

**12th Congress of the
European Society for Agronomy**
Helsinki, Finland, 20-24 August 2012



Programme

PROGRAMME OUTLINE

Monday 20 August 2012	
08:00	Registration
10:00	Opening session: <i>Main auditorium (Iso Juhlasali), 2nd floor</i>
12:00	Lunch
13:30	Crop Modelling <i>Small auditorium (Pieni Juhlasali), 4th floor</i> Soils and soil-plant-(microbe) interactions <i>Hall 1, 2nd floor</i>
15:00	Coffee
	Crop and systems modelling 1 <i>Small auditorium, 4th floor</i> Yield gap assessment and reduction <i>Hall 1, 2nd floor</i>
17:00 – 18:00	ESA executive meeting Installation of posters in foyers
18:15 – 20:00	University reception

Tuesday 21 August 2012	
08:30	Registration
09:00	Crop and systems modelling 2 <i>Small auditorium, 4th floor</i> Sustainable bioenergy cropping 1. <i>Main auditorium, 2nd floor</i>
10:30	Coffee
11:00	Crop protection, allelopathy, and pesticide reduction 1 <i>Small auditorium, 4th floor</i> Sustainable bioenergy cropping 2 <i>Main auditorium, 2nd floor</i>
	Lunch Foyers: Poster session 1
14:30	Crop protection, allelopathy, and pesticide reduction 2 <i>Small auditorium, 4th floor</i> Crop adaptation to high latitudes <i>Main auditorium, 2nd floor</i>
16:00	Coffee
16:30	Field biodiversity <i>Small auditorium, 4th floor</i> Resource use efficiency <i>Main auditorium, 2nd floor</i>
18:00 – 19:30	Helsinki city reception

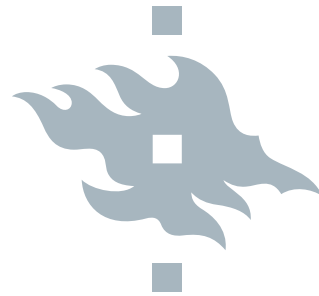
Wednesday 22 August 2012	
08:30	Registration
09:00	Field trips and modelling course
	Free evening / Helsinki Festival

PROGRAMME OUTLINE

Thursday 23 August 2012			
08:30	Registration		
08:00 – 08:45	The Worldwide “Farming Systems Design” initiative. <i>Main auditorium, 2nd floor</i>		
09:00	Crop stress response 1 <i>Small auditorium, 4th floor</i>	Legume-supported rotations 1. <i>Hall 1, 2nd floor</i>	Farming systems design 1. <i>Main auditorium, 2nd floor</i>
10:30	Coffee		
11:00	Crop stress response 2. <i>Small auditorium, 4th floor</i>	Legume-supported rotations 2. <i>Hall 1, 2nd floor</i>	Farming systems design 2. <i>Main auditorium, 2nd floor</i>
12:30	Lunch Foyers: Poster session 2		
14:30	Crop stress response and mitigation. <i>Small auditorium, 4th floor</i>	Cropping systems design. <i>Hall 1, 2nd floor</i>	Energy efficiency and environmental impacts of cropping systems 1. <i>Main auditorium, 2nd floor</i>
16:00	Coffee		
16:30	Modelling in changing environments. <i>Small auditorium, 4th floor</i>	Management of novel crops, including cover/catch-crop systems. <i>Hall 1, 2nd floor</i>	Energy efficiency and environmental impacts of cropping systems 2. <i>Main auditorium, 2nd floor</i>
19:00 – 24:00	Conference dinner: Ravintola Sipuli		

Friday 24 August 2012		
08:30	Registration	
09:00 – 10:00	ESA general assembly. <i>Main auditorium, 2nd floor</i>	
10:00	Coffee	
10:30	Omics in crop sciences. <i>Small auditorium, 4th floor</i>	Farming systems design 3. <i>Main auditorium, 2nd floor</i>
12:00	Lunch	
13:00	Closing plenary session: <i>Main auditorium, 2nd floor</i>	

ORGANISERS, SUPPORTERS, EXHIBITORS, SPONSORS



UNIVERSITY OF HELSINKI



CONTENTS

Programme outline	2
Organisers, supporters, sponsors and exhibitors	4
Welcome to Helsinki.....	6
Committees	6
General and travel information.....	7
Floor plans	9
Social programme.....	12
Scientific programme on Monday	13
Scientific programme on Tuesday.....	15
Scientific programme on Wednesday	17
Scientific programme on Thursday	18
Scientific programme on Friday.....	22
Poster listing	23
Alphabetical index of authors	25



DEAR DELEGATES,



Welcome to Helsinki and to the 12th Congress of the European Society for Agronomy!

It has been a long road to get here. Four years ago, we put our heads above the parapet at the Bologna congress and volunteered to host this event. Since then, thousands of emails have come in and gone out, along with phone calls and old-style letter post. We recruited a local committee, an international scientific committee, a list of potential (and later, invited) keynote speakers. In the process, we have done some things right while doing other things wrong, and we have pleased some people while offending others. Sweat has dripped and midnight oil has been burnt.

But look! All of a sudden, it is all together! We have about 300 delegates from 40 countries presenting over 100 talks and nearly 200 posters. We have 15

invited speakers, including from North America, Australia and Asia. We have, in short, a Congress.

I thank the members of the International Scientific Committee and the Invited Speakers for reviewing the abstracts and chairing the sessions. I thank the local committee for its many inputs, and our sponsors for their support. I thank Jussi, Päivi and Helinä from Congrex for looking after so much of the non-scientific part of the congress. I thank Jacques Wéry and the ESA headquarters team for keeping me informed about the way ESA likes things to be done. And I thank Pirjo Mäkelä for being my right-hand person throughout the preparations.

I hope that you enjoy the conference, make friends and influence people, and enjoy this lovely country as well while you are here.

Best wishes

Fred Stoddard
President, European Society for Agronomy,
August 2010 – August 2012

COMMITTEES

Organising committee	Scientific committee	Congress secretariat	
Frederick Stoddard Pirjo Mäkelä Laura Alakukku Mikko Hautala Kristina Lindström Susanna Muurinen Sari Peltonen Mervi Seppänen Markku Yli-Halla	Frederick Stoddard Pirjo Mäkelä Marc Benoit Olaf Christen Marcello Donatelli Henrik Eckersten Brian Fowler Felix Herzog John Kirkegaard Jaume Lloveras Evelin Loit	José Paulo de Melo e Abreu Donal Murphy-Bokern András Nábrádi Krystyna Rykaczewska Roxana Savin Jaswinder Singh Elizabeth Stockdale Hartmut Stützel Muriel Valantin-Morison Christine Watson Jacques Wery	CONGREX / Blue & White Conferences Oy P.O.Box 81, FI-00371 Helsinki Tel. +358 9 560 7500 Fax +358 9 560 75020 Email: esa12@congrex.fi

GENERAL AND TRAVEL INFORMATION

Registration and Information Desk

On the congress days, participants can pick up their personal congress material at the registration desk, which will be open at University of Helsinki, main building (Street address: Fabianinkatu 33, ground floor) as follows:

- Monday, 20 August 2012 at 8:00 – 18:00
- Tuesday, 21 August 2012 at 8:30 – 18:00
- Wednesday, 22 August 2012 at 8:30 – 9:00
- Thursday, 23 August 2012 at 8:00 – 18:00
- Friday, 24 August 2012 at 8:30 – 15:00

The congress secretariat will be available to assist you during the entire congress at University of Helsinki.

Language

The congress language is English. There will be no interpretation.

Name Badges

Participants are obliged to wear the official congress name badges at all congress events. An additional fee will be charged for reproduction of lost name badges.

Photographing, Recording and Mobile Phones

Photographing or recording of oral presentations is not allowed. Mobile phones should be switched off in the lecture halls since they may interfere with the audio system of the halls.

Lunch and Refreshments

Lunch and morning and afternoon refreshments are included in the participants' registration fee. Coffee and tea will be available in the exhibition area (2nd floor) during the morning and afternoon coffee breaks and after lunch.

Non-Smoking Policy

Smoking is prohibited in the congress and exhibition areas. Smoking is allowed only outside in designated smoking areas.

Powerpoint presentations

PowerPoint presentations should be loaded onto the computer in your lecture room during the break before the start of your session, or on the day before. Should you wish to check your presentations, you may use the computer and projector in the speaker's room. The speaker's room for Monday, Wednesday, Thursday and Friday is Hall 16 on the 4th floor. The speaker's room for Tuesday is Hall 3 on the 2nd floor.

Lockers

Small lockers are available behind the registration area. You need a 2-euro coin as a deposit, and it is returned to you when you unlock the door.

Congress Assistants

Congress assistants and in-house technical staff assist in practical issues in the lecture halls before and during the sessions (e.g. setting up the presentations on the computers and handing microphones for questions).

Internet Connections

The entire building is enabled for Wi-Fi. Visitors from other European universities can log in to Eduroam using their usual procedures. Visitors from elsewhere can obtain a user-id and password from the registration desk. The University does not provide workstations for visitors.

Public Transportation

Helsinki has a good public transportation system. The closest tram stops are on Aleksanterinkatu, just to the south of the conference building.

Transportation to the airport

A taxi to the airport costs 30-40€ and takes about 30 min. Finnair provides an express bus from the City Terminal near the Central Railway Station for about 5€. Helsinki Public Transport HSL bus line 615 from Railway Square takes 35 min to get to the airport, leaves every 15 min and costs about 4€. The railway line from Central to the airport will open in about 2 years.

Abstract book

The abstract book will be published electronically, not on paper. In the first instance it will be accessible by using the "Abstracts" button on the conference website.

Certificate of Attendance

On request, all participants can receive a certificate of attendance from the registration desk.

Currency and Credit Cards

The official currency in Finland is euro (€). Most major credit cards are accepted in the hotels and shops. VISA, Eurocard and MasterCard are accepted at the congress registration desk.

First Aid

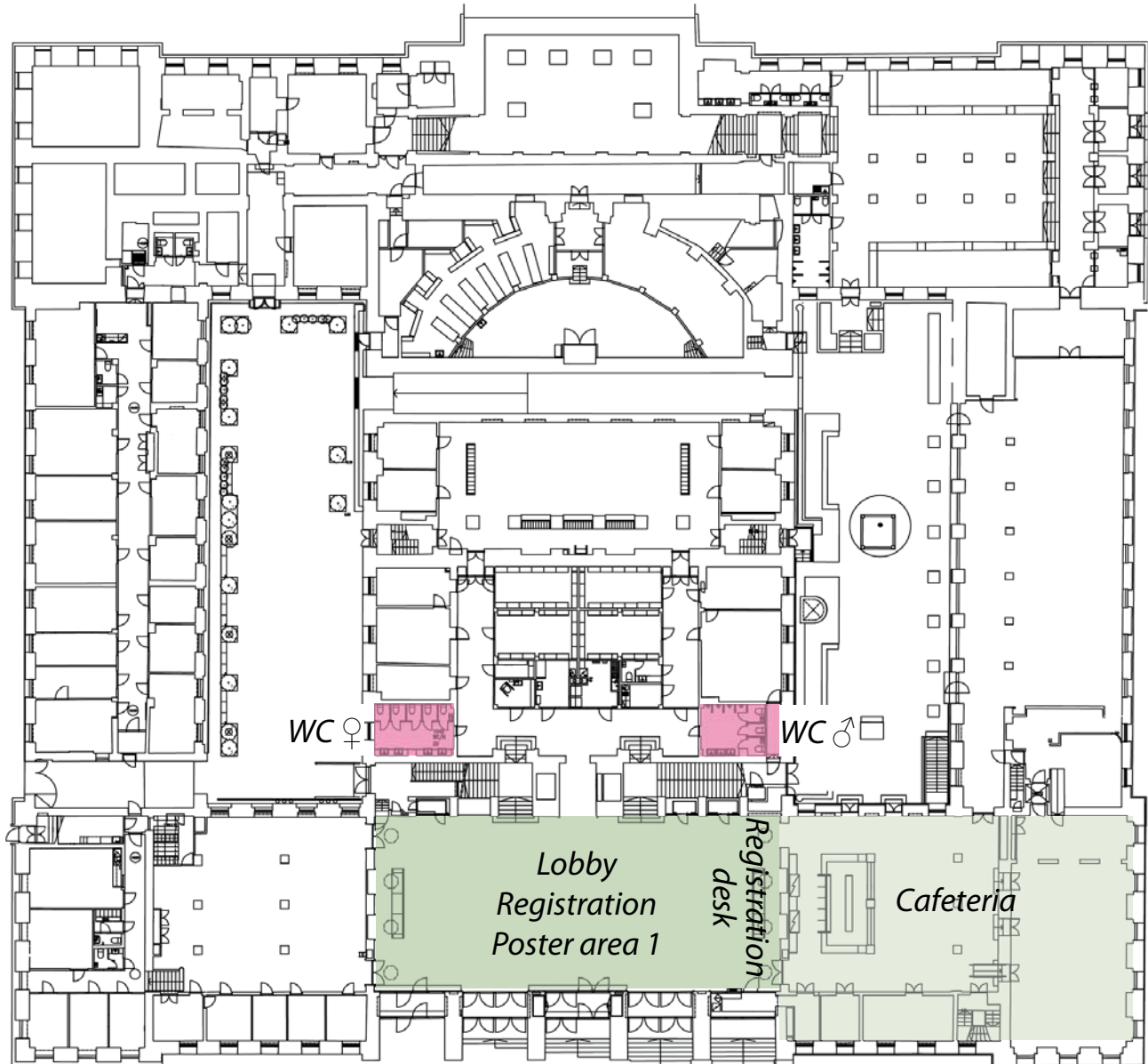
The general emergency phone number is 112. You can call this number free of charge from any phone, including foreign mobile phone connections, without any area code. In genuine emergencies, when someone's life, health or property is in danger, just call 112.

Liability

By registering into the congress and/or by participating in the exhibition joined to the congress, participants agree that neither the organising committee nor the congress secretariat assume any responsibility for damage or injuries to persons or property during the congress. Participants and exhibitors are advised to organise their own health, travel and personal insurances.

FLOOR PLANS

1st floor (ground floor)

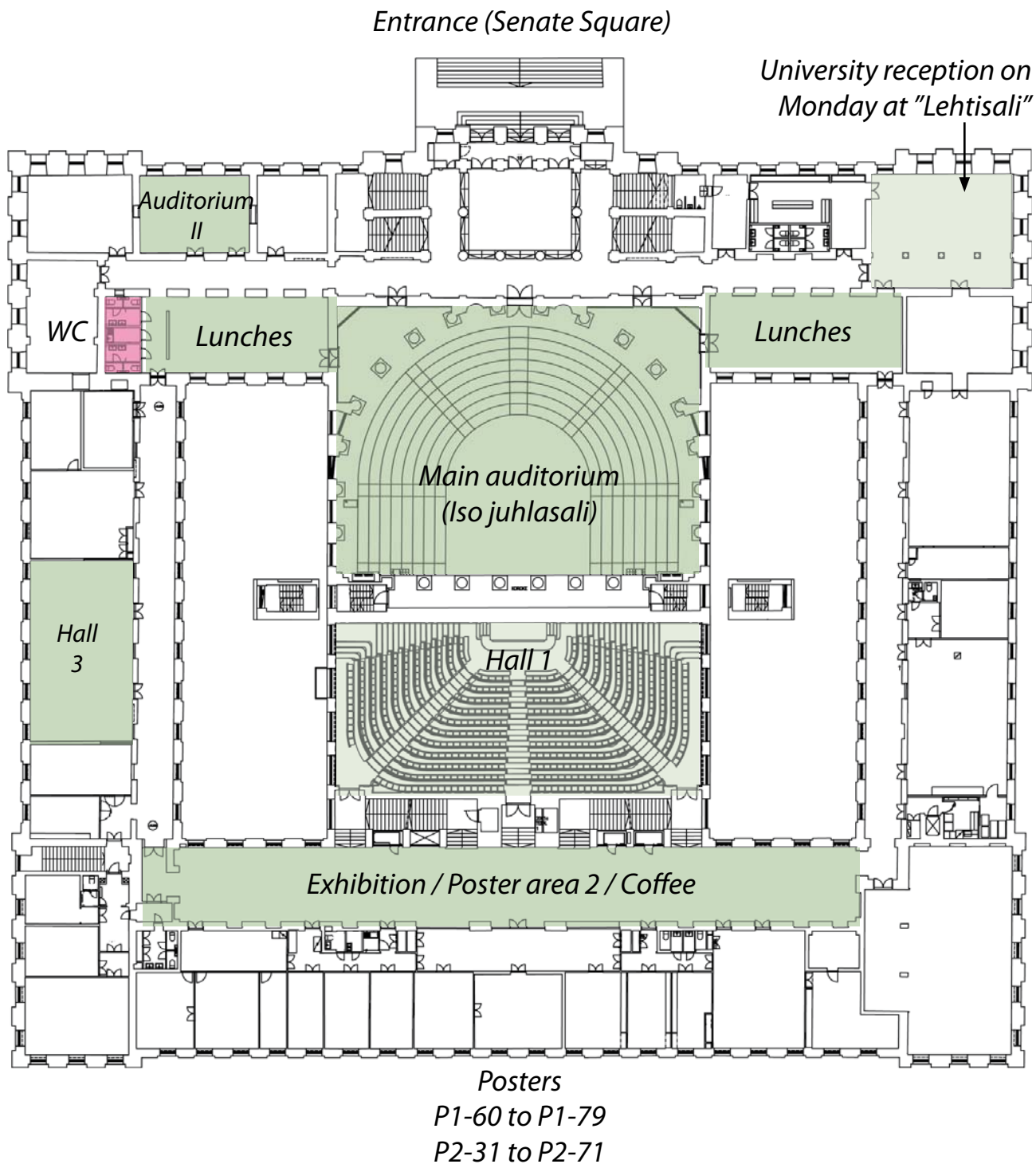


*Entrance
(Fabianinkatu 33)*

*Posters
P1-01 to P1-03
P1-26 to P1-38
P1-80 to P1-97
P2-26 to P2-30
P2-72 to P2-92*

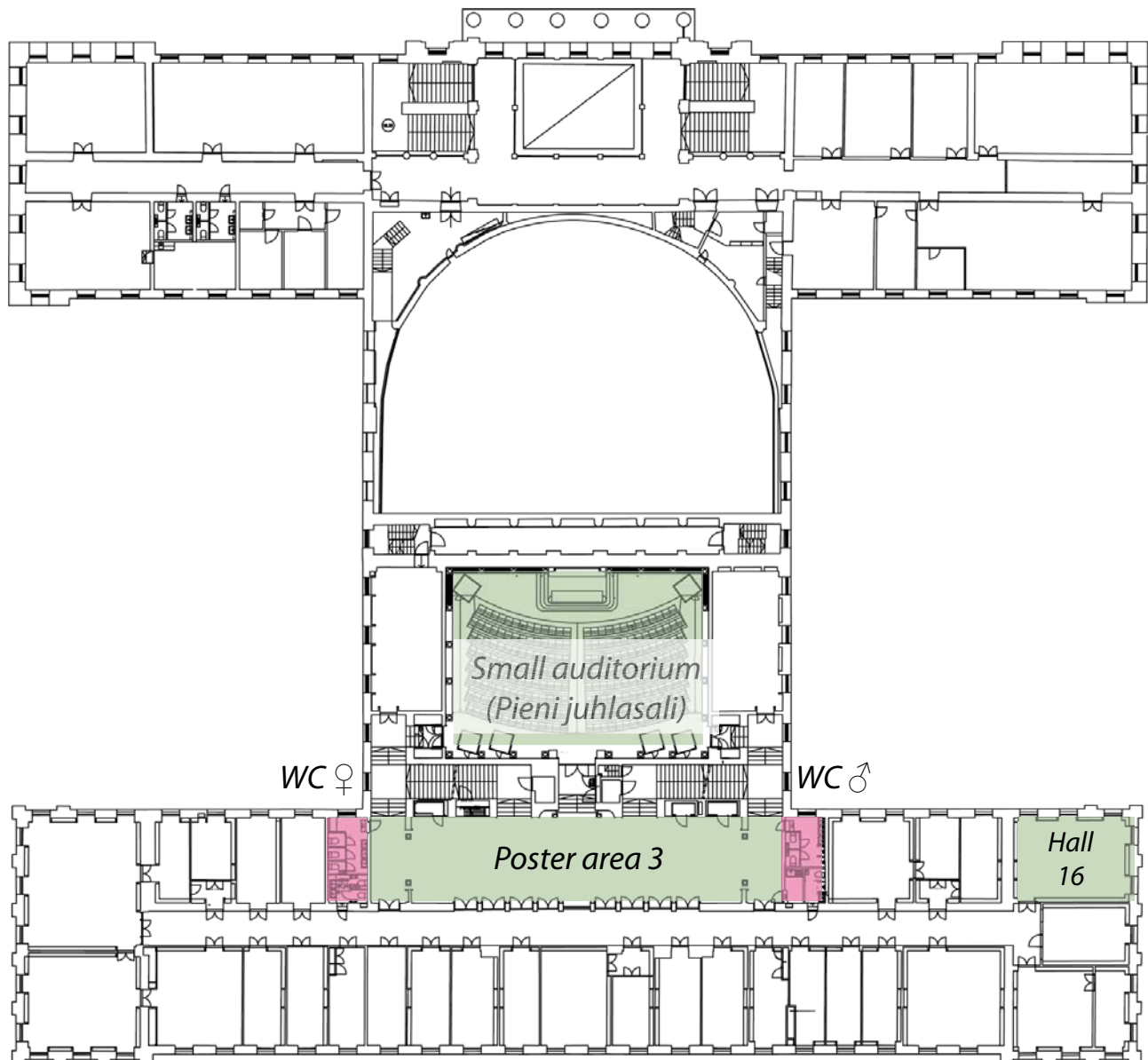
FLOOR PLANS

2nd floor



FLOOR PLANS

4th floor



Posters

P1-07 to P1-25

P1-39 to P1-59

P2-01 to P2-25

SOCIAL PROGRAMME



University reception

Date Monday, 20 August 2012
Time 18:15-20:00
Place Room "Lehtisali", 2nd floor at the University of Helsinki Main Building
Price Included in the registration fee



Helsinki city reception

Date Tuesday, 21 August 2012
Time 18:00-19:30
Place Helsinki City Hall, address: Pohjois-Esplanadi 11-13 (by market square)
Price Included in the registration fee

No transportation will be provided (walking distance from the venue and main hotels).
Please show the invitation card upon entrance.



Conference dinner

Date Thursday, 23 August 2012
Time 19:00-24:00
Place Restaurant Sipuli, address: Kanavaranta 7 (near market square)
Price 60 € (only pre-booked tickets, tickets no longer available onsite)

No transportation will be provided (walking distance from the venue and main hotels).
Please show the dinner ticket upon entrance.

SCIENTIFIC PROGRAMME

Monday 20 August 2012

08:00	Registration (every day)	
10:00	Opening session: Main auditorium (Iso Juhlasali), 2nd floor Welcome: Fred Stoddard, President, ESA	
10:15	Jari Koskinen, Minister of Agriculture & Forestry, Finland	
10:45	Juha Helenius, deputy dean, Faculty of Agriculture & Forestry, University of Helsinki	
11:00	Jarmo Juga, head, Department of Agricultural Sciences, University of Helsinki	
11:15	Discussion document: A proposed declaration from the ESA Congress on the need for crop rotations to be properly recognized in the CAP. Discussion to be continued in the closing plenary.	
11:45	Other conference "housekeeping" business	
12:00	Lunch	
	Crop Modelling Chair: Hartmut Stützel (Germany) Small auditorium (Small auditorium), 4th floor	Soils and soil-plant-(microbe) interactions Chair: Kristina Lindström (Finland) Hall 1, 2nd floor
13:30	Böttcher, Ulf. Parameterisation of a phenological model of winter oilseed rape. 131-1	Keynote: Kirkegaard, John. Soil-plant interactions and Australia's conservation farming revolution: sense, nonsense and roots to success. 132-1K
13:45	Brunel-Muguet, Sophie. Sink strength for S as a major parameter to model vegetative growth in oilseed rape (<i>Brassica napus</i> L.) under contrasting sulfur (S) supplies, 131-2	
14:00	Neukam, Dorothee. A new approach for calculating stomatal resistance of wheat as a step towards dynamic simulation of canopy temperature. 131-3	Bertrand, Michel. WORMDYN : a dynamical model to predict earthworm populations and communities dynamics. 132-3
14:15	Vos, Jan. Explaining the yield advantage of wheat-maize intercropping from plant responses to available space using functional- structural plant modelling. 131-4	Manici, Luisa M. Exploitation of natural resources to increase soil health: BIO-INCROP, a project on organic fruit tree cropping systems. 132-4
14:30	Stella, Tommaso. A new generation of SUCROS-type models: an example for WOFOST and rice simulations. 131-6	Denoroy, Pascal. Change for 16 years of P status along soil profile in a French podzol in relation with different P fertilization under irrigated maize production. 132-5
14:45	Soufizadeh, Saeid. Developing algorithms for modelling the dynamics of N balance in maize in a gene-to-phenotype context. 131-5	Hussain, Qaiser. Methanogen archaeal and methanotroph bacterial communities dynamics in response to rice cultivars and linkage to CH ₄ flux. 132-2
15:00	Coffee	

Monday 20 August 2012 continued

	Crop and systems modelling 1 Chair: Niels Anten (Netherlands) Small auditorium, 4th floor	Yield gap assessment and reduction Chair: John Kirkegaard (Australia) Hall 1, 2nd floor
15:30	Bassu, Simona. Uncertainties in Maize Crop Model Responses to Climate Factors. 141-1	Keynote: Slafer, Gustavo. Matching growth of wheat production and demand: shall we further increase yield potential or close the gap with actual yields? 142-1K
15:45	Maiorano, Andrea. Comparison of modelling approaches to simulate the phenology of agricultural insect pests under future climate scenarios. 141-2	
16:00	Keynote: Donatelli, Marcello. Estimating impact assessment and adaptation strategies under climate scenarios for crops in Europe. 141-3K	Van Wart, Justin. Review of agroecozones for use in yield gap analysis. 142-2
16:15		Hochman, Zvi. Yield Gap Analysis – what is the required spatial and temporal resolution for agronomic relevance? 142-3
16:30	Asseng, Senthold. A comparison of 27 wheat crop models for climate change impact: The AgMIP Wheat pilot study. 141-4	Pampolino, Mirasol. Yield gap reduction using Nutrient Expert recommendations for maize and wheat in Asia. 142-4
16:45	van Bussel, Lenny. Testing extrapolation domains of weather stations for modeling maize yields at continental and global scales. 141-5	Zingore, Shamie. Assessment of nutrient-induced maize yield gaps in smallholder systems in Africa. 142-5
17:00 – 18:00	ESA executive meeting (Hall 16) / Installation of posters in foyers	
18:15 – 20:00	University reception / Vice Rector, Professor Jukka Kola Lehtisali, 2nd floor	

Tuesday 21 August 2012

	Crop and systems modelling 2 Chair: Marcello Donatelli (Italy) Small auditorium, 4th floor	Sustainable bioenergy cropping 1. Chair: Olaf Christen (Germany) Main auditorium, 2nd floor
09:00	Anten, Niels. Why plants are not optimal for maximum production: a game theoretical analysis of plant traits. 211-1	Keynote: Thrän, Daniela. Sustainable bioenergy cropping. 212-1K
09:15	Nendel, Claas. The simulation of winter wheat yields in Thuringia, Germany, using meteorological data with different spatial resolution. 211-2	
09:30	Kupisch, Moritz. Analysis and modeling of spatio-temporal patterns of CO ₂ and H ₂ O fluxes at leaf and canopy scale in crop fields. 211-3	Prade, Thomas. Industrial hemp (<i>Cannabis sativa</i> L.) — a high-yielding energy crop. 212-2
09:45	Fayaud, Benoit. Early growth in intercrops: an experimental and simulation approach for a range of species under different sowing conditions. 211-4	Kenedy Etone, Epie. Intercropping Jerusalem artichoke (<i>Helianthus tuberosus</i> L.) with legumes for energy purpose. 212-3
10:00	Wallach, Daniel. Assessing the uncertainty in model-based evaluation of irrigation strategies. 211-5	Popp, József. The increasing competition for biomass. 212-4
10:15		Gaile, Zinta. Maize hybrids for biogas production in conditions of Latvia. 212-5
10:30	Coffee	
	Crop protection, allelopathy, and pesticide reduction 1 Chair: Heikki Hokkanen (Finland) Small auditorium, 4th floor	Sustainable bioenergy cropping 2 Chair: Hannu Mikkola (Finland) Main auditorium, 2nd floor
11:00	Keynote: Albajes, Ramon. Ecological footprint of agriculture and crop protection: analyzing environmental impacts of crop protection methods within an integrated framework. 221-1K	Christen, Olaf. Crop rotation affect GHG-balances and energy-balances of oilseed rape. 222-1
11:15		Ferchaud, Fabien. Water drainage and nitrate leaching under contrasted biomass crops. 222-2
11:30	Médiène, Safia. Temporary grasslands impact weed abundance and diversity. 221-2	Marrou, Helene. Producing food and electricity in the same system: experimental evidence of agrivoltaic system potential. 222-3
11:45	Doisy, Diana. Grassland canopies limit the replenishment of weed seed bank during seed rain. 221-3	Mastrorilli, Marcello. Sorghum productivity as a consequence of limited and waste water irrigation in Southern Italy. 222-4
12:00	Leclerc, Melen. An epidemiological modelling framework to help agronomists defining crop protection strategies – the risk of <i>R. solani</i> in sugar beet using biofumigation. 221-4	Dufossé, Karine. Effects of the removal of a 20-year old <i>Miscanthus</i> stand on GHG emissions, soil nitrate and carbon stocks. 222-5
12:15	Ruza, Antons. Development of winter wheat root and crown rot depending on soil tillage system and pre-crops. 221-5	Beaudoin, Nicolas. Dynamics of nitrogen uptake and remobilisation in <i>Miscanthus x giganteus</i> using ¹⁵ N-labelled fertilizer tracing. 222-6
	Lunch Foyers: Poster session 1	

Tuesday 21 August 2012 continued

	Crop protection, allelopathy, and pesticide reduction 2 Chair: Sari Peltonen (Finland) Small auditorium, 4th floor	Crop adaptation to high latitudes Chair: Brian Fowler (Canada) Main auditorium, 2nd floor
14:30	Valantin-Morison, Muriel. Sustainability performances of innovative cropping management systems for winter oil seed rape in multi-location trials. 231-1	Keynote: Peltonen-Sainio, Pirjo. Coping with the special features of the extreme northern corner of crop production. 232-1K
14:45	Métral, Raphaël. How to design and experiment new cropping systems with low pesticide inputs for perennial crops : framework development and application to vineyards. 231-2	
15:00	Fortino, Gabriele. Adapting DEXiPM model for <i>ex post</i> assessment of the sustainability of innovative cropping systems. 231-3	Nkurunziza, Libère. Model-based cultivar testing with genotype parameters and weather conditions. 232-2
15:15	Bankina, Biruta. Possibilities of integrated disease management for winter barley in Latvia. 231-5	Fogelberg, Fredrik. Introduction of soya bean (<i>Glycine max</i>) cropping to Sweden. 232-3
15:30	Duchovskiene, Laisvune. Control of the most widely spread cabbage pest in white cabbages. 231-6	Jokela, Venla. Effects of vernalization on freezing tolerance and canopy structure of timothy (<i>Phleum pratense</i> L.). 232-4
15:45	Discussion	Angulo, Carlos. Effects of weather data resolution on crop yield simulations when using different models – A case study in Finland. 232-5
16:00	Coffee	
	Field biodiversity Chair: Muriel Valantin-Morison (France) Small auditorium, 4th floor	Resource use efficiency Chair: Roxana Savin (Spain) Main auditorium, 2nd floor
16:30	Herzog, Felix. Biodiversity indicators for European farms. 241-1	Keynote: Foulkes, M. John. Increasing the efficiency of water and nutrient use of crops by exploitation of novel germplasm, traits and technologies. 242-1K
16:45	Bockstaller, Christian. Assessing the pollination value of field margin flora by means of a predictive indicator. 241-2	
17:00	Keynote: Ekbom, Barbara. How field biodiversity can enhance ecosystem services. 241-3K	Brunel-Muguet, Sophie. Effects of shading on biomass production and N-dynamics in winter oilseed rape (<i>Brassica napus</i> L.). 242-2
17:15		Gislum, Rene. The use of seed and straw N concentration to estimate NUE in perennial ryegrass for seed production – a case study from Denmark and New Zealand. 242-5
17:30	Wolfrum, Sebastian. Cost-efficiency of measuring earthworm diversity in a German case study at farm-scale: lessons for application in monitoring and agricultural practice. 241-4	Discussion
17:45	Lüscher, Gisela. Plant, earthworm, spider and bee diversity in agricultural fields of grazing and field crop farming systems in eight regions across Europe. 241-5	
18:00 – 19:30	Helsinki city reception Pohjoisesplanadi 11-13, one block south of the conference building	

Wednesday 22 August 2012

	Field trips and modelling course
	Free evening / Helsinki Festival

FIELD TRIPS

All depart from Senate Square at 0900 Wednesday 22 August. Don't be late, as Finns expect punctuality! There are soft drinks and light snacks available on the buses and every trip includes lunch. All tickets for trips 1 and 2 have been sold. Tickets for trip 3 may still be bought from the registration desk on Monday.

1. Mixed farming and organic systems, Mikkeli region, South Savo.

First stop is the mixed livestock and arable farm of Jari Leppä near Pertunmaa (<http://www.antinmaentila.fi>.) You will stop for a grand buffet lunch at Tertin Kartano (<http://www.tertinkartano.fi>). Near Juva, you will visit Ali Ronkainen's organic farm (<http://www.hayrila.fi>). The return journey will take a different route through Kouvola. Expected return time around 9 p.m.

2. Visit to Agrifood Research Finland MTT and Boreal Plant Breeding, Jokioinen.

The first stop is Boreal Plant Breeding Ltd (<http://www.boreal.fi/>), who will provide coffee before you are shown around the facilities and the field experiments. Lunch will be in the Ometta restaurant on MTT land. After lunch, the group will visit the field experiments of MTT (<http://portal.mtt.fi>) to see aspects of crop cultivation in Nordic conditions and experiments on crop protection for crop rotation and conservation tillage measures. On the return journey, if time permits, you will stop at a farm in Hyvinkää where nutrient recycling is practiced. Expected return time around 8 p.m.

3. Visit to the University of Helsinki's campus at Viikki.

You will see some of the facilities of the Department of Agricultural Sciences, including experiments on bio-char, allelopathy, rotations, and intercropping. We will go for a walk through the arboretum and natural area on the edge of Viikki Bay. Lunch at Gardenia, (<http://www.gardenia-helsinki.fi/lounaslista.htm>) where there is also a tropical greenhouse. Expected return time 1.30 p.m.

Modelling course

Auditorium II, near the Main auditorium

Thursday 23 August 2012

08:00 – 08:45	The Worldwide “Farming Systems Design” initiative. Chair: Jacques Wéry (France) Main auditorium, 2nd floor		
	Crop stress response 1 Chair: Krystyna Rykaczewska (Poland) Small auditorium, 4th floor	Legume-supported rotations 1. Chair: Donal Murphy-Bokern (Germany) Hall 1, 2nd floor	Farming systems design 1. Chair: Jacques Wéry (France) Main auditorium, 2nd floor
09:00	Benoît, Marc. Global climate changes and local changes in cropping systems: cropping system calendar changes in Lorraine (France) due to climate changes. 411-1	Justes, Eric. Cover crops are worthwhile in grain legume based rotation to valorise the biological N ₂ fixation and concomitantly maintain soil fertility. 412-1	Keynote: Tiftonell, Pablo. Supporting design and co-innovation in farming systems - Actors, agroecological knowledge and landscape functions. 413-1K
09:15	Durand, Jean-Louis. CLIMAGIE: A French INRA project to adapt grasslands to climate change. 411-2	Baddeley, John. Assessing the role of cereal-legume intercrops in low-input rotational cropping systems. 412-2	
09:30	Tokatlidis, Ioannis. Adapting maize crop to climatic changes. 411-3	Keynote: Watson, Christine. Legume-supported crop rotations: A European perspective. 412-3K	Stobart, Ron. Farming systems research; evaluation of current practice and the development of novel approaches within UK systems. 413-2
09:45	Oosterhuis, Derrick. Heat stress-induced limitations to reproductive success in cotton. 411-4		Nesme, Thomas. Phosphorus flows, mineral fertilizer use and agricultural production systems: a regional perspective for France. 413-3
10:00	Khazaei, Hamid. Leaf temperature as a promising tool for evaluating drought adaptation in faba bean (<i>Vicia faba</i> L.). 411-5	Reckling, Moritz. Assessing the economic and agronomic potential of legume-supported crop rotations across Europe using a crop rotation generator. 412-4	Nowak, Benjamin. To what extent does organic farming depend on artificial fertilizers? 413-4
10:15	Discussion	Pelzer, Elise. Combining high yields and margins and low environmental impacts is possible with cereal-legume mixture. 412-5	Colbach, Nathalie. Changing agricultural practices modifies the species and trait composition of the weed flora. A simulation study using a cropping system model. 413-5
10:30	Coffee		

Thursday 23 August 2012 continued

	Crop stress response 2. Chair: José Paulo de Melo e Abreu (Portugal) Small auditorium, 4th floor	Legume-supported rotations 2. Chair: Jaume Lloveras (Spain) Hall 1, 2nd floor	Farming systems design 2. Chair: Pablo Tittone (Netherlands) Main auditorium, 2nd floor
11:00	Keynote: Fowler, D. Brian. Low-temperature stress in cereals: know the land - know your crop. 421-1K	Pappa, Valentini. Nitrous oxide emissions of legume based agricultural systems in Europe. 422-1	Keskitalo, Marjo. Diversification of crop production through crop rotations. 423-1
11:15		Iannetta, Pietro. A nitrogen-budget analysis of legume supported cropping systems from across Europe. 422-4	Xiao, Ying. Modeling the spatial distribution of cropping systems at a large regional scale: a case of crop sequence patterns in France between 1992 and 2003. 423-2
11:30	Pecio, Alicja. Selection of spring barley lines with respect to drought stress resistance. 421-2	Mikic, Aleksandar. Modelling mutual annual legume intercrops for forage production. 422-5	Lopez-Ridaura, Santiago. Participatory design and evaluation of durum wheat - legume intercropping systems in Camargue, South of France. 423-3
11:45	Kettlewell, Peter. Mitigating drought stress in wheat with polymer sprays. 421-3	Cupina, Branko. Field pea companion crop in sainfoin establishment. 422-6	Thiollet-Scholts, Marie. Farming system design explain successful or unsuccessful vineyards, a global method. 423-4
12:00	Siebert, Stefan. Impact of heat stress, drought and wetness on crop yield anomalies in Germany. 421-5	Discussion	Merot, Anne. Up-scaling from field to farm scale: analysis of the conversion pathways to organic farming to support farmers Application to vineyard systems. 423-5
12:15	Mohammady, Shahram. Inheritance of carbon isotope discrimination in wheat (<i>Triticum aestivum</i> L.). 421-4		Perrin, Aurélie. Agronomical analysis of Life-Cycle Impact Assessment (LCIA) variability for different horticultural cropping systems at regional scale. 423-6
12:30	Lunch Foyers: Poster session 2		

Thursday 23 August 2012 continued

	Crop stress response and mitigation. Chair: Mervi Seppänen (Finland) Small auditorium, 4th floor	Cropping systems design. Chair: Evelin Loit (Estonia) Hall 1, 2nd floor	Energy efficiency and environmental impacts of cropping systems 1. Chair: Marc Benoît (France) Main auditorium, 2nd floor
14:30	Bandiera, Marianna. Roots as interface between crops and metal-polluted soils in phytoremediation. 431-1	Bedoussac, Laurent. Is intercropping an efficient solution to design low input systems? 432-1	Keynote: Pointereau, Philippe. Energy efficiency in cropping, including tillage systems. 433-1K
14:45	Bertholdsson, Nils-Ove. Use of leaf fluorescence and hydroponics for screening of waterlogging tolerance in barley. 431-2	Landé, Nathalie. Multi-targeted assessment of reduced tillage cropping systems for the close future in European agriculture. 432-2	
15:00	Schillinger, William. Winter wheat seedling emergence from the world's deepest sowing depths. 431-3	Wery, Jacques. Indicating processes and performances of agrosystems : a framework based on a conceptual model and its use in vineyards fields. 432-3	Topp, Kairsty. An assessment of UK agriculture: energy analysis. 433-2
15:15	Keynote: Villalobos, Francisco. Avenues for improving the productivity of irrigation at different scales. 431-5K	van der Werf, Wopke. Effectiveness of intercropping for plant disease suppression – a meta-analysis. 432-4	Sattari, Sheida. Residual soil phosphorus substantially decreases global P fertilizer requirements. 433-4
15:30		Colnenne-David, Caroline. New cropping systems under environmental constraints: First results of ex post assessment. 432-5	Burchill, William. Nitrous oxide emissions from white clover based grassland used for dairy production under moist maritime climatic conditions. 433-5
15:45	Zavareh, Mohsen. Exogenous applied nitric oxide alleviates salt-induced oxidative stress in rice (<i>Oryza sativa</i> L.). 431-4	Biau, Anna. Effect of residue management and nitrogen fertilization on maize production. 432-6	Vasenev, Ivan. Agroecosystem land quality and services analysis at the Central region of European territory of Russia. 433-3
16:00	Coffee		

Thursday 23 August 2012 continued

	Modelling in changing environments. Chair: Jouko Kleemola Small auditorium, 4th floor	Management of novel crops, including cover/catch-crop systems. Chair: Elizabeth Stockdale (UK) Hall 1, 2nd floor	Energy efficiency and environmental impacts of cropping systems 2. Chair: Felix Herzog (Switzerland) Main auditorium, 2nd floor
16:30	de Melo e Abreu, José Paulo. Predicting olive phenology in Portugal in a warming climate. 441-1	Justes, Eric. Simulation of catch crop efficiency to decrease nitrate leaching under various French pedoclimatic conditions using the STICS soil-crop model. 442-2	Pulkkinen, Hannele. Climate impacts of Finnish crops – a national method to estimate nitrous oxide emissions. 443-1
16:45	Cappelli, Giovanni. Simulation of climate change impacts on rice yield and pre-harvest quality in Latin America. 441-2	Vos, Jan. Challenges in developing tef (<i>Eragrostis tef</i> (Zucc.) Trotter) for temperate climates. 442-3	Fischer, Jenny. On-farm evaluation of nitrogen leaching rates from organic crop rotations under consideration of the previous crop, with special emphasis on legumes. 443-2
17:00	Delmotte, Sylvestre. Transition toward organic agriculture: using an agent-based model to assess with farmers possible trajectories of conversion. 441-3	Florio, Giulia. Production of <i>Arundo donax</i> L. and <i>Miscanthus x giganteus</i> Greef et Deu. to obtain second generation ethanol in two Italian environments. 442-4	Goglio, Pietro. Contribution analysis of reactive Nitrogen to N fertilizer application impacts in two different cropping system managements. 443-3
17:15	Bergez, Jacques-Eric. Record: an integrated platform for agro-ecosystems study. 441-4	Manderscheid, Remy. Free air CO ₂ enrichment effects on canopy development and biomass production of different sorghum-genotypes as compared to maize. 442-5	Kersebaum, Kurt Christian. Model based assessment of agri-environmental measure effects concerning the reduction of nitrogen pollution regarding the Water Framework Directive. 443-4
17:30	Ben Touhami, Haythem. Bayesian calibration of the Pasture Simulation Model (PaSim) to simulate Swiss grasslands under climate extremes. 441-5	Fauquet-Alekhine-Pavlovskaya, Elena. Agronomic test of fenugreek as alternative crop. 442-1	Bienkowski, Jerzy Franciszek. The importance of changes in dietary habits of Poland's inhabitants in reducing greenhouse gas emissions. 443-5
19:00 – 24:00	Conference dinner: Ravintola Sipuli Kanavaranta 7, about 500 m east of the conference building		

Friday 24 August 2012

09:00 – 10:00	ESA general assembly. Main auditorium. Chair: Jacques Wéry (France)	
10:00	Coffee	
	Omics in crop sciences. Chair: John Foulkes (UK) Small auditorium, 4th floor	Farming systems design 3. Chair: Christine Watson (UK) Main auditorium
10:30	Keynote: Tardieu, Francois. Plant Phenotyping, a new field and opportunity for crop scientists. <i>521-1K</i>	Rossing, Walter. Designing research projects for impact on stakeholders: an analysis of the co-innovation approach in EULACIAS. <i>522-1</i>
10:45		Birman, Delphine. Using local knowledge to assess ecological services in complex agricultural system at the landscape level. <i>522-2</i>
11:00	Singh, Jaswinder. Barley genomics with maize Ac/Ds transposons. <i>521-2</i>	Groot, Jeroen. The COMPASS framework – Navigating agricultural landscapes for science-based innovation. <i>522-3</i>
11:15	Uppal, Rajneet. Effect of wheat dwarfing alleles on grain yield and quality. <i>521-4</i>	Mandryk, Maryia. Assessing farmers' objectives: implications for adaptation. <i>522-4</i>
11:30	Al-swedi, Fadil. Micro propagation and genetic transformation in <i>Brassica oleracea</i> var. <i>botrytis</i> . <i>521-5</i>	Debolini, Marta. Factors affecting soil organic matter conservation in Mediterranean hilly cropping systems: a case study on 43 cropping systems in Tuscany (Italy). <i>522-5</i>
11:45		Murphy-Bokern, Donal. The agri-environmental implications of food choices. <i>522-6</i>
12:00	Lunch	
	Closing plenary session: Main auditorium Chair: Fred Stoddard (Finland)	
13:00	Keynote: Keatinge, J.D.H (Dyno). Climate uncertainty: What response is needed from vegetable agronomists worldwide?	
13:30	ESA future activities Division 1: Plant system biology; the cultivated plant in the field. Division 2: Field scale agroecology; the cultivated field as an ecosystem. Division 3: Cropping systems at the farm, regional and global scales; the cropping system in its embedding system Interactions with other groups such as Farming Systems Design	
14:15	Finalizing the proposed declaration from the ESA Congress on the need for crop rotations to be properly recognized in the CAP.	
14:45	Final words from the retiring president. Fred Stoddard. Welcome to the next congress. András Nábradi (Hungary). Farewell	

POSTER SESSIONS

Author	Title	Poster number
Crop adaptation to high latitudes (Poster area 1)		
Asplund, Linnéa	Relationships between grain yield, grain nitrogen concentration and leaf senescence in Swedish spring wheat	P1-01
Biernath, Christian	Modeling crop adaption to atmospheric CO ₂ enrichment based on protein turnover and optional use of mobile nitrogen for growth or photosynthesis	P1-02
Koppel, Reine	The proportion of different factors shaping yield, grain size, and quality of winterwheat in Estonian conditions	P1-03
Crop and systems modelling (Poster area 3)		
Angelopoulos, Nickolas	Modelling Legume Based Rotations	P1-04
Bregaglio, Simone	The Diseases framework: software libraries to simulate a fungal airborne plant disease and its impacts on crop production in climate change scenarios	P1-05
Buono, Vito	Application of CROPWAT model to assess climate change impact on crop evapotranspiration and irrigation requirements in Italy	P1-06
Chatskikh, Dmitri	An online toolset for dynamic geomorphic and agroecosystem modeling analysis across spatial and temporal scales	P1-07
Craheix, Damien	MASC, a model to assess the sustainability of cropping systems: Taking advantage of feedback from first users	P1-08
Debaeke, Philippe	From crop model to decision-support system: developing tools for variety assessment and scenario analysis in sunflower	P1-09
Doltra, Jordi	Modelling forage rotations for increasing resource-use efficiency in dairy farming in Cantabria (North Spain)	P1-10
Donatelli, Marcello	A European weather database of daily weather data derived from climate change scenarios for use with crop simulation models	P1-11
Giovanni, Cabassi	Optimization of the ICBM/2 Soil Organic Matter Simulation Model Using C Respiration Measurements and Near Infrared Data.	P1-12
Gorgoso, J. Javier	Use of Weibull distribution in early first harvest above ground biomass of short-term forage crops in Asturias (N Spain)	P1-13
Hautala, Mikko	C ₃ -crop growth model for precision fertilization	P1-14
Maiorano, Andrea	Potential distribution and phenological development of the Mediterranean Corn Borer (<i>Sesamia nonagrioides</i>) under warming climate in Europe	P1-15
Maiorano, Andrea	MIMYCS, A framework for simulating maize kernels mycotoxin contamination in Europe	P1-16
Maiorano, Andrea	Modelling maize grain moisture content during maturation and post-maturity dry-down	P1-17
Morales, Alejandro	Modelling canopy photosynthesis and radiation use efficiency in olive orchards	P1-18
Qi, Aiming	Genotype-specific vernalization requirements in sugar beet bolting	P1-19
Soldevilla, Maria	Simulating improved combinations tillage-rotation under dryland conditions	P1-20
Stadler, Anja	Improving crop growth simulations by taking into account soil heterogeneity	P1-21
Tarsitano, Davide	Is imported Soya the most sustainable source of proteins in pigs' diet?	P1-22
Topp, Kairsty	Assessment of DNDC ability to N leaching	P1-23
Vignjevic, Marija	Climate change impacts on yield of different spring wheat cultivars: a modelling approach	P1-24
Weymann, Wiebke	Analysis of yield determining weather conditions at certain growth stages for winter oilseed rape	P1-25
Resource use efficiency (Poster area 1)		
Fuccella, Roberto	Preliminary study on the use of NIR spectroscopy to determine nitrogen content in fresh leaves of corn	P1-26
Wyszynski, Zdzislaw	Post hydrothermal stress effects on photosynthetic apparatus efficiency and yield of miscanthus under static fertilizer experiment	P1-27

Author	Title	Poster number
Yield gap assessment and reduction (Poster area 1)		
Abd El-Ghany, Hatem	Evaluation of Some Exotic Durum Wheat Genotypes in Egypt 2. Correlation and path coefficient analysis of grain yield related to yield components	P1-28
Abd El-Ghany, Hatem	Effect of certain macronutrients foliar application on growth, yield and chemical components of grains for two bread wheat varieties in sandy soil	P1-29
Debaeke, Philippe	A model-based evaluation of the representativeness of multi-environment trials used for sunflower variety assessment in France	P1-30
Dem, Cha	Comparing contrasted biomass crops cultivated under different cropping managements	P1-31
Eremeev, Viacheslav	Effect of tuber pre-planting treatments and humic preparation on tuber yield and quality	p1-32
Ferrante, Ariel	Responsiveness of the number of fertile florets and grain setting to nitrogen in contrasting modern durum wheat cultivars	P1-33
Greveniotis, Vasileios	Overcoming yield barriers in maize through two novel selection equations: I. recombination of genes within a hybrid	P1-34
Oleksiak, Tadeusz	Yield increase and the gap between actual and potential yield of cereals in Poland	P1-35
Sedaghat, Mojde	Effect of N-fertilizer rates and timing on grain yield, components and quality of sunflower	P1-36
Tzantarmas, Constantinos	Overcoming yield barriers in maize through two novel selection equations: II. recombination of genes across hybrids	P1-38
Crop protection, allelopathy and pesticide reduction (Poster area 3)		
Battaglia, Donatella	Combined effect of water stress and Macrosiphum euphorbiae infestation on plant growth in tomato	P1-39
Bingham, Ian J	Effects of rhynchosporium leaf blotch on leaf physiology beyond the visible lesion	P1-40
Deihimfard, Reza	Evaluating the environmental impact of insecticides in cropping systems using CHEMS model	P1-41
Delbac, Lionel	New indicators for multi pests and diseases assessment in Conventional, Organic and "in-Transition" vineyard systems.	P1-42
Feledyn-Szewczyk, Beata	The morphological features, weed infestation and yielding of selected winter rye varieties in organic farming system	P1-44
Félix, Irène	Winter wheat cultivars and crop management systems : eight years of field experiment with integrated crop management.	P1-45
Fortino, Gabriele	Using DEXiPM model to analyse performances of innovative cropping systems tested in multilocal trials	P1-46
Loddo, Donato	Effects of chilling duration on seedling emergence of green foxtail, johnsongrass and velvetleaf: first year results	P1-47
Masin, Roberta	Estimation of temperature thresholds of three weed species in maize in central-northern Italy	P1-48
Médiène, Safia	Seed bank analysis in crop rotations with temporary grasslands	P1-49
Meijer, Johan	Improving stress tolerance of plants using beneficial bacteria	P1-50
Okereke, Victor	Effect of UK wheat cultivar, inoculation timing and anther extension on Fusarium head blight severity, DON concentration and yield under heat stress	P1-51
Priekule, Ilze	Development of winter wheat leaf diseases depending on soil tillage system and pre-crops	P1-52
Santín-Montanyá, M. Inés	Effect of tillage systems on weed community present in a winter cereal field from 1995 and fifteen years later	P1-53
Sarunaite, Lina	Intercropping of pea and cereal - alternative method for weed control in an organic agriculture	P1-54
Semaskiene, Roma	New tasks in crop protection in Lithuania	P1-55
Sooväli, Pille	Spring wheat disease and yield responses to nitrogen fertilization and chemical treatment	P1-56
Tokatlidis, Ioannis	Seed propagation at very low density is effective in reducing the load of seed-borne viruses in lentil	P1-57
Vanaga, Ineta	Determination of the dominant weed species in maize during past 10 years in Latvia	P1-58
Winkler, Jan	Impact of different soil treatment and straw farming on weeds in long term spring barley monoculture	P1-59
Field biodiversity (Poster area 2)		
Feledyn-Szewczyk, Beata	Biodiversity of weed flora, morphological features and yielding of Miscanthus ssp. cultivated on light and heavy soil	P1-60
Moreno, Gerardo	Importance of seminatural habitats for biodiversity of organic olive groves in CW Spain	P1-61
Shapkina, Yulia	Ecological aspects of biodiversity of harmful organisms in crops of a white lupine	P1-62
Straus, Sasa	Weed species diversity of vegetable production under different production systems	P1-63

Author	Title	Poster number
Soils and soil-plant-(microbe) interactions (Poster area 2)		
Bingham, Ian J	Can N uptake efficiency of spring barley be predicted from seedling root traits?	P1-64
Ebrahimi, Nashmin	The effect of the selenium soil application on selenium accumulation and yield of oilseed rape (<i>Brassica napus</i> L.) and wheat (<i>Triticum aestivum</i> L.)	P1-65
Egilmez, Petra	Heavy metal stress responses in white lupin and fibre hemp grown on soils polluted with chromium, copper and arsenic	P1-66
Fustec, Joëlle	Do endogenous earthworms enhance N transfer in cereal legume intercrops	P1-67
Gucci, Riccardo	Soil management effects on soil properties and yield components of an irrigated olive orchard	P1-68
Gucci, Riccardo	Soil management affects seasonal soil respiration rates in a high density olive orchard	P1-69
Manici, Luisa M.	Plant microbe interaction to increase microbial diversity in permanent crops	P1-70
Motta, Silvia Renata	Soil Biological fertility: effect of two manure systems in two forage crop rotation under two mineral nitrogen inputs.	P1-71
Pappa, Valentini	Nitrous oxide emissions and microbial communities in the rhizosphere of combinable pea cultivars	P1-73
Sardi, Katalin	A SHORT-TERM STUDY ON THE INFLUENCES OF FERTILIZER SOURCES ON SOILS	P1-74
Tortorella, Demetrio	Soil quality indicators in intercropped legume/barley systems in a Mediterranean area	P1-75
van Capelle, Christine	Impact of different tillage systems on the functional diversity of soil biota	P1-76
Wolfarth, Friederike	Interaction between soil micro- and mesofauna regarding mycotoxin degradation in wheat straw as a function of soil texture	P1-77
Zayed, Omar	Inoculation with metal resistant <i>Rhizobium</i> (SHR) increase the growth and metal accumulation in Egyptian clover in soil irrigated with sewage water	P1-78
Zou, Ling	Assessment of soil fungal communities in barley-turnip rape cropping systems via LH (Length Heterogeneity) PCR	P1-79
Sustainable bioenergy cropping (Poster area 1)		
Adamovics, Aleksandrs	Reed canary grass (<i>Phalaris arundinacea</i> L.) combustion capacity assessment	P1-80
Adamovics, Aleksandrs	Productivity and yield quality of local hemp 'Purini'	P1-81
Adamovics, Aleksandrs	Productivity and tensile endurance determine of hemp fiber	P1-82
Capecchi, Lorenzo	Apparent nitrogen efficiency in 10-year old stands of perennial biomass crops in Northern Italy	P1-83
Demay, Charlotte	Comparing contrasted biomass crops cultivated under different cropping managements	P1-84
Dragoni, Federico	Effects of harvest time and frequency on giant reed productivity under different soil conditions	P1-85
Harsanyi, Endre	Effects of crop production factors on bio-ethanol production of maize in the polyfactorial long-term experiment.	P1-86
Kadziulienė, Zydre	Biomass accumulation of alternative crops for bioenergy in Northern climate	P1-87
Nassi o Di Nasso, Nicoletta	Identifying the yield potential of giant reed (<i>Arundo donax</i> L): an assessment of biomass productivity and nutrient uptakes in stands of different ages	P1-88
Nykänen, Arja	Biogas and fertilisation from clover leys	P1-89
Pelzer, Elise	Intercropping lignocellulosic crops with legumes to produce biomass for bioenergy	P1-90
Plataée, Rasma	Reed canary grass (<i>Phalaris arundinacea</i> L.) combustion capacity assessment	P1-91
Roncucci, Neri	Cultivation of <i>Miscanthus</i> in Mediterranean environment: preliminary results on productivity and soil CO ₂ emissions under different crop management	P1-92
Seleiman, Mahmoud F.	Biomass and leaf nitrogen content of maize grown with sludge	P1-93
Tilvikiene, Vita	The biomass potential of perennial energy grasses	P1-94
Vitte, Guillaume	Root distribution and water uptake of contrasted biomass crops in a deep loamy soil	P1-95
Zatta, Alessandro	Effect of biomass-ash amendments and nitrogen fertilization on above- and belowground biomass production of switchgrass, a promising energy crop	P1-96
Zegada-Lizarazu, Walter	Response of three commercial biomass sorghum hybrids to cold stress in northern Italy	P1-97

Author	Title	Poster number
Crop stress response (Poster area 3)		
Antonio Ordoñez, Raziel	Grain weight determination in contrasting hybrids of Maize	P2-01
Baux, Alice	Genotypic and environmental effects on cereal crops and oilseed rape fatty acid profile	P2-03
Carney, John	Utilising escape mechanisms to maintain yields threatened by heat stress events caused by a changing climate	P2-04
Dramalis, Christos	Agronomic response of rice varieties to salinity	P2-05
Dramalis, Christos	Smart-Paddy: Smart on-line water salinity measurement network to manage and protect rice fields	P2-06
Dramalis, Christos	Rapid screening test of 109 rice genotypes belonging into the European Core Collections	P2-07
El Habbasha, El Sayed	Productivity of Wheat Crop as Affected by Complete Foliar Fertilizer Compounds under Water Stress Conditions	P2-08
García-Tejera, Omar	Phenological characterization of sunflower genotypes for winter planting	P2-09
Gorgoso, J. Javier	Agromorphological characterization and production in red clover (<i>Trifolium pratense</i> L.) accessions collected in the Cantabrian Mountains (N Spain)	P2-10
Graß, Rikard	Canopy temperature as a tool for the selection on drought tolerance in rye	P2-11
Heidari, Mostafa	Photosynthetic pigments, proline and carbohydrate content of marigold (<i>Tagetes patula</i> L.) under salinity stress	P2-12
López-Bernal, Álvaro	Using the compensated heat pulse method to monitor the stem water content in standing trees	P2-13
Motzo, Rosella	The relevance of stomatal conductance for water and radiation use efficiency of durum wheat and triticale in a Mediterranean environment	P2-14
Nadi, Mohammad Reza	Aridity index and cereal yields in Hamadan province of Iran	P2-15
Pakarinen, Kirsi	Effect of the Mother Tiller Type in the First Cut on the Leaf Appearance of Regrowth Tillers in Timothy	P2-16
Poma, Ignazio	Wheat (<i>Triticum aestivum</i> L.) yield stability and reliability in the Mediterranean semi arid environment	P2-17
Poma, Ignazio	Comparative study of genotype-environment interaction of oat and triticale varieties in southern Italy	P2-18
Poma, Ignazio	Evaluation of vetch (<i>Vicia sativa</i> L.) genotypes in semi-arid environment of Italy	P2-19
Razouk, Rachid	Rainfed olive response to supplemental irrigation applied at different periods of fruit growth	P2-20
Rykaczewska, Krystyna	Tolerance of selected potato cultivars to high temperature during the growing season	P2-21
Sifola, Maria Isabella	Yield response of tobacco (<i>Nicotiana tabacum</i> L.) grown for oil production in Mediterranean area	P2-22
Soufizadeh, Saeid	Evaluation of yield, agronomic traits and their relationships in autumn planting of spring oilseed rape (<i>Brassica napus</i> L.) cultivars	P2-23
Tavakkol Afshari, Reza	The relationships among the vernalization response, carbohydrate accumulation, developmental stages and frost tolerance in bread wheat cultivars	P2-24
Ventrella, Domenico	Effects of climate change on soil fertility of a typical cropping system of Southern Italy	P2-25
Omics in crop sciences (Poster area 1)		
Al shamari, Magda	Regeneration of cauliflower (<i>Brassica oleracea</i> var. botrytis) via somatic embryogenesis	P2-26
Flagella, Zina	Comparison of durum wheat varieties in relation to antioxidant activity of whole meal, semolina and pasta	P2-27
Flagella, Zina	Antioxidant activity of free versus bound compounds in seeds of different cereal species	P2-28
Flagella, Zina	Effect of water stress on storage protein composition of two durum wheat varieties evaluated by a proteomic approach	P2-29
Maroufi, Asad	Inulin improvement in chicory root (<i>Cichorium intybus</i>) by reducing the expression of fructan 1-exohydrolase gene	P2-30

Author	Title	Poster number
Legume-supported rotations (Poster area 2)		
Cass, Susannah	Studying Biodiversity in Legume-supported Cropping: a Meta-analysis across European study sites in the Legume Futures network.	P2-31
Döring, Thomas	Productivity effects of increased plant diversity in fertility building leys depend on soil organic matter levels	P2-32
Iannetta, Pietro	Modelling the utility of legumes: increasing the sustainability of arable yield and reducing the dependence on inorganic nitrogenous fertilisers.	P2-33
Kontopoulou, Charis-Konstantina	Impact of farming practices (organic vs. conventional system) and salinity on a common bean crop (<i>Phaseolus vulgaris</i> L.) grown in Mediterranean	P2-34
Kaul, Hans-Peter	Yield advantages and competition in intercropping of oil seed rape with pea and cereals in a pot experiment	P2-35
Lizarazo Torres, Clara Isabel	Phosphorus efficiency in faba bean and narrow-leaved lupin.	P2-36
Metay, Aurélie	Chickpea yield and biological nitrogen fixation in a Mediterranean agroforestry system as influenced by tree rows orientation	P2-37
Pappa, Valentini Agathi	Nitrous oxide emissions of legume based agricultural systems in Europe	P2-38
Pristeri, Aurelio	Intercropping grain legume/cereal for ecologically intensifying the winter cereal cropping system	P2-39
Saastamoinen, Marketta	The chemical quality of some legumes, peas, faba beans, blue and white lupins and soybeans cultivated in Finland	P2-40
Stalenga, Jaroslaw	Nitrogen management in different crop production system evaluated by NDICEA model	P2-41
Tsygutkin, Alexander	Agroecological and economic problems of white lupine production in Belgorod region of Russia	P2-42
Tyutyunov, Alexander	Agroecological and biological cultivation characteristics of white lupine of a variety Deter 1	P2-43
Tyutyunov, Sergey	Agroecological and economic problems of white lupine production in Belgorod region of Russia	P2-44
Umarov, Bakhtiyor	Using the nitrogen fixation microorganism and phosphate mobilizing fungus for the preparation of the compost for the fertilizer of agricultural plants	P2-45
Valantin-Morison, Muriel	Crop growth and nitrogen utilisation of a Mixture of Winter oilseed rape (<i>Brassica napus</i> -WOSR) and legume in multi-local trials	P2-46
Management of novel crops, including cover and catch crops (Poster area 2)		
Adamovics, Aleksandrs	Indices of Photosynthesis of x <i>Festulolium</i> and <i>Lolium</i> x <i>Boucheanum</i> Sward	P2-47
Angelini, Luciana	<i>Stevia rebaudiana</i> Bertoni as a novel crop: optimization of nitrogen fertilisation	P2-48
Angelini, Luciana G.	Management of a novel crop: effects of nitrogen on indigo precursors and leaf yield in <i>Isatis tinctoria</i>	P2-49
Florio, Giulia	Water consumption, biomass production and N uptake of species for phytoremediation and second generation ethanol.	P2-50
Müller, Anna-Lena	Agroecological assessment of the cup plant (<i>Silphium perfoliatum</i> L.) as a biomass crop of the future	P2-52
Trojak-Goluch, Anna	Agronomic performance of <i>Humulus lupulus</i> L. tetraploid plants	P2-53
Cropping systems design (Poster area 2)		
Daoui, Khalid	Effects of olive tree shading and nearness on faba bean (<i>Vicia faba</i> L.) productivity	P2-55
Döring, Thomas	Relationships between crop height, yield and lodging in organic oats	P2-56
Gronle, Annkathrin	Level and causes of weed control in organic pea cultivation via intercropping under varying ploughing depths	P2-57
Jacobs, Anna	Interaction of pre-crop effects and nitrogen fertilization in sugar beet production	P2-58
Lee, Byung-mo	The First Step of No-till Organic Corn Production in Korea	P2-59
Martín-Lammerding, Diana	Long term effect of tillage practices and crop rotation on soil carbon storage under semiarid conditions	P2-60
Neugschwandtner, Reinhard	Wheat-pea intercrops – Effects of mixing ratio and sowing date	P2-61

Author	Title	Poster number
Neugschwandtner, Reinhard	Oats-pea intercrops – Effects of mixing ratio and N fertilization	P2-62
Pakarinen, Kirsi	Development and Validation of Practical Methods for the Determination of Dry Matter Yield in Grass Silage Swards	P2-63
Piechota, Tomasz	Response of some root crops to one operation strip tillage and in row liquid swine manure soil injection	P2-64
Poma, Ignazio	Evaluation of nitrogen efficiency indexes in cereals crop production in Mediterranean agro-ecosystems.	P2-65
Prochazka, Jaromir	Impact of soil tillage and catch crops on maize yields	P2-66
Prochazkova, Blanka	Effect of different intensity of soil tillage on winter wheat yields	P2-67
Ragolini, Giorgio	Rice suitability to drip irrigation in Northern Italy	P2-68
Reinsdorf, Eric	Are winter hardiness and water distribution in crown tissue of sugar beet (<i>Beta vulgaris</i> L.) dependent on maximum beet diameter?	P2-69
Tuulos, Antti	Winter Turnip Rape as a Nitrogen Catch Crop in High-leaching Environment	P2-70
Wyszyński, Zdzisław	Intercanopy variability of soil parameters and grain yield of winter triticale on production plantations	P2-71
Energy efficiency and environmental impacts of cropping systems (Poster area 1)		
Bondeau, Alberte	Multi-functionality of the biodiverse Mediterranean agroecosystems.	P2-72
Cardinali, Alessandra	Soil quality parameters in vegetated buffer strips and their association with herbicide losses	P2-74
Carozzi, Marco	How far should two ammonia sources be in order to neglect their interference?	P2-75
Ferrara, Rossana Monica	Agronomic techniques to reduce NH ₃ emissions from slurry spreading	P2-76
Hadjout, Nacera	The elaboration of a balance sheet hydrogeologique of the tablecloth CÔTIÈRE of the plain of the GHARB	P2-77
Herzon, Iryna	Sowing environmental fallows: challenges and opportunities	P2-78
Lemola, Riitta	Nitrogen leaching losses from organic and conventional crop rotations	P2-79
Motta, Silvia Renata	Long term effect of two maize cropping systems on soil carbon immobilization in Po valley environment	P2-81
Pacholski, Andreas	Crop specific ammonia emissions: model based scenario analysis of ammonia losses after application of biogas residues	P2-82
Seidel, Achim	Ammonia emissions after application of biogas digestates: effects of soil, crop and weather conditions in 5 different regions of Germany	P2-83
Sombrero, Aurora	Ten years study of conservation tillage and crop rotations in Mediterranean dryland: Changes in soil Carbon and Nitrogen	P2-84
Straus, Sasa	Ecological footprint of different production systems	P2-85
Ványiné Széles, Adrienn	The role of environmental factors and sowing date in the yield and quality of maize hybrids	P2-86
Sombrero, Aurora	Tillage and rotation effects on crop energy balance in a semi-arid area of Castile-Leon, Spain	P2-93
Farming systems design (Poster area 1)		
Albertazzi, Sergio	Identification of main crop rotations in different Italian environments from RICA farm database	P2-87
Choi, Hyun-Sug	Effect of Crop Rotation on Yield and Nutrient Balance in Organic Pepper and Green Onions	P2-88
Daoui, Khalid	Olive tree and annual crops association's productivities under Moroccan conditions	P2-89
Döring, Thomas	OSCAR – a new European project on cover crops	P2-90
Schaller, Noémie	Why and how farmers delineate their plots on farming territories? A modelling approach	P2-91
Vitali, Giuliano	Evaluating impact of organic agriculture in GHG emissions at a national level: analysis framework	P2-92

AUTHOR INDEX

Abd El-Fattah, El-Zanaty	P1-78
Acutis, Marco	P2-75, P2-76
Adamovics, Aleksandrs	P1-80, P1-81, P1-82, P1-91, P2-47
Afif, Elias	P1-13, P2-10
Agacka, Monika	P2-53
Ahmadi, N.	P2-07
Ahmed, Lina	411-2
Akbari, Toktam	P2-12
Al-Shamari, Magda	521-5, P2-26
Al-swedi, Fadil	521-5, P2-26
Alaru, Maarika	P1-32
Albajes, Ramon	221-1K
Albarran, M ^a del Mar	P2-60
Albergo, Roberto	442-4
Albertazzi, Sergio	P2-87, P2-92
Alberto, Puggioni	P2-68
Aliau, C.	P2-06
Allard, V	242-1K
Alma, Valiuskaite	231-6
Amein, Tahsein	P1-50
Amiaud, Bernard	241-2
An, Nan-Hee	P2-59
Angelini, Luciana G.	P1-88, P2-48, P2-49
Angelopoulos, Nickolas	P1-04
Angevin, Frédérique	231-3, P1-08, P1-46
Angulo, Carlos	232-5
Antanasovic, Svetlana	422-5, 422-6
Anten, Niels	211-1
Antonio Ordoñez, Raziël	P2-01
Arndorfer, Michaela	241-1, 241-5
Asadi-Sanam, Samaneh	431-4
Asari, Shashidar	P1-50
Asplund, Linnéa	P1-01
Asseng, Senthold	141-4
Aubry, Christine	P2-91
Augustin, Jürgen	P2-83
Avice, Jean Christophe	131-2
Baab, G.	132-4
Bachinger, Johann	412-4
Baddeley, John	412-2, P2-32
Bailey, Debra	241-1
Balács, Katalin	241-1
Balazs, K.	241-5
Baldoni, Guido	P2-87, P2-92
Balodis, Oskars	231-5
Bana, Anil	142-4
Bandiera, Marianna	431-1
Bankina, Biruta	221-5, 231-5, P1-52
Barba, Nuno W. G.	441-1
Barbanti, Lorenzo	P1-83
Barbet-Massin, Claire	P1-30
Barbi, F.	P2-06
Baresel, Peter	P2-90
Barkaoui, Karim	411-2
Barkusky, Dietmar	443-4
Baron, Christian	141-1
Barra, Vincent	441-5
Barre, Philippe	411-2
Barros, Flávio	441-1
Bartusevics, Janis	212-5
Baruth, Bettina	P1-11
Basci, F.	P2-06
Basset-Mens, Claudine	423-6
Basso, Bruno	141-1
Bassu, Simona	141-1
Bataillé, Marie Paule	242-2

Battaglia, Donatella	P1-39
Baudry, Jacques	522-2
Baux, Alice	P2-03
Bavec, Franc	P1-63, P2-85
Bavec, Martina	P1-63, P2-85
Bazot, Mathieu	412-5, P1-90
Bazzani, Guido	P2-92
Beauclair, Patrick	242-2
Beaudoin, Nicolas	222-6
Bebeli, Penelope	P1-34
Bechini, Luca	P1-12
Bedoussac, Laurent	432-1
Begas, S.	P2-06
Begg, Graham	422-4
Bejai, Sarosh	P1-50
Bellocchi, Gianni	441-5
Ben Touhami, Haythem	441-5
Bendidi, Abderazak	P2-55, P2-89
Benoît, Marc	411-1, 423-2
Berder, Julie	231-1, P1-46, P2-46
Bergez, Jacques-Eric	211-5, 441-4, P1-08
Bergkvist, Göran	P1-01
Bernhardt, K. G.	241-5
Bertholdsson, Nils-Ove	431-2
Bertrand, Michel	132-3
Biau, Anna	432-6
Bienkowski, Jerzy Franciszek	443-5
Biernath, Christian	141-1, P1-02
Bilalis, Dimitrios	P2-34
Bimsteine, Gunita	221-5, P1-52
Birman, Delphine	522-2
Bissett, Andrew	132-1K
Bittner, Sebastian	P1-02
Bobinas, Ceslovas	231-6
Bockstaller, Christian	241-2, P1-08
Boehm, Herwart	443-2
Boelt, Birte	242-5
Boettcher, Ulf	131-3
Bogard, M	242-1K
Bogers, M.	241-5
Bonari, Enrico	522-5, P1-85, P1-88, P1-92
Bondeau, Alberte	P2-72
Bongcam-Rudloff, Erik	P1-50
Bono, Giuseppe	P2-19, P2-65
Boogaard, Hendrik	141-1
Boote, Ken J.	141-1
Borin, Maurizio	442-4, P2-50
Borrelli, Lamberto	P1-26, P1-71, P2-81
Bosco, Simona	P1-92
Boussard, Hugues	P2-91
Bouwman, Alexander	433-4
Bregaglio, Simone	131-6, 141-2, 441-2, P1-05
Brenna, Stefano	P2-76
Brun, François	211-5
Brunel-Muguët, Sophie	131-2, 242-2
Brunotte, Joachim	P1-76
Buchmann, Nina	441-5
Bunce, R. G. H.	241-5
Bunzel, Katja	212-1K
Buono, Vito	P1-06
Burchill, William	433-5
Butier, Arnaud	P2-46
Büttner, Mirko	222-1
Böhm, Herwart	P2-57
Böttcher, Ulf	131-1, P1-25, P2-11
Cabassi, Giovanni	P1-12, P1-26, P1-71, P2-81
Cadoux, Stéphane	P1-84

Campi, Pasquale	222-4
Canavari, Maurizio	P2-87, P2-92
Canet, R.	132-4
Cannavacciuolo, Mario	P1-67
Cano, M.	P2-06
Capecchi, Lorenzo	P1-83
Cappelli, Giovanni	441-2
Caputo, F.	P1-70
Cardillo, Concetta	P2-87, P2-92
Cardinali, Alessandra	P2-74
Cardoso, Rita M	441-1
Carletti, Paolo	P2-74
Carney, John	P2-04
Carozzi, Marco	P2-75, P2-76
Caruso, Giovanni	P1-68, P1-69
Casadebaig, Pierre	P1-09
Casebow, Richard	521-4
Cass, Susannah	P2-31
Cassagne, Nathalie	P1-67
Cassman, Kenneth	141-5, 142-2
Castellazzi, Marie	P2-91
Castellini, Mirko	P2-25
Catterou, Manuella	222-6
Cavalli, Daniele	P1-12, P1-26
Centonze, Diego	P2-29
Cestone, Benedetta	P2-49
Chabbi, Abad	411-2
Champclou, David	432-1
Champolivier, Luc	P1-09
Charfeddine, Monia	P2-25
Charrier, Xavier	221-2, P1-49
Chatskikh, Dmitri	P1-07
Chatzivassiliou, Elisavet	P1-57
Chauvel, Bruno	241-2
Chergaoui, Abdelaziz	P2-89
Chirinda, Ngonidzashe	P1-04
Chiurugwi, Tinashe	P1-19
Cho, Jung-Lai	P2-59
Choi, Hyun-Sug	P2-88
Choisin, J.-P.	241-5
Christen, Olaf	222-1
Chynoweth, Richard	242-5
Cirelli, Giuseppe Luigi	442-4
Claessens, Lieven	141-5
Clouvel, Pascal	522-2
Colbach, Nathalie	221-3, 413-5
Coll, Patrice	432-3
Collins, Rosemary	P2-32
Colenne-David, Caroline	432-5, 443-3
Colomb, Bruno	P1-08
Combes, Didier	411-2
Confalonieri, Roberto	131-6, 441-2, P1-05
Conijn, Sjaak	141-1
Constantin, Julie	442-2
Corbeels, Marc	141-1
Cordeiro, António M	441-1
Corre-Hellou, Guénaëlle	211-4
Coste, Françoise	211-4
Courtois, B.	P2-07
Craheix, Damien	P1-08
Crowley, Oliver	P2-32
Cruz, Pablo	411-2
Cupina, Branko	422-5, 422-6
Cuttle, Steve	P2-32
Dabkevicius, Zenonas	P1-87, P1-94
Dabrowicz, Radoslaw	443-5
Dach, Jacek	P2-64
Daoui, Khalid	P2-20, P2-55, P2-89
Dauber, Jens	P2-52
David, Christophe	413-4
De Marco, Alexandra	522-6
De Maria, Susanna	P1-39
de Melo e Abreu, José Paulo	441-1

De Oliveira, Tatiana	132-3
De Sanctis, Giacomo	141-1
Debaeke, Philippe	P1-09, P1-30
Debolini, Marta	522-5
Decau, Marie-Laure	411-2
Decock, Simon	P1-49
Degano, Luigi	P1-12, P1-26, P1-71, P2-81
Deihimfard, Reza	P1-41, P2-23
Delbac, Lionel	432-3, P1-42
Della Chiara, Marco	P2-87, P2-92
Delmotte, Sylvestre	441-3
Demay, Charlotte	P1-84
Dennis, Peter	241-1, 241-5
Denoroy, Pascal	132-5
Deryng, Delphine	141-1
DeSilva, J	242-1K
Deumlich, Detlef	443-4
Deveikyte, Irena	P1-54, P1-55
Di Bene, Claudia	522-5
Di Benedetto, Nilde Antonella	P2-27
Diaz, Mario	P1-61
Djordjevic, Vuk	422-5
Dogliotti, Santiago	522-1, 522-3
Doisy, Diana	221-2, 221-3
Doltra, Jordi	P1-10
Donatelli, Marcello	141-2, 141-3K, P1-05, P1-11, P1-15, P1-16, P1-17
Dong, Yan	432-4
Donn, Suzanne	132-1K
Doré, Thierry	221-4, 432-5, 443-3, P1-08
Dragoni, Federico	P1-85
Dramalis, C.	P2-06
Dramalis, Christos	P2-05, P2-07
Dramstad, W.	241-5
Dratkiewicz, Piotr	P1-27
Drewer, Julia	222-5
Drouet, Jean-Louis	222-5
Duchovskiene, Laisvune	231-6
Dufossé, Karine	222-5
Dufour, Lydie	222-3, P2-37
Dulos, Léa	432-2
Dupraz, Christian	222-3
Durand, Jean-Louis	141-1, 411-2
Duveiller, Gregory	141-3K, P1-11
Dyman, Tetyana	241-1
Dürr, Carolyne	211-4
Döring, Thomas	P2-32, P2-56, P2-90
Ebrahimi, Elnaz	P2-35
Ebrahimi, Nashmin	P1-65
Eckersten, Henrik	232-2
Egilmez, Petra	P1-66
Eissa, Ragaa	P1-78
Eiter, S.	241-5
Ekbom, Barbara	241-3K
Eli, Vered	P2-68
Engan, G.	241-5
Enrico, Bonari	P2-68
Erbs, Martin	442-5
Erdei, Éva	P1-86
Eremeev, Viacheslav	P1-32
Eric, Pero	422-6
Esala, Martti	P2-79
Escobar-Gutierrez, Abraham	411-2
Etienne, Philippe	131-2, 242-2
Eurola, Merja	P2-40
Evers, Jochem B.	131-4
Ewert, Frank	211-3, 232-5, 421-5, P1-21
Fagnano, Massimo	P2-22
Fangmeier, Andreas	P1-02
Fanti, Paolo	P1-39
Fasoula, Vasilgia	P1-34
Fatemi, Zain El Abidine	P2-55, P2-89

Fauquet-Alekhine-Pavlovskaya, Elena	442-1
Fayaud, Benoit	211-4
Feledyn-Szewczyk, Beata	P1-44, P1-60
Félix, Irène	P1-45
Ferchaud, Fabien	222-2, P1-84, P1-95
Fermaud, Marc	432-3, P1-42
Fernández-Martínez, José María	P2-09
Ferrante, Ariel	P1-33
Ferrara, Rossana Monica	P2-75, P2-76
Filipe, João A.N.	221-4
Finckh, Maria	P2-90
Finell, Michael	212-2
Fiore, Maria Carola	P2-18, P2-19, P2-65
Fischer, Jenny	443-2
Fjellstad, W.	241-5
Fjellstad, Wendy	241-1
Flagella, Zina	P2-27, P2-28, P2-29
Flenet, Francis	131-1
Fletcher, Louise	P1-72
Florio, Giulia	442-4, P2-50
Fogelberg, Fredrik	232-3
Fortino, Gabriele	231-3, P1-46
Foulkes, MJ	242-1K
Fontaine, James	P1-73
Fournier, Thomas	411-1
Fowler, D. Brian	421-1K
Frak, Ela	411-2
Frank, T.	241-5
Frasso, Nicolò	131-6
Friedel, J. K.	241-5
Friedel, Jürgen	241-1
Fucella, Roberto	P1-12, P1-26
Fuller, Michael Paul	521-5, P2-26
Fumagalli, Davide	P1-11
Fustec, Joëlle	P1-67
Fülöp, Mihály	212-4
Gaba, Sabrina	241-2
Gabrielle, Benoît	222-5, 423-6, 443-3
Gaile, Zinta	212-5, 231-5
Gaiser, Thomas	232-5
Gaju, O	242-1K
Garchi, Salah	241-1
García-Tejera, Omar	P2-09
Garcia, Frédérick	441-4
Gardarin, Antoine	211-4
Gary, Christian	231-2, 423-5
Gasparini, Valentina	P1-48, P2-74
Gastal, François	411-2
Gataulina, Galina	P2-43
Gayler, Sebastian	141-1, P1-02
Geijzendorffer, Ilse	241-1, 241-5
Gelsomino, Antonio	P1-75, P2-39
Gennai, Clizia	P1-69
Gericke, Dirk	P2-82
Ghasemnezhad, Mahmood	431-4
Ghesquière, Marc	411-2
Giglio, Luisa	P2-25
Gilgen, Anna Katarina	441-5
Gill, Kulvinder	431-3
Giller, Ken	433-4
Gilligan, Christopher A.	221-4
Gillingham, P.	241-5
Gislum, Rene	242-5
Giuliani, Marcella Michela	P2-27, P2-29
Giuzio, Luigia	P2-27, P2-29
Goglio, Pietro	443-3
Gonzalez-Bornay, Guillermo	P1-61
Gooding, Mike	521-4, P1-51, P2-04
Gorgoso, J. Javier	P1-13, P2-10
Goudier, Damien	131-2
Goulevant, Gael	423-3
Gozdowski, Dariusz	P1-27

Grandeau, Gilles	432-5
Granger, Sylvie	413-5
Graß, Rikard	P2-11
Grassini, Patricio	141-1, 141-5, 142-2
Gresta, Fabio	P2-39
Greveniotis, Vasileios	P1-34, P1-38
Griffiths, S	242-1K
Grigatti, Marco	P1-83
Gristina, Luciano	P2-17
Gronle, Annkathrin	P2-57
Groot, Jeroen C.J.	522-3, 522-4
Grove, Ivan	421-3
Gucci, Riccardo	P1-68, P1-69
Guichard, Laurence	P1-08
Guilpart, Nicolas	432-3
Gupta, Naveen	142-4
Gutmane, Iveta	P2-47
Guyot, Sébastien H.M.	413-5
Haigh, Ian	421-3
Hajiboland, Roghieh	P1-65
Hakala, Kaija	423-1
Hakojärvi, Mikko	P1-14
Halling, Magnus	232-2
Hammer, Graeme L.	131-5
Hare, Martin	421-3
Harsányi, Endre	P1-86
Hartikainen, Helinä	P1-65, P1-66
Hashempour, Abuzar	431-4
Hatfield, Jerry L.	141-1
Hautala, Mikko	P1-14
Hawes, Cathy	P2-33
Hazard, Laurent	411-2
Heath, William	421-3
Hecker, Jens-Martin	412-4
Heidari, Mostafa	P2-12
Hejazi, Assadollah	P2-23
Hejazi, Sohayl	P2-23
Hentschel, Rainer	P1-02
Herz, Patrick	P2-61
Herzog, F.	241-5
Herzog, Felix	241-1, 241-4
Herzon, Iryna	P2-78
Hietaniemi, Veli	P2-40
Hledik, Pavel	P2-67
Hochman, Zvi	142-3
Hoek, Steven B.	141-1
Hoffmann, Peter	P1-02
Holka, Malgorzata	443-5
Holmes, Helen	P1-19
Horaczek, Tomasz	P1-27
Houst, Martin	P2-67
Howlett, Sally	P2-32
Huat, Joël	423-6
Hubert, Bernard	522-2
Hughes, J. d'A.	531-1K
Huising, Jeroen	142-5
Humphreys, James	433-5
Hunt, James	132-1K
Hussain, Qaiser	132-2
Huusela-Veistola, Erja	423-1
Hülsbergen, Kurt-Jürgen	241-4, 241-5
Hyrkäs, Maarit	P2-16, P2-63
Högy, Petra	P1-02
Iannetta, Pietro	412-3K, 422-4, P2-33
Ibibiijen, Jamal	P2-20
Idziak, Robert	P2-64
Impagliazzo, Adriana	P2-22
Ingver, Anne	P1-56
Insam, H.	132-4
Izaurralde, Cesar	141-1
Jacobs, Anna	P2-58, P2-69
Jalli, Heikki	423-1
Jalli, Marja	423-1

Jankowiak, Janusz	443-5
Jat, M. L.	142-4
Jauhainen, Lauri	423-1
Jeanneret, Philippe	241-1, 241-4, 241-5
Jee, Hyeong-Jin	P2-59, P2-88
Jerkovich, G.	241-5
Jeuffroy, Marie-Hélène	412-5, P1-90
Joannon, Alexandre	P2-91
Johansson, Anna	P1-50
Jokela, Venla	232-4
Joly, François-Xavier	P1-67
Jonczyk, Krzysztof	P2-41
Jones, Hannah	P1-51, P2-32
Jones, James W.	141-1
Jongman, Rob	241-1, 241-5
Jongschaap, Raymond	141-1
Jouany, Claire	411-2
Journet, Etienne-Pascal	432-1
Juarez, Enrique	P1-61
Julier, Bernadette	411-2
Justes, Eric	412-1, 432-1, 442-2
Juutinen, Elina	P2-63
Kadziulienė, Zydre	P1-54, P1-87, P1-94
Kage, Henning	131-1, 131-3, P1-25, P2-11, P2-82, P2-83
Kainz, Maximilian	241-1, 241-4, 241-5
Kajji, Abdellah	P2-20
Kakitis, Aivars	P1-82
Kalaji, Mohamed Hazem	P1-27
Kambouzia, Jafar	P1-41, P2-15
Kamińska, Sonia	P2-71
Kanellopoulos, Argyris	522-4
Kangor, Tiia	P1-03, P1-56
Karapanos, Ioannis	P2-34
Kargiotidou, Anastasia	P1-57
Karkleliene, Rasa	231-6
Karley, Alison	P2-33
Kartaatmadja, Sunendar	142-4
Katajajuuri, Juha-Matti	443-1
Katamadze, Merabs	231-5
Katsantonis, Dimitrios	P2-05, P2-06, P2-07
Kaul, Hans-Peter	P2-35, P2-61, P2-62
Kaur, Ravneet	521-2
Kaymak, S.	132-4
Keatinge, F.J.D.	531-1K
Keatinge, J.D.H (Dyno)	531-1K
Kelderer, M.	132-4, P1-70
Kemarian, Armen	141-1
Kenedy Etone, Epie	212-3
Kersebaum, Kurt Christian	141-1, 211-2, 443-4
Keskitalo, Marjo	423-1
Kettlewell, Peter	421-3
Keussayan, Nathalie	211-5
Khazaei, Hamid	411-5
Kihara, Job	142-5
Kirkby, Clive	132-1K
Kirkegaard, John	132-1K
Klein, Christian	P1-02
Knox, Oliver	P1-73
Koch, Heinz-Josef	P2-58, P2-69
Komarova, Tatiana	P2-42
Kontopoulou, Charis-Konstantina	422-1, P2-34
Koppel, Mati	P1-03
Koppel, Reine	P1-03, P1-56
Kornher, Alois	232-2
Koutroubas, Spiridon	P2-05, P2-07
Koutsika-Sotiriou, Metaxia	P1-38
Kreita, Dzintra	231-5
Kreuger, Emma	212-2
Krstic, Djordje	422-5, 422-6
Kryzeviciene, Aldona	P1-87

Kupisch, Moritz	211-3, P1-21
Kuzmin, Igor	P1-07
Kwang-Lai, Park	P2-59
Kymäläinen, Maritta	P1-89
Känkänen, Hannu	423-1
Lacroix, Bernard	211-5
Lafond, David	231-2
Lagerberg-Fogelberg, Charlotte	232-3
Lamb, William	433-2
Lammirato, Carlo	P2-75
Landé, Nathalie	432-1, 432-2
Lane, Stuart	521-5
Langensiepen, Matthias	211-3, P1-21
Lanigan, Gary	433-5
Lapina, Liga	221-5
Lardy, Romain	441-5
Last, Luisa	241-1
Lauk, Ruth	P1-32
Laus, Maura Nicoletta	P2-27, P2-28
Lazraq, Abderahim	P2-55
Le Barh, Catherine	P2-78
Lebas, Guillaume	222-6
Leclerc, Melen	221-4
Ledesma, D.	531-1K
Lee, Byung-mo	P2-59
Lee, Sang-min	P2-59, P2-88
Lee, Youn	P2-59, P2-88
Leelarasamee, Natthanon	P1-50
Leffelaar, Peter	P1-18
LeGouis, J	242-1K
Leip, Adrian	522-6
Lemola, Riitta	P1-89, P2-79
Leterme, Philippe	432-2
Levy, Lilia	P2-03
Li, Dejun	433-5
Licker, Rachel	142-2
Lindahl, Lennart	232-3
Lindström, K	P1-79
Litrico, Isabelle	411-2
Lizarazo Torres, Clara Isabel	P2-36
Lizaso, Jon	141-1, P1-20
Llao, R.	P2-06
Lloveras, Jaume	432-6
Loddo, Donato	P1-47, P1-48
López-Bernal, Álvaro	P2-13
Lopez-Diaz, María Lourdes	P1-61
Lopez-Ridaura, Santiago	423-3, 441-3, 522-2
Lopez, J. Enrique	P2-10
Lopez, O.	P2-06
Louarn, Gaëtan	411-2
Loyce, Chantal	P1-45
Lucas, Philippe	221-4
Lucchini, Paola	431-1
Luhtanen, Juha	232-4
Luna, Fernando	P1-97
Lupotto, E.	P2-07
Lüscher, Gisela	241-1, 241-4, 241-5
Lääniste, Peeter	P1-32
Mahdavi Damghani, Abdolmajid	P2-15
Mahfoozi, Siroos	P2-24
Mahieu, Stéphanie	P2-37
Maia, Frederico B	441-1
Maiorano, Andrea	141-2, P1-15, P1-16, P1-17
Majchrzak, Leszek	P2-64
Majumdar, Kaushik	142-4
Makowski, David	141-1, 412-5
Malézieux, Eric	423-6
Manderscheid, Remy	442-5
Mandryk, Maryia	522-4
Manici, Luisa M.	132-4, P1-70
Manzoor, Shahid	P1-50

Mari, Jean-François	423-2
Marino Gallina, Pietro	P1-12, P1-26
Marraccini, Elisa	522-5
Marrou, Helene	222-3
Martin-Lammerding, Diana	P1-20, P2-60
Martin, Philippe	P2-91
Martin, Pierre	522-2
Martre, P	242-1K
Mary, Bruno	222-2, 222-6, P1-95
Masin, Roberta	P1-47, P1-48
Mastorilli, Marcello	222-4
Máté, Ferenc	P1-74
Mateos, Luciano	431-5K
Mattsson, Jan Erik	212-2
Matyka, Mariusz	P1-60
Mazel, B.	P2-06
McCalman, Heather	P2-32
McLean, Greg	131-5
Médiène, Safia	221-2, 221-3, P1-49
Meijer, Johan	P1-50
Mérot, Anne	231-2, 432-3, 423-5, P1-42
Messéan, Antoine	231-3, P1-46
Mestries, Emmanuelle	P1-09
Metay, Aurélie	231-2, 432-3, P2-37
Métral, Raphaël	231-2
Meuriot, Frédéric	411-2
Mézière, Delphine	413-5
Michalska-Klimczak, Beata	P2-71
Mignolet, Catherine	423-2
Mihailovic, Vojislav	422-5
Mikic, Aleksandar	422-5, 422-6
Mikkonen, A	P1-79
Milani, Mirco	442-4
Mirschel, Wilfried	211-2
Modugno, A. Francesca	222-4
Mohamed, Abd El-Bary	P1-78
Mohammady, Shahram	421-4
Mohan, Amita	431-3
Mollier, Alain	131-2, 132-5, 413-3
Monti, Andrea	P1-96, P1-97
Monti, Michele	P1-75, P2-39
Morales, Alejandro	P1-18
Moreau-Valancogne, Pascaline	132-3
Moreau, D	242-1K
Morel, Christian	132-5
Moreno, Gerardo	241-1, P1-61
Morris, N L	413-2
Morvan-Bertrand, Annette	411-2
Mosca, Giuliano	431-1
Motta, Silvia Renata	P1-71, P2-81
Mouret, Jean-Claude	441-3
Mugny, Corinne	P2-03
Murphy-Bokern, Donal	412-3K, 522-6
Mutasa-Gottgens, Effie	P1-19
Müller, Anna-Lena	P2-52
Müller, Christoph	141-1, P2-72
Mäkelä, Pirjo	212-3, P1-66, P1-79, P1-93, P2-70
Nábrádi, András	212-4
Nadi, Mohammad Reza	P2-15
Naef, A.	132-4
Nagy, János	P2-86
Nassi o Di Nasso, Nicoletta	P1-85, P1-88, P1-92
Navarro, Alejandra	222-4
Navas, Mariela	P2-60
Negrini, Giorgio	131-6
Nelson, Roger	P1-11
Nendel, Claas	141-1, 211-2
Nesme, Thomas	413-3, 413-4
Nesterova, Irina	442-1
Neuschwandtner, Reinhard	P2-35, P2-61, P2-62
Neukam, Dorothee	131-3

Neves, Alcinda	441-1
Ni, Kang	P2-82
Niazi, Adnan	P1-50
Niemeyer, Stefan	141-3K
Niollet, Sylvie	132-5
Nkurunziza, Libère	232-2
Nkwiine, Charles	241-1
Nolot, Jean-Marie	412-1
Novara, Agata	P2-17
Nowak, Benjamin	413-4
Nunes, Luis F	441-1
Nykänen, Arja	P1-89
Ocampo, Apolonio	142-4
Okereke, Victor	P1-51
Okoth, Peter	142-5
Oldenburg, Elisabeth	P1-77
Oleksiak, Tadeusz	P1-35
Olesen, Jørgen Eivind	P1-10, P1-24
Oliveira, J. Alberto	P1-13, P2-10
Omon, Bertrand	P1-45
Oosterhuis, Derrick	411-4
Orford, S	242-1K
Orgaz, Francisco	431-5K
Oschatz, M. L.	241-5
Ourry, Alain	131-2, 242-2
Pacholski, Andreas	P2-82, P2-83
Pagliai, Marcello	P1-68
Pagowski, Krzysztof	P2-71
Pakarinen, Kirsi	P2-16, P2-63
Palencia, Pedro	P1-13, P2-10
Palermo, Carmen	P2-29
Pallas-Areny, R.	P2-06
Palumbo, A. Domenico	222-4
Pampolino, Mirasol	142-4
Pan, Genxing	132-2
Paoletti, Maurizio G.	241-1
Papadopoulos, Ioannis	P1-34
Papaja-Hülsbergen, Susanne	241-4, 241-5
Pappa, Valentini A.	412-2, 422-1, P1-04, P1-73, P2-34
Pask, A	242-1K
Passot, Sixtine	412-1
Pastore, Donato	P2-27, P2-28
Pasuquin, Julie Mae	142-4
Paura, Liga	221-5
Pearce, Helen	P2-32, P2-56
Pecio, Alicja	421-2
Pejic, Borivoje	422-6
Pellegrini, Sergio	P1-68
Pellerin, Sylvain	413-3, 413-4
Pellet, Didier	P2-03
Pelosi, Céline	132-3
Peltonen-Sainio, Pirjo	232-1K
Pelzer, Elise	412-5, P1-46, P1-90
Peoples, Mark	132-1K
Perez, Sarah	423-3
Perrin, Aurélie	423-6
Petrovičová, Beatrix	P1-75
Piaud, Sébastien	P1-45
Picon-Cochard, Catherine	411-2
Piechota, Tomasz	P2-64
Pietkiewicz, Stefan	P1-27
Piffanelli, P.	P2-07
Pilarski, Krzysztof	P2-64
Pinar, H.	132-4
Pinochet, Xavier	P2-46
Plantureux, Sylvain	241-2
Platace, Rasma	P1-80, P1-91
Pointereau, Philippe	241-1, 241-5, 433-1K
Poisa, Liena	P1-81
Poma, Ignazio	P2-17, P2-18, P2-19, P2-65

Pompa, Marianna	P2-29
Popp, József	212-4
Pottier, Julien	411-2
Prade, Thomas	212-2
Preiti, Giovanni	P2-39
Priekule, Ilze	221-5, P1-52
Priesack, Eckart	141-1, P1-02
Pristeri, Aurelio	422-1, P2-39
Prochazka, Jaromir	P2-66, P2-67
Prochazkova, Blanka	P2-66, P2-67
Prudhomme, Marie-Pascale	411-2
Pulido, Fernando	P1-61
Pulkkinen, Hannele	443-1
Qi, Aiming	P1-19
Quemada, M	P1-20
Raada, Sarah	P2-55
Ragolini, Giorgio	P1-85, P1-92, P2-68
Ragán, Péter	P2-86
Ramdani, Abdelhamid	P2-89
Rampin, Enrico	131-1
Rana, Gianfranco	P2-75, P2-76
Randazzo, Biagio	P2-17, P2-18, P2-19
Rasiukeviciute, Neringa	231-6
Rátonyi, Tamás	P1-86
Raynal, Hélène	441-4
Razouk, Rachid	P2-20, P2-55, P2-89
Reau, Raymond	P1-08
Rebetzke, Greg	132-1K
Reckling, Moritz	412-4
Rees, Robert M.	412-2, 412-3K, 422-1, 422-4, P1-04, P1-73, P2-34
Regina, Kristiina	443-1
Reidsma, Pytrik	522-4
Reinsdorf, Eric	P2-69
Reutter, Michaela	443-4
Ribeiro, António C	441-1
Richardson, Alan	132-1K
Ricou, Charles	241-2
Rihan, Hail	521-5, P2-26
Rivelli, Anna Rita	P1-39
Roche, Romain	443-3
Roderick, Steven	P2-32
Roger-Estrade, Jean	132-3, 221-3
Rolland, Bernard	P1-45
Roncucci, Neri	P1-88, P1-92, P2-68
Rood, Trudy	522-6
Rosenzweig, Cynthia	141-1
Rossing, Walter	522-1, 522-3
Roudet, Jean	P1-42
Rousse, Nathalie	P1-09
Rozman, Crtomir	P1-63, P2-85
Ruane, Alex C.	141-1
Ruza, Antons	221-5, P1-52
Rühmer, T.	132-4
Rykaczewska, Krystyna	P2-21
Rötter, Reimund	232-5
Saastamoinen, Marketta	P2-40
Saatkamp, Arne	P2-72
Salcedo, Gregorio	P1-10
Salvi, Frédéric	P1-30
Sampoux, Jean-Paul	411-2
Santanen, Arja	212-3, P1-66, P1-93
Santín-Montanyá, M. I.	P1-53
Santiveri, Francisca	432-6
Sardi, Katalin	P1-74
Sarno, Mauro	P2-17
Sarrazin, François	423-4
Sarthou, J.-P.	241-5
Sarthou, Jean-Pierre	241-1
Sarunaitė, Lina	P1-54, P1-87
Sassani, Shahryar	P2-24
Sattari, Sheida	433-4
Satyanarayana, T.	142-4

Sau, Federico	141-1
Sausserde, Rudite	P1-81, P1-82
Sauzet, Gilles	432-2
Savin, Igor	433-3
Savin, Roxana	P1-33, P2-01
Savvas, Dimitrios	422-1, P2-34
Sawinska, Zuzanna	P2-64
Scalise, Antonella	P1-75
Schaller, Noémie	P2-91
Schaphoff, Sibyll	P2-72
Schillinger, William	431-3
Schittenhelm, Siegfried	P2-52
Schläfke, Nicole	412-4
Schmidt, Olaf	P2-31
Schneider, M. K.	241-5
Schneller, Chloé	241-2
Schoo, Burkart	P2-52
Schorpp, Quentin	P2-52
Schrader, Stefan	P1-76, P1-77, P2-52
Schroetter, Susanne	P2-52
Seidel, Achim	P2-83
Seleiman, Mahmoud F.	P1-93
Semaskiene, Roma	P1-55
Senthilkumar, Kalimuthu	413-3
Seppänen, Mervi	232-4, P1-65, P1-66
Serrano, E.	P2-06
Shapkina, Yulia	P1-62
Shcherbak, Iurii	141-1
Siebert, Stefan	421-5
Siebrecht, Norman	241-4, 241-5
Sieling, Klaus	P1-25
Sifola, Maria Isabella	P2-22
Signorotti, Claudio	P2-92
Sinapidou, Evangelia	P1-38, P1-57
Singh, Jaswinder	521-2
Singh, Manjit	521-2
Singh, Surinder	521-2
Sivicka, Irina	P1-37
Skomra, Urszula	P2-53
Slafer, Gustavo A.	142-1K, P1-33, P2-01
Slepetys, Jonas	P1-87
Smits, Nathalie	432-3, P1-42
Snape, J	242-1K
Snider, John	411-4
Soccio, Mario	P2-28
Sola, E.	P2-06
Soldevilla-Martinez, M	P1-20
Sooväli, Pille	P1-03, P1-56
Soufizadeh, Saeid	131-5, P1-41, P2-15, P2-23
Specka, Xenia	211-2
Squire, Geoff	422-4, P2-33
Srivastava, Amit	141-3K
Stadler, Anja	211-3, P1-21
Stalenga, Jaroslaw	P2-41
Stanca, M.	P1-70
Staniak, Mariola	P1-60
Steidl, Jörg	443-4
Stella, Tommaso	131-6
Stentiford, Edward	P1-72
Stêpieň, Wojciech	P1-27
Stobart, R M	413-2
Stoddard, Frederick L.	212-3, 411-5, 412-3K, 422-5, P1-66, P1-79, P1-93, P2-36, P2-70
Stomph, TjeerdJan	442-3
Storkey, Jonathan	P2-32
Stout, Jane	P2-31
Stoyanova, Siyka	241-1
Straus, Sasa	P1-63, P2-85
Street, Kenneth	411-5
STRULLU, Loïc	222-6
Stukonis, Vaclovas	P1-87
Subramanian, Gomathinayagam	521-3

Sun, Yiying	P1-23
Sung, Jwa-Kyung	P2-88
Surviliene, Elena	231-6
Svensson, Sven-Erik	212-2
Sylvester-Bradley, R	242-1K
Tamm, Ilmar	P1-56
Tamosiunas, Rimantas	231-6
Tan, Han Qi	521-2
Tang, Li	432-4
Tao, Fulu	141-1
Tardieu, Francois	521-1K
Targetti, Stefano	241-1, 241-4
Tarsitano, Davide	P1-22
Tavakkol Afshari, Reza	P2-24
Tavarini, Silvia	P2-48
Tein, Berit	P1-32
Teixeira, Edmar	141-1
Tenorio-Pasamón, J.L.	P1-53
Tenorio, José Luis	P1-20, P2-60
Terzi, V.	P1-70
Testi, Luca	431-5K, P1-18, P2-13
Thiard, Jérôme	P1-09
Thiéry, Denis	432-3, P1-42
Thiollet-Scholtus, Marie	423-4
Thonicke, Kirsten	P2-72
Thrän, Daniela	212-1K
Tilvikiene, Vita	P1-87, P1-94
Timlin, Dennis	141-1
Tittonell, Pablo	413-1K, 522-2, 522-3
Todorovic, Mladen	P1-06
Toivonen, Marjaana	P2-78
Tokatlidis, Ioannis	411-3, P1-34, P1-38, P1-57
Toma, Irene	P1-39
Toncea, Ion	422-1
Topp, C.F.E.	412-3K, 412-4, 422-4, 433-2, P1-04, P1-22, P1-23
Tortorella, Demetrio	P1-75
Tozzi, Sabrina	P2-49
Tozzini, Cristiano	P1-85, P2-68
Triana, Federico	P2-68
Tribouillois, Hélène	432-1
Trisorio, Antonella	P2-87
Trnka, Miroslav	232-5
Trojak-Goluch, Anna	P2-53
Trotta, Vincenzo	P1-39
Trouverie, Jacques	131-2
Tsaftaris, Athanasios	P1-38
Tsygutkin, Alexander	P1-62, P2-42, P2-44
Turinek, Matjaz	P2-85
Turtola, Eila	P2-79
Tuulos, Antti	P1-79, P2-70
Tyutyunov, Alexander	P2-43
Tyutyunov, Sergey	P2-42, P2-44
Tzantarmas, Constantinos	P1-38, P1-57
Umarov, Bakhtiyor	P2-45
Uppal, Rajneet	521-4
Uyttewaal, Valérie	P1-30
Valagussa, Massimo	P1-71
Valantin-Morison, Muriel	231-1, P1-46, P2-46
Valduga, Matéus	423-4
Valentini, Riccardo	433-3
Vamerali, Teofilo	431-1
van Bussel, Lenny	141-5, 142-2
van Capelle, Christine	P1-76
van Delden, Sander H.	442-3
van der Werf, Wopke	131-4, 432-4
van Ittersum, Martin K.	141-5, 142-2, 433-4, 522-4
van Oosterom, Erik	131-5
van Wart, Justin	141-5, 142-2
Vanaga, Ineta	P1-58
Ványiné Széles, Adrienn	P2-86

Vasenev, Ivan	433-3, P1-62
Vasileiadis, Vasileios P.	231-3
Vasiljevic, Sanja	422-6
Vecchi, Angela	P1-83, P1-96, P1-97
Velasco, Leonardo	P2-09
Venezia, Giacomo	P2-18
Ventrella, Domenico	P2-25
Véricel, Grégory	432-1
Viaggi, Davide	241-1, 241-4
Vignjevic, Marija	P1-24
Vignozzi, Nadia	P1-68
Villalobos, Francisco J.	431-5K, 441-1, P1-18, P2-09, P2-13
Virkajärvi, Perttu	232-4, P2-16
Vitali, Giuliano	P2-87, P2-92
Vitte, Guillaume	222-2, P1-95
Volaire, Florence	411-2
Vos, Jan	131-4, 442-3
Wach, Damian	421-2
Wagner, Susanne	522-6
Waha, Katharina	141-1
Walker, Robin	412-2
Wallach, Daniel	211-5
Walter, Ingrid	P1-20, P2-60
Wasson, Anton	132-1K
Watson, Christine	412-2, 412-3K, 412-4, 422-4, 433-2
Watt, Michelle	132-1K
Weerasinghe, Minuka	421-3
Weigel, Hans-Joachim	442-5, P1-76, P1-77, P2-52
Weih, Martin	232-2, P1-01
Wery, Jacques	222-3, 231-2, 423-5, 432-3
Wéry, Jacques	P1-42, P2-37
Westerbergh, Anna	P1-01
Westhoek, Henk	522-6
Weymann, Wiebke	P1-25
Whittle, I.	132-4
Wieland, Ralf	211-2
Williams, Adrian	522-6
Williams, Michael	P2-31, 433-5
Williams, Mike	412-3K
Winkler, Jan	P1-59
Witing, Felix	212-1K
Wolf, Joost	141-5, 142-2
Wolfarth, Friederike	P1-77
Wolfe, Martin	P2-32
Wolfrum, Sebastian	241-4, 241-5
Wollenweber, Bernd	P1-24
Wyszynski, Zdzislaw	P1-27, P2-71
Xiao, Ying	423-2
Yehouessi, Wilfried	423-6
Yli-Halla, Markku	P1-66, P2-70
Young, Mark	422-4, P2-33
Yun, Hong-Bae	P2-88
Zaini, Zulkifli	142-4
Zakrevskis, Sergejs	P1-82
Zambrana-Quesada, E.	P1-53
Zand, Eskandar	P1-41
Zander, Peter	412-3K, 412-4, 443-4
Zanin, Giuseppe	P1-47, P1-48, P2-74
Zatta, Alessandro	P1-96, P1-97
Zavareh, Mohsen	431-4
Zayed, Omar	P1-78
Zegada-Lizarazu, Walter	P1-96, P1-97
Zhang, Chaochun	432-4
Zhang, Fusuo	432-4
Zhang, Wenxuan	221-2
Zhu, Junqi	131-4
Zingore, Shamie	142-5
Zoidou, Anastasia	P1-73
Zou, Ling	212-3, P1-79
Zucchini, Antonio	P1-11



ESA12

**12th Congress of the
European Society for Agronomy**
Helsinki, Finland, 20-24 August 2012