



SCI- Gruppo Interdivisionale di Catalisi
SCI-Gruppo Interdivisionale di Green Chemistry
Divisione di Chimica Industriale
Divisione di Chimica Farmaceutica
ISMN-CNR, Palermo,
Università degli Studi di Palermo

Scuola GIC 2010



Area della Ricerca del CNR- Palermo
15- 18 Settembre 2010

Turning point of Catalysis: new raw materials, new approaches and new technologies

Second circular

Catalysis has a very important role in sustainable development. The combination of nanotechnology, design of new drugs and new materials and development of new processes, contributed to make catalysis crucial for the planet survival, for the development of emergent countries and the preservation of the living standard in the “rich” countries. The innovation in catalysis allowed conjugating the need for sustainability (in terms of activity, selectivity and stability concepts) with the need for efficiency (in terms of quantity, costs and energy).

Within this context, the School organized by SCI-GIC aims to address the state of art of the academic and industrial research in catalysis, stressing its role in the development of modern chemistry.

The lecturers coming from University and from Industry will cover several aspects of catalysis within the following topics:

- ***CHARACTERIZATION TOOLS IN CATALYSIS***
- ***ENVIRONMENTAL CATALYSIS***
- ***FUEL AND CHEMICALS FROM RENEWABLES***
- ***GREEN CATALYSIS FOR FINE CHEMICALS***
- ***CATALYSIS FOR PHARMACEUTICALS***
- ***INNOVATIVE TECHNOLOGIES IN CATALYTIC PROCESSES***

During the School, three *best theses* of “Laurea Specialistica – Magistrale” on the application of catalysis, earned in Italy during the Academic years 2008/2009 and 2009/2010 will be selected. The authors will be invited to present their work in a 15-minute talk. They will be reimbursed of travelling expenses and registration fees. The applicants are ought to send by e-mail, to the school secretariat, by May 30, copy of their thesis, their CV, a

reference letter from their tutor and a self-certified document with all the course marks. Those who will graduate in the summer of 2010 can still send the application by May 30 and send their electronic thesis by July 10. These latter applicants will eventually pay the registration fees when the results of the evaluation are known.

Moreover, the four *best posters* presented at the School will be selected and awarded.

The “*Targa Fauser*” will be assigned to a scientist from Academy or Industry who has accomplished outstanding achievements in research and in education in catalysis and who has been at the same time an active participant in the GIC group. Dr. Domenico Sanfilippo is the recipient for the 2010 edition and he has been invited to give a lecture.

Venue

The school will take place at the CNR Area of Research of Palermo, via Ugo La Malfa 153. The students will stay in the youth hostel 'Baia del Corallo' overlooking the Tirrenium Sea, located in via Plauto, 27 - 90148 Palermo.

Registration fee

The fee is **350 €** for 'junior' (students and participants holding non-permanent position in University) and **400 €** for 'regular' (participants holding permanent positions in University and Industry). The fee includes the proceedings, registration, accommodation in single, double or four-bed rooms (according to preference, availability and registration time) for three nights (15-17 September), lunches from the 16th (Thursday) till the 18th (Saturday), welcome party on the 15th (Wednesday), social dinner and coffee breaks.

Participants "junior" may apply for grants covering the registration fee. The applications should be sent to the School Secretariat at the email address:

scuolagic2010@pa.ismn.cnr.it together with a short CV and a reference letter from the applicant's supervisor.

Payment:

Registration fee should be transferred before **June 15, 2010**, to the following bank account:

Beneficiary: SCI-GIC Soc. Chimica Italiana, Via G Venezian 21, 20133 Milano Italy, C.F 02908800580

Bank: Unicredit Banca - Bologna S. Mamolo - P.za di Porta San Mamolo, 6, 40136, Bologna

A/C: 000010639938

IBAN: IT90 I 02008 02452 000010639938

Swift: UNCRITB1NT4

Payments should be free of bank charges. To ensure that we process your payment correctly, please indicate "GIC School" and the delegate name. Fees are not refundable after August 29, 2010.

IMPORTANT: As a proof of payment, copy of the bank money transfer should be send by **fax (+39 0916809399)** or by e-mail to the school secretariat .

For those who will attend also the XVI National Congress of Catalysis (Mondello, 19-23 September) a discount of 100 € on the two events fees will be applied. The information regarding the Congress are available on the Congress web site <http://www.pa.ismn.cnr.it/gic2010>

Deadlines

30 May 2010 Application for grants and Awards

15 June 2010 Abstract submission

15 June 2010 Registration with fee payment

The **registration form** and the detailed information on the school are available on the web site :

<http://www.pa.ismn.cnr.it/scuolagic2010>

Scientific Secretariat

c/o Dr.ssa Anna Maria Venezia

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Scientific Committee

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Carlo Lamberti	Università di Torino
Antonello Mai	Università La Sapienza
Paolo Pollesel	Eni S.p.A
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Anna M. Raspolli Galletti	Università di Pisa
Nicoletta Ravasio	ISTM-CNR Milano
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Organising Committee

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Giuseppe Pantaleo	ISMN-Palermo
Rosalia Scalici	ISMN-Palermo
Anna Maria Venezia	ISMN-Palermo

SCIENTIFIC PROGRAM

15 SEPTEMBER

13.00-14.30	REGISTRATION and LUNCH
14.30-15.00	OPENING (W. Cabri and A.M. Venezia)
15.00-15.30	TRIBUTE to Adolfo Parmaliana (F. Frusteri, ITAE-CNR Messina)
ENVIRONMENTAL CATALYSIS: Chairs: A.M. Venezia, M. Signoretto	
15.30-16.30	S. Perathoner (Università di Messina) <i>New trends in environmental catalysis</i>
16.30-17.00	Coffee break
17.00-18.00	L. Liotta (ISMN-CNR, Palermo) <i>Catalysts for DeNOx and VOC abatement</i>
18.00-19.00	A. Trovarelli (Università di Udine) <i>Catalytic removal of pollutants from mobile sources.</i>
19.00-20.00	Free discussion with the afternoon lecturers

16 SEPTEMBER

CHARACTERIZATION TOOLS IN CATALYSIS: Chairs: F. Cavani, C. Lamberti	
09.00-10.00	E. Garrone (Politecnico di Torino) <i>Quantitative aspects of the IR spectroscopy of adsorbed species</i>
10.00-11.00	A. Longo (ISMN-CNR, Pa) <i>XRD, SAXS and EXAFS analyses of supported metal catalysts</i>
11.00-11.30	Coffee break
11.30-12.30	E. Groppo (Università di Torino) <i>Ethylene polymerization catalysts: a new frontier for spectroscopic methods</i>
12.30-13.30	Free discussion with the morning lecturers
13.30 14.30	Lunch
FUEL AND CHEMICALS FROM RENEWABLES: Chairs: N. Ravasio, A. Raspolli Galletti	
14.30-15.30	E. Heeres (University of Groningen) <i>Platform chemicals from lignocellulosic biomass</i>
15.30-16.30	R. Buzzoni (Istituto Eni Donegani) <i>Catalysis for the photosplitting of water and the photoactivation of light molecules</i>

16 SEPTEMBER

16.30-17.00	Coffee break
17.00-18.00	C. Bianchini (ICCOM-CNR, Firenze) <i>Molecular and nanostructured catalysts for the conversion of renewables into energy and chemicals</i>
18.00-19.00	Oral presentation of GIC Awards
19.00-20.00	Free Discussion with the afternoon lecturers

17 SEPTEMBER

GREEN CATALYSIS FOR FINE CHEMICALS: Chair: A. Albini	
09.00-10.00	A. Vaccari (Università di Bologna) <i>Clean catalytic processes for fine chemistry</i>
10.00-11.00	M. Selva (Università Ca' Foscari) <i>Catalytic reactions with low environmental impact solvents and reagents</i>
11.00-11.30	Coffee break
11.30-12.30	P. Melchiorre (ICIQ- Tarragona) <i>Asymmetric organocatalytic cascade reactions</i>
12.30-13.30	Free discussion with the morning lecturers
13.30-14.30	Lunch
CATALYSIS FOR PHARMACEUTICALS: Chairs: W. Cabri, A. Mai	
14.30-15.30	G. Sbardella (Università di Salerno) <i>Enzymes inhibition in Medicinal chemistry</i>
15.30-16.30	Antonello Mai (Università la Sapienza di Roma) <i>Targeting Epigenetic Enzymes: Therapeutic Applications</i>
16.30-17.00	Coffee break
17.00-18.00	S. Armaroli (Sigma-Tau Research Switzerland S.A.) <i>Catalysis in Pharmaceutical, from discovery to industrial production</i>
18.00-19.00	Free Discussion with the afternoon lecturers
19.00-20.00	POSTER SESSION
	Social Dinner

18 SEPTEMBER

INNOVATIVE TECHNOLOGIES IN CATALYTIC PROCESSES: Chairs: R. Psaro, P. Pollesel	
09.00-10.00	D. Sanfilippo <i>Catalytic technologies: from the idea to the industrial plant</i>
10.00-11.00	G. Groppi (Politecnico di Milano) <i>Novel structured catalytic reactors for process intensification</i>
11.00-11.30	Coffee break
11.30-12.30	S. Rossini (Eni SpA): <i>New catalytic processes for the downstream oil sector</i>
12.30-13.30	Free discussion with the morning lecturers and closing remarks
13.30 14.30	Lunch

