



SAPIENZA
UNIVERSITÀ DI ROMA



School of Engineering



ANZIO
Medaglia d'Oro al Merito Civile



University of Roma "La Sapienza"

Summer School of Thermodynamics

Anzio, June 11 – 23, 2012

A high-profile Course for excellent international students

The 2012 Engineering Summer School of the University of Roma 1 La Sapienza (UDR1) offers credit courses, with lectures held in English, for both Graduate Students and for eligible Senior year Undergraduates in Mechanical Engineering and related Natural Science or Physics programs. Foreign students from the EU and from UDR1 partner universities outside EU are invited to come to Roma for a 2 weeks period to attend the UDR1 Summer courses listed below. Erasmus exchange students and students enrolled in Italian Universities may also participate, and are eligible for 6 ECTS credits.

The CAESAR Summer School offers:

- Thoroughly edited academic and scientific course contents, available on CD
- High-quality teaching, certified according to EU standards
- Full accessibility of the international teaching body, consisting of world-renowned international instructors
- A compact format that combines high efficiency and intensive contact hours with a flexible and student-friendly schedule
- General information about UDR1 and its rich didactic curricula
- Introduction to relevant Italian sponsoring Agencies, Industries and Consulting Firms
- Welcome party for all participants
- Social events in an international, relaxed and notoriously friendly atmosphere

Upon completion of the course requirements, each student is awarded a certificate and ascribed 6 ECTS study credits, which may be transferred to the students current study program.

The costs for the students are 300 € for tuition and 400 € for accommodation (double occupancy rooms). Course material, computer facilities, etc. are included in the tuition fee. Each student should be prepared to cover her/his own living expenses (meals, transportation, extras). A limited number of scholarships to cover travel and lodging costs are available (application required).

Week 1 (June 11 – 16)

	June 11 Mo	June 12 Tu	June 13 We	June 14 Th	June 15 Fr	June 16 Sa
9.00 12.30	501	501	503	503	507	9:30 Panel #1 11:30 SST Public Forum
12.30 14.30	Lunch break					
14.30 17.00	512	512	511	511	507	tutoring

Week 2 (June 18 – 23)

	June 18 Mo	June 19 Tu	June 20 We	June 21 Th	July 22 Fr	July 23 Sa
9.00 12.30	502	502	513	515	504	10:30 Panel #2
12.30 14.30	Lunch break					
14.30 17.00	514	514	513	515	504	tutoring
20.00	Closing ceremony & Dinner					

Instructor	Affiliation	Course id	Course Title	Contact hours
Michael J. Moran	Ohio State Univ., Columbus, OH, US	501	Principles of Thermodynamics	7
Richard A. Gaggioli	Marquette U., Milwaukee, WI, US	502	Principles of Exergy Analysis	7
Hasan Heperkan	Yildiz University, Istanbul, Turkey	503	Principles of Heat and Mass Transfer	7
George Tsatsaronis Tatjana Morozjuk	T.U. Berlin, Germany	504	Thermo-Economics	7
Gian Paolo Beretta	University of Brescia, Italy	507	Entropy and Entropy Production in Non-Equilibrium Systems	7
Özer Arnas	West Point Academy, USA	511	The importance of Thermodynamics in Engineering	7
Sung Jin Kim	KAIST, Daejeon, S.Korea	512	Heat Transfer and Fluid Flow in Micro Thermal Systems	7
Roberto Melli Vittorio Verda	UDR1, Italy POLITO, Italy	513	Thermo-Diagnostics	7
Ismet Ugursal	Dalhousie U, Canada	514	Green- and Zero-Emission Buildings: Energy & Exergy Analysis	7
Enrico Sciubba Federico Zullo	UDR1, Italy UDR1, Italy	515	Exergy-Based Population Dynamics	7

Panel #1: Thermodynamics of Turbulence (S. Pirozzoli) - Panel #2: A general procedure for the exergy analysis of buildings (M. Cianfrini, C. Toro)

SST Public Forum: An open and introductory discussion on Thermodynamics with the participation of high school students from the city of Anzio



Class of 2011



Social dinner



Paradiso sul Mare

The brochure, the application form and the fact-sheet about the CAESAR Summer School 2012 can be downloaded after January 31st, 2012, at www.turbomachinery.it

For further information contact:

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or the Events Manager, claudio.larosa@uniroma1.it