

**REGISTRATION FORM (deadline October 31<sup>st</sup> 2022)**

NAME \_\_\_\_\_

SURNAME \_\_\_\_\_

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

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

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

EMAIL \_\_\_\_\_

SIGNATURE \_\_\_\_\_

**Registration Fee .....500 Euro**

Which includes:

- 4 nights in double or triple(\*) room (in 15<sup>th</sup>, out 19<sup>th</sup>).
- 4 dinners, 4 coffee breaks and 4 buffet breakfasts.
- Wellness center (spa, sauna, swimming pool).
- Covered parking for cars.
- Certificate of Attendance at the course.
- Presentations and materials.

(\*) additional charge for single rooms: 100 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> 2022 at the following email address:

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

Attendants will be accommodated at:

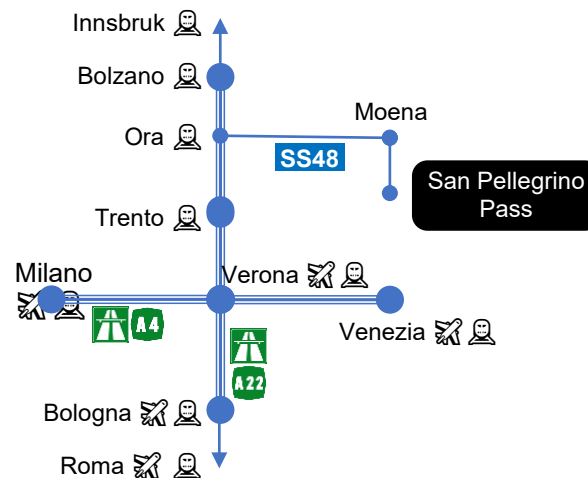
**HOTEL ARNIKA WELLNESS** on the San Pellegrino Pass (the town of Moena is 10 km away) in the heart of the Dolomites, an UNESCO World Heritage site:

<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)



# Pavement Assessment and management towards Smart and Safer mobility

Moena (TN), December 18<sup>th</sup> – 21<sup>st</sup>, 2022



**UNIVERSITÀ  
POLITECNICA  
DELLE MARCHE**

# Final Program

## December 18<sup>th</sup>, 2022 (Sunday)

- 14.30 – 15.00 *Registration*
- 15.00 – 15.30 *Welcome to SIIV Winter School 2022,*  
**Prof. Gaetano Bosurgi**  
**Prof. Francesco Canestrari**
- 15.30 – 16.00 *Coffee Break*
- 16.00 – 18.30 *National Center of Sustainable Mobility*  
*SAMOTHRACE project*  
*Round Table:*  
*Sustainable or Smart (SOS) pavements?*  
**ANAS, Danish Road Directorate,**  
**Minnesota DOT, MOVYON**
- 18.30 – 19.30 *Icebreaker Cocktail*
- 20.00 – 21.00 *Dinner*

## December 19<sup>th</sup>, 2022 (Monday)

- 15.00 – 16.00 *Implementing advanced innovative materials,*  
*testing procedures, and pavement evaluation*  
*technologies; Minnesota experience*  
**Mihai Marasteanu – Univ. of Minnesota**  
**Eyoab Zegeye – MnDOT**
- 16.00 – 17.00 *Multi-level FWD Load Analysis*  
*for Remaining Life Prediction of*  
*Asphalt Pavements*  
**Richard Y. Kim – NCSU**
- 17.00 – 17.30 *Coffee Break*
- 17.30 – 18.30 *Network-level assessment of motorway*  
*pavements using the TSD*  
**Andrea Graziani – UNIVPM**
- 17.30 – 18.30 *Digital Twins for Roads*  
*Development of Data Driven Models*  
**Gordon Airey – Univ. of Nottingham**
- 20.00 – 21.00 *Dinner*

## December 20<sup>th</sup>, 2022 (Tuesday)

- 15.00 – 16.00 *Assessment of vehicle, temperature loads*  
*and pavement conditions*  
**Piotr Jaskula – GUT**
- 16.00 – 17.00 *Smart and safety mobility: Actual framework,*  
*main concepts, novel tools and*  
*challenging perspectives*  
**Andrea Benedetto – Univ. Roma Tre**
- 17.00 – 17.30 *Coffee Break*
- 17.30 – 18.30 *ANAS Smart Road: transition from*  
*traditional civil work to interactive*  
*technological infrastructure*  
**Arianna Stimilli – ANAS**
- 18.30 – 19.30 *LiRA project: impact of connected vehicles*  
*and IoTs on pavement management systems*  
**Matteo Pettinari – RD**
- 20.00 – 21.00 *Dinner*

## December 18<sup>th</sup>, 2019 (Wednesday)

- 15.00 – 16.00 *5th Generation Road (R5G), what's next?*  
**Nicolas Hautière, Univ. Gustave Eiffel**
- 16.00 – 17.00 *National Scale Twin for Infrastructures:*  
*Challenges and Opportunities*  
**Berardo Naticchia – UNIVPM**
- 17.00 – 17.30 *Coffee Break*
- 17.30 – 18.30 *The European CCAM ecosystem and*  
*the i4Driving project: "Integrated 4D*  
*driver modelling under uncertainty"*  
**Vincenzo Punzo, UniNA Federico II**
- 18.30 – 19.00 *Closing session*
- 20.00 – 21.00 *Dinner*

Following the success of the previous editions, SIIV and Università Politecnica delle Marche jointly organize the 3rd International Winter School, which will be held in Moena, Italy, on December 18th-21st, 2022.

The topic "Pavement Assessment and management towards Smart and Safer mobility PASS" of the Winter School focuses on the needs to promote a virtuous transition towards more sustainable and smart pavement networks.

The widening gap between the existing traditional infrastructure and the complex mobility systems due to the rise of Cooperative, Connected and Automated Mobility (CCAM), and the emergence of new energy paradigms, needs to be addressed. Within this context, the behavior of innovative materials needs to be investigated through reliable test methods and analyzed by considering solid theoretical backgrounds. At the same time, advanced pavement asset management tools, including smart solutions (e.g. non-destructive testing, image processing, sensing, artificial intelligence, digital twin technology), are necessary to ensure a safe and high-quality travel experience. 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 official language of the course will be English.

A certificate of attendance will be issued at the end of the course.

### **Chairman:**

Francesco Canestrari, Polytechnic University of Marche

### **Organizing Committee:**

Fabrizio Cardone, Polytechnic University of Marche

Gilda Ferrotti, Polytechnic University of Marche

Andrea Graziani, Polytechnic University of Marche

Lorenzo P. Ingrassia, Polytechnic University of Marche