DOCENTE

PAOLO DE ANGELIS - Professore ordinario - Tempo pieno - DIBAF - AGR/05

Comunicazioni

Email pda@unitus.it

Curriculum vitae

Prof. Paolo De Angelis, PhD, is Full Professor at the University of Tuscia. Received his "Laur degree in Forestry in 1989, with a thesis on the environmental and ecological impacts of an thinning, in a *Pinus pinaster* stand. He obtained his PhD degree on 1994, with a thesis on th elevated [CO2] on a Mediterranean forest ecosystem. The research activities are conducted Department for Innovation in Biological, Agro-food and Forest systems (DIBAF). The main sc on Plant & Tree Ecophysiology and Ecology, with particular emphasis on the study of the im climate changes (temperature, drought, elevated atmospheric CO_2 concentration) on trees, shrubland. Another sector of application of the ecophysiological studies is on the evaluation functional responses of trees and forest to the microclimatic and structural changes induce silvicultural treatments. The research activities are conducted mainly *in-situ*, by the realiza large-scale manipulation facilities. The scientific methodologies used to conduct the researc from the analysis of leaf and community gas-exchanges, to the analysis of soil-plant-atmosp relations; from the analysis of ecosystem productivity and carbon cycle, to the plant-polluti and phytoremediation technologies.

He designed and managed large Open Top Chambers, to study the direct effects of a double CO_2 concentration on a natural Mediterranean forest, for more than seven years. He collab design and management of a Free Air Carbon dioxide Enrichment (FACE) facility, used to ex atmospheric [CO_2] of 550 ppm a poplar plantation, from the beginning to the end of the sec cycle (six years).

He was the scientific responsible of the Porto Conte installation, where the long-term impa increased daily minimum temperature (night time warming) and a prolonged summer drougl studied for more than ten years.

He participated to several European Research Projects, mainly focused on the impact of en stresses and climatic changes on different forest ecosystem processes (STEP, CIPA, EPOCH, POPFACE, VULCAN, EUROFACE). He also was involved in other European Projects focused or as CANIF, FORCAST and LTEEF. In that context his scientific contribution was on the study c of trees and community using the ecophysiological methods and techniques at level of leave community and ecosystems. At the national level his work was also focused on the response communities and trees plantations to the silvicultural management, applying new technique for that specific sector.

In the context of the European FP7 his scientific activity was: on water use efficiency of po staff member of the project NOVELTREE (Novel tree breeding strategies); on impact of clim Mediterranean shrublands, as scientific responsible of one partner group of the project INCI Integrated Network on Climate Change REsearch Activities on Shrubland Ecosystems); on im management on the regional scale GHG balance of selected data rich regions in Europe, in the project GHG-Europe (Greenhouse gas management in European land use systems).

His work is also devoted to applied projects, focused on the design and realization of sustai to reuse the wastewater for wood production and for environmental protection. In this con coordinated: the design and realization of a pilot area in the frame of the international coc between Italy and Algeria (MAE-MIUR; MISE-ICE-CRUI); the design of a series of constructed protect the seasonal river supporting the palm production in the Saharan region and the de constructed wetland to treat the wastewater of a small village in Tunisia, in the frame of a FAO project.