



Ph.D. WINTER SCHOOL

of the Italian Society of Agricultural Chemistry

The role of Agricultural Chemistry for a sustainable agricultural production and its traceability

Palermo, Italy, 12 – 15 February 2018

School aims

The incoming edition of the Ph.D. winter school of the Italian Society of Agricultural Chemistry aims to promote scientific knowledge in a friendly environment, bringing together Ph.D. students and young scientists.

School Venue

Department of Agricultural, Food and Forestry Sciences
University of Palermo
Viale delle Scienze – building 4
90128 Palermo – Italy
Website: www.unipa.it

PROGRAM

Monday, 12 february (afternoon)

Chairman: *The Organizing Committee*

- 14.30 – 15.15 Introduction to the School and Participants presentation
15.15 – 16.00 The soil habitat
Daniel Said Pullicino (University of Torino):
16.00 – 16.20 Coffee break
16.20 – 17.05 The living component of soil
Stefano Mocali (Agricultural Research Council (CRA))
17.05 – 17.50 From soil to roots: plant strategies for nutrient acquisition
Laura Zanin (University of Udine)
18.00 - get together

Tuesday, 13 february (full day)

Chairman: *Andrea Baglieri (University of Catania)*

- 9.00 – 10.00 Key note: Biochar stability in soil: Mechanisms of C sequestration and fertility improvements
Yakov Kuzyakov (Georg-August University of Göttingen)
10.00 – 10.45 Restoration of soil fertility, nutrient dynamics and agricultural production in semi-arid soils
Adriano Sofo (University of Basilicata):
10.45 – 11.15 Coffee break
11.15 – 12.00 Nutrient dynamics and agricultural production in alpine soils
Michele Freppaz (University of Torino):
12.00 – 12.45 Statistical analyses for agriculture experiment 1 (Correlation, Regression)
Irina Kuzyakova (Georg-August University of Göttingen)
12.45 – 14.30 Lunch
14.30 - 15.30 Key note: Isotope applications for studies of soil C dynamics and sequestration
Yakov Kuzyakov (Georg-August University of Göttingen):
15.30 – 18.00 Laboratory activity (Phytocomplex extraction and bio-guided fractionation; surface area and pore size analyzer, ¹H NMR, microbial biomass and activity) (parallel session)
Fabrizio Araniti (University "Mediterranea" of Reggio Calabria), Pellegrino Conte (University of Palermo), Vito Armando Laudicina (University of Palermo):

Wednesday, 14 february (full day)

Chairman: *Youri Pii (Free University of Bolzano)*

- 9.00 – 10.00 Key note: Weed management: traditional vs new methods
Mercedes Verdeguer (Universitat Politècnica de València)
10.00 – 10.45 Natural products as a source of bioherbicides: from their isolation and chemical characterization to their mode of action
Fabrizio Araniti (University "Mediterranea" of Reggio Calabria):

- 10.45 – 11.15 Coffee break
 11.15 – 12.15 Key note: C and O isotopes for the traceability of agricultural production
Federica Camin (Fondazione Edmund Mach, Centro Ricerca e Innovazione)
 12.15 – 13.00 Agrifood authentication and traceability by soil-based indicators
Antonio Caporale (University of Napoli Federico II)
 13.00 – 14.30 Lunch

Chairman: Roberto Terzano (University of Bari Aldo Moro), Anita Zamboni (University of Verona)

- 14.30 – 16.00 Trainees presentations
 16.00 – 16.20 Coffee break
 16.20 – 18.00 Trainees presentations
 Social dinner

Thursdays, 15 february (morning)

Chairman: *Silvia Rita Stazi (University of Tuscia)*

- 9.00 – 10.00 Statistical analyses for agriculture experiment 2 (ANOVA, ANCOVA)
Irina Kuzyakova (Georg-August University of Göttingen)
 10.00 – 10.45 Metabolomic for the traceability of agricultural production
Luigi Lucini (University Cattolica Sacro Cuore of Piacenza)
 10.45 – 11.15 Coffee break
 11.15 - 12.00 *Yakov Kuzyakov (Georg-August University of Göttingen):* Guidelines for writing and publishing in international journals
 12.00 - The Organizing Committee: Student feedbacks, poster awards, closing the school

Registration to the School

The deadline for registration is 31.12.2017.

The number of Trainees is limited to 40 participants (PhD students, post docs, scientists, technicians).

Registration fee is 70 € and includes participation to scientific sessions (lectures and practical sessions), coffee breaks, lunches and a digital copy of the book of abstracts.

To complete the registration, Trainers have to pay the participation fee by bank transfer using the following coordinates:

Recipient: Università degli Studi di Palermo, Piazza Marina, 61 – 90133 Palermo (Italy)

Bank: UNICREDIT S.p.A (Via Roma, 185 – 90133 Palermo)

IBAN: IT09A0200804682000300004577

SWIFT: UNCRITMMPAE

Applicants are kindly request to send a copy of the bank transfer, along with their abstract, to Dr. Vito Armando Laudicina at the following address: vitoarmando.laudicina@unipa.it

Poster and abstract presentation

Deadline for abstract submission is **15 January 2018**. Abstract has to not exceed one word page (single spaced, times new roman 12 pt) and authors' names and affiliations should be indicated. Each participant is asked to present a poster during the School. Posters should match the following size: (80 (w) x 100 (h) cm). Posters will be discussed (5+2 minutes) by each participant during a dedicated poster session on Tuesday afternoon. The Scientific Committee will select the three best posters to be awarded with a prize of € 100.00 each. Selection will be done according to scientific content, novelty and presentation quality and immediacy. Abstract should be sent as word file to vitoarmando.laudicina@unipa.it.

How to reach Palermo

The Falcone e Borsellino Airport is about 35 km far from Palermo. (<http://www.gesap.it>)

To reach Palermo from the Airport and vice versa:

by Bus

Autolinee Prestia e Comandè (The bus is outside the Airport Arrivals Area – right side). Step off the bus at the Terminal Central Station (last stop). The bus timetable is:

- from the Airport first trip 05.00 - from 6.30 to 23.30 - every half hour - last trip 00:15
- from Palermo - first trip 4.00 last trip 22.30 - every half hour

One-way ticket price: € 6.30

Return ticket (at the airport): € 10.00

by Taxi sharing

The airport's taxi service is in operation from 06.00 to 24.00 and the taxi rank is to be found outside the Arrivals Area. Fares from the Airport to Palermo (Central Station) or vice versa is about € 7.00 (the taxi will leave when it is full).

Accommodation

Trainers and trainees can book by themselves a single or double room at the Camplus Guest of Palermo. A special fee is reserved for the participants to SICA Ph.D. Winter School as follows: Standard Double - € 74.00 per room, per night, buffet breakfast included.

Double single use (DUS) - € 54 per room per night, buffet breakfast included.

City tax € 1 per person per night, to be paid directly at the hotel.

(Requests and Reservations in Superior Room: Double € 84 - DUS € 64)

To book a room:

- by phone at +39 091 7789000 by naming the event "sica2018";
- by mail to: palermo.guest@camplus.it indicating in the subject of the mail the event Sica2018;
- through Camplus Guest website <https://www.camplusguest.it/hotel/palermo/> by entering the business code "sica2018" (all lowercase and all attached);

The Camplus Guest is very closed to the School venue (5 minutes by walking).

Other accommodations are available at:

Hotel de France (€ 30.00 and € 50.00 for a single or double room, respectively) and Hotel Goliardo (€ 20.00 and € 35.00 for a single or double room, respectively). Both hotels are 25 minutes by walking from the school venue. To book a room please send an email to residenze@ersupalermo.gov.it (only few rooms are available).

Organizing committee

Vito Armando Laudicina, *University of Palermo*
Fabrizio Araniti, *University Mediterranea of Reggio Calabria*
Luigi Lucini, *University Cattolica del Sacro Cuore of Piacenza*
Youri Pii, *Free University of Bolzano*
Roberto Terzano, *University of Bari Aldo Moro*

Scientific committee

Roberto Pinton, *University of Udine*
Teodoro Massimo Miano, *University Aldo Moro of Bari*
Claudio Ciavatta, *University of Bologna*

Paola Adamo, *University Federico II of Napoli*
Luigi Badalucco, *University of Palermo*
Luisella Celi, *University of Torino*
Luca Espen, *University of Milano*
Nicola Tomasi, *University of Udine*
Vito Armando Laudicina, *University of Palermo*
Roberto Terzano, *University of Bari Aldo Moro*
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Fabrizio Araniti, *University Mediterranea of Reggio Calabria*
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