

DSTF
Dipartimento di Scienza
e Tecnologia del Farmaco
UNIVERSITÀ DI TORINO



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GREEN
CHEMISTRY

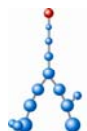
Summer School in High Energy Processing Ultrasound & Microwave Technologies DSTF, University of Turin, Italy - 3-7 June 2013 (Sponsored by ESS & AMPERE)

- **Location:** Dipartimento di Scienza e Tecnologia del Farmaco, via Pietro Giuria 9, 10125 Torino (Metro station NIZZA, bus/tram 67, 9, 16, 18).
- The Summer School is limited to 50 participants. All coffee (from Monday to Friday) and lunches (from Tuesday to Thursday) will be provided by the organising committee.
- **Registration fee for the ESS Summer School (bank transfer) is:**
Students and Ph.D. students 100 Euros
Post-Doc, researchers, professors 200 Euros
Industry participants 300 Euros
Contact persons: Dr. Luisa Boffa: luisa.boffa@unito.it
and Dr. Lavinia Alexandru: lavinia.alexandru@unito.it
- A free welcome party will be arranged for 3rd June at 7.30 pm
- A conference dinner will be arranged for 6th June 2013. This can be paid for at the point of registration.
- **Travel:** Direct flights to Torino-Caselle or Milano-Malpensa (+ bus or train)
- **Accommodation:** Please arrange your own accommodation directly with the student's residence (EDISU) or hotels listed below the agenda.
- **Please note: As this is a peak summer season in Turin reservation for accommodation must be made as soon as possible**

ESS & AMPERE Summer School Agenda 2013

Monday 3rd June 2013

Time	Activity
13.30-15.00	Registration
15.15-15.30	Prof. G. Cravotto – Welcome and Introduction
15.30-17.00	Prof. T. Mason – Introduction to Ultrasound (US) <ul style="list-style-type: none">• Background and theory• Designs of ultrasonic equipment
17.00-18.30	Prof. C. Leonelli – Introduction to Microwaves (MW) <ul style="list-style-type: none">• MW Interactions with matter• Multimode and Single mode cavities• Nanoparticles preparation
19.30	Welcome party



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Tuesday 4th June 2013

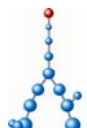
Time	Activity
9.05-11.00	Prof F. Chemat <ul style="list-style-type: none"> • Ultrasound in food technologies • Applications of ultrasound and microwave in extraction, new tools and equipments
11.00-11.15	Coffee break
11.20-13.30	Prof. C. Leonelli - Microwave enhanced inorganic chemistry <ul style="list-style-type: none"> • Solid state reactivity • Combustion synthesis • Applications of Microwaves in ceramic processing • Applications of Microwaves in polymer processing
13.30-14.45	Lunch
15.00-17.30	Practical laboratories – US & MW New miniaturized systems for MW alembic distillation Temperature sensors and heating measurement during MW irradiation US: device components and sensors in your hands

Wednesday 5th June 2013

Time	Activity
9.05-10.10	Prof. T. Mason <ul style="list-style-type: none"> • Applications of sonochemistry in medicine
10.10-11.00	Dr. E. Joyce <ul style="list-style-type: none"> • Ultrasound in environmental protection
11.00-11.15	Coffee break
11.20-12.20	Ing. G. Cavaglià <ul style="list-style-type: none"> • Microwaves, Ultrasound and Hydrodynamic Cavitation in Process Intensification
12.20-13.30	Prof. C. Villa– Microwaves lectures (MW) <ul style="list-style-type: none"> • Microwave enhanced organic chemistry <ul style="list-style-type: none"> ○ Homogeneous reactions ○ Solvent free reactions
13.30-14.45	Lunch
15.00-17.30	Practical laboratories – Ultrasound & Microwaves US & MW: Organic synthesis and Extraction

Thursday 6th June 2013

Time	Activity
9.05-11.00	Prof. J-Y. Hihn <ul style="list-style-type: none"> • US reactor characterization • local measurements (electrochemical methods and laser visualizations)
11.00-11.15	Coffee break
11.15-12.15	Prof. P. Cintas Synthetic chemistry through the combined use of ultrasound and microwaves
12.15-13.30	Round table with companies producing US and MW reactors
13.30-15.00	Lunch
15.00-17.30	Practical laboratories – Ultrasound & Microwaves US: parameters measurements, application of flow reactors; MW: Combustion synthesis/SHS of intermetallic
20.00	Official Summer School Dinner



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Friday 7th June 2013

Time	Activity
9.05-10.00	Prof. P. Cintas <ul style="list-style-type: none"> • Mechanochemical effects of acoustic cavitation
10.00-11.00	Dr. P. Veronesi <ul style="list-style-type: none"> • Dielectric properties measurement: introduction to numerical simulation for reactor design • Design and selection of microwave applicators • Industrial Applications (MW in pollution abatement)
11.00-11.15	Coffee break
11.15-12.00	Prof. Cravotto and co-workers - Final remarks Leave taking

Hotel Accommodation:

Hotels with an agreement with DSTF for ESS-Ampere Summer School, from 3th to 7th June 2013

Please contact the selected hotel by fax or e-mail, citing "ESS-Ampere Summer School 2013" as reference.

HOTEL PLAZA Torino

Via Petitti 18
10126 Torino (TO)
Tel: +39 011 6632424 - Fax: +39 011 678351
Web: www.hotelplazatorino.it
E-mail: info@hotelplazatorino.it

Room type	Max N. People	Price
Single	1	60.00 €
Double	2	80.00 €

Prices are per room, breakfast is included.

Not included in room price: EUR 2.30 city tax per person per night (for the first consecutive 4 nights).

Hotel Eden Torino

Via Donizzetti 22
10126 Torino (TO)
Tel: +39 011 6699545 - Fax: +39 011 655370
Web: www.hoteledentorino.it
E-mail: info@hoteledentorino.it

Room type	Max N. People	Price
Single	1	45.00 €
Double	2	65.00 €
Triple	3	90.00 €

Prices are per room, breakfast is included.

Not included in room price: EUR 1.80 city tax per person per night.



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Hotel Urbani

Via Saluzzo 7

10125 Torino (TO)

Tel: +39 011 66 99 047 - Fax: +39 011 66 93 226

Web: www.hotelurbani.it

E-mail: info@hotelurbani.it

Room type	Max N. People	Price
Single	1	51.00 €
Double	2	74.00 €

Prices are per room, breakfast is included.

Not included in room price: EUR 2.30 city tax per person per night.

BEST WESTERN Hotel PIEMONTESE

Via Berthollet n° 21

10125 Torino (TO)

Tel. +39 011 6698101 - Fax +39 011 6690571

Web: www.hotelpiemontese.it

E-mail: info@hotelpiemontese.it

Room type	Max N. People	Price
Single	1	75.00 €

Prices are per room, breakfast is included.

Not included in room price: EUR 2.30 city tax per person per night.

Students, Ph.D. and post-Doc accommodation with EDISU (student's residence)

Please follow the instructions for the on-line booking at this link:

<http://clio.edisu-piemonte.it:8088/Login.aspx>