

ZAS and Asefma in collaboration with EAPA,
are pleased **to invite** you to the

III. INTERNATIONAL CONFERENCE ON

ASPHALT 4.0

LJUBLJANA • SLOVENIA

24 – 25 SEPTEMBER 2024

INVITATION

www.zdruzenje-zas.si
www.ica4point0.com

Organised by

 ZAS

 asefma

Supported by
 EAPA



Dobrodošli v Ljubljani

Welcome to the ICA 4.0

Transportation infrastructure is essential for ensuring the safe and efficient movement of vehicles and people within a given area. In addition to the physical infrastructure itself, it also involves traffic organization, including relevant legislation and trained personnel.

Asphalt is the primary construction material used in transportation infrastructure - from roads and airports to ports and railways. For decades, it has provided safe, comfortable, and dust-free traffic conditions. Moreover, asphalt is an excellent example of a circular economy, as it can be fully reused while maintaining high energy value.

With the rise of the new industrial revolution and the development of technologies such as intelligent transport systems, e-mobility, blockchain, digital twins, and artificial intelligence, the connection between vehicles and transportation infrastructure is becoming increasingly important. Asphalt, which forms the upper layers of road structures, is a key element in this connection. It can serve as an energy storage medium, a platform for communication links, or a foundation for advanced traffic signalling.

When we combine **infrastructure, vehicles, and users**, we create a powerful synergy for digital transformation in transportation. The asphalt industry is already one of the most digitalised sector in construction, making the future development toward digital transformation an integral part of the **ASPHALT 4.0** concept, which is also the central theme of the **ICA 4.0** International Conference.

In 2022 and 2023, the Spanish Asphalt Association ASEFMA, in collaboration with the Slovenian Asphalt Pavement Association ZAS and with the support of the European Asphalt Pavement Association EAPA, hosted the first and second ICA 4.0 International Conferences in Madrid. We are pleased to announce that the third conference will take place in **September 2024 in Ljubljana**. The strong interest from companies and experts shows that this type of conference provides important opportunities for presenting and implementing new technologies, where we will strive for even greater efficiency in Europe and the practical application of new ideas.









Industry representatives, administration officials, academic institutions, and universities, we warmly welcome you to Ljubljana!

Slovenko Henigman
President of ZAS, Slovenian Asphalt Pavement Association

PROGRAM

🕒 9:00 – 10:00

OPENING SESSION









ZAS			SLOVENKO HENIGMAN , President of ZAS, Slovenian Asphalt Pavement Association
ASEFMA			JUAN JOSÉ POTTI , President of ASEFMA, Spanish Asphalt Pavement Association
EAPA			RALF POMP , President of EAPA, European Asphalt Pavement Association
MzI			ANDREJ RAJH , State Secretary at Ministry for Infrastructure
MTMS			IMANOL GARCÍA , Innovation Expert at the Ministry of Transport and Sustainable Mobility of Spain Implementation of Sustainable Pavement Solutions within the Spanish National Road Administration

10:00 – 10:15 ☕ Break

I. Intelligent Transport System (C-ITS) & Cooperative, Connected and Automated Mobility (CCAM)

🕒 10:15 – 11:15

Moderator: Ulrich Zorin











DARS			Ulrich Zorin	Motorway of the Future
SIMETRIA GROUP			Aida Marzá Beltrán	Review of the Application of New Technologies for Road Pavement Condition Monitoring
XOUBA Spain			Miguel A. Muñoz	Continuous Road Network Monitoring Using Connected Vehicle Data
FEHRL			Thierry Goger	AUGMENTED CCAM project. Augmenting and Evaluating the Physical and Digital Infrastructure for CCAM Deployment

11:15 – 11:45 ☕ Break

II. Project Design, Digital Twins and Digitalization (Artificial Intelligence)

11:45 – 13:15

Moderator: Juan José Potti

INFRATEST		 Ersun Görener	Digitalization in Asphalt Road Construction. Special Features, Possibilities, Limitations
&nbsp; Partner in solution		 Natascha Poeran	A Fundamental Framework for Data-driven, functional Validation of Pavement Performance
DARS		 Jaka Gorišek	Digitalisation of DARS Road Infrastructure
Q POINT GROUP		 Thomas Leopoldseder	Efficient Asphalt Production through Digital Order, Production, and Delivery Management and the (Multi-) plant Analysis of Process Data from the Plant Control System
&nbsp; Partner in solution		 Berwich Sluer	Ontologies, the Beating Heart of Common Data Platforms

13:15 – 14:30 🍴 Lunch

14:30 – 15:00

INVITED LECTURE









ROBERTO NUÑEZ DEL RIO

Digitalisation Management and Users Experience

III. Technology Suppliers, Market Uptake and Quality control for Innovative Products

15:00 – 16:30

Moderator: Slovenko Henigman

IGMAT		 Roman Bašelj	Transport of Low Temperature Asphalt with Push-Off System
TRGOGRAD		 Klemen Šobak	
STRABAG		 Márton Hittner	Logistics Control System for Digital Road Construction





III.				
IGMAT		Grega Sever		IQS - Igmt Quality System
INTERCHEM		Stephan Harnischfeger		Warm Mix Asphalt with Synthetic Zeolite
PETROL		Bojan Kurež		Barje - the Largest and most Modern Petrol's Station

17:45 > Departure on a guided tour to Petrol Station Barje Sever and to the National Traffic Management Centre Dragomelj

WEDNESDAY 25 September 2024

IV. Asset Management System and Environment Standards
9:00 – 10:15 Moderator: Breixo Gomez Meijide

EAPA		Breixo Gomez Meijide		Towards Net zero
ZAG		Rok Vezočnik		Surface-wise Road Geometry Assessment Using Terrestrial Laser Scanning
XOUBA Spain		Miguel A. Muñoz		Assessing the Impact of Road Roughness Improvements on Emissions and Fuel Consumption Using Connected Vehicle Data
ZAG		Maja Kreslin (photo), Andrej Anžlin		Development of Digital Bridge Inspection
CESTEL		Martin Hauptman (photo), Matija Mavrič		Distribution of Axle Loads Across Road Networks: a Case Study of Slovenia

10:15 – 10:30 Short Break

10:30 – 11:30 **WORKSHOP ~ PRACTICAL EXPERIENCE WITH:
PADECASA, XOUBA Spain, QPOINT and DARS**
Moderator: Breixo Gomez Meijide

11:30 – 12:15 Long Break

V.

New Generation of Asphalt Production - Asphalt Laying and Safety at Work Zones.



🕒 12:15 – 13:45

Moderator: Matthias Martus

MAPRI PROASFALT			Iztok Poljanšek	Digital Support for Asphalt Rollers
			Primož Petrič	
VENTRACO			Bart Helincks	Creating a Bicycle Paradise with Coloured Asphalt
PADECASA			Jorge Salas Herranz	Twin Asphalt, a Simulation-based Solution for Improved Hot-mixed Asphalt Production Efficiency
ZAG			Rok Rudolf	Innovative Approaches to Noise Measurement and Environmental Footprints on Asphalt Pavements
DARS			Zvonko Zavasnik	Work Zones - Necessity and Responsibility

🕒 13:45 – 14:00

✂️ CLOSING OF CONFERENCE ICA 4.0

Lectures and events will be held in English.

REGISTRATION FORM for Conference Participants at the III. International Conference Asphalt 4.0, Ljubljana, Sept. 2024

Registration FORM >

Registration Fee:

a – **Non-member of ZAS = 549,00 EUR** including VAT (450,00 EUR + 22% VAT)

b – **Member of ZAS* = 353,80 EUR** including VAT (290,00 EUR + 22% VAT)

The registration fee must be paid **by Friday, 13 September 2024.**

*Applies to ZAS members with paid membership for the year **2023.**



**HOTEL UNION
LJUBLJANA
24. - 25. 9. 2024**



THE HOTEL GRAND HOTEL UNION & EUROSTARS HOTEL

Built in 1905, Grand Hotel Union Eurostars is an iconic establishment that's part of the living history of both Ljubljana and Slovenia. This beautiful, striking building is a prime example of the Vienna Secession style, part of the Art Nouveau movement, and has hosted many personalities from the world of politics, film, music and even royalty over the years, including Queen Elizabeth II.

The hotel's elegant facilities are decorated with care and attention to detail while its spacious bedrooms ensure a comfortable, relaxing stay. There are also plenty of dining options at the Grand Union Café, Atelje Restaurant and Union Restaurant, where guests can enjoy the best Slovenian dishes together with delicious local wines.

A wellness centre, gym, swimming pool with views of Ljubljana Castle, shopping arcade, and the city's largest conference centre complete the hotel's facilities.

Function rooms

Grand Hotel Union Eurostars boasts Ljubljana's largest conference centre, with 3000 m² of multifunctional spaces for hosting all kinds of events, from gala dinners to business lunches. Each year, the hotel organises some 800 events in its function rooms, including the Union Hall, a former ballroom that's a true Art Nouveau masterpiece and can accommodate up to 700 people.

WELCOME TO LJUBLJANA



Organization & Program Committee

Slovenko Henigman, Sloman & ZAS
Juan José Potti, Asefma
Breixo Gomez Meijide, EAPA
Sara Pečenik Celestina, Sloman
Tadeja Horvat, ZAS

Robert Mihelčič, RM design
Borut Willenpart, BGR
Roman Bašelj, Igmat
Vasja Grmek, Pomgrad
Darko Kokot, ZAG

Matija Mavrič, Cestel
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SPONSORSHIP

at the III. International Conference Asphalt 4.0, Ljubljana, Sept. 2024

Understanding the importance of company presentations, we have prepared two sponsorship options: Major Sponsor or Sponsor. Both types of sponsorship offer a range of benefits for companies, including 5 or 2 registration fees. Detailed sponsorship options are described in the attached registration form.

[Registration FORM >](#)



ADDITIONAL INFORMATION

www.zdruzenje-zas.si

www.ica4point0.com

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