

**REGISTRATION FORM (deadline October 31st 2024)**

NAME \_\_\_\_\_

SURNAME \_\_\_\_\_

UNIVERSITY/AFFILIATION \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

MOBILE PHONE \_\_\_\_\_

EMAIL \_\_\_\_\_

SIGNATURE \_\_\_\_\_

**Registration Fee .....600 Euro**

Which includes:

- 5 nights in double or triple(\*) room (in 15<sup>th</sup>, out 20<sup>th</sup>).
- 5 dinners, 5 coffee breaks and 5 buffet breakfasts.
- Wellness center (spa, sauna, swimming pool).
- Covered parking for cars.
- Certificate of Attendance at the course.
- Presentations and materials (in English).

(\*) additional charge for single rooms: 150 Euro

Payment by bank transfer:

**Società Italiana Infrastrutture Viarie**  
**IBAN code: IT 10 G 02008 05302 000401199990**  
**BIC/SWIFT code: UNCRITM1158**

Please, send the **registration form** and the **proof of payment** to the Chairman Francesco Canestrari by October 31<sup>st</sup> 2024 at the following email address:

[f.canestrari@univpm.it](mailto:f.canestrari@univpm.it)

Attendants will be accommodated at:

**HOTEL ARNIKA WELLNESS** on the San Pellegrino Pass (the town of Moena is 10 km away) in the heart of the Dolomites, an UNESCO World Heritage site:

<http://www.arnika.it>

The Hotel Arnika Wellness has a modern congress hall equipped with wireless internet connection, audio and video cameras, and comfortable seating. A new wellness spa as well as large indoor and outdoor spaces and natural surroundings are also available for all guests.



**How to reach the Venue**



**SOCIETÀ ITALIANA INFRASTRUTTURE VIARIE**

[www.siiv.it](http://www.siiv.it)



**Green & Digital**

**Road Management**

Moena (TN), December 15<sup>th</sup> – 19<sup>th</sup>, 2024



UNIVERSITÀ  
POLITECNICA  
DELLE MARCHE

# Final Program

## December 15<sup>th</sup>, 2024 (Sunday)

- 14.30 – 15.00 *Registration*
- 15.00 – 15.45 *Opening Session*  
**Orazio Baglieri (SIIV President)**  
**Enrico Quagliarini (Head of DICEA)**  
**Francesco Canestrari (Chairman)**
- 15.45 – 16.15 *Coffee Break*
- 16.15 – 18.30 *Round Table 1:  
Management Challenges  
of Green & Digital Roads*  
**Nicoletta Gasbarro (ASPI, Italy)**  
**Arianna Stimilli (ANAS, Italy)**  
**Mirella Villani (RWS, The Netherlands)**  
**Marcin Szczepański (AWSA, Poland)**
- 18.30 – 19.30 *Icebreaker Cocktail*
- 20.00 – 21.00 *Dinner*

## December 16<sup>th</sup>, 2024 (Monday)

- 15.00 – 16.00 *Digital and Innovative Technologies for  
Sustainable Road Networks in Germany*  
**Dirk Jansen (BAST, Germany)**
- 16.00 – 17.00 *CRC/TRR 339 Digital Twin Road  
Physical-Informational Representation  
of the Future Road System*  
**Michael Kaliske (DUT, Germany)**
- 17.00 – 17.30 *Coffee Break*
- 17.30 – 18.30 *Field Implementation of Sustainable and  
Smart Materials in Asphalt Roads*  
**Mayca Rubio (UGR, Spain)**
- 18.30 – 19.30 *Toward the 5th Generation Road that  
will be Greener and Digital: Examples of  
Multi-Recycling of Bituminous Mixtures  
and Road Structure Instrumentation*  
**Hervé Di Benedetto (ENTPE, France)**
- 20.00 – 21.00 *Dinner*

## December 17<sup>th</sup>, 2024 (Tuesday)

- 15.00 – 16.00 *Decarbonisation strategies and practices  
on the UK road network*  
**Gordon Airey (UoN, UK)**
- 16.00 – 17.00 *New tools for evaluating pavement quality  
under various traffic and environmental  
conditions*  
**Mihai Marasteanu (UMN, USA)**
- 17.00 – 17.30 *Coffee Break*
- 17.30 – 18.30 *The Technology Readiness Level  
of biobinders for road pavements:  
the Italian experience*  
**Gilda Ferrotti (UNIVPM, Italy)**
- 20.00 – 21.00 *Dinner & Social Event*

## December 18<sup>th</sup>, 2024 (Wednesday)

- 15.00 – 16.00 *Modeling of Reflective Cracking  
in Asphalt Overlay*  
**Richard Y. Kim (NCSU, USA)**
- 16.00 – 17.00 *Digital Twins for Resilient and Sustainable  
Infrastructures:  
The Approach of the MOST Centre*  
**Berardo Naticchia (UNIVPM, Italy)**
- 17.00 – 17.30 *Coffee Break*
- 17.30 – 18.30 *Achieving Net-Zero Emissions  
Flexible Pavements*  
**Imad Al-Qadi (UIUC, USA)**
- 18.30 – 19.30 *Paradigms and Models of Digital Roads:  
Frontier Tools for Sustainability Upon  
the Note of Agenda 2030*  
**Andrea Benedetto (URT, Italy)**
- 20.00 – 21.00 *Dinner*

### Chairman:

Francesco Canestrari, Polytechnic University of Marche

### UNIVPM Organizing Committee:

Fabrizio Cardone, Gilda Ferrotti, Andrea Graziani, Andrea Grilli,  
Lorenzo Paolo Ingrassia, Sara Spadoni

## December 19<sup>th</sup>, 2024 (Thursday)

- 15.00 – 17.30 *Round Table 2:  
Construction Challenges  
of Green & Digital Roads*  
**Andrea Cosci (Amplia Infrastr., Italy)**  
**Matteo Pettinari (Nira Dynamics, Sweden)**  
**Davide Chiola (Movyon, Italy)**  
**Julien Van Rompu (Eiffage, France)**
- 17.30 – 18.00 *Coffee Break*
- 18.00 – 19.00 *Discussion & Closing Session*
- 20.00 – 21.00 *Dinner*

Following the success of the previous editions, SIIV and Università Politecnica delle Marche jointly organize the 4th International Winter School, which will be held in Moena, Italy, on December 15th-19th, 2024.

The topic “Green & Digital Road Management” emphasizes the ongoing transition towards pavement management strategies that combine green and sustainable goals with a digitally-oriented approach. Within this context, the behavior of sustainable and innovative materials needs to be investigated through reliable test methods and validated by a robust approach to life-cycle assessment. To this purpose, leading experts in the field have been invited as lecturers to promote and share up-to-date knowledge with the aim of fostering the sustainability and the digital modernization of the pavement network.

The winter school will also feature two round tables. In the first Road Authorities will highlight the main management challenges, whereas in the second, Construction Companies will discuss the main concerns and opportunities deriving from a green and digital approach to road management. The round tables represent a unique opportunity to put doctoral students in contact with their future employers to whom they will have to bring added value in terms of knowledge, innovation and enthusiasm.

The official language of the course will be English.