

17<sup>th</sup> SIIV International Summer School

5<sup>th</sup> SIIV Arena

# Resilient road infrastructures

Climatic changes and perspective of road infrastructures

San Marino, September 16-20, 2019

**Organized by:**



**In collaboration with:**



UNIVERSITA' DEGLI STUDI DELLA  
REPUBBLICA DI SAN MARINO  
DIPARTIMENTO DI ECONOMIA,  
SCIENZE E DIRITTO

**Patronage:**



SEGRETERIA DI STATO  
TERRITORIO AMBIENTE E TURISMO

SEGRETERIA DI STATO  
ISTRUZIONE, CULTURA E  
UNIVERSITA'

SEGRETERIA DI STATO  
AFFARI ESTERI, POLITICI E GIUSTIZIA






**Main Sponsors:**



[www.unirmsm.sm/summerschool2019](http://www.unirmsm.sm/summerschool2019)

## Program

<b>Monday 16<sup>th</sup> September 2019</b>			
14.00 – 14.30	Registration/Reception		
14.30 – 15.00	Welcome to 17 <sup>th</sup> SIIV Summer School	San Marino Authorities, SIIV president	
15.00 – 17.00	<i>Key lecture on the Influence of Climatic Changes on Infrastructures Design, Construction and Management</i>	Eng. Marco Garozzo – President CT E.1 Strategy for Adaptation and resilience	
17.30 – 19.30	Touristic tour to San Marino historic centre		
19.30	Welcome dinner	Ristorante Cesare, San Marino	
<b>Tuesday 17<sup>th</sup> September 2019</b>			
08.15 – 08.30	Introduction	Prof. Antonio Montepara University of Parma	
08.30 – 10.00	<i>Climate change and its impacts on transport infrastructure</i>	Eng. Domenico Gaudioso IPCC/UNFCCC methodology expert	
10.00 – 10.30	Coffee break		
10.30 – 12.00	<i>The effect of Climate Change on the Input of Road Design and Management</i>	Prof. Maria R. De Blasiis University of Roma Tre	
12.00 – 13.30	<i>Recycling techniques to reduce the environmental impact of road construction</i>	Prof. Kamilla Vasconcelos Savasini - University of São Paulo	
13.30 – 15.00	Lunch		
15.00 – 17.00	5 <sup>th</sup> SIIV Arena	PhD Student presentations	
20.00	Dinner	Ristorante Beccafico, San Marino	
<b>Wednesday 18<sup>th</sup> September 2019</b>			
08.15 – 08.30	Introduction	Prof. Antonio Montepara University of Parma	
08.30 – 10.00	<i>Use of procedural modelling for the enrichment of BIM models with pavement material property sets</i>	Prof. Andrej Tibaut University of Maribor	
10.00 – 10.30	Coffee break		
10.30 – 12.00	<i>Asphalt road pavements and adaptation to climatic changes</i>	Prof. Gabriele Tebaldi University of Parma	
12.00 – 13.30	<i>The use of Crumb Rubber Modified Asphalt Binders in High Traffic Volume Highways</i>	Prof. Fernando Moreno Navarro University of Granada	
13.30 – 15.00	Lunch		
20.00	Dinner	Ristorante La Fratta, San Marino	

<b>Thursday 19<sup>th</sup> September 2019 – Marco Simoncelli World Circuit</b>			
08.00	Transfer to Marco Simoncelli World Circuit (Misano)		
08.45 – 09.00	Introduction	Dr. Andrea Albani Marco Simoncelli World Circuit Managing Director	
09.00 – 10.00	<i>Characteristics and Activities of the Marco Simoncelli World Circuit</i>	by Marco Simoncelli World Circuit	
10.00 – 10.30	Coffee break		
10.30 – 12.30	<i>High-performance mixtures for wearing courses</i>	Prof. Ezio Santagata Polytechnic of Turin	
12.30 – 13.30	Lunch		
13.30 – 15.00	Visit to the Marco Simoncelli World Circuit		
15.00	Transfer to hotel		
17.30	SIIV meeting		
19.30	Musical show with Emanuele Rastelli (accordion) and Diana Monaldi (soprano) in collaboration with Camerata del Titano, Piazza della Libertà, San Marino		
20.00	Gala Dinner	Ristorante Righi, San Marino	
<b>Friday 20<sup>th</sup> September 2019</b>			
09.00 – 09.30	SIIV Arena Awards	Prof. Antonio Montepara PhD. Andrea Grilli	
09.30 – 12.30	Panel discussion - Tavola rotonda	Prof. Felice A. Santagata Prof. Carlea Donato	
12.30 – 13.00	Closing ceremony		

#### Honorary president of the scientific committee

Felice A. Santagata, Polytechnic University of Marche, Italy

#### Committee chairs

Antonio Montepara, University of Parma, Italy

Andrea Grilli, University of the Republic of San Marino, Republic of San Marino

#### Organising committee members

Felice Giuliani, University of Parma, Italy

Gabriele Tebaldi, University of Parma, Italy

Elena Romeo, University of Parma, Italy

Erika Garilli, University of Parma, Italy

Federico Autelitano, University of Parma, Italy

Alex Balzi, University of the Republic of San Marino, Republic of San Marino

Elisa Guidi, University of the Republic of San Marino, Republic of San Marino

Lorenzo Bignardi, University of the Republic of San Marino, Republic of San Marino  
Matteo Casali, Azienda Autonoma di Stato per i Lavori Pubblici, Republic of San Marino  
Daniele Muratori, Azienda Autonoma di Stato per i Lavori Pubblici, Republic of San Marino  
Federico Bascucci, Segreteria di Stato per il Territorio, Ambiente e Turismo, Republic of San Marino

#### International Scientific Committee

Orazio Baglieri, Polytechnic of Turin, Italy  
Marco Bassani, Polytechnic of Turin, Italy  
Maurizio Bocci, Polytechnic University of Marche, Italy  
Francesco Canestrari, Polytechnic University of Marche, Italy  
Giuseppe Cantisani, Sapienza University of Rome, Italy  
Alan Carter, École de technologie supérieure (ÉTS), Montréal, Canada,  
Bernardo Celauro, University of Palermo, Italy  
Clara Celauro, University of Palermo, Italy  
Domenico Gaudio, Greenhouse Gas Management Institute, Italy  
Davide Dalmazzo, Polytechnic of Turin, Italy  
Maria Roasaria De Blasiis, Roma Tre University, Italy  
Gianluca Dell'Acqua, University of Napoli, Italy  
Hervé Di Benedetto, University of Lyon, France  
Andrea Graziani, Polytechnic University of Marche, Italy  
Piotr Jaskula, Gdansk University of Technology, Poland  
Fernando Moreno Navarro, University of Granada, Spain  
Manfred Partl, Swiss Federal Laboratories for Materials Science and Technology EMPA, Switzerland  
Marco Pasetto, University of Padova, Italy  
Daniel Perraton, École de technologie supérieure (ÉTS), Montréal, Canada,  
Dawid Rys, Gdansk University of Technology, Poland  
Cesare Sangiorgi, University of Bologna, Italy  
Ezio Santagata, Polytechnic of Turin, Italy  
Andrej Tibaut, University of Maribor, Slovenia  
Kamilla Vasconcelos Savasini, University of San Paolo, Brazil

#### Secretary

Andrea Grilli, University of the Republic of San Marino, Republic of San Marino  
mail: [andrea.grilli@unirmsm.sm](mailto:andrea.grilli@unirmsm.sm)