

# “Florence-Symposium” on running projects focused on C- dynamics in Italian forest soils

Florence 29th September 2016



## Italian Academy of Forest Sciences

Il simposio focalizzerà l'attenzione sull'importanza che ha il carbonio contenuto nelle componenti organiche del suolo sul mantenimento della fertilità del suolo in ambito forestale. Inoltre, maggiori conoscenze a titolo multidisciplinare sulle dinamiche di rilascio e conservazione del carbonio in suoli forestali sono necessarie per poter meglio comprendere l'impatto che i fattori climatici in continua evoluzione hanno sul ciclo globale del carbonio. Grazie alla partecipazione di leading-scientists che presentano alcuni dei progetti nazionali ed europei attualmente in corso, si auspica che questo simposio possa portare a: i) allargare le conoscenze sui meccanismi del carbonio in suoli forestali europei, ii) realizzare un “multidisciplinary consortium” tra i partecipanti al fine di promuovere nuove collaborazioni, iii) redigere interessanti proposte di chiamata regionale, nazionale e internazionale con l'obiettivo di sensibilizzare i corpi istituzionali nazionali ed europei a questa tematica di richiamo comune.

In the forthcoming symposium, focus is given on the eminent role of soil organic carbon in the fertility maintenance of forest ecosystems. In fact, it is still of paramount importance to further unravel the complex carbon dynamics in forest soil ecosystems (C sink and source) by means of multidisciplinary approaches, so as to gain in-depth insights into the global C-cycle within the context of climate change. The participation of leading scientists presenting current projects, at national and European level, provides a promising platform to i) strengthen our knowledge on the mechanisms beyond the C cycling in European forest soils; ii) set up an interdisciplinary/multidisciplinary consortium among the participants aiming at new collaborations; iii) to screen the “project-call-calendar” for best fitting regional, national, European calls and perform an initial brain-storming on concrete project-proposals, aiming at sensitizing national and European Institutions on this topic of global ecological relevance and thus, of paramount importance.

**9.00 - “Welcome to the Accademia Italiana di Scienze Forestali”:**  
**Prof. Orazio Ciancio**, President of the Academy of Forest Science  
**Prof. Giacomo Pietramellara**, DiSPAA, University of Florence

## **D.A.CH – DecAlp: “Effects of climate on coarse woody debris Decay dynamics and incorporation into the soils of forested Alpine areas”**

### **9.20 - Introduction/Overview of the D.A.CH.-DecAlp Project:**

Coordinator: **Prof. Jean-Michel Gobat**, University of Neuchatel, Switzerland

### **9.40 - Soil fauna and humus forms characterization along the Project sites**

**Dipl. Biol. Ulfert Graefe** (Dr. Anneke Beylich, IFAB, Hamburg, Germany; Dr. Giacomo Sartori, MUSE, Trento, Italy)

### **10.00 - Microbial communities involved in soil and deadwood decomposition along the DecAlp-climosequence**

**Prof. Heribert Insam** (Dr. Maria Gomez-Brandon, University of Innsbruck, Austria; Dott. Tommaso Bardelli, Univ. of Florence, Italy / Univ. of Innsbruck, Austria; Dr. Judith Ascher-Jenull, Univ. of Florence, Italy / Univ. of Innsbruck, Austria)

### **10.20 - Decay rates of deadwood along the DecAlp-climosequence**

**Prof. Markus Egli**, University of Zurich, Switzerland

**Dr. Paolo Cherubini**, WSL, Swiss Federal Institute for Forest, Snow and Landscape Research, Zurich, Switzerland

### **10.40 - Modelling of the spatial distribution of humus forms / DecAlp-Megadataset**

**Prof. Gabriele Broll** (Dr. Kerstin Anschlag; MsC. Niels Hellwig, University of Osnabrueck, Germany)

## **Additional contributions**

**11.00 – Prof. Marco Marchetti** (Prof. Roberto Tognetti, Msc. Giulia Fravolini), **University of Molise, Italy**

### **DecApp project – preliminary results**

**11.20 – Dr. Pierfrancesco Nardi**, Research Unit for Climatology and Meteorology applied to Agriculture, Consiglio per la Ricerca in Agricoltura e l’analisi dell’Economia Agraria, Rome, Italy

**Science mapping analysis of the Mediterranean forest research**

## **Running LIFE Projects**

**11.40 - Prof. Alessandro Piccolo**, University Federico II, Naples, Italy

**Innovative methods to increase carbon storage in agricultural soil LIFE CarbOnFarm project**

**12.00 - Prof. Davide Marino**, University of Molise, Italy

**LIFE+ Making Good Natura – focus on valorization of forest carbon sink ecosystemic service**

**12.20 - Dr. Andrea Cutini/ Dr. Gianfranco Fabbio**, CREA - Forestry Res. Centre, Arezzo, **Preliminary results of the running project FutureForCoppiceS**

**12.40 – Dr. Alessandra Lagomarsino**, CREA Firenze, Italy

**Preliminary results of the running Life projects SEIPiBioLife**

**13.00 – Dr. Stefano Mocali, CREA Firenze, Italy**

**Preliminary results of the running Life projects FOReseMit**

***13.30 - Symposium closing***

***Poster-Exhibition of various Projects (DecAlp, DecApp, LIFE, etc.) with possibility for students to show their “research in progress”***

***15.00-17.00 - Round table***

**Chair men:**

**Prof. Orazio Ciancio, President of the Academy of Forest Science, Italy**

**Prof. Giacomo Pietramellara, DiSPAA, University of Florence, Italy**

The round table will focus on potential Calls for regional, national, and international projects (e.g. Horizon 2017-2020, LIFE), with the aim to set-up a consortium for joint applications.