













Multi-functional Agriculture

Agriculture as a Resource for Energy and Environmental Preservation



SCIENTIFIC COMMITTEE

ESA PRESIDENT: Prof. Paola Rossi Pisa (Chairman)

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Marco Acutis • Marco Bindi • Pietro Catizone
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John R. Porter • Pier Paolo Roggero • Graham Russell
Hartmut Stützel • Francisco Villalobos

ESA: Division Chairmen

Division 1 - Crop physiology, production and management - Sven Eric Jacobsen
Division 2 - Agroclimatology and agronomic modelling - Marco Bindi
Division 3 - Plant-soil relationships - Witold Grzebisz
Division 6 - Agriculture-environment relationships - Olaf Christen

SESSION 1 - AGRICULTURE TO PRESERVE ENVIRONMENT Chairmen:

Olaf Christen (Martin-Luther-University, Halle-Wittenberg, Germany)
Witold Grzebisz (University of Poznan', Poland)
Sven Eric Jacobsen (University of Copenhagen, Denmark)
Pier Paolo Roggero (SIA President, Sassari University, Italy)
Hartmut Stützel (Leibniz Universität Hannover, Germany)

Keynote speakers:

Markus Flury (Washington State University, Pullman, USA)

Maria Inés Mínguez Tudela (Universidad Politécnica de Madrid, Spain)

Alicja Pecio (Institute of soil science and plant cultivation, Pulawy, Poland)

SESSION 2 - NEW FRONTIERS IN CROP PRODUCTION Chairmen:

Giovanni Dinelli (University of Bologna, Italy)
Melvyn Askew (Agricultural Rural Strategies, York, UK)
Roberto Tuberosa (University of Bologna, Italy)

Keynote speakers:

Alejandro Cifuentes (Inst. of Industrial Fermentations, Madrid, Spain)

Merja Penttilä (VTT, Finland)

Calliope Panoutsou (Imperial College London, UK)

Thierry Simonneau (INRA, Montpellier, France)

Geoff Fincher (University of Adelaide, Australia)

SESSION 3 - CLIMATE CHANGE AND AGRICULTURE Chairmen:

Giampiero Maracchi (CNR-IBIMET, Firenze, Italy)
Francisco Villalobos (University of Cordoba, Spain)
John Roy Porter (KVL, Taastrup, Denmark)

Keynote speakers:

Bernard Seguin (INRA, Avignon, France)
Frank Chmielewski (Humboldt Universität, Berlin, Germany)
Jorgen Olesen (University of Tjele, Denmark)
Peter Kuikman (ALTERRA, Wageningen, The Netherlands)

FINAL DISCUSSION:

Marco Bindi (University of Firenze, Italy)

RATIONALE

In the-present global situation, agriculture plays a major role in the interaction between socio-economic and biophysical processes. In addition to its principal and fundamental role of providing food, it now needs to consider other ecosystem services provided by agriculture and to explore the new frontiers for the future.

In the 50's of the 20th century the major topic was the introduction of inorganic fertilizers, in the 60's the use of synthetic compounds for plant protection (insecticides, herbicides, fungicides), in the 70's industrial crops, in the 80's organic farming and the environmental impact of agronomic practices, and in the 90's genetically modified crops (herbicide tolerance, insect resistance). In the current decade the themes are: land and water degradation, the production of agricultural biomass for bioenergy, and the increased expression of functional compounds in crops.

The Bologna X Congress of ESA "Multi-functional Agriculture - Agriculture as a Resource for Energy and Environmental Preservation", will meet the needs of finding tools to deal with environmental problems coupled with the increasing demand for food, and filling the knowledge gap on the physiological relationships between functional compound bio-synthesis and agricultural practices.

Members of the European Society for Agronomy already have a deep knowledge of these issues, and the Bologna ESA Congress will provide an opportunity to develop them further particularly in regard to innovative agricultural techniques, new energy sources and better environmental monitoring.

THE GOALS OF THE CONGRESS ARE:

- Identify new perspectives and frontiers for European agriculture in the third millennium, collecting together the major inputs from the public and private agri-food sector (Commercial R&D, Universities, Research Institutes).
- Encourage cross-cutting studies of monitoring, prediction and evaluation of the effects of climate change and variability on the rural environment, and on the related social aspects.

Tuesday,

September 16

	14:00 Registration		
Monday,	16.00-17.00	Opening (ESA President, Dean, Rector, Representatives of Local Institutions)	
September 15	17.00-18.30	2 KEYNOTE PRESENTATIONS of Relationship between Policy and Agriculture Research, Representatives of Italian Ministry of Agriculture and EU	
	18.30	Welcome Reception	

SESSION	

AGRICULTURE TO PRESERVE ENVIRONMENT

SESSION 2

NEW FRONTIERS IN CROP PRODUCTION

SESSION 3

CLIMATE CHANGE AND AGRICULTURE

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Erosion; pollution control (Phytoremediation)

Chairman: P.P. Roggero

Agronomic techniques for preserving ecosystem services

Chairman: S.E. Jacobsen



Functional foods and nutraceuticals Fine chemicals and biomaterials from agriculture

Chairman: G. Dinelli



Technologies for Biodiversity conservation: Interaction between natural Morning resources and agriculture Chairmen: H. Stützel, O. Christen **Discussion Session 1** Wednesday, September 17

Vegetation and Seed bank dynamic Chairman: W. Grzebisz

Afternoon

Biomass and energy production

Chairman: M. Askew

Assessment of the vulnerability of agricultural systems and areas

Chairman: G. Maracchi

POSTER Session 1 - 2 - 3

ESA **ASSEMBLY**

Social Dinner

Thursday, September 18 Morning

Evening

Morning

Afternoon

Afternoon

ECHNICAL EXCURSION
THE RESEARCH FIELD OF DIS

Genomics for a more sustainable agriculture Chairman: R. Tuberosa

Discussion Session 2

Adaptation

Chairman: F. Villalobos

Greenhouse gas emissions from agriculture Chairman: J.R. Porter

Discussion Session 3

FINAL DISCUSSION

Friday, September 19

Full day



POST CONGRESS TOUR

Visit to the Research Field of Ozzano, wetland and tour of Ravenna, the city of mosaics, farewell party on the beach

GENERAL INFORMATION

REGISTRATION FEES

The registration form has to be sent no later than **September 5, 2008.**

After this date, the registration forms will be accepted, but some services (as lunches and coffee breaks) could not be guaranteed.

	Before June 30, 2008	After June 30, 2008	
• ESA MEMBERS	€ 310,00	€ 370,00	
• NON ESA MEMBERS	€ 360,00	€ 420,00	

€ 220,00

The registration fee includes:

- Congress kit

STUDENTS

- Coffee breaks and Lunches
- Technical excursion to the Research Field of DiSTA

•	ACCOMPANYING PERSONS	€ 100,00

The registration fee includes:

- Coffee breaks and Lunches
- Bologna Tour

•	Social	Dinner	- September 17	€ 50.00
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• **Post Congress Tour** - September 19 € 80,00

PAYMENT

- The registration fees must be free of charges or bank commission. Please specify your Surname and First Name along with the Congress name as reason of payment.
- Please send the receipt or the copy of the payment to the Organizing Secretariat, otherwise the access to the Congress will not be allowed.
 Bring and show it also at the Reception Desk at your arrival to the Congress.

METHODS OF PAYMENT

- Bank cheque "non-negotiable" made out to Avenue Media
- Bank wire transfer

<u>From Italy:</u> Banca Popolare dell'Emilia Romagna, Bologna, Agenzia 7, current account made out to Avenue media s.r.l IBAN Code: IT 15 V 05387 02406 000000437531

Outside Italy: IBAN Code: IT 15 V 05387 02406 000000437531

BIC Code: BPMOIT22XXX

SWIFT Code: BPMOIT22XXX - current account no. 437531

• **Credit card** directly on the following website: www.avenuemedia.eu (Congress section) or fill in the section on the registration form





HOTEL

The Hotel reservation is available on the website: www.avenuemedia.eu

(Congress section)

ABSTRACT SUBMISSION

- Deadline for abstracts submission: May 24, 2008
- After abstract acceptation, deadline for short communication submission: June 15, 2008
- **Abstract instructions** on the website: **www.avenuemedia.eu** (*Congress section*)

WiFi service

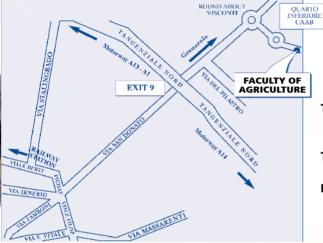
A WiFi service will be available at the Congress upon request at the Reception for all the registered participants.



CONGRESS VENUE

University of Bologna Faculty of Agriculture

Viale G. Fanin, 50 - Bologna (Italy)



HOW TO GET THERE

BOLOGNA

Train: from Bologna railway station take the bus n. 35, stop at "CAAB Viale Fanin".

Milan

Venice

Taxi: available at the railway station (tel. +39 051 534141-372727).

By car: from the motorway take the "Tangenziale" towards Fiera, then take the Exit 9 S. Donato towards Minerbio/ Granarolo, continue for 1 km, at the 1st roundabout turn right and continue along viale T. Carnacini (directions CAAB/Facoltà di Agraria), at the 2nd roundabout turn right and continue along viale Giuseppe Fanin.

Closest Airports: Bologna Airport, about 20 minutes by taxi or by bus; Forlì Airport, about 60 minutes by taxi or by bus.

Car park: a large car park is available within the Faculty of Agriculture.

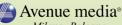
SCIENTIFIC SECRETARIAT

DEPARTMENT OF AGROENVIRONMENTAL SCIENCES AND TECHNOLOGIES UNIVERSITY OF BOLOGNA

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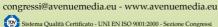
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ORGANIZING SECRETARIAT



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FONDAZIONE IN BOLOGNA

Thanks to

