

5th Winter School for PhD students on

FLUID MACHINES AND ENERGY SYSTEMS

March 25th – 29th, 2024

University of Pisa

The 5th Winter School for PhD students of fluid machines and energy systems promoted by AIMSEA (Italian Association of Fluid Machines and Energy Systems) will be held in Pisa (Italy) on **March 25th - 29th**. The main topic of the school will be **Renewable Energies, Energy Storage and Energy Transition**. In the last years, the share of renewable sources in the energy mix of several countries is increased with a steady pace. This led to a revolution in the way to conceive energy conversion and diffusion in comparison to a fossil fuel-based system. However, the transition to a future with a high penetration of renewables implies several criticalities from both the technical and economic point of views. The school will be the opportunity to discuss these topics, have an insight to new frontiers of engineering research and promote the cooperation between PhD Students. The focus of the conference will be **Fluid Machines (FM), Energy Systems (ES) and Sustainable Mobility (SM)**. The school will include:

- Plenary sessions with outstanding keynote speakers from both academy and industry
- Parallel technical sessions on different topics
- Workgroup activities to promote student discussion
- Social events to promote networking

Confirmed speakers

Plenary sessions

Prof. R. Madlener	RWTH Aachen University
Ing. L. Cosi	Baker Hughes spa
Dr. I. Pecorini	University of Pisa
Prof. G. Barigozzi	University of Bergamo
Prof. C. A. Bollino	University of Perugia
Prof. G. Ferrara	University of Florence

Technical sessions on sustainable mobility

Prof. M. Cameretti	University of Naples
Prof. S. Fontanesi	University of Modena and Reggio
Prof. L. Postriotti	University of Perugia
Ing. M. Ferrera	Punch Torino spa

Technical sessions on fluid machines

Prof. U. Igie	University of Cranfield
Prof. G. Pavesi	University of Padova
Prof. S. Bianchi	Airbus Group
Prof. S. Salvadori	Politecnico di Torino

Technical sessions on energy systems

Prof. R. Taccani	University of Trieste
Dr. E. Bargiacchi	ETH Zurich
Prof. G. Valenti	Politecnico di Milano
Prof. G. Comodi	Politecnico delle Marche

Fee and application:

- Fee is **€ 500,00** and include attendance, 5 lunches, 8 coffee breaks, 1 social dinner and 1 welcome reception. Applications can be submitted at this [link](#) before **February 24th, 2023**.
- No refund of the registration fee will be possible after March 22th.
- University of Pisa awards 1 grant, corresponding to the registration fee. Selection will be performed by a Scientific Committee based on CV among those PhD students who registered before February 19th.

Preliminary Program (subject to change)

March 25th

11:00 -	11:30	Opening ceremony
11:30 -	13:00	Plenary session P1
13:00 -	14:00	Lunch
14:00 -	15:30	Plenary session P2
15:30 -	16:00	Coffee break
16:00 -	17:30	Plenary session P3

March 26th

9:30 -	11:00	Plenary session P4
11:00 -	11:30	Coffee break
11:30 -	13:00	FM 1 – ES 1
13:00 -	14:00	Lunch
14:00 -	15:30	FM 2 – SM 1
15:30 -	16:00	Coffee break
16:00 -	17:30	Workgroup activity

March 27th

9:30 -	11:00	Plenary session P5
11:00 -	11:30	Coffee break
11:30 -	13:00	FM 3 – ES 2
13:00 -	14:00	Lunch
14:00 -	15:30	ES 3 – SM 2
15:30 -	16:00	Coffee break
16:00 -	17:30	Workgroup activity

March 28th

9:30 -	11:00	Plenary session P6
11:00 -	11:30	Coffee break
11:30 -	13:00	SM 3 – FM 4
13:00 -	14:00	Lunch
14:00 -	15:30	SM 4 – ES 4
15:30 -	16:00	Coffee break
16:00 -	17:30	Workgroup activity

March 29th

9:30 -	11:00	Assessment of activities
11:00 -	11:30	Coffee break
11:30 -	13:00	Assessment of activities
13:00 -	14:00	Lunch
14:00 -	14:30	Closing ceremony

- Welcome reception buffet on March 25th
- Social dinner on March 26th

Accommodation

The following hotels and residences might be contacted.
Additional Hotels can be provided upon request.

RESIDENCE LE BENEDETTINE

Lungarno Sonnino 18, Pisa, Italia
Tel. 050 28 257 Fax 050 22 06 593
<http://it.residence.unipi.it> info@residence.unipi.it

HOTEL BOLOGNA

Via Mazzini, 57 – 56125 - Pisa
Tel. 050.502120 Fax 050.43070
<http://www.hotelbologna.pisa.it/> info@hotelbologna.pisa.it

HOTEL LA PACE

Viale Gramsci, 14 (Galleria B) – 56125 Pisa
Tel. 050.29351-2 48863 Fax 050.502266
<http://www.hotellapace.it/info@hotellapace.it>

HOTEL REPUBBLICA MARINARA

Via Matteucci, 81 – 56124 Pisa
Tel. 050.3870100 Fax 050.3870200
<http://www.hotelrepubblicamarinara.it/info@hotelrm.it>

HOTEL ROMA

Via Bonanno, 111 – 56126 Pisa
Tel. 050.554488 Fax 050.550164
<http://www.hotelroma.pisa.it/info@hotelroma.pisa.it>

HOTEL ROYAL VICTORIA

Lungarno Pacinotti, 12 – 56126 Pisa
Tel. 050.940111 Fax 050.940180
<http://www.royalvictoria.it/> mail@royalvictoria.it

HOTEL VERDI

Piazza della Repubblica, 5 – 56125 Pisa
Tel. 050.598947 Fax 050.598944
<http://www.verdihotel.it/> hotelverdi@sirius.pisa.it

GRAND HOTEL BONANNO

Via Carlo Francesco Gabba, 17 – 56122 Pisa
Tel. 050.524030 Fax 050.532072
<http://www.grandhotelbonanno.it/> info@grandhotelbonanno.it

How to reach Pisa

- Train: Pisa Central railway station is served by regional trains from Florence (approx. 1 hour), and by Regional, Frecciabianca and Interregional trains serving the Italian west coast from Genoa to Rome. (www.trenitalia.com)
- Car: Pisa can be easily accessible by car from Florence by using the A11 motorway from Firenze Nord exit on the A1, or by using the S.G.C. Firenze-Pisa-Livorno from the Firenze Scandicci exit on the A1. Along the A12 (Genova - Rosignano) there are two exits which allow to reach Pisa (Pisa Nord and Pisa Centro).
- Airplane: Pisa Airport (<https://www.pisa-airport.com/>) is among the busiest in Italy with low-cost airlines. Ryanair offers daily or weekly direct flights to Alghero, Bari, Brindisi, Cagliari, Catania, Comiso, Lamezia Terme, Olbia, Palermo, Roma Fiumicino, Trapani. Florence Airport (www.aeroporto.firenze.it/) offers direct flights to Bari, Cagliari, Catania, Olbia, Palermo, and Roma Fiumicino.
- Bus: Flixbus offers several low-cost connections by coach to Pisa. (www.flixbus.it).

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**AIM
SEA** | Associazione Italiana
delle Macchine a fluido
e dei Sistemi per
l'Energia e l'Ambiente

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