



**SOCIETA' ITALIANA DI CHIMICA AGRARIA**

**PhD Summer School**

***Soil, plant and biomasses in a changing environment***

**16-19 May 2012, Pieve Tesino (TN), Italy**

Organizing committee: Stefano Grego (Pres), Stefania Astolfi, Marco Trevisan, Gian Maria Beone, Tanja Mimmo and Stefano Cesco

*Aim of the School is to offer the opportunity to PhD students to learn about different aspects related to soil and the changing environment, including climate change and the biomass, their use and treatments in a scientific challenging and stimulating atmosphere.*

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## **Preliminary scientific program**

**16 May 2012**

afternoon: arrival and registration

**15.00-15.30: Opening ceremony - Stefano Grego** (DAFNE, University of Tuscia, Viterbo, Italy)

afternoon session: ***DYNAMICS OF THE AGRO-FORESTRY SYSTEM IN THE CHANGING ENVIRONMENT***

**Chair: Silvia Rita Stazi** (DIBAF, University of Tuscia, Viterbo, Italy)

**15.30-16.30 Paolo De Angelis** (DIBAF, University of Tuscia, Viterbo, Italy) **Climate Changes and terrestrial ecosystems: an overview**

**16.30-17.30 Gianluca Piovesan** (DAFNE, University of Tuscia, Viterbo, Italy) **Climate change impacts on temperate forests assessed through tree-ring networks**

**17.30-18.30 Team work and discussion\***: *Human activities and effects on agriculture and forestry\** (under supervision of the chair)

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#### 17 May 2012

morning session RHIZOSPHERE MANAGEMENT AS A TOOL FOR A SUSTAINABLE AGRICULTURE

Chair: Nicola Tomasi (DiSA, University of Udine, Italy)

8.30- 9.30 Paolo Nannipieri (DiPSA, University of Florence, Italy) Potential impact of climate changing on biochemical activities of soil

9.30-10.30 Roberto Pinton (DiSA, University of Udine, Italy) Rhizodepositions: the way out to the environment

10.30-11.00 *Break*

11.00-12.00 **Team work and discussion\***: *Rhizosphere: so many achievements and even more challenges\** (under supervision of the chair)

afternoon session: FOREST MANAGEMENT UNDER CLIMATE CHANGE

Chair: Alfredo Di Filippo (DAFNE, University of Tuscia, Viterbo, Italy)

14.30-15.30 Giustino Tonon (FaST, University of Bozen/Bolzano, Italy) Forest management and soil organic carbon

15.30-16.30 Claudio Zaccone (DiSACD, University of Foggia, Italy) Reconstructing paleoenvironmental changes using ombrotrophic bog profiles

16.30-17.00 *Break*

17.00-18.00 **Poster presentation by PhD students**

18.00-19.30 **Team work and discussion\***: *Managing forests to reduce climate change impacts\** (under supervision of the chair)

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#### 18 May 2012

morning session: PEDODIVERSITY AND SOIL BIODIVERSITY

Chair: Maria Cristina Moscatelli (DIBAF, University of Tuscia, Viterbo, Italy)

8.30- 9.30 Anna Benedetti (CRA-RPS, Rome, Italy) Soil microbial biodiversity in changing environment

9.30-10.30 Sara Marinari (DIBAF, University of Tuscia, Viterbo, Italy) Analytical tools to study pedodiversity induced by land use change and management

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10.30-11.00 *Break*

11.00-12.00 **Edoardo Puglisi** (Istituto di Microbiologia, University of Piacenza, Italy)  
Approaching the puzzle of plant, microbes and organic matter interactions in the rhizosphere

afternoon session: **AGRICULTURAL PRODUCTION AND ECONOMICS**

**Chair: Edoardo Puglisi** (Istituto di Microbiologia, University of Piacenza, Italy)

14.30-15.30 **Stefano Amaducci** (Istituto di Agronomia, genetica e coltivazioni erbacee, University of Piacenza, Italy) Sustainable Crop Productions

15.30-16.30 **Gabriele Dono** (DEAR, University of Tuscia, Viterbo, Italy) Problems of economic impact assessment of climate change

16.30-17.00 *Break*

17.00-18.00 **Poster presentation by PhD students**

18.00-19.30 **Team work and discussion\***: Sustainability of primary productions: the role of agricultural chemists

\* (under supervision of the chair)

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19 May 2012

morning session: **CARBON SEQUESTRATION IN SOIL: THE ROLE OF ORGANIC AMENDMENTS**

**Chair: Marco Contin** (DiSA, University of Udine, Italy)

8.30- 9.30 **Giovanni Gigliotti** (DSAA, University of Perugia, Italy) Composting process, compost application and greenhouse gases emission

9.30-10.30 **Claudio Ciavatta** (DiSTA, University of Bologna, Italy) Organic and organic-based fertilizers: agro-environmental and legislative aspects

10.30-11.00 *Break*

11.00-12.00 **Giorgio Alberti** (DiSA, University of Udine, Italy) Biochar: what we know and what we do not know (but hopefully we will)

12.00-13.00 **Maria De Nobili** (DiSA, University of Udine, Italy) The complex effects of the addition of agricultural biomasses and biomass energy waste on soil properties and C sequestration

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#### afternoon session: BIOFUELS AND BIOMASS CONVERSION OPTIONS

**Chair: Alessandro D'Annibale** (DIBAF, University of Tuscia, Viterbo, Italy)

**14.30-15.30: Fabrizio Adani** (DiProVe, University of Milano, Italy) Anaerobic Digestion, renewable nutrients and environmental impacts.

**15.30-16.30: Marco Barattieri** (FaST, University of Bozen/Bolzano, Italy) Biomass upgrading into gaseous and liquid fuels: thermo-chemical and biochemical processes

**16.30-17.00** *Break*

**17.00-18.00 Team work and discussion\*:** *Biological and physico-chemical approaches to the upgrading of biomass wastes* (under supervision of the chair)

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**20 May 2012**

breakfast and departure

Each speaker will give a 45 min lecture + 15 min discussion. Program could be subject to changes.

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### Location

Summer School will be held at the *Centro di Studi Alpino* of the University of Tuscia (Viterbo), at Pieve Tesino (TN), via Rovigo, 7 (Phone: +39-0461-594626; Fax: +39-0461-592766)

For the web site of the Center:

[http://www.unitus.it/centri/Centro\\_Studi\\_Alpino/Introduzione.htm](http://www.unitus.it/centri/Centro_Studi_Alpino/Introduzione.htm)

### How to reach Pieve Tesino

#### By car from Trento (about 50 km):

Autostrada A22 del Brennero, exit Trento Centro; then S.S. 47 della Valsugana, exit Strigno; S.P. 78 del Tesino.

#### By train from Trento:

FS Station of Trento (linea Monaco-Roma).

FS Station of Strigno (linea della Valsugana, Trento-Venezia).

Bus of Società Atesina: from Trento or from Strigno

For train timetables, please check: WWW.TRENITALIA.IT. (this option is particularly suited for foreign students, who might reach Italy well in advance of School start)

#### By airplane:

Closest airports:

Verona Catullo (90 km) (<http://www.aeroporto.verona.it/>);

Venezia Marco Polo (195 km) (<http://www.veniceairport.it/core/index.jsp?requestid=1022420>);

Milano Linate (245 km) ([http://www.seamilano.eu/landing/index\\_it.html](http://www.seamilano.eu/landing/index_it.html));

Bolzano (NEW - 60 km) (<http://www.abd-airport.it/>)

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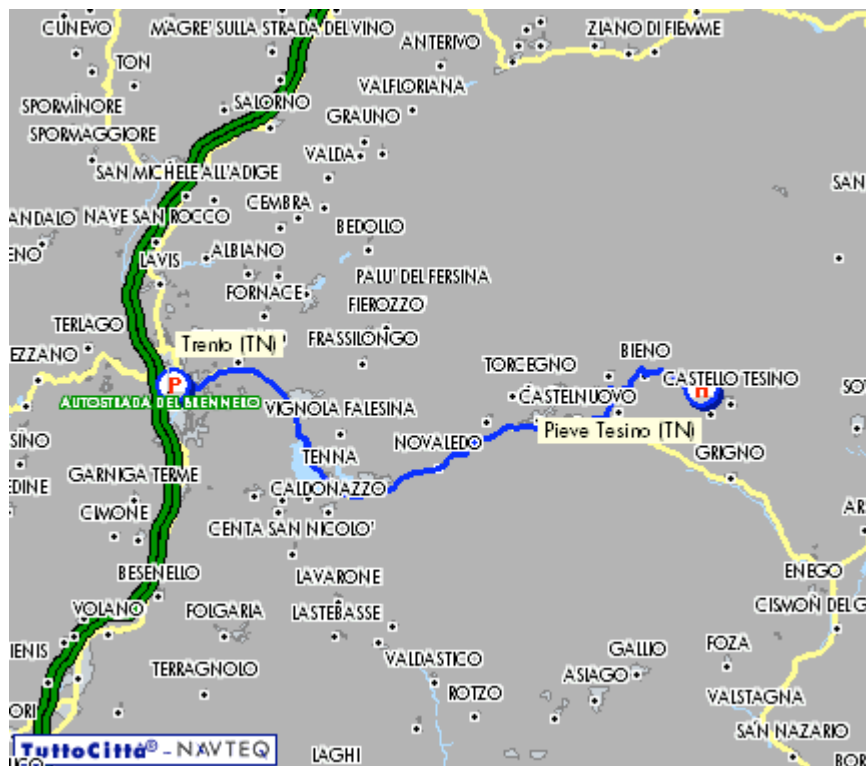
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Be aware that School starts in the afternoon of the 16 May and that School fees cover four nights starting from 16 May.

## Registration Fee

Number of School participants is limited to 33 PhD students/post docs.

School fee: **250 Euro**, which cover the costs from 16 May late morning (lunch is excluded) to 20 May morning (breakfast is included), i.e. lodging, meals, coffee-breaks, evening party.

Rooms are: triple (three beds, n.1), family (four beds, n.6) and sixfold (six beds, n.1); roommates will be assigned according to gender, unless otherwise specified in the registration form.

PhD students are requested to send a document attesting their status (mail [gian.beone@unicatt.it](mailto:gian.beone@unicatt.it); fax 0523-599217)

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### Registration procedure

Registration deadline: **30 March 2012.**

For registration please, follow this three-steps procedure:

#### 1) payment of 250 Euros, by bank transfer, to:

**Account holder:** Società Italiana di Chimica Agraria

**Account number:** 1000/12263

**Bank:** Banca Prossima, via Manzoni ang. Via Verdi, 20121 Milano

**IBAN:** IT64 V 03359 01600100000012263

All banking costs must be paid by the participant.

The name and address of the participant as well as the details of the payment should be clearly indicated when completing the bank transfer.

2) send a scanned copy of your payment (JPG or PDF format), by e-mail at [gian.beone@unicatt.it](mailto:gian.beone@unicatt.it)

3) send your registration form to [gian.beone@unicatt.it](mailto:gian.beone@unicatt.it)

Once you have completed this three-steps procedure, we will confirm your registration by e-mail.

### Poster presentation

You are welcome to prepare a poster (max size: 80 x 100 cm) of your current work, in which case we kindly request you to submit an abstract before 30 March 2012. Four abstract selected by the Organizing Committee will be presented by their applicants (10min presentation + 5min of discussion). Applicants will be informed about the selection one week before the starting of the school.

Abstract format: abstract should not exceed 250 words, (courier 12 pt) and all the authors names and affiliations should be indicated. Abstract should be sent as word file to [sastolfi@unitus.it](mailto:sastolfi@unitus.it).

### General informations

If you are planning to spend a short holiday in Trentino, we suggest you to make an Hotel reservation well in advance and for more information visit

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<http://www.dolomiti.it/en/trentino/in-depth-themes/summer-skiing-in-trentino-and-south-tyrol/>.

### *Contacts*

For any questions or doubts regarding School organization, please contact organizers at

[gian.beone@unicatt.it](mailto:gian.beone@unicatt.it)

[sastolfi@unitus.it](mailto:sastolfi@unitus.it)

[tanja.mimmo@unibz.it](mailto:tanja.mimmo@unibz.it)

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## Registration form

Please complete the form and send it to [gian.beone@unicatt.it](mailto:gian.beone@unicatt.it)

<b>First name</b>	
<b>Family name</b>	
<b>e-mail address</b>	
<b>Name of your current Research Institute</b>	
<b>Address of your current Research Institute</b>	
<b>If PhD student, please specify name of your tutor</b>	
<b>Did you send scanned copy of your bank payment to <a href="mailto:gian.beone@unicatt.it">gian.beone@unicatt.it</a>?</b>	
<b>Do you intend to present a poster? Y/N</b>	
<b>With whom would you like to share your room?</b> If no preferences are indicated, roommates will be assigned according to gender	

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#### **Organizing committee**

Stefano Grego - University of Tuscia (Viterbo),

Stefania Astolfi - University of Tuscia (Viterbo)

Marco Trevisan - University of Piacenza (Cattolica del Sacro Cuore)

Gian Maria Beone - University of Piacenza (Cattolica del Sacro Cuore)

Tanja Mimmo - Free University of Bozen/Bolzano

Stefano Cesco - Free University of Bozen/Bolzano

#### **Speakers:**

Paolo De Angelis- UniVT

Gianluca Piovesan - UniVT

Paolo Nannipieri - UniFI

Roberto Pinton - UniUD

Giustino Tonon - UniBZ

Claudio Zaccone - UniFG

Anna Benedetti - EnteCRA

Stefano Amaducci - UniCatt

Edoardo Puglisi - UniPC

Sara Marinari, Uni-VT

Gabriele Dono, Uni-VT

Giovanni Gigliotti UniPG

Claudio Ciavatta UniBO

Giorgio Alberti - UniUD

Maria De Nobili - UniUD

Fabrizio Adani - UniMI

Marco Trevisan - UniCatt

Marco Barattieri - UniBZ

#### **Chairman and organizer of the Team work and discussion**

Silvia Rita Stazi- UniVT

Nicola Tomasi - UniUD

Alfredo Di Filippo - UniVT

Edoardo Puglisi - UniCatt

M.Cristina Moscatelli - UniVT

Marco Contin - UniUD

Alessandro D'Annibale - UniVT

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