Department of Industrial Engineering

Course series

Fluid Power: Components, Systems and Applications

3 CFU - March 30th – April 1st, 2020

"Sala convegno piano terra" – L1 – Corso Protopisani, 70 – San Giovanni a Teduccio (NA)

Eminent Professor Speeches

*Professor **Kim A. Stelson**, from the University of Minnesota and Professor **Victor Sverbilov** from the University of Samara will each be holding a lecture on the state-of-art in fluid power engineering.*

Technical Speeches

Performed by international companies and excellent academic institutions presenting their academic approach to fluid power engineering, simulation, tests and research.

WHO should attend?

Master's students, PhD students and Companies interested in the field of Fluid Power.

Day 1	9:00 – 12:00 AM	*Prof. Kim Stelson*	Fluid power in off-road vehicles.
	2:00 – 5:00 PM	*Prof. Victor Sverbilov*	Improving dynamic characteristics of hydraulic and pneumatic systems: control stability, noise reduction and measurement accuracy": Correcting devices for noise reduction and improving measurement accuracy.
Day 2	9:00 – 12:00 AM	*Prof. Victor Sverbilov*	Improving dynamic characteristics of hydraulic and pneumatic systems: control stability, noise reduction and measurement accuracy": Providing stability of hydraulic and pneumatic control systems.
	2:00 – 5:00 PM	*Prof. Kim Stelson*	Fluid power in renewable energy.
Day 3	9:00 – 12:00 AM	*Duplomatic MS*	How to combine simulations, experimental results and theoretical approaches to get the best and fastest result for a positive displacement pump development.
		BSIM Engineering	1D simulation for the design and optimization of hydraulic and pneumatic systems and components.
		UniNA	Cavitation and aeration in hydraulic systems.
		OMIQ Simulazione per l'ingegneria	Virtual Prototyping of hydraulic and pneumatic components.

University of Minnesota

Scuola Politecnica e delle Scienze di Base
Università degli Studi di Napoli Federico II

Samara University

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

BSIM engineering

DUPLOMATIC MOTION SOLUTIONS

OMIQ Simulazione per l'Ingegneria

ati Campania

Language: English

Final evaluation: Multiple-choice written test.

Please register by filling the form at: https://forms.gle/KYrDDQmKKuf68eQFA

Please contact Prof. Emma Frosina , Dr. Luca Romagnuolo and Prof. Adolfo Senatore for further information.