



XVIII INTERNATIONAL SIIV SUMMER SCHOOL
Sustainable Pavements and Road Materials
Università degli Studi di Napoli Parthenope
Villa Doria d'Angri, Napoli, September 5th-9th 2022



Introduction

The XVIII SIIV Summer School will be devoted to the topics concerning the knowledge related to “Sustainable Pavement Design and Road Materials”.

Pavement sustainability refers to the impacts of pavement on environment, economy, and society, which involves material selection, design, construction, as well as preservation strategies. Sustainable pavements are highly dependent on the selection of appropriate materials, since road materials have significant effect on pavement durability, material usage, transportation safety, life cycle cost, maintenance strategy, environmental impacts, and so on. In recent years, an important part of the research has been devoted to the development and evaluation of advanced road materials for sustainable pavement design, construction, and maintenance. However, sustainable pavement involves a wide range of issues to be investigated, and many of them have not been solved yet.

Venue

Parthenope University of Naples was established in 1919 by the Vice Admiral Leonardi Cattolica with the name “**Regio Istituto Superiore Navale**”. Born as an institute of higher education specialized in maritime studies: marine science, maritime economics and logistics. **In 1999**, the departments of Law, Engineering and Sports Sciences were added to the two long-standing ones of Economics and Nautical Science which jointly brought the Institute significant growth in the number of students. Then, the name of the Institute officially changed to “Parthenope University of Naples”.

Villa Doria d'Angri is the most important neoclassical mansion in Posillipo hill, it was commissioned by Prince Marcantonio Doria d'Angri (1809-1837) to the architect Bartolomeo Grasso (1773-1835), who completed the construction in 1833. This monumental villa is the expression of the greatest artists and artisans of the time. It gleams in all its ancient splendour and features a park with a total area of over 18.000 square metres. The villa is used as a venue for international meetings and events, seminars and cultural initiatives. Since 2000, Villa Doria d'Angri hosts the Naval Museum. The Museum has included a collection of approximately 160 ship models and navigation tools, the oldest ones dating back to 1920, the year of foundation of the Institute. The collection represents an important testimony of the scientific history of the university

and is a valuable didactic support to nautical studies and to the diffusion of a sea culture.

The address is: via Francesco Petrarca, 80, Napoli:
<https://international.uniparthenope.it/>

Organizing-scientific committee

Prof. Stefano Aversa, Prof. Renata Della Morte, Dr. Francesco Abbondati, Prof. Gianluca Dell'Acqua (Coordinator), Prof. Renato Lamberti, Prof. Francesca Russo (Scientific director), Dr. Salvatore Antonio Biancardo, Dr. Rosa Veropalumbo, Dr. Nunzio Viscione, Dr. Cristina Oreto.

<https://www.siiv.net>

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September 5th (Monday)

14.00-15.00 Registration at Villa Doria d'Angri

15.00-15.30 Institutional greetings:

Prof. Gaetano Bosurgi (SIIV President), Prof. Alberto Carotenuto (Rector of Università di Napoli Parthenope), Prof. Stefano Aversa (Head of the department of Engineering at Università di Napoli Parthenope), Prof. Renata Della Morte (President of the degree course in Civil Engineering at Università di Napoli Parthenope), Prof. Gianluca Dell'Acqua (SIIV Summer School Coordinator), Prof. Francesca Russo (SIIV Summer School Scientific director).

Technical WORKSHOP 1

*Chairman: Prof. Andrea Simone,
Università di Bologna*

15.30-16.10 Dr. Loretta Venturini - Scientific & Strategic Development Director, Iterchimica S.p.A.

16.10-16.50 Eng. Luigi Capuano - Technical project manager, Gruppo Capuano

16.50-17.30 Dr. Andrea Carlessi - Product Manager, Controls S.p.A.

17.30-18:10 Dr. Salvatore Antonio Biancardo - Università di Napoli Federico II

18:10- 18:50 Prof. Francesca Russo - Università di Napoli Federico II

18:50-19:00 Questions Time

19.00 Transfer to hotel

20.00 Dinner at the hotel

September 6th (Tuesday)

08.30 Transfer to Villa Doria d'Angri

SIIV LECTURES

*Chairman: Prof. Anna Granà,
Università di Palermo*

09.00-11.00 Lecture 1

Prof. Arminda Almeida, University of Coimbra

11.00-11.30 Coffee break

11.30-13.30 Lecture 2

Prof. Goran Mladenović, University of Belgrade

13.30-14.00 Pocket Lunch

14.00 Excursion to Procida Island

21.00 Transfer to hotel

September 7th (Wednesday)

08.30 Transfer to Villa Doria d'Angri

SIIV LECTURES

*Chairman: Prof. Antonio Montepara,
Università di Parma*

09.00-11.00 Lecture 3

Dr. Lily Poulikakos,

Empa Swiss Federal Laboratories for Materials Science, and Technology

11.00-11.30 Coffee break

11.30-13.30 Lecture 4

Prof. Francesco Canestrari,
Università Politecnica delle Marche

13.30-14.00 Pocket Lunch

14.00 Excursion

20.00 Social pizza

September 8th (Thursday)

08.30 Transfer to Villa Doria d'Angri

SIIV LECTURES

*Chairman: Prof. Maurizio Bocci,
Università Politecnica delle Marche*

09.00-11.00 Lecture 5

Prof. Andrea Grilli,

Università della Repubblica di San Marino

11.00-11.30 Coffee break

11.30-13.30 Lecture 6

Prof. Ezio Santagata,
Politecnico di Torino

13.30 Light Lunch

Technical WORKSHOP 2

*Chairman: Prof. Orazio Baglieri,
Politecnico di Torino*

14.30-15.15 Dr. Massimo Paolini - Technical manager of road technologies, Valli Zabban S.p.A

15.15-16.00 Eng. Francesco Santoro - Head of Quality, R&D Laboratory Bitem S.r.l. Eng. Edgardo Menegatti - Head PmB Plant Petroli Firenze S.p.A.

16.00-16.45 Eng. Mike Marshall and Davide D'Onza - Wirtgen Group

16.45-17.30 Dr. Eng. Telma Keppler - infraTest

17.30-18.00 Coffee break

18.00-21.00 SIIV members' meeting

21.00 Transfer to hotel

21.30 Social dinner at Paradiso Blanco
Restaurant



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September 9th (Friday)

Meeting room - Hotel Paradiso

09.00-11.00 **SIIV ARENA first session**

Chairman: Dr. Francesco Abbondati,
Università di Napoli Parthenope

11.00-11.20 Coffee break

11.20-13.00 **SIIV ARENA second session**

Chairman: Dr. Rosa Veropalumbo,
Università di Napoli Federico II

13.00-13.30 SIIV SUMMER SCHOOL FINAL TEST

13.30-14.30 Light Lunch

2nd Workshop PRIN 2017 "in itinere".
Stone Pavements. History, conservation,
valorisation and design

Chairman: Prof. Felice Giuliani,
Università di Parma

14.30-16.00 Scheduled speakers:

Prof. Marco Carpiceci,
Università di Roma La Sapienza

Prof. Giuseppe Loprencipe,
Università di Roma La Sapienza

Dr. Andrea Angiolini,
Consiglio Nazionale delle Ricerche

Prof. Marco Guerrieri,
Università di Trento

Dr. Federico Autelitano,
Università di Parma

Dr. Salvatore Antonio Biancardo,
Università di Napoli Federico II

Workshop PRIN 2017 "in itinere".
Urban safety, sustainability, and resilience: 3
paving solutions, 4 sets of modules, 2
platforms

Chairman: Prof. Filippo Praticò,
Università di Reggio Calabria

16.00-17.30 Scheduled speakers:

Prof. Rosolino Vaiana
Università della Calabria

Prof. Alessandro Di Graziano
Università di Catania

Prof. Francesco Lo Iacono
Università Kore di Enna

Prof. Orazio Pellegrino
Università di Messina

Prof. Clara Celauro
Università di Palermo

Prof. Filippo Praticò
Università di Reggio Calabria

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Materials Science and Technology



UNIVERSITÀ DEGLI STUDI DI NAPOLI
FEDERICO II

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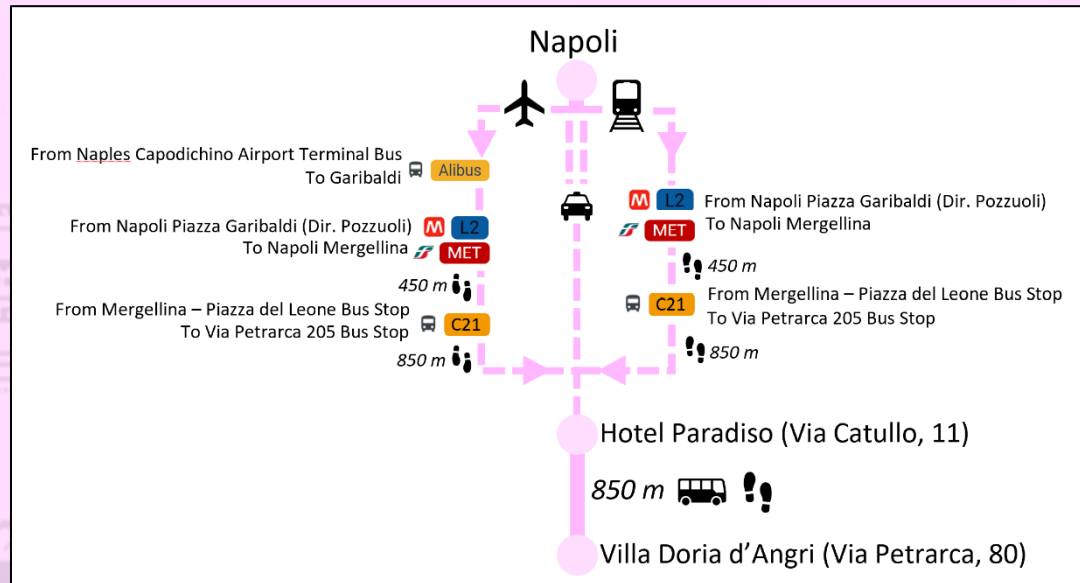




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How to reach the Venue



7th SIIV ARENA

The SIIV ARENA is an important opportunity for young researchers to propose their work in progress research.

The applicants should fill the attached registration form for the SIIV ARENA and send the registration form and the Long Abstract, prepared according to the specific template attached, to siivsummerschool2022@gmail.com.

Abstract submission deadline: July 15th 2022

The applicants should send a video recording of the presentation (maximum duration 10 minutes) and the release form for the publication and dissemination of the video recording signed by the student, to siivsummerschool2022@gmail.com.

Recording submission deadline: July 31th 2022

The documents transmitted will be selected by the Scientific Committee for the presentation (that will take place on September 9th, 2022) and publication in the SIIV ARENA proceedings. SIIV will assign four awards based on the following criteria:

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

