

International Summer School on Forest Soils and Global Change

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Giuseppe Palumbo - University of Molise, palumbo@unimol.it
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ACCOMODATION AND SCHOLARSHIPS

Reservations for the participants during the two weeks of the course having place in Campobasso have been made in bed and breakfasts and guest houses. The number of student that will be selected is 25. The FSGC Summer School offers 20 scholarships for lodging and field trip of successful participants.

APPLICATION

Participants will be selected on the basis of demonstrated experience in soil science. The strength of an applicant's academic background and a supporting letter of recommendation will also be considered in the selection process. In order to apply, it is necessary to submit a CV describing the academic and research career.

PAYMENT AND CONFIRMING STEPS

1- payment of the registration fee of 100,00 € by bank account
2- acceptance of the FSGC Summer School Programme (included costs, deadlines and all other conditions) to be addressed to relazint@unimol.it or faxed to +39 0874 418295 with attached proof of payment.

DEADLINES

The deadline for applications is 15 July 2007. The selection process will be completed by the end of July 2007. Application must be submitted either by e-mail to relazint@unimol.it or by fax to +39 0874 418295 (object: "Summer School - Campobasso"). Admitted candidates must confirm their participation no later than 31 August 2007.

BANK DETAILS

Holder account: Università degli Studi del Molise,
Via F. De Sanctis s/n, 86100 Campobasso - Italy
Bank: Banca di Roma Agenzia 5
Via Palombo, 86100 Campobasso - Italy
Account number: 400.70
ABI: 03002 - CAB: 03804
IBAN: IT13E0300203804000000040070
SWIFT: BROMITR1NC3



Ministero dell'Università
e della Ricerca



9-23 SEPTEMBER 2007
UNIVERSITY OF MOLISE
CAMPOBASSO (ITALY)

www.unimol.it



OBJECTIVE AND BACKGROUND

A two week Summer School on Forest Soils and Global Change (FSGC) will be held 9-23 September 2007 at University of Molise, Campobasso. It is supported by the Italian Ministry of University and Research (MUR) and it involves five Universities: Córdoba, Molise, Palermo, Santiago de Compostela and Turin.

The School is intended to provide graduate participants and early-career scientists with an understanding of the scientific underpinnings of the controls and feedbacks of climate-related changes in forest soils in Mediterranean ecosystems; it will also include a field trip.

Main objectives are:

- exploring a range of scientific issues related to global change, as it influences soil forest processes at multiple scales
- gaining expertise in evaluating ecosystem responses to a variety of environmental and global change factors
- learning how to read, interpret, and critically evaluate the primary scientific literature
- learning how to think critically about the intended and unintended consequences of alternative environmental strategies

Lectures given by international experts will provide update overviews on research at the frontier of soil science, meteorology and forest ecology. The programme is held in Italian, Spanish or English depending on the lecturer's mother tongue.

ORGANIZATION

The FSGC Summer School provides participants with a unique opportunity for networking: participants, will meet the leading experts in the field, share everyday life, and establish long lasting contacts with both fellow participants and faculty members.

The two weeks School consists of 9 days of classroom lectures and lab exercises at the University of Molise and 3 days field trip, for an overall duration of 100 hours.

At the end of the course a certification of the acquired 10 ECTS credits will be released.

PROGRAM AND FACULTY

Lectures

Facts

- Forest soils: problems in applied research and a new view on temporal stability (Stefano Carnicelli)
- Forest soils decline in view of the global change (Fabio Terribile)
- Soil memory: essence, bearers, space-and-time behaviour (Victor Targulian)
- Soil memory: the role of pedogenetic inertia and soil evolution (Fiorenzo Cesare Ugolini)
- Influence of climate change on forest ecosystems and carbon cycle (Giuseppe Scarascia Mugnozza)

Evidences

- Deadwood dynamics and carbon pools in forests (Roberto Tognetti)
- Biological activity of soil organic matter in forest ecosystems (Serenella Nardi)
- SOM dynamics in forest soils as affected by forest management (Luisella Celi)
- Soil iron oxides: origin, significance and application in environmental studies (José Torrent)
- Change in snow regime and its effect on the nutrient cycling in forest soils (Michele Freppaz)

Tools

- Predicting the effect of climate change on forest ecosystems and carbon cycle (Mauro Centritto)
- Remote sensing and Information Technologies in Earth observation for vegetation and climate issues (Paola Carrara & Mirco Boschetti)
- Geomatics for environmental monitoring and modelling (Gherardo Chirici)
- Sustainable forest management and carbon sequestration (Marco Marchetti)
- Visualizing soil landscapes by taking a Geographic Information System to the field (Darrel Schulze)
- Mineralogy of paleosols: techniques and applications (Claudio Colombo)

Field Trip

During the second week the group will travel to Matese areas (Southern Appennines). Research scientist will study jointly soil forest ecosystems in the context of a changing climate (6-8 soil profiles will be described). The main topics will be the soil characterization in contrasting forest contexts (landscape and profile description, site estimation of soil physical, chemical and biological properties) and soil classification. Ludovico Brancaccio, Pietro Aucelli and Carmen Russkoff (University of Molise) will lead the field activities.



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WITH THE COLLABORATION OF:

University of Florence, Moskow State University, University of Naples Federico II, University of Padova, Purdue University, University of Tuscia, IREA-CNR Milan, IBAF-CNR Porano, WSL Birmensdorf, Assing Spa, SIPE, SISS.