Mr. Karl Downey, Sustainable Construction Manager at CEMBUREAU left the function of Secretary General of EUPAVE on 29 September 2017.

He has not been replaced in 2017.

## f. Communications and Office Manager

Ms. Elise Carabédian is Communications and Office Manager since 2 November 2016.

Her contract was signed on 2 November 2017.

Elise Carabedian followed the class on basic knowledge of concrete organised by the Belgian Concrete Group.

## g. Resignation and Nomination of Directors

The mandate of Mr. Ulrich Nolting and Mr. Jan Deja have been renewed as of 28 June 2017.

The Board of Directors is composed of the following members as of 28 June 2017:

- Koen Coppenhelle, Chief Executive of CEMBUREAU;
- André Burger, Director of Cement & Beton Centrum;
- François Redron, Chief Executive of Cimbéton;
- André Jasienski, Director of FEBELCEM;
- Rory Keogh, Managing Director of GOMACO Int'l Ltd;
- Stéphane Nicoud, Head of Large Construction Projects, Holcim Technology Ltd;
- Ulrich Nolting, Managing Director of InformationsZentrum Beton GmbH;
- Aniceto Zaragoza Ramirez, General Director of OFICEMEN;
- Sebastian Spaun, Managing Director of VÖZ
- Jan Deja, Chief Executive of Polish Cement Association.

## II. MEMBERSHIP AND PARTNERSHIP SITUATION

At end 2017, EUPAVE had 22 members from 14 countries (12 Full Members and 10 Associate Members) and 15 Partners.

In 2017, Guntert & Zimmerman, Britpave and CEMEX joined EUPAVE as Associate Member and HeidelbergCement joined EUPAVE as Full Member. Sepehr Ghafari, ZBS, Carlos Jofré and RISE CBI joined as partners of EUPAVE.

In 2017, SLOCEM, ATIC and Italcementi resigned from being Associate Members.

Note: Italcementi was acquired by the HeidelbergCement Group, which became a Full Member.

Members	Type of membership
Betonsuisse Marketing AG	Full
CEMBUREAU- European Cement Association	Full
Cement&Beton Centrum- Dutch Cement & Concrete Centre	Full
CIMBéton- Information Centre on Cement and its Applications	Full
FEBELCEM- Belgian Cement Association	Full
GOMACO	Full
HeidelbergCement	Full
LafargeHolcim	Full
InformationsZentrum Beton GmbH	Full
Oficemen- Spanish Cement Association	Full
Polish Cement Association	Full
VOEZ- Association of the Austrian Cement Industry	Full

*Table 1: EUPAVE Full Members situation end 2017*

Members	Type of membership
BBS Barriers	Associate
Britpave	Associate
CEMEX	Associate
Deltabloc International GmbH	Associate
ERMCO- European Ready Mix Concrete Association	Associate
Gütegemeinschaft Betonschutzwand & Gleitformbau e.V.	Associate
Guntert & Zimmerman	Associate
Power Curbers Inc.	Associate
Turkish Cement Manufacturers' Association	Associate
WIRTGEN GmbH	Associate

*Table 2: EUPAVE Associate Members situation end 2017*

Members	Type of membership
AB-Roads	Partner
Araxovas Construction	Partner
Carlos Jofré	Partner
Ditiki Ergolaviki	Partner
ECCRA	Partner
EUROVIA Beton GmbH	Partner
KWS Infra B.v.	Partner
Otto Alte-Teigeler GmbH	Partner
RISE CBI	Partner
Robuco	Partner
Sepehr Ghafari	Partner
SPECBEA	Partner
TRBA	Partner
Zeta Industry	Partner
ZBS	Partner

*Table 3: EUPAVE Partners situation end 2017*

### III. ACTIVITIES

#### a. New logo

In 2017 EUPAVE hired a webdesign agency, ALYS, to update its logo and website.



Previous logo



New logo

Other versions of the new logo:

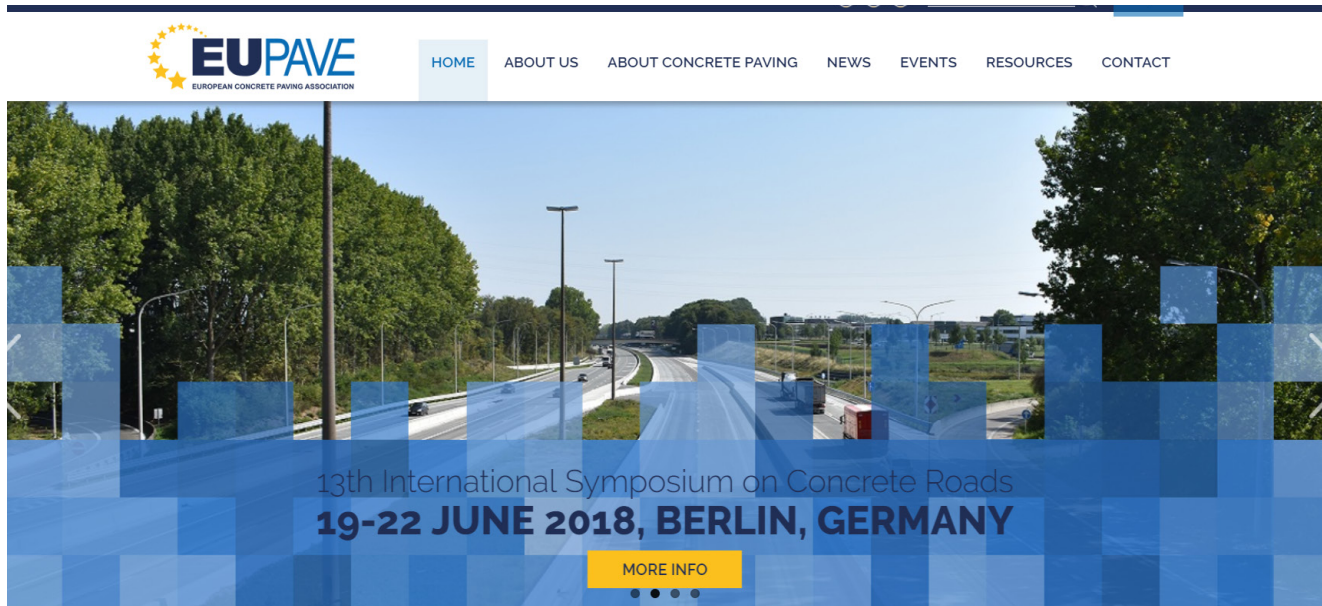


## b. Website

EUPAVE released its new website on 1 December 2017.

The website includes the same functions as the previous one with an updated format and design.

The website is regularly updated.



[www.eupave.eu](http://www.eupave.eu)

## c. Newsletter

EUPAVE published 7 newsletters in 2017:

- 1 February 2017
- 10 March 2017, including the “call for abstracts” for the 13th International Symposium on Concrete Roads
- 19 April 2017
- 16 June 2017, dedicated newsletter ECLIPS project
- 7 July 2017
- 21 September 2017
- 20 December 2017



## d. Extranet

The extranet has been updated regularly in 2017.

The new extranet included in the new website was developed over December 2017 and the access codes to members were sent out in January 2018.

The following information and documents are available through the extranet for EUPAVE Members:

### **Calendar of EUPAVE meetings and events**

#### **EUPAVE documents**

Activity plan, updated after each meeting

Annual reports, from 2009 until 2016

Membership Action Plan, updated after each Board meeting

Bylaws

#### **Meetings documents**

Including the meetings' documents from 2016 until now

Including the "issue trackers" on EU political affairs, updated for each Board meeting

#### **Working Groups**

Best Practices WG

EU Advocacy WG

Concrete Safety Barriers WG

Communication Tools WG

*Including the agenda and/or presentation of each teleconference*

#### **Workshop**

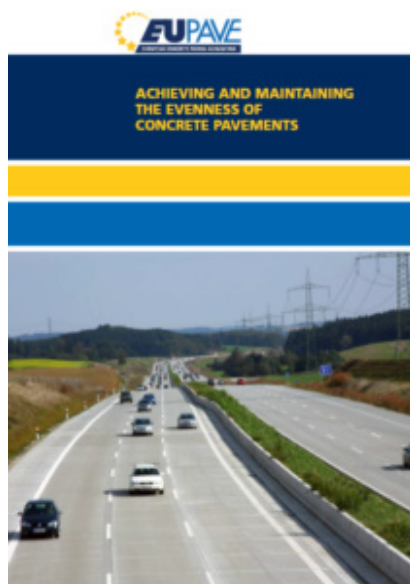
Documents of past workshops

#### **EUPAVE publications**

#### **Replies to EC Consultations**



## e. EUPAVE Publications



### EUPAVE released a new brochure entitled **“Achieving and maintaining the evenness of concrete pavement”**

This 60-page publication, drafted by EUPAVE Partners Carlos Jofré and reviewed by the Technical & Promotion Committee and Best Practices Working Group of EUPAVE. It is an updated version of the Technical Report “Achieving and maintaining the evenness of concrete pavements” of the World Road Association (PIARC).

The publication provides technical guidance for the execution of concrete pavements. It contains a review of the measuring methods for evenness, guidance on the parameters that have an influence on concrete pavement evenness and a presentation of the state of the art of techniques used to restore evenness.



### EUPAVE released a new leaflet entitled **“Concrete Safety Barriers: a lifetime of safety”**

Concrete safety barriers offer a sustainable solution for road safety. They are available in a wide range of products, from temporary workforce protection in a work zone, to the highest containment levels for heavy goods vehicles. They are competitive with other barrier systems based on initial construction costs and, thanks to their 50-year life, concrete barriers are unbeatable on life-cycle cost.

## f. EUPAVE Events

### EUPAVE Workshop “The right concrete mix for the right surface, 23 February 2017

EUPAVE held its third Workshop on “**Best Practices in Concrete Paving**” on 23 February 2017 in Brussels. The theme of this edition was “**The right concrete mix for the right surface**”. Attended by around 50 participants, the workshop gathered concrete paving practitioners such as contractors, designers, engineers, academics, as well as material and equipment manufacturers.

The event also marked the launch of **EUPAVE’s new publication “Achieving and Maintaining the Evenness of Concrete Pavements”**.

Karl Downey, Secretary General of EUPAVE, opened the workshop on behalf of EUPAVE’s President, Stéphane Nicoud.

Rory Keogh, Chairman of EUPAVE’s Best Practices WG, introduced the agenda of the day and highlighted that best practice sharing is important to ensure excellence not only in design of concrete pavements, but especially in their execution.

Luc Rens, Managing Director of EUPAVE, introduced the speakers and moderated the lively discussion that followed.

Carlos Jofré’s presentation explained the importance of the concrete mixture for evenness and gave practical guidance.

Jens Skarabis, Silentex, presented the factors that influence skid resistance and explained techniques for achieving the desired skid resistance.

Martin Peyerl, Smart Minerals/VÖZ, presented the experience with two-layered concrete pavements in Austria. He noted that Austria has almost 30 years experience in using recycled aggregates in the bottom layer of two-layered concrete pavements.

In his presentation, Marco Pollok, Deltabloc, spoke about the concrete mix required for successful execution and durability of concrete safety barriers. Tim Alte-Teigeler, OAT, presented techniques for texturing concrete surfaces, such as micro-milling and diamond grinding.

Finally, Frédéric Ljung, Chryso, demonstrated the wide range of surface effects that can be achieved with decorative concrete, noting that “the only limit is your imagination”.

In the discussions that followed each presentation, participants shared their own experiences, which in many cases differed per country.

Luc Rens adjourned the workshop by thanking the group for their active participation.

The topic of the next Best Practices workshop will be determined taking into account the suggestions by the participants.



## ECLIPS Workshop, “Innovative and Sustainable Concrete Pavements”, 23 March 2017

EUPAVE held the ECLIPS workshop on “**Innovative and Sustainable Concrete Pavements**” on 23 March 2017 in Brussels.

**ECLIPS is a multi-national project** carried out by Arizona State University and University of California Los Angeles (US), Swiss Federal Laboratories for Materials Science (Empa) in Switzerland, Technical University-Delft in the Netherlands, and TECNALIA in Spain. **ECLIPS is working on the incorporation of phase change materials with a suitable phase transition temperature, enthalpy of phase change and degree of dispersion in the concrete.**

The project is funded through the Infravation grant, an initiative of the Conference of European Directors of Roads (CEDR) and coordinated by the Dutch Ministry of Infrastructure and the Environment. You can find more information about Infravation and the project funding on our special ECLIPS webpage. EUPAVE and ACPA (American Concrete Pavement Association) are in charge of the dissemination of the ECLIPS project and main outcomes.

Attended by around 40 participants, the workshop gathered speakers from the project itself and members and partners of EUPAVE.

Karl Downey, Secretary General of EUPAVE, opened the workshop and introduced EUPAVE to the participants. Following this, Mr. William Bird, Project Officer of the Infravation programme at the European Commission, explained the European Commission’s rationale for funding transport research, including the Infravation programme.

Luc Rens, Managing Director of EUPAVE, introduced the speakers and moderated the discussion that followed.

The morning session focused on the results of the ECLIPS research so far. Narayanan Neithalath from Arizona State University and ECLIPS Project Coordinator gave a presentation on this multinational collaboration on enhancing concrete

durability in transportation infrastructure.

Edurne Erkizia from TECNALIA presented the synthesis of silica encapsulation of phase change materials for addition to concrete.

Gaurav Sant from the University of California Los Angeles presented the measuring, modelling and characterising the influence of phase change materials in concrete pavement applications.

Andreas Leeman from EMPA presented the impact of PCM on thermal cracking sensitivity and deformability response.

Erik Schlangen from TU DELFT presented the influence of PCM on micromechanical properties of cement paste and risk of cracking in concrete.

After lunch, Peter Wilbers, of the Dutch Ministry of Infrastructure and the Environment, and Infravation Programme Coordinator, presented the programme.

The afternoon focused on innovations from industry. Luc Rens, EUPAVE Managing Director, gave a presentation on pervious concrete pavements.

Sergio Tortelli from Italcementi–HeidelbergCement demonstrated a case of sustainable jointless paving using calcium sulpho-aluminate (CSA) cement.

Anne Beeldens from AB-Roads presented the inductive charging through concrete roads with a Belgian case study and application.

Steven Schaerlaekens from Holcim Belgium presented ultra-high performance concrete for durable transport infrastructure.

Narayanan Neithalath gave the concluding remarks of the workshop and thanked the attendees for their participation.

## EU Event “Road infrastructure for connected, autonomous and electric vehicles”, 28 June 2017

On Wednesday, 28 June EUPAVE and MEP Isabella De Monte held a breakfast debate on **“Road infrastructure for connected, autonomous and electric vehicles”** in the European Parliament. Around 40 attendees included several MEPs and representatives of the European Commission.

Ms. Isabella De Monte – Member of the European Parliament – and Mr. Stéphane Nicoud – President of EUPAVE – welcomed those in attendance, highlighting the importance of infrastructure in the discussion on vehicles of the future.

MEP Isabella De Monte began by emphasising the crucial role that infrastructure itself has in moving towards low-emission mobility, both by easing the transition to automated and electric vehicles, and also because smooth, rigid pavements reduce emissions even from traditional vehicles. She urged the European Commission and the Member States to use European funding for all initiatives that contribute to a sustainable and efficient transport network.

President Nicoud indicated that connected, autonomous and electric vehicles need road infrastructure with specific characteristics – e.g. durability and predictability. In this sense, concrete pavements offer many advantages and facilitate the transition to autonomous and electric vehicles.

Mr. Aniceto Zaragoza, General Director of Oficemen, in his presentation “New infrastructure for electric, cooperative and autonomous trucks”, indicated that autonomous and electric vehicles have great advantages – like emission reduction – but also pose challenges for infrastructure, in terms of road wear, predictability and liability in case of accidents. He concluded that “we need

a new generation of infrastructure for a new mobility”.

Mr. Jeroen de Vrieze, from KWS, spoke about the “Autonomous vehicles in the Port of Rotterdam”. He pointed out that the implementation of this type of vehicle was a challenge for the port infrastructure. Since the autonomous vehicles always travel on precisely the same path, it had been necessary to employ a very durable and resistant structure, which is why concrete paving was chosen. This experience offers lessons that can be relevant for other applications, such as truck platooning, which will suffer the same issues.

Mr. Patrick Akerman, from Siemens, focused his speech on “E-highways: infrastructure for electric trucks”. He noted that large emissions reduction can be achieved by focusing only on heavily frequented routes and on heavy vehicles. The solution proposed focuses on the electrification of trucks using overhead lines.

Ms. Cristina Marolda, from the European Commission’s DG MOVE, in her presentation “Road infrastructure to support the transition to automated driving”, indicated that there will be a moment of transition in which two totally different types of vehicles will have to coexist together. Thus, road infrastructure will play a major role in this period of transition to ensure safety. She pointed out that there is a specific call under Horizon 2020 about automated road transport. She concluded by stressing that infrastructure must be ready for this type of vehicle and that both policy-makers and competent authorities should be aware of this.



*All speakers reunited*





There followed a lively debate on the topic. MEPs Wim van de Camp, Ismail Ertug, Andor Deli, and Henna Virkkunen took the floor to comment and ask questions. It was noted that the Commission has done much to date on connected, autonomous and electric vehicles, but the results are fragmented and need to be put together – for instance, in a green paper. The recent legislative package “Europe on the Move” does not sufficiently note the contribution that infrastructure makes to low-emission mobility.

MEP Isabella de Monte concluded the debate and again stressed the need for adequate infrastructure, and appropriate use of funding. She thanked the attendees for their presence and active participation.



Breakfast Debate on

**“Road infrastructure for connected, autonomous and electric vehicles”**

Hosted by MEP Isabella de Monte



**Wednesday, 28 June 2017**

**From 8.00 - 9.30 am**

**Members' restaurant, European Parliament**

Bât. Altiero Spinelli 60 rue Wiertz / Wiertzstraat 60, 1000 Bruxelles/Brussels

For more information please contact Ms. Elise Carabedian [e.carabedian@eupave.eu](mailto:e.carabedian@eupave.eu) or go on [www.eupave.eu](http://www.eupave.eu)

## Agenda

### EUPAVE/FEBELCEM joint Workshop on Slipform Paving at MATEXPO, 7 September 2017

The Federation of the Belgian Cement Industry, FEBELCEM, and the European Concrete Paving Association, EUPAVE organised on 7 September 2017 a joint workshop on “Slipform pavers”.

“For more than 50 years, slipform pavers have been used for the construction of concrete roads, safety barriers, kerbs and gutters. They turn the fresh concrete into a finished high-quality product, and are fast and accurate. Thanks to continuous development and new equipment, they have become an indispensable tool for a concrete pavement contractor.”

EUPAVE counts among its members the 4 main slipform pavers manufacturers: Gomaco, Guntert & Zimmerman, Wirtgen, Power Curbers. Three of them delegated speakers for this workshop which was attended by around 60 participants.

Luc Rens, Managing-Director of EUPAVE, opened the workshop and introduced EUPAVE and the speakers to the participants. Following this, Mr. Rolf C. Guntert, Vice-President of Guntert & Zimmerman, explained how to achieve high quality concrete pavements for the motoring public.

Mr. Rory Keogh, Managing-Director of GOMACO International Limited in the UK presented the concrete slipform paving, the way it works, its potential problems and a range of solutions.

Mr. Patrick Zanen, Head of Sales Slipform Paving and Product Manager at Wirtgen, introduced the offset applications.

Afterwards, at the outdoor exhibition, the audience visited the stands of De Bruycker and Wirtgen where slipform pavers from Gomaco and Wirtgen were presented.

The workshop and visit ended with a walking lunch organised by MATEXPO.

We wish to thank one more time our speakers for their great contribution and the MATEXPO team for the opportunity.



The Federation of the Belgian Cement Industry, FEBELCEM, and the European Concrete Paving Association, EUPAVE, invite you to

**Workshop on Slipform Pavers**

Thursday 7 September 2017 from 10.00 to 12.00

**At MATEXPO 2017**

Meetingcenter room MC3  
Kortrijk Xpo, Doorniksesteenweg 216, 8500 Kortrijk Belgium



## Agenda

## EUPAVE 10-year anniversary event and workshop

### EUPAVE internal workshop on “Successes and Failures in promotion of concrete paving – learning from others”

EUPAVE organised on 11 December 2017 an intern workshop on “Successes and failures in promotion of concrete paving – learning from others” dedicated to its members and partners. Attended by 20 participants and taking place at the Metropole Hotel in the center of Brussels, this seminar included various presentations from Belgium, Poland, Spain, Italy and Netherlands.

Mr. Andre Burger, Vice-President of EUPAVE, opened the workshop and introduced the objectives of the meeting such as discussing the current situation of concrete pavements in Europe and analysing the existing market barriers. The first results of a survey on the market of concrete pavements and barriers which has been circulated among members and partners were also released. The results of the consultation should be released next year.

Mr. Luc Rens, Managing-Director of EUPAVE, presented the case of concrete cycle paths in

Belgium which represent 58% of all cycle paths.

He was followed by Mr. Jan Deja, Director of the Polish Cement Association, who presented the concrete motorways of the country. In Poland about 650 kms of motorways and 800 kms of local roads are built with concrete.

After lunch, Mr. Rafael Rueda from IECA introduced the concrete paving for ports taking for example the Port of Valencia.

Mr. Paolo Piersantelli from Calcestruzzi talked about concrete for tunnels in Italy. Indeed, as he said, a number of tunnel fires in Europe showed the tragic effects of road accidents, “consequences that have clearly demonstrated the need for an appropriate choice of materials to ensure high safety and reliable availability to traffic”.

The workshop came to an end with the presentation of Mr. Wim Kramer from Cement&Beton Centrum on the advantages of using concrete for overnight truck parking with examples from the Netherlands.



*Participants to the workshop, 11 December 2017*

## **EUPAVE 10-year anniversary event: “The future of sustainable transport infrastructure in Europe”**

Following the seminar, the evening event with theme “the future of sustainable transport infrastructure in Europe” started at 17.30 and took place in the Ravenstein room of the Metropole Hotel.

The event was attended by members and partners of the Association and invited guests. The evening was also the occasion to discuss the future of transportation infrastructure in Europe. All stakeholders of the main International and European road related organisations were represented and gave their views on the main theme.

Mr. Stéphane Nicoud, President of EUPAVE, opened the event thanking all the attendees for their presence and highlighting the intense activity that EUPAVE carried out in the European arena for the past ten years. Afterwards, he addressed the European Commission to request that the target of reusing 70% of the waste generated by construction and demolition (CDW) can actually be achieved by 2020. The technology for the separation and recovery of construction and demolition waste is well established, readily accessible and in general inexpensive. Indeed the percentages of recycling can vary from 25% to 90% among the Member States. Likewise, concrete makes up a large portion of this waste (50%) and despite what many people often think, is 100% recyclable.

Mr. André Burger, Vice-President of the Association gave a short presentation on the history of our Association and highlighted the major events of the past decade.

Mr. Daniel Calleja, General-Director of DG ENVI, said a few words on the resource efficient and sustainable infrastructure construction. He indicated that sustainability is the key word that should serve as a guide to achieve a zero-waste

society. He also pointed out that following the precepts of the circular economy means obtaining not only environmental and social benefits, but also economic ones. Indeed the most sustainable companies are obtaining greater annual profits and, “sustainability and competitiveness are no longer incompatible” he said.

For its part, the European Commission supports sustainability in construction through green public procurement and tools such as the European Fund for Strategic Investments (EFSI), that supports investments in infrastructure projects.

He was followed by Mr. Claude Van Rooten, President of the World Road Association who presented the future challenges of the road sector and indicated the use of recycled aggregates in the new concrete pavements as a key issue.

Mr. Steve Phillips (Conference of European Directors of Roads), Mr. Christophe Nicodème (European Union Road Federation), Mr. Thierry Goger (Forum of European National Highway Research Laboratories) and by video, Mr. Gerald Voigt (American Concrete Pavement Association) and Mr. Jeffery Roesler (International Society for Concrete Pavements) shared a few words on their history and collaboration with EUPAVE.

Mr. Stéphane Nicoud, President of EUPAVE, ended the speeches with a look into the future of the Association, “[we] will do more and better in the forthcoming ten years”, and presented EUPAVE’s brand new website ([www.eupave.eu](http://www.eupave.eu)) and refreshed logo.

Press release: <https://www.eupave.eu/wp-content/uploads/PRESS-RELEASE-EUPAVE-10-year-anniversary-event.pdf>





*André Burger, Vice-President, EUPAVE*



*Participants to the dinner*



*Stéphane Nicoud, President, EUPAVE*

## g. EUPAVE Webinar

### EUPAVE & ISCP joint webinar on “Best Practices of Concrete Overlays in the U.S.”

The International Society for Concrete Pavements and EUPAVE jointly organised a webinar on “Best Practices of Concrete Overlays in the U.S.”. The webinar was held on 31 May 2017 from 15.30 to 17.00 (Brussels time).

Concrete overlays are sustainable solutions for resurfacing and rehabilitating existing pavements. Overlays have occasionally been used in some European countries, mainly those which are familiar with concrete pavements.

Throughout the U.S. concrete overlay solutions has increased dramatically in the past 25 years and has become a standard strategy to rehabilitate and preserve an existing roadway structure.

The objective of the webinar was to provide an overview of the types of concrete overlay options and when to apply them, existing methods to design concrete overlays, variations in construction procedures to build concrete overlays, and

performance of thinner concrete overlays and lessons learned with experts from the U.S.

The webinar included:

- a short introduction on “concrete overlays in Europe” by Luc Rens, Managing Director of EUPAVE, Consulting Engineer at FEBELCEM and Board Director of ISCP,
- an “introduction on overlay types, applications” by Dr. Jeffery Roesler, P.E. CEE Professor-University of Illinois Urbana-Champaign and President of ISCP,
- a presentation of performance of thinner concrete overlays by Randy Riley, PE, Executive Director Illinois ACPA
- a presentation of concrete overlay experience in Minnesota by Tom Burnham, PE, Research Engineer Minnesota Department of Transportation and Board Director of ISCP

**2017**

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ACPA Members & Non-Members:  
Individual: \$ 20 ACPA Members  
\$ 30 Non-Members  
Group: \$ 50 ACPA Members  
\$ 75 Non-Members  
**Webinar Registration:**  
[www.acpa.org/upcoming-webinars-meganars-and-workshops/](http://www.acpa.org/upcoming-webinars-meganars-and-workshops/)

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## IV. REPRESENTATION

Month	Day	Activity
January		
February	27	Elise Carabedian participated to the CEF Transport Blending call info day (Innovation and networks executive agency)
March	8	Elise Carabedian participated to the ERTRAC Annual Conference “Digitalisation and Decarbonisation towards the future European Transport System”
April	6	Karl Downey participated in the 2017 FEHRL Infrastructure Research Meeting (FIRM17) organised by FEHRL (the Forum of European National Highway Research Laboratories).
	27	Elise Carabedian participated in the Conference Driving Mobility to a low carbon future organized by the European Aluminum association.  Karl Downey met with the Platform for Electro Mobility regarding a potential EUPAVE’s affiliation to the platform.
May		
June	2	Elise Carabedian participated in the Conference on Strategic Public Procurement organized by the European Commission and the OECD
	7	Elise Carabedian participated in the Conference on Decarbonisation of Road Transport organized by the Forum for Electro Mobility
	23	Karl Downey participated as speaker in the International Institute For Sustainable Development Workshop entitled “Public Procurement and Innovation for Low-Carbon Infrastructure”. His participated in an intervention on “Innovation in low-carbon building materials” alongside Cédric de Meeûs (LafargeHolcim).  Luc Rens participated in a meeting with DG CLIMA with ACEA
July		
August		

Month	Day	Activity
September	21	Luc Rens participated as speaker in the 2017 edition of the AFB20 (2) Workshop on Roadside Safety Design organized by the European Union Road Federation (ERF) in cooperation with the International Road Federation (IRF) and the Transportation Research Board (TRB).
	27	Elise Carabedian participated in a Zero Carbon Lang Freight event organized by Transport and Environment
October	2	Elise Carabedian participated in a meeting with at ACEA's office ahead of the European Parliament breakfast of 17 October
	17	Elise Carabedian participated in the EP Breakfast meeting organized by ACEA to present the TML's report  Elise Carabedian and Manuela Ojan (from HeidelbergCement and EU Advocacy WG member) met with the Platform for Electro Mobility to further present EUPAVE and its motivations to join the platform.
	27-28	Luc Rens participated and gave a presentation during a workshop organized by EUAPVE's partner, ZBS, in Slovenia for the construction of their first concrete roundabout.
November		
December	13	Elise Carabedian participated in a infoday on Horizon 2020

## Collaboration with stakeholders - in details

### ISCP (International Society for Concrete Pavements°

Mr. Luc Rens continued in 2017 his position as a Director of the Board in ISCP and participated in the conference calls of the Board Meeting.



### PIARC (World Road Association)

In 2017, Luc Rens participated as corresponding member in the Technical Committee E2 "Environment considerations in road projects and operations".



## ERF (European Road Federation)

EUPAVE continued membership of the European Union Road Federation and participated in the ERF working groups as well as other activities:



→ ERF Plenary Assembly;

→ ERF Working Group on Road Restraint Systems

→ 21 September 2017: Luc Rens participated as speaker in the 2017 edition of the AFB20(2) Workshop on Roadside Safety Design organized by the European Union Road Federation (ERF) in cooperation with the International Road Federation (IRF) and the Transportation Research Board (TRB). He gave a presentation on “50 Years Durability for Vehicle Restraint Systems (VRS) – Research on Artificial Aging of In-Situ Concrete Barriers”.

## FEHRL (Forum of European Highway Research Laboratories)



6 April 2017: Karl Downey participated in the 2017 FEHRL Infrastructure Research Meeting (FIRM17) organised by FEHRL (the Forum of European National Highway Research Laboratories) from 5-7 April 2017. The programme included an engaging mix of reports on research projects and discussion about policy for the future of the road network.

EUPAVE Secretary General, Karl Downey, and Carsten Karcher of EAPA presented the joint EUPAVE-EAPA-FEHRL position paper on the link between the state of the road network and CO<sub>2</sub> emissions from vehicles. The publication highlights that road pavements have a key contribution to make in reducing CO<sub>2</sub> emissions and shows how an upgrade of one third of the entire road network of Europe by 2030 could lead to yearly savings of 14 million tonnes of CO<sub>2</sub>. If two thirds of the network were upgraded, this could be 28 million tonnes of CO<sub>2</sub> saved yearly.

## ACEA (European Automobile Manufacturers' Association)

EUPAVE is an active participant in the work initiated by ACEA to quantify the contributions to reducing CO<sub>2</sub> emissions from all actors in the road transport value chain. In this regard, pavements, and concrete pavements in particular, can contribute to reduced emissions from vehicles.



EUPAVE participated in various meetings organised by ACEA in 2017:

→ Luc Rens attended the meeting with DG CLIMA on 23 June 2017;

→ Elise Carabedian attended the EP breakfast preparatory meeting the 2 October and the EP breakfast for the presentation of the TML's report on 17 October.



## European Commission

EUPAVE participated in a conference on Strategic Public Procurement in Paris on 2 June. It was organised by the European Commission and the OECD.



## European Parliament

EUPAVE continued its regular meetings with Members of the European Parliament and hosted an event on 28 June 2017 (see EU Event)



## ERTRAC (European Road Transport Research Advisory Council)

EUPAVE remained a member of ERTRAC in 2017.



On 8 March, Elise Carabedian participated in the ERTRAC annual conference “Digitalisation and Decarbonisation towards the future European Transport System”

## V. EUROPEAN RESEARCH

In 2014, EUPAVE participated in the project proposal under Infraction Call “ECLIPS – Enhancing Concrete Life in Infrastructure through Phase-Change System” as subcontractor in the dissemination phase.

The project kicked off in September 2015. The content of the subcontract covers:

- The dissemination of ECLIPS project including the project highlights and the technical notes on EUPAVE website and newsletter, during EUPAVE meetings (in 2016-2017-2018).
- Organization of one international workshop (in 2017).

In 2017, EUPAVE:

- released 1 newsletter in June 2017 including the 3rd technote of the project (<https://www.eupave.eu/wp-content/uploads/EUPAVE-Newsletter-june-2017.pdf>)
- shared the technotes on Twitter and LinkedIn
- organised a workshop to present the project (see report in EUPAVE events)
- announced the workshop of March 2017 on [www.eupave.eu](http://www.eupave.eu),
- discussed the project at various EUPAVE meetings (EUPAVE Technical and Promotion Committee meetings of 22 March 2017, EUPAVE Best Practices WG Meetings of 9 January 2017, EUPAVE Workshop on Best Practices in Concrete Paving of 23 January 2017)

Luc Rens mentioned the project during his presentation on innovations during the Belgian Road Congress of 4-6 October 2017 in Brussels.

Mr. Claude Van Rooten, President of the World Road Association (PIARC) mentioned the project in his speech during EUPAVE 10-year anniversary event of 11 December 2017 in Brussels.

## VI. INTERNAL ORGANISATION

EUPAVE bodies had several meetings in 2017 in order to continue the work and progress in the internal organisation, to set out the strategy and decide on different forms of promotion, events and seminars. The Technical and Promotion Committee, EU Advocacy Working Group (WG), Best Practices WG and Concrete Safety Barriers WG serve as advisory body for the Board of Directors.

One ordinary General Assembly was held on 28 June 2017 in Brussels.

### **Four Board meetings were organised on:**

- 22 March 2017;
- 28 June 2017;
- 18 October 2017
- 12 December 2017.

### **Four Technical and Promotion Committee meetings were held on:**

- 22 March 2017;
- 28 June 2017;
- 18 October 2017
- 12 December 2017.

### **Working Groups**

#### **Five EU Advocacy WG tele-conferences and one meeting were held on:**

- 26 January 2017;
- 16 March 2017;
- 8 May 2017;
- 6 September 2017;
- 24 November 2017.

#### **Seven Concrete Safety Barriers WG tele-conferences were held on:**

- 17 January 2017;
- 6 March 2017;
- 10 May 2017;
- 6 July 2017;
- 13 September 2017;
- 7 November 2017;
- 20 December 2017.

#### **Four Best Practices WG tele-conferences were held on:**

- 9 January 2017;
- 7 March 2017;
- 18 May 2017;
- 9 November 2017.

