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DEPARTMENT OF CIVIL  
AND ENVIRONMENTAL  
ENGINEERING

XIX INTERNATIONAL SIIV SUMMER SCHOOL

## Transportation Infrastructures towards Green Transition

Università degli Studi di Perugia – Dipartimento di Ingegneria Civile e Ambientale



### Introduction

SIIV (Società Italiana Infrastrutture Viarie) and the Department of Civil and Environmental Engineering - University of Perugia, are proud to announce they are jointly organizing, after 20 years from the first edition, the XIX SIIV Summer School to be held on September 4<sup>th</sup> – 8<sup>th</sup>, 2023.

SIIV is a scientific association including most of Italian academics, researchers and scholars involved around transportation infrastructures. SIIV Summer School gathers PhD students, Postdoc fellows and young researchers providing them a platform for discussion and exchange of information.

Graduate students, scholars and faculty from Italian and foreign universities involved in this field are welcome to attend.

### Aim

Due to the widespread use, improving the sustainability of any pavement structure is essential to reap environmental, social, and economic benefits. Furthermore, the increasingly stringent environmental regulations and the need to reduce greenhouse gas emissions have inspired the transportation agencies and practitioners to cycle more waste materials and employ innovative technologies in designing and maintenance of transportation infrastructures.

In this context, the XIX SIIV Summer School focuses on topics related to “Transportation Infrastructures towards Green Transition”.

Accordingly, leading experts in the field have been invited as lecturers to up-to-date knowledge with the aim of promoting green solutions in terms of both materials and technologies. Furthermore, the life cycle assessment of sustainable transportation systems will be addressed by integrating environment, economic and social impacts.

### Venue

SIIV lectures will be held at the [Relais dell'Olmo](http://www.relaisolmo.com) (*Strada Olmo Ellera 4, 06132 Perugia, Italy*), where attendants will be accommodated as well.



[www.relaisolmo.com](http://www.relaisolmo.com)

Meetings and conventions can be hosted in the refined “Sala delle Volte” hall, which is equipped with the most modern devices and can host up to 100 people.

Institutional greetings and the SIIV ARENA, which are scheduled on the first and final days of the event respectively, will be held at the [main hall of the Department of Civil and Environmental](#)

[Engineering - University of Perugia](#) (*Via Goffredo Duranti 93, 06125 Perugia, Italy*).

### Organizing committee

Prof. Gianluca Cerni (University of Perugia), Dr. Alessandro Corradini (University of Perugia)

### Scientific Committee

Ing. Nicoletta Antonias (RFI), Prof. Hassan Baaj (Univ. of Waterloo), Prof. Orazio Baglieri (Politecnico di Torino), Prof. Nicola Baldo (Univ. di Udine), Prof. Gaetano Bosurgi (Univ. di Messina), Prof. Francesco Canestrari (Univ. Politecnica delle Marche), Prof. Gianluca Cerni (Univ. di Perugia), Prof. Gianluca Dell'Acqua (Univ. di Napoli Federico II), Prof. Giovanni Dotelli (Politecnico di Milano), Prof. Andrea Graziani (Univ. Politecnica delle Marche), Prof. Laura Moretti (Univ. di Roma La Sapienza), Ing. Daria Piccioni (RFI), Prof. Cesare Sangiorgi (Univ. di Bologna), Prof. Andrea Simone (Univ. di Bologna), Prof. Lucia Tsantilis (Politecnico di Torino)

### Contacts

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Perugia, September 4<sup>th</sup> – 8<sup>th</sup>, 2023



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### PROGRAM

#### September 4th (Monday)

14.30-15.30: Registration at Department of Civil and Environmental Engineering of Università degli Studi di Perugia

##### OPENING SESSION

Chairman: Prof. G. Cerni, UNIPG

15.30-16.30 Institutional greetings: Prof. Orazio Baglieri (SIIV President), Prof. Maurizio Oliviero (Rector of Università degli Studi di Perugia), Prof. Giovanni Gigliotti (Head of the Department of Civil and Environmental Engineering of Università degli Studi di Perugia), Prof. Filippo Ubertini (Head of the International Doctoral Program in Civil and Environmental Engineering at Università degli Studi di Perugia).

16.30-18.30: Technical WORKSHOP  
Scheduled sessions

18.45 Transfer to the hotel

20.00 Dinner at the hotel – Restaurant “Osteria dell’Olmo”

#### September 5th (Tuesday)

##### SIIV LECTURES

Chairman: Prof. G. Dell’Acqua, UNINA Federico II

09.00-10.15: Prof. Cesare Sangiorgi, Università di Bologna, “Sustainable maintenance techniques for wearing courses: different approaches to 100% asphalt concrete recycling”.

10.15-11.30: Prof. Lucia Tsantilis, Politecnico di Torino, “Sustainability assessment of pavements containing unconventional construction materials”.

11.30-12.00: Coffee break

12.00-13.15: Prof. Giovanni Dotelli, Politecnico di Milano, “Life Cycle Assessment of road pavements and road infrastructures”

11.30-12.00: Coffee break

13.30: Light lunch at the hotel

17.30: Excursion to Perugia city centre (1h30’)

20.00: Dinner

22.00: Transfer to the hotel

#### September 6th (Wednesday)

##### SIIV LECTURES

Chairman: Prof. A. Simone, UNIBO

09.00-11.15: Prof. Laura Moretti & Dr. Giulia Del Serrone, Università di Roma La Sapienza, “Life Cycle Analysis for concrete sleepers: methodology and implementation”.

11.15-12.00: Coffee break

12.00-13.15: Ing. Daria Piccioni & Ing. Nicoletta Antonias, Rete Ferroviaria Italiana (RFI), “The value of sustainable infrastructures for the green transition”.

13.30: Light lunch at the hotel

17.00: Excursion to Assisi city centre and Basilica S. Francesco (2h)

19.30: Transfer to Spello

20.30: Dinner in Spello - Restaurant “La Cantina”

22.00: Transfer to the hotel

#### September 7th (Thursday)

##### SIIV LECTURES

Chairman: Prof. F. Canestrari, UNIVPM

9.00-10.15: Prof. Andrea Graziani, Università Politecnica delle Marche, “The ACR-PCR method to report airport pavement strength”.

10.15-11.30: Prof. Nicola Baldo, Università di Udine, “Performance evaluation of sustainable pavement materials by machine learning methods”.



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11.30-12.00: Coffee break

12.00-13.15: Prof. Hassan Baaj, University of Waterloo, “The Green Shift Towards More Sustainable Transportation Infrastructures – The Canadian Experience”.

13.30: Light lunch at the hotel

18.00: Transfer to Poggio Santa Maria Winery

20.00: Gala dinner

23.00: Transfer to the hotel

### September 8th (Friday)

08.45 Transfer to DICA

#### SIIV ARENA

Moderator: Ing. A. Corradini, UNIPG

9.30-12.30: SIIV ARENA

10.30-11.00: Coffee break

12.30-12.45: Closing session

13.00: Light lunch

### 8<sup>th</sup> SIIV Arena

SIIV (Società Italiana Infrastrutture Viarie) and the Department of Civil and Environmental Engineering of University of Perugia organize the 8<sup>th</sup> edition of the **SIIV ARENA**.

The SIIV ARENA is an occasion for idea sharing and comparison, in which PhD candidates and young researchers present specific and interesting topics in the fields “Roads, Railways and Airports” (SSD ICAR/04). Therefore, the proposed presentations are not limited to the topics discussed in the XIX International SIIV Summer School.

The applicants are requested to fill the SIIV ARENA registration form, which is to be sent to [siivsummerschool2023@gmail.com](mailto:siivsummerschool2023@gmail.com) and to [siiv.segreteria@gmail.com](mailto:siiv.segreteria@gmail.com) together with a 4 pages long abstract, a 10 minutes video recording and a declaration of release. SIIV ARENA participants must attend the XIX International SIIV Summer School.

The Scientific Committee of the 8<sup>th</sup> SIIV ARENA will award three prizes based on the following criteria:

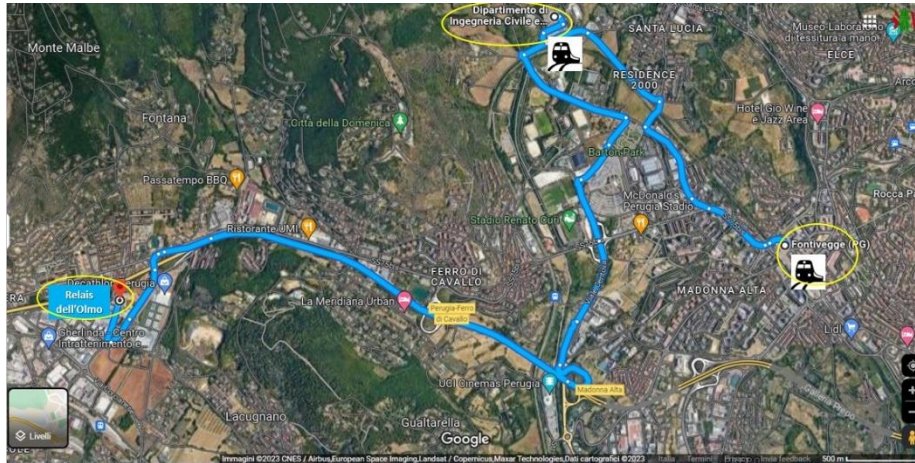
- best technological impact;
- best innovative idea;
- best experimental activity.

The deadline for SIIV ARENA participation will be July 20<sup>th</sup>, 2023. The research will be presented in English during the SIIV Arena session. Duration of exposure will be determined according to the number of speakers (further information will follow).

### Sponsored by



## How to reach the venues



- ❖ **From Perugia train station (FONTIVEGGE) to DICA:** By bus: 2' walk, Linea G to “Girasole” (see Fig. A) → Stop at Via Cortonese MM (about 6') (see Fig. B) → Linea F1 or F2 to “S. Erminio” → Stop at “Ingegneria” (about 6'); By Minimetro: 2' walk to Minimetro station (see Fig. A) → way to “Pian di Massiano”, stop at Cortonese station → Linea F1 or F2 to “S. Erminio” → Stop at “Ingegneria” (about 6');
  - <https://www.minimetropa.it/wp-content/uploads/2023/04/pieghevole-turistico-web-2023.pdf>
- ❖ **From Perugia train station (Fontivegge) to Relais dell'Olmo:** By bus: Linea G to “Girasole” (see Fig.A) → Stop at “Olmo 1” (about 20') (see Fig. C) → 4' walk to Relais dell'Olmo
- ❖ **From Relais dell'Olmo to Perugia train station (Fontivegge):** 4' walk, Linea G to “Piazza Italia” (see Fig. C) → Stop at Fontivegge (about 20') (see Fig. B)
  - [https://www.fsbusitalia.it/content/dam/fsbusitalia/documenti/umbria/orari/estivo2023/01\\_NW\\_Urbano\\_PG\\_Estivo.PDF](https://www.fsbusitalia.it/content/dam/fsbusitalia/documenti/umbria/orari/estivo2023/01_NW_Urbano_PG_Estivo.PDF)
- ❖ From the **International Airport San Francesco D'Assisi:** a shuttle bus (Perugia Airlink) of the ACAP SULGA company conjoins the airport to Perugia train station (FONTIVEGGE). The bus stop is located in front of the main entrance of the Terminal; Taxi service is available.
  - <https://www.airport.umbria.it/en/transport>
  - <https://www.fsbusitalia.it/content/fsbusitalia/it/turismo/servizi-speciali/perugia-airlink.html>
- ❖ Perugia Radio Taxi: +39 0755004888

