



# XX International SIIV Summer School

## ADVANCES IN PAVEMENT AND HIGHWAY ENGINEERING

Università degli Studi di Udine  
September 9<sup>th</sup> – 13<sup>th</sup> 2024

## Introduction

SIIV – Società Italiana Infrastrutture Viarie and the Polytechnic Department of Engineering and Architecture (DPIA) – University of Udine are proud to announce they are jointly organizing the XX International SIIV Summer School, that will be held in Udine on September 9<sup>th</sup> – 13<sup>th</sup>, 2024. The XX International SIIV Summer School edition is aimed at discussing the most innovative topics within the general framework of pavement and highway engineering. Cutting-edge technologies for pavement materials will be presented and deeply discussed, also with respect to road construction sustainability and resilience against extreme events related to climate change. Through lectures, workshops, and technical visits provided by both industry and academic experts, attendees will be able to gain practical insights into relevant topics including, but not limited to, bio-binders, high-performance super-modified bitumen, advanced chemo-mechanical materials characterization, pavement durability, as well as smart roads and car driving simulations. SIIV ARENA will also take place, providing an attractive opportunity for doctoral students in the field of road infrastructures to share the research projects they are currently working on.

## Venue

SIIV lectures will be held at the Lecture Hall of the DPIA (Via Fausto Schiavi, 44, 33100 Udine UD).



Institutional greetings and the SIIV ARENA will be held at the Là di Moret Hotel (Via Tricesimo, 276, 33100 Udine UD) where attendants will be accommodated as well.



## Organizing Committee

Prof. Nicola Baldo (Univ. di Udine)  
Ph.D. Fabio Rondinella (Univ. di Udine)  
Eng. Fabiola Daneluz (Univ. di Udine)  
Eng. Fatemeh Samareh (Univ. di Udine)

## Scientific Committee

Prof. Bernhard Hofko (Vienna Univ. of Technology), Prof. Jan Valentin (Czech Technical Univ. in Prague), Prof. Evangelos Manthos (Aristotle Univ. of Thessaloniki), Prof. Chris Lee (Univ. of Windsor), Prof. Augusto Cannone Falchetto (Univ. di Padova), Prof. Davide Dalmazzo (Politecnico di Torino), Prof. Edoardo Bocci (Univ. Telematica E-Campus), Prof. Davide Lo Presti (Univ. di Palermo), Prof. Gilda Ferrotti (Univ. Politecnica delle Marche), Prof. Orazio Baglieri (Politecnico di Torino), Prof. Nicola Baldo (Univ. di Udine), Prof. Felice Giuliani (Univ. di Parma), Prof. Andrea Simone (Univ. di Bologna), Prof. Gianluca Dell'Acqua (Univ. di Napoli Federico II), Prof. Marco Pasetto (Univ. di Padova).



### September 9<sup>th</sup> (Monday)

- 14.00 – 14.30 Guest registration at Là di Moret Hotel
- 14.30 – 15.00 Welcome cocktail and Summer School General Introduction: Prof. Orazio Baglieri (SIIV President), Prof. Nicola Baldo (Coordinator of the Organizing Committee)

#### **Technical WORKSHOP**

Meeting Room – Là di Moret Hotel

- 15.00 – 15.45 Dott. Marco Ferrari, Controls, “Challenges in performance testing of asphalt mixes”.
- 15.45 – 16.30 Ing. Francesco Petrucco, ICOP, “PLT- Trieste Logistic Platform Port Infrastructure and Sustainability”.
- 16.30 – 17.00 Coffee break
- 17.00 – 17.45 Dott. Massimo Paolini, Valli Zabban, “L’influenza dei materiali di recupero, aggiunti in un conglomerato bituminoso, sulle prestazioni visco elastiche del legante contenuto”.
- 17.45 – 18.30 Ing. Loretta Venturini, Ph.D., Iterchimica, “The future is already present: technologies for sustainable asphalt concretes”
- 20.00 Dinner at the Hotel

### September 10<sup>th</sup> (Tuesday)

- 8.30 Transfer to Lecture Hall of UNIUD library

#### **SIIV LECTURES**

Chairman: Prof. Orazio Baglieri (PoliTO)

- 8.45 – 9.15 Institutional greetings: Prof. Orazio Baglieri (SIIV President), Prof. Andrea Cafarelli (Deputy Pro-Rector of UNIUD), Prof. Alessandro Gasparetto (Head of the DPIA - UNIUD)
- 9.15 – 10.30 Prof. Bernhard Hofko, TU Wien, “Bitumen – a “dark matter” – insights into ageing and advanced analysis”.
- 10.30 – 11.00 Coffee break
- 11.00 – 12.15 Prof. Davide Dalmazzo, PoliTO, “DSR Testing: Conventional and Unconventional Applications in Road Materials Characterization”.
- 12.15 – 13.30 Prof. Gilda Ferrotti, UNIVPM, Politecnica delle Marche, “Warm mix asphalt technology for sustainable pavements”.
- 13.30 Light lunch
- 15.30 Excursion to Udine city center and visiting
- 20.00 Dinner in Tarcento at “Osteria di Villafredda”
- 22.00 Transfer to the hotel

### September 11<sup>th</sup> (Wednesday)

- 8.30 Transfer to Lecture Hall of UNIUD library

#### **SIIV LECTURES**

Chairman: Prof. Gianluca Dell’Acqua (UNINA)

- 9.00 – 10.15 Prof. Evangelos Manthos, AUTH, “The use of bio-materials in pavement engineering”.
- 10.15 – 10.45 Coffee break
- 10.45 – 12.00 Prof. Edoardo Bocci, Univ. eCampus, “The technological evolution on bitumen modification: from hard to HiMA”.
- 12.00 Transfer to Gorizia
- 13.30 Lunch in Gorizia at “Atmosfera La Stüa”
- 16.30 Excursion to Trieste city center and visiting
- 20.00 Dinner in Trieste at “La Chimera di Bacco”
- 22.00 Transfer to the hotel



## September 12<sup>th</sup> (Thursday)

- 8.30 Transfer to Lecture Hall of UNIUD library

### SIIV LECTURES

Chairman: Prof. Andrea Simone (UNIBO)

- 9.00 – 10.15 Prof. Jan Valentin , TU Prague, “Alternative fillers and active admixtures from industrial by-products and quarry dusts in asphalt mixtures – can they be beneficial?”.
- 10.15 – 10.45 Coffee break
- 10.45 – 12.00 Prof. Davide Lo Presti, UNIPA, “Smart roads: European vision and proposed developments”.
- 12.15 – 13.15 Technical visit at the Road Lab car driving simulator of the DPIA.
- 13.30 Light lunch

### Technical WORKSHOP

(Lecture Hall of UNIUD library)

- 14.30 – 15.45 Prof. Chris Lee, UWindsor, “Driver Behavior Research Using a Driving Simulator: Lessons Learned and Future Directions to Improve Road Safety”.

- 16.00 – 18.00 Technical tour of driving simulator manufacturer VI-grade in Tavagnacco
- 18.00 Transfer to the hotel
- 20.00 Gala Dinner at “Casa della Contadinanza”, in the court yard of Udine Castle
- 22.00 Transfer to the hotel

## September 13<sup>th</sup> (Friday)

Meeting Room – Là di Moret Hotel

### SIIV ARENA

Chairman: Prof. Felice Giuliani (UNIPR)

- First session (9.30 – 10.30)
- Coffee break (10.30 – 11.00)
- Second session (11.00 – 12.00)
- Closing session (12.00 – 12.30)
- 12.30 Light lunch

## Contacts

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