



AgEng2008

## International Conference on Agricultural Engineering

### Agricultural & Biosystems Engineering for a Sustainable World



**Knossos Royal Village, Hersonissos - Crete**  
**23-25 June 2008, Greece**

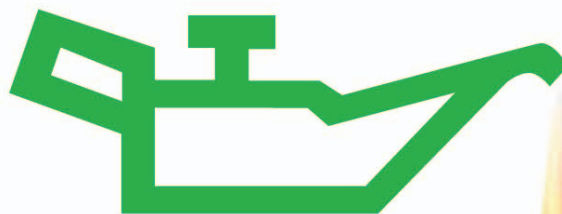
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## Welcome Message

The European Society of Agricultural Engineers (EurAgEng) and the Hellenic Society of Agricultural Engineers are delighted to invite you to the "Agricultural Engineering 2008 Conference and Industry Exhibition", AgEng2008 which will be held in Hersonisos, Crete. The conference will take place in the Aldemar resort hotel, which provides a perfect environment for all activities, scientific, business and recreational. The Island of Crete offers a unique atmosphere for the AgEng2008 conference combining history, memory and culture of more than 3000 years long, together with modern agricultural, industrial and tourist development.

The conference will comprise scientific sessions, oral and visual (posters). The latest developments in agricultural and biosystems engineering will be also presented. The exhibition, which is organised for the first time in the AgEng conferences, will include agricultural engineering products and agricultural technology equipment as well as associated services. A strong and comprehensive scientific Program will be combined with the industry exhibition, stimulating exchange of information and opinions between the actors involved in the different sectors of agricultural engineering. The parallel organisation of scientific sessions with the industry exhibition will provide unique possibilities of bringing, in close contact academics, industry players, manufacturers and services providers.

The subjects for which we are seeking your contributions, are similar to the previous AgEng conferences, however we intend to emphasise in the latest developments related to the role of European Agriculture as energy producer. Scientific trends in agricultural and biosystems engineering will be highlighted and new issues will be explored. The conference will show how biology and engineering come together to bring the future in our every day life.

This conference is an occasion which cannot be missed! I look forward to welcoming you in the beautiful island of Crete where further steps forward in agricultural and biosystems engineering are sure to take place.



**Prof. George Papadakis**

A handwritten signature in black ink, which appears to be 'G. Papadakis', written in a cursive style.

**Conference Chairman**



## Organizing Committee

### Hellenic Society of Agricultural Engineers

Prof. Theofanis Gemtos, *University of Thessaly, Greece*  
 Prof. Gregory Labrinou, *Agricultural University of Athens, Greece*  
 Prof. George Papadakis, *Agricultural University of Athens, Greece*  
 Prof. Maria Sakellariou - Makrantonaki, *University of Thessaly, Greece*  
 Prof. Vasilis Antonopoulos, *Aristotle University of Thessaloniki*  
 Dr. Nikos Katsoulas, *University of Thessaly, Greece*  
 Dr. Spyros Fountas, *University of Thessaly, Greece*  
 Prof. Stavros Vougioukas, *Aristotle University of Thessaloniki, Greece*  
 Dr. George Parissopoulos, *National Agricultural Research Foundation, Greece*  
 Mr. George Georgakopoulos, *Ministry of Rural Development and Food, Greece*  
 Prof. Panos Panagakakis, *Agricultural University of Athens, Greece*  
 Prof. Nikos Dercas, *Agricultural University of Athens, Greece*  
 Mrs. Demetra Petouni, *Hellenic Society of Agricultural Engineers*

### Scientific Committee

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Prof. Vassilis Antonopoulos	Prof. Theofanis Gemtos	Dr. Roberto Oberti
Prof. Dr. Hermann Auernhammer	Dr. Martin Geyer	Dr. Nico Ogink
Prof. Francisco Ayuga	Mr. John Gowing	Prof. Jaime Ortiz-Canavate
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Prof. Pilar Barreiro	Prof. Dr. Hans W. Griepentrog	Prof. George Papadakis
Dr. Thomas Bartzanas	Prof. Riccardo Guidetti	Prof. Dimitris Papamichail
Prof. Dr. ir. Nele De Belie	Prof. Dr. Eberhard Hartung	Prof. Athina Pavlatou
Prof. Daniel Berckmans	Prof. Eldert van Henten	Prof. Dr.-Ing. Peter Pickel
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Prof. Andras Fekete	Assoc. Professor George Nanos	Prof. Guido Wyseure
Dr. Spyros Fountas	Prof. Chryssoula Nikita -Martzopoulou	Dr. George Xanthopoulos

We would like to thank our sponsors for their generous support:



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## Meetings & Special Activities

### SUNDAY 22/06/2008

15:00 - 17:00	EurAgEng Council Meeting	POLYMNIA
18:30 - 20:30	Biosystems Engineering Editorial Board Meeting	POLYMNIA

### MONDAY 23/06/2008

13:30 - 15:00	EurAgEng Working Group - AE 09	HERMES
13:30 - 15:00	EurAgEng Working Group - AP 01	OURANIA
13:30 - 15:00	EurAgEng Working Group - AP 06	CLIO
13:30 - 15:00	EurAgEng Working Group - IT 16	POLYMNIA
13:30 - 15:00	EurAgEng Working Group - PA 07	ERATO
13:30 - 15:00	EurAgEng Working Group - PH 03	KALIA
13:30 - 15:00	EurAgEng Working Group - PM 23	MELPO
13:30 - 15:00	EurAgEng Working Group - PM 08	THALIA
13:30 - 15:00	EurAgEng Working Group - PM 11	EFTERPI
18:30 - 19:30	EurAgEng Open Meeting	OURANIA
19:30 - 21:00	CIGR IV SECTION BOARD MEETING	OURANIA

### TUESDAY 24/06/2008

13:30 - 15:00	EurAgEng Working Group - RD 01	HERMES
13:30 - 15:00	EurAgEng Working Group - RD 12	APOLLON
13:30 - 15:00	EurAgEng Working Group - RD 27	ORPHEAS
13:30 - 15:00	EurAgEng Working Group - SE 14	OURANIA
13:30 - 15:00	EurAgEng Working Group - SE 15	CLIO
13:30 - 15:00	EurAgEng Working Group - SE 22	POLYMNIA
13:30 - 15:00	EurAgEng Working Group - SE 25	ERATO
13:30 - 15:00	EurAgEng Working Group - SE 28	KALIA
13:30 - 15:00	EurAgEng Working Group - SW 20	MELPO
17:00 - 20:00	ENGAGE MEETING	KALIA

### WEDNESDAY 25/06/2008

13:30 - 15:00	Working Group Chairs (SIGs Chairpersons Meeting)	KALIA
17:10 - 18:30	Scientific Committee AgEng 2010 Meeting	ORPHEAS

## General Information

**Congress Venue**  
Knossos Royal Village & Conference Centre

700 14 Limenas Chersonissou  
Crete, Greece  
Phone: +30 2897027400  
Fax: +30 2897023150

**Registration & Congress Secretariat operating times:**

The registration desk will be located at the entrance of the conference venue. All AgEng2008 delegates are kindly asked to check-in at the secretariat before entering congress halls. Congress Secretariat will be in operation the following dates and hours:

Sunday, 22 June:	10:00-18:00
Monday, 23 June:	08:00-18:30
Tuesday, 24 June:	08:00-18:30
Wednesday, 25 June:	08:00-18:30

Participation to the AgEng2008 is limited to registered attendees. The registration fee includes: attendance to all conference sessions, conference material, conference proceedings, welcome reception, coffee breaks and light lunch breaks.

Please wear your badge at all times.

**Kindly note that the Gala Dinner requires separate purchase of tickets, which will be available at the registration desk till Monday, 23 June in the afternoon.**

### Technical Preview Centres

Computers will be available in the Technical Preview Centers for you to check your presentations and technicians will be available to assist you and/or answer any audio/visual related questions you may have. All presentations must be provided to the technicians in advance of the presentation. Please drop off and review your presentation in the technical preview centre, 3 hours before your scheduled presentation.

If you are presenting early in the morning, you should drop it off the day before your presentation. Kindly note that there will be two (2) technical preview centres available, one serving the rooms Hermes, Apollon and Orpheas, where the other serve the rooms Ourania, Polymnia, Erato, Kalia, Melpo, Thalia, Eferpi and Clio. We appreciate your important contribution, and your assistance in the aforementioned guidelines, as it will greatly enhance the effectiveness of the conference.

### Oral Sessions

Only power-point presentations will be allowed. Be sure to bring your presentation on a memory stick; floppy disks are discouraged; the use of personal lap-tops is not allowed.

Each oral presentation should not exceed 20 minutes including time for discussion.

### Poster Presentation

Posters must be brought in person by the author and should not be mailed in advance. The required size is 80 cm (width) x 180 cm (height). Illustrations must be produced heavily and clearly, so that all posters can be readable from a distance of 1.5 metres. At the top of the poster, in bold lettering of about 2.5 to 3 cm size, please provide the title of the paper, name(s) of the author (s), and affiliation.

All Poster Sessions will take place in the Poster Area located at congress hall entrance level. Poster Boards are numbered; please determine your poster board number from the official program based on your poster ID (Ex. P-126). Please, do not remove or cover the numbers on the poster boards.

Poster Presenters are requested to be available to answer any questions during the poster visitation times outlined in AgEng 2008 Final program.

### Poster Mounting & Removal Times

To minimize disruptions in the Poster Area, poster set-up and removal should occur only during the following specified times:

#### Poster Session 1

Monday, 23 June - Mounting 08:00 - 08:30 - Removal 18:30-19:00  
**Poster Numbers (P-001 to P-067)**

#### Poster Session 2

Tuesday, 24 June - Mounting 08:00 - 08:30 - Removal 18:30-19:00  
**Poster Numbers (P- 068 to P-134)**

#### Poster Session 3

Wednesday, 25 June - Mounting 08:00 - 08:30 - Removal 18:30-19:00  
**Poster Number Range (P-135 to P-201)**

**Important Note:** *Congress Secretariat is not responsible for posters that have not been removed in the aforementioned times.*

### Social Events: Two social events have been organized for the AgEng2008 congress Participants.

#### Welcome Reception, Sunday, 22 June • 20:30

*Knossos Royal Village, Platform (number 39 on hotel's map)*

AgEng 2008 welcome reception will take place on Knossos Royal Village platform next to the sea, enabling participants to enjoy the beautiful sunset, while floating on the Cretan archipelago. Refreshments will be offered during the reception thus participants are kindly requested to wear their badge during this function.

#### AgEng 2008 Gala Dinner, Tuesday 24 June • 21:00

*Knossos Royal Village, Main Pool A' (number 04 on hotel's map)*

During AgEng 2008 Gala Dinner, awards will be given to the following categories; Innovation and Development Award, Recognition Award and Award of Merit.

Tickets for the Gala Dinner will be available at the Registration Desk by Monday afternoon. Kindly note that Gala tickets are limited for this event and delegates are encouraged to reserve their admission early.

### Coffee Breaks:

Refreshments will be available in the Conference Hall (two serving stations) during breaks.

### Lunch Breaks:

Light Lunch Buffet for all AgEng2008 Registered Participants, will be offered during conference dates, at Aquarius multifunction room (number 19 on hotel's map), located one level above the congress halls. Access to Aquarius room is via the stairs next to the main congress hall entrance.

### Restaurants & Bars:

Knossos Royal Village Resort, offers plenty food and drinks options. However, it is recommended to visit the town of Hersonissos and taste the local cuisine. Kindly, notice that the congress venue is only 1.8 Km from the Hersonissos town center. Participants, are encouraged to take the walk by the sea to the town centre and enjoy the splendid views.

### Official Language:

English is the official language of the conference. Translation services will not be provided.

### Dress Code:

Attire for all conference sessions and social events is business casual.

### Tours:

Tour tickets will be available at the congress secretariat. Participants who have already made tour reservations will receive their tickets from the Pre Registration section of AgEng2008 Secretariat. AgEng2008 tours meeting point is located just outside the conference venue of the Knossos Royal Village Resort.

Please, be at the meeting point at least 15 minutes prior to the scheduled time of departure.

#### Spinalonga BBQ

23/06/2008

Pickup time: 9:30 (aprox.)

Return time: 16:30 (aprox.)

#### Samaria Gorge

25/06/2008

Pickup time: 05:00 (aprox.)

Return time: 22:30 (aprox.)

#### The Ancient Wonders of Knossos

24/06/2008

Pickup time: 07:40 (aprox.)

Return time: 16:30 (aprox.)

#### Technical Tour - Boutari Winery

26/06/2008

Pickup time: 10:00 (aprox.)

Return time: 14:00 (aprox.)

**SUNDAY 22/06/2008**

15:00 - 17:00	EurAgEng Council Meeting												
18:30 - 20:30	Biosystems Engineering Editorial Board Meeting												
20:30 - 21:30	Welcome Reception Congress Opening												

**MONDAY 23/06/2008**

	HERMES	OURANIA	CLIO	POLYMNIA	ERATO	KALIA	MELPO	THALIA	EFTERPI	
8:30 - 11:00	<b>WELCOME NOTES PLENARY SESSION (01)</b>									
<b>COFFEE BREAK</b>										
11:00 - 11:30	Power & Machinery. Tractors I (05) <b>OP100-OP125</b>	Automation in Animal Husbandry I (10) <b>OP130-OP155</b>	Tillage & Seeding I (15) <b>OP160-OP185</b>	Agricultural Production Processing I (20) <b>OP190-OP215</b>	Animal Behaviour and Welfare (25) <b>OP220-OP245</b>	Biomass Processing for Energy Production I (30) <b>OP250-OP270</b>	Fertilising and Plant Protection I (40) <b>OP280-OP305</b>	Environmental Friendly Management of Waste Materials (45) <b>OP310-OP335</b>	Renewable Energy I (50) <b>OP340-OP365</b>	
<b>POSTER VISITATION P 001 - P 067</b>										
13:30 - 15:00	<b>EurAgEng Working Group - AE 09</b> Automation Technology I (55) <b>OP370-OP395</b>	<b>EurAgEng Working Group - AP 01</b> Biogas I (60) <b>OP400-OP420</b>	<b>EurAgEng Working Group - AP 06</b> Equipment in Livestock Housing (65) <b>OP425-OP450</b>	<b>EurAgEng Working Group - IT 16</b> Biomass Production I (70) <b>OP455-OP480</b>	<b>EurAgEng Working Group - PA 07</b> Milking and Dairy Products (75) <b>OP485-OP500</b>	<b>EurAgEng Working Group - PH 03</b> Energy Efficiency I (80) <b>OP505-OP525</b>	<b>EurAgEng Working Group - PM 23</b> Hydrology I (85) <b>OP530-OP545</b>	<b>EurAgEng Working Group - PM 08</b> Livestock Environment Aerial Quality I (90) <b>OP550-OP575</b>	<b>EurAgEng Working Group - PM 11</b> Structural Design and Construction Materials I (95) <b>OP580-OP595</b>	
15:00 - 17:00										
<b>COFFEE BREAK</b>										
17:00 - 17:10										
17:10 - 18:30	Information Systems & Precision Agriculture (Water Supply) (100) <b>OP600-OP615</b>	Biofuels I (105) <b>OP616-OP618</b>	Aqua Culture (110) <b>OP620-OP630</b>	Biomaterials (115) <b>OP635-OP645</b>	Livestock Environment Aerial Quality II (120) <b>OP650-OP660</b>	Irrigation I (125) <b>OP665-OP680</b>	Waste Processing (130) <b>OP685-OP695</b>	Thermal Environment in Animal Housing (135) <b>OP700-OP710</b>		
18:30 - 19:30		<b>EurAgEng Open Meeting</b>								
19:30 - 21:00		<b>CIGR IV SECTION BOARD MEETING</b>								



**TUESDAY 24/06/2008**

	<b>HERMES</b>	<b>APOLLON</b>	<b>ORPHEAS</b>	<b>OURANIA</b>	<b>CLIO</b>	<b>POLYMNIA</b>	<b>ERATO</b>	<b>KALIA</b>	<b>MELPO</b>
8:30 - 11:00	Agricultural Production Processing II (140) <b>OP715-OP745</b>	Information Systems and Precision Agriculture I (145) <b>OP750-OP780</b>	Information Systems & Precision Agriculture (Viticulture) (150) <b>OP785-OP815</b>	Structural Design and Construction Materials II (155) <b>OP820-OP845</b>	Drying Technology (160) <b>OP850-OP880</b>	Information Systems in Farming I (165) <b>OP885-OP915</b>	Manure Management & Waste Water Handling (170) <b>OP920-OP940</b>	Quality Assessment (175) <b>OP950-OP975</b>	
11:00 - 11:30	<b>COFFEE BREAK</b>								
11:30 - 13:30	Power And Machinery. Tractors II (180) <b>OP980-OP1005</b>	Tillage and Seeding II (185) <b>OP1010-OP1030</b>	Biofuels II (190) <b>OP1040-OP1062</b>	Fruit and Vegetable Cultivation Systems I (195) <b>OP1065-OP1085</b>	Ergonomics, Safety and Health II (200) <b>OP1095-OP1120</b>	Non Saturated Flow (205) <b>OP1121-OP1125</b>	Materials for Protected Cultivation (210) <b>OP1145-OP1170</b>	Analysis of Ventilation Systems in Animal Housing I (215) <b>OP1175-OP1195</b>	
13:30 - 15:00	<b>POSTER VISITATION P 068 - P 134</b>								
<b>LUNCH BREAK</b>	<b>EurAgEng Working Group - RD 01</b>	<b>EurAgEng Working Group - RD 12</b>	<b>EurAgEng Working Group - RD 27</b>	<b>EurAgEng Working Group - SE 14</b>	<b>EurAgEng Working Group - SE 15</b>	<b>EurAgEng Working Group - SE 22</b>	<b>EurAgEng Working Group - SE 25</b>	<b>EurAgEng Working Group - SE 28</b>	<b>EurAgEng Working Group - SW 20</b>
15:00 - 17:00	Information Systems and Precision Agriculture II (220) <b>OP1200-OP1225</b>	Land Use & Productivity I (225) <b>OP1230-OP1250</b>	Livestock Environment Aerial Quality III (230) <b>OP1260-OP1283</b>	Harvesting I (235) <b>OP1285-OP1310</b>	Fertilising and Plant Protection II (240) <b>OP1315-OP1340</b>	Hydrology II (245) <b>OP1341-OP1343</b>	Energy Efficiency II (250) <b>OP1370-OP1385</b>	Water Quality and Environment I (255) <b>OP1390-OP1410</b>	
17:00 - 17:10	<b>COFFEE BREAK</b>								
17:10 - 18:30	Biomass Production II (260) <b>OP1415-OP1425</b>	Automation in Animal Husbandry II (265) <b>OP1435-OP1450</b>	Biogas II (270) <b>OP1455-OP1465</b>	Irrigation II (275) <b>OP1470-OP1485</b>	Land & Water Environmental Aspects I (280) <b>OP1490-OP1505</b>	Analysis of Ventilation Systems in Animal Housing II (285) <b>OP1510-OP1520</b>	Renewable Energy II (290) <b>OP1525-OP1540</b>		
17:00 - 20:00	<b>ENGAGE MEETING</b>								

**GALA DINNER**

*Knossos Royal Village, Pool A*

*Innovation and Development Award, Recognition Award, Award of Merit*

**WEDNESDAY 25/06/2008**

	<b>HERMES</b>	<b>APOLLON</b>	<b>ORPHEAS</b>	<b>OURANIA</b>	<b>CLIO</b>	<b>POLYMNIA</b>	<b>ERATO</b>	<b>KALIA</b>
8:30 - 11:00	Information Systems & Precision Agriculture (Soil Supply) (295) <b>OP1545-OP1570</b>	Automation Technology II (300) <b>OP1575-OP1595</b>	Quality Assessment-New Devices (305) <b>OP1605-OP1630</b>	Information Systems in Farming II (310) <b>OP1635-OP1660</b>	Fruit and Vegetable Cultivation Systems II (315) <b>OP1670-OP1690</b>	Microclimate in Greenhouses (320) <b>OP1700-OP1725</b>	Seed Processing (325) <b>OP1735-OP1755</b>	Water Quality and Environment II (330) <b>OP1765-OP1790</b>
11:00 - 11:30	<b>COFFEE BREAK</b>							
11:30 - 13:30	Information Systems & Precision Agriculture (Pesticides, Insecticides) (335) <b>OP1795-OP1820</b>	Tillage and Seeding III (340) <b>OP1825-OP1850</b>	Non Destructive Devices Quality Assessment - New Devices (345) <b>OP1855-OP1880</b>	Education and Extension Service (350) <b>OP1885-OP1905</b>	Harvesting II (355) <b>OP1910-OP1935</b>	Mechanical Damage & Properties (360) <b>OP1940-OP1965</b>	Irrigation III (365) <b>OP1970-OP1990</b>	Structural Design & Construction Materials III (370) <b>OP1995-OP2020</b>
13:30 - 15:00	<b>POSTER VISITATION P 135 - P 201</b>							
<b>LUNCH BREAK</b>	Working Group Chairs (SIGs Chairpersons Meeting)							
15:00 - 17:00	Information Systems and Precision Agriculture III (375) <b>OP2025-OP2045</b>	Land & Water Environmental Aspects II (380) <b>OP2050-OP2065</b>	Biomass Processing for Energy Production II (385) <b>OP2070-OP2085</b>	Fruit Quality Assessment (390) <b>OP2090-OP2110</b>	Land Use & Productivity II (395) <b>OP2115-OP2135</b>	Storage & Logistics (400) <b>OP2140-OP2160</b>	Storage of Fruits and Vegetables (405) <b>OP2165-OP2186</b>	Fertilising and Plant Protection III (410) <b>OP2190-OP2193</b>
17:00 - 17:10	<b>COFFEE BREAK</b>							
17:10 - 18:30	Power and Machinery, Tractors III (415) <b>OP2215-OP2225</b>	Tillage and Seeding IV (420) <b>OP2230-OP2240</b>	Scientific Committee AgEng 2010 Meeting	Ergonomics, Safety and Health III (430) <b>OP2265-OP2280</b>	Hydrology III (435) <b>OP2281-OP2284</b>	Structural Design and Construction Materials IV (440) <b>OP2285-OP2305</b>		

## Meeting Rooms Location



## AgEng 2008 Congress Venue Map



aldemar  
HOTELS & SPA

### General

1. Main Entrance
2. Main Building
3. Reception
4. Main Pool A' (Gala Dinner)
5. Waterfall - Waterslide
6. Main Pool B'
7. Children's Pools

### Restaurants & Bars

8. Main Restaurant
9. Self Service/Snack Bar & Restaurant
10. Mini Restaurant
11. Beach Bar & Restaurant
12. Taverna "Artemis"
13. Gourmet Restaurant "Fontana Amorsa"
14. Ouzeri
15. Internet Corner
16. Villas Restaurant
17. Main Bar
18. Pool Bar
19. Wine Bar "Cellar"
20. Night Club "Aquarius" (Lunch Breaks)

### Sports & Recreation Facilities

21. Beach
22. Watersports Centre - Diving Centre
23. Tennis Courts
24. Mini Golf
25. Fitness Centre, Sauna
26. Indoor Pool
27. Amphitheatre
28. Mini Club
29. Children's Facilities

### Various

30. Conference Centre (Congress Halls)
31. Cretan Art Shops
32. Aldemar Shop, Shopping Arcade, Jewellery, Boutique, Coiffure
33. Mini Market
34. Bridge Room
35. TV-Video Room
36. Church
37. Parking
38. Platform (Welcome Reception)



INTERNATIONAL  
CONFERENCE  
HERSONISSOS, CRETE - GREECE • 23 - 25 JUNE 2008

Ag  
Eng  
2008

FINAL PROGRAM

HERSONISSOS  
CRETE  
23 - 25 JUNE  
2008

**Monday, June 23, 2008**

**Session: Key Note Lectures (01)**

Chairs: *Prof. Aad Jongebreur, Prof. George Papadakis*

Type: Plenary Session

Date: Monday, June 23, 2008

Time: 08:30 - 11:00

Room: Hermes/Apollon/Orpheas (Main Hall)

- 08:30 Welcome Speech  
*Prof. Jongebreur, A.*  
*EurAgEng President*
- 09:00 BIOENERGY: POLICY AND TECHNOLOGY STATUS  
*Mrs. Charalambous, A.*  
*Representative of the European Commission, DG Energy and Transport*
- 09:30 AGRICULTURAL MACHINES EVOLUTION IN A CHANGING WORLD  
*Dr. Gavioli, G.*  
*CNH, Tractor Product*
- 10:00 INNOVATIVE TRENDS IN WATER RESOURCES PLANNING AND MANAGEMENT  
*Prof. Tsakiris, G.*  
*President of the European Water Resources Association*
- 10:30 MEETING THE NEEDS OF THE DEVELOPING BIO-BASED ECONOMY: THE TRANSITION FROM AGRICULTURAL TO BIOSYSTEMS ENGINEERING UNIVERSITY STUDIES IN EUROPE  
*Prof. Briassoulis, D.*  
*Coordinator of the Erasmus Thematic Network "ERABEE", Agricultural and Biological Engineering in Europe*

**Session: Power & Machinery Tractors I (05)**

Type: Papers - Oral Presentation

Date: Monday, June 23, 2008

Time: 11:30 - 13:30

Room: Hermes

Chairs: *Dr. Antonio Comparetti, Dr. Stefan Bottinger*

- 11:30 OP-100** **1183146**  
CAUSES OF FAILURE IN TRACTOR MOTORS AFTER REPAIR-EFFECTS ON AGRICULTURAL WORKING RELIABILITY  
*Petropoulos, G.*
- 11:50 OP-105** **1179945**  
ENERGY EFFICIENCY IN AGRICULTURAL TRACTORS CONSIDERING THE ENGINE AND THE TRANSMISSION  
*Ortiz-Canavate, J.*
- 12:10 OP-110** **1179734**  
DESIGN OF THE LUBRICATION CIRCUIT OF AN AGRICULTURAL TRACTOR  
*Molari, G.*
- 12:30 OP-115** **1177937**  
ANALYSIS OF THE DRIVING DYNAMICS OF AGRICULTURAL TRACTORS BY A MULTI BODY MODEL AND A TYRE MODEL  
*Bottinger, S.*
- 12:50 OP-120** **1177932**  
THE ROLLING HARROW: A NEW OPERATIVE MACHINE FOR PHYSICAL WEED CONTROL  
*Peruzzi, A.*
- 13:10 OP-125** **1177044**  
L OF LOW GROUND PRESSURE UNDERCARRIAGES TO PREVENT SOIL COMPACTION  
*Geischeder, R.*

**Session: Automation in Animal Husbandry I (10)**

Type: Papers - Oral Presentation

Date: Monday, June 23, 2008

Time: 11:30 - 13:30

Room: Ourania

Chairs: *Prof. Nikolaos Sigrimis, Prof. Christer Nilsson*

- 11:30 OP-130** **1175959**  
TRACEABILITY SYSTEM FOR CATTLE BASED ON GENOTYPING OF 25-PLEX USING SNAPSHOT METHOD  
*Shirak, A.*
- 11:50 OP-135** **1180615**  
FIELD TEST OF AN ACOUSTIC SYSTEM FOR AUTOMATIC INFECTIOUS COUGH LOCALIZATION  
*Berckmans, D.*
- 12:10 OP-140** **1179613**  
SYSTEMS FOR REMOTE PHYSIOLOGICAL MONITORING IN LIVESTOCK: ASSESSING STRESS DURING TRANSPORTATION  
*Mitchell, M.*
- 12:30 OP-145** **1179549**  
AN EVALUATION OF ELECTRONIC SOW FEEDING (ESF) IN THREE HERDS  
*Olsson, A.C.O.*
- 12:50 OP-150** **1177091**  
APPLICATION OF HIGH FREQUENCY TRANSPONDERS FOR SIMULTANEOUS IDENTIFICATION OF WEANED PIGLETS  
*Hessel, E.F.*
- 13:10 OP-155** **1176681**  
PIG HEARD HEALTH PLANS: AN INTERNET BASED SYSTEM TO MONITOR HEALTH AND PERFORMANCE  
*Robertson, J.*

**Session: Tillage and Seeding I (15)**

Type: Papers - Oral Presentation

Date: Monday, June 23, 2008

Time: 11:30 - 13:30

Room: Clio

Chairs: *Prof. Luigi Bodria, Mr. Gunnar Lundin*

- 11:30 OP-160** **1185193**  
EVALUATION OF A STRIP TILLAGE FOR COTTON PRODUCTION IN GREECE  
*Gemtos, T.A.*
- 11:50 OP-165** **1182860**  
SUNFLOWER OIL ENERGY BUDGET FOR IN-FARM PRODUCTION UNDER FOUR TILLAGE SYSTEMS.  
*Gemtos, T.A.*
- 12:10 OP-170** **1181949**  
DESIGNING, FABRICATING AND EVALUATION OF A TILER MOUNTED STEADY BLADE SODCUTTER  
*Masoumi, M.A.S.*
- 12:30 OP-175** **1181799**  
DESIGN, DEVELOPMENT AND EVALUATION OF A METERING UNIT FOR A SUGARCANE BILLET PLANTER WITH OVERLAP PLANTING PATTERN  
*Razavi, J.*
- 12:50 OP-180** **1179650**  
INFLUENCE OF OVERALL STRAW MANAGEMENT ON NEXT CROP GERMINATION, GROWTH AND FINAL YIELD WHEN USING CONSERVATION TILLAGE TECHNOLOGIES  
*Kviz, Z.*
- 13:10 OP-185** **1177727**  
POWER REQUIREMENT OF PLANTER CHISEL TYPE FURROW OPENERS PLANTING SOYBEANS ON PASTURELAND AFTER GRAZING  
*Trein, C.R.*

**Session: Agricultural Production Processing I (20)**

Type: Papers - Oral Presentation

Date: Monday, June 23, 2008

Time: 11:30 - 13:30

Room: Polymnia

Chairs: Dr. Evelia Schettini, Dr. Miltiadis Hiskakis

11:30 OP-190

1177322

PSYCHOPHYSICAL MODELS OF CRISPNESS EVALUATION OF BATTERS WITH DIFFERENT AMYLOSE CONTENT

*Ediati, R.*

11:50 OP-195

1177217

THE EFFECT OF MECHANICAL IMPACT ON FRUIT INJURY

*Csatar, A.*

12:10 OP-200

1176696

METABONOMIC FINGERPRINTING OF OLIVE FRUITS FOR BREEDING PURPOSES

*Hernandez-Sanchez, N.*

12:30 OP-205

1130403

EFFECT OF PLANT SURFACE MICROSTRUCTURE AND MATERIAL ON ATTACHMENT OF PATHOGENIC BACTERIA

*Delwiche, M.J.*

12:50 OP-210

1178368

HEAT TREATMENT OF AGRICULTURAL PRODUCE SURFACE AGAINST PATHOGENS APPLYING STEAM AND RADIATION

*Gan-Mar, S.*

13:10 OP-215

1181757

DRYING KINETICS OF ZATARIA MULTIFLORA (AVISHAN) LEAVES: INTELLIGENT AND SUPERPOSITION MODELLING TECHNIQUES

*Khosro-Beygi, Z.*

#### Session: Animal Behaviour and Welfare (25)

Type: Papers - Oral Presentation

Date: Monday, June 23, 2008

Time: 11:30 - 13:30

Room: Erato

Chairs: Prof. Chrissyula Nikita-Martzopoulou,  
Dr. Ido Seginer

11:30 OP-220

1181864

EVALUATION OF HEART RATE, LYING BEHAVIOUR AND ACTIVITY MEASUREMENT TO PREDICT CALVING OF DAIRY COWS

*Georg, H.*

11:50 OP-225

1177965

SIMULTANEOUS REGISTRATION OF HENS IN GROUP NEST BOXES WITH A HF-TRANSPONDER-SYSTEM TO EVALUATE THE LAYING BEHAVIOUR

*Thurner, S.*

12:10 OP-230

1177645

ENVIRONMENTAL IMPACT ASSESSMENT AND ANIMAL WELFARE IN A STRAW FLOW SYSTEM FOR FATTENING PIGS

*Amon, B.*

12:30 OP-235

1176045

SPATIOTEMPORAL QUADRUPED GAIT ANALYSIS BASED ON PRESSURE MAT DATA - PRELIMINARY RESULTS

*Maertens, W.*

12:50 OP-240

1146075

NOISE PRODUCTION FROM PIG FARMS: AVERAGE LEVELS AND SPATIAL DISTRIBUTION

*Calvet, S.*

13:10 OP-245

1181477

EFFECT OF AGE AND FEEDING DIET CONTAINING AN ANTIBIOTIC OR A PROBIOTIC ON BURSTING STRENGTH OF BROILER CHICKEN INTESTINES

*Khazaei, J.*

#### Session: Biomass Processing for Energy Production I (30)

Type: Papers - Oral Presentation

Date: Monday, June 23, 2008

Time: 11:30 - 13:30

Room: Kalia

Chairs: Dr. Volkhard Scholz, Dr. Martin Kremmer

11:30 OP-250

1192703

IS BIOGENIC ENERGY PRODUCTION VIABLE VIA AGRORESIDUES GASIFICATION?

*Zabaniotou, A.*

11:50 OP-255

1181900

BIOMASS SUPPLY-CHAIN ASSESSMENT BY MEANS OF WEB APPLICATION: TECHNICAL, ECONOMIC AND ENERGETIC ASPECTS

*Berruto, R.*

12:10 OP-260

1176456

THE EFFECT OF MICROWAVE TREATMENT ON CELLULASE ENZYME ACTIVITY

*Nemenyi, N.M.*

12:30 OP-265

1178165

THERMOCHEMICAL CONVERSION OF CASHEW NUT SHELLS TO PRODUCE FUEL

*Ojolo, S.J.*

12:50 OP-270

1177891

PRODUCTION COST AND PROFIT OF CHIPPED WOOD FROM POPLAR SHORT ROTATION FORESTRY

*Fiala, M.*

#### Session: Fertilising and Plant Protection I (40)

Type: Papers - Oral Presentation

Date: Monday, June 23, 2008

Time: 11:30 - 13:30

Room: Melpo

Chairs: Prof. Ettore Gasparetto, Dr. Giuliano Vox

11:30 OP-280

1181878

LIQUID CONCENTRATION, DROPLET SIZE AND VELOCITY MEASUREMENTS USING AN OPTICAL PROBE TO CHARACTERIZE THE HOLLOW CONE SPRAY ATOMISATION

*Vallet, A.*

11:50 OP-285

1180562

SOIL PARAMETER EFFECTS ON STEAM DISINFESTATION EFFICIENCY

*Ricauda Aimonino, D.*

12:10 OP-290

1179104

MEASUREMENTS OF DRAUGHT REQUIREMENT AND ODOUR EMISSION OF DIFFERENT SLURRY INJECTOR DESIGN

*Nyord, T.*

12:30 OP-295

1177961

THE EFFICIENCY OF HERBICIDE (GLYPHOSATE) APPLICATION UNDER THE INFLUENCE OF DEW

*Masia, G.*

12:50 OP-300

1177871

NEAR-INFRARED SPECTROSCOPY (NIRS) FOR A NUTRIENT BASED SLURRY APPLICATION

*Zimmermann, A.*

13:10 OP-305

1177867

DEVELOPMENT AND PERFORMANCE EVALUATION OF A MECHANICAL WEEDER IN SOUTHWESTERN NIGERIA

*Manuwa, S.I.*

#### Session: Environmental Friendly Management of Waste Materials (45)

Type: Papers - Oral Presentation

Date: Monday, June 23, 2008

Time: 11:30 - 13:30

Room: Thalia

Chairs: Prof. Hannu Haapala,  
Prof. Vassilis Antonopoulos

11:30 OP-310

1122201

ENRICHMENT AND MOLECULAR ANALYSIS OF MICROBIAL CONSORTIA INVOLVED IN DECHLORINATION OF CHLOROETHENES

*Nazir, N.H.*

- 11:50 OP-315** **1179322**  
RECYCLING SPECS FOR AGRICULTURAL PLASTIC WASTE (APW)-A PILOT TEST IN GREECE AND IN ITALY  
*Babou, E.*
- 12:10 OP-320** **1179290**  
USING AGRICULTURAL PLASTIC WASTE (APW) AS ALTERNATIVE SOLID FUEL (ASF) FOR ENERGY RECOVERY IN A CEMENT INDUSTRY KILN - A PILOT TEST  
*Hiskakis, M.*
- 12:30 OP-325** **1179157**  
MANAGEMENT OF AGRICULTURAL PLASTIC WASTE (APW). A PILOT TEST IN GREECE  
*Briassoulis, D.*
- 12:50 OP-330** **1177511**  
MECHANICAL CHARACTERIZATION OF RECYCLED AGRICULTURAL PLASTIC MATERIALS  
*Scarascia-Mugnozza, G.*
- 13:10 OP-335** **1177156**  
THE USE OF WASTE MATERIALS IN RURAL ROAD CONSTRUCTION AND MAINTENANCE  
*Garcia, A.I.*

**Session: Renewable Energy I (50)**

Type: Papers - Oral Presentation  
Date: Monday, June 23, 2008  
Time: 11:30 - 13:30  
Room: Eferpi

Chairs: Prof. Nicolay Michailov, Dr. Thomas Kotsopoulos

- 11:30 OP-340** **1256079**  
THE CONTRIBUTION OF A GREEN ROOF TO ACHIEVE THERMAL COMFORT AND ENERGY SAVINGS  
*Kotsiris, G.*
- 11:50 OP-345** **1185249**  
AUTONOMOUS RENEWABLE ENERGY SOURCES SYSTEMS TO COVER ENERGY NEEDS IN THE AGRICULTURAL SECTOR  
*Souliotis, M.*
- 12:10 OP-350** **1179962**  
EXPERIMENTAL OPERATION OF A HYBRID RENEWABLE ENERGY POLYGENERATION SYSTEM  
*Kyriakarakos, G.*
- 12:30 OP-355** **1177304**  
COMPARISON OF ENERGY PRODUCTION OF DIFFERENT PV TECHNOLOGIES  
*Farkas, I.*
- 12:50 OP-360** **1146051**  
PHOTOVOLTAIC SOLAR SYSTEM WITH HIGHER EFFECTIVITY  
*Libra, M.*
- 13:10 OP-365** **1137770**  
MODEL DEVELOPMENT AND APPLICATION FOR DETERMINING OPTIMUM INTEGRATION OF RES IN TARGET REGIONS  
*Geronikolou, L.*

**Session: Poster Session 1 (51)**

Type: Papers - Poster Presentation  
Date: Monday, June 23, 2008  
Time: 11:00 - 17:10  
Room: Poster Area

Remarks: Poster Session 1  
Mounting 08:00 - 08:30  
Removal 18:30-19:00  
Poster Number Range (P-001 to P-067)

- P-001** **1353817**  
THESSALYFOOD, A REGIONAL TECHNOLOGICAL PLATFORM FOR FOOD: AIMS AND ACTIONS  
*Kittas, C.*

- P-002** **1186737**  
TESTS FOR THE MECHANICAL HARVEST OF OLIVES IN DIFFICULT AREAS USING A SELF-PROPELLED RADIO-CONTROLLED SHAKER  
*Zimbalatti, G.*
- P-003** **1185257**  
SYSTEMS FOR EVALUATING THE CORRELATION BETWEEN SOIL CONE PENETROMETER RESISTANCE AND SHEAR STRENGTH  
*Comparetti, A.*
- P-004** **1185177**  
MICROBIAL DIRECT FED IN SMALL RUMINANT NUTRITION  
*Safari Monjegtapeh, S.*
- P-005** **1182904**  
ULTRA NARROW ROW SPACING FOR EFFECTIVE, LOW-INPUT COTTON CROPPING IN CENTRAL GREECE  
*Bartzialis, D.I.*
- P-006** **1182867**  
CYNARA, SUNFLOWER, SWEET AND FIBER SORGHUM ON-FARM YIELDS IN NORTH, CENTRAL AND SOUTH GREECE IN 2007  
*Archontoulis, S.V.*
- P-007** **1182844**  
THE INFLUENCE OF COVER CROPS (PISUM SATIVUM) ON BIOMASS PRODUCTIVITY OF MAIZE AND SUNFLOWER IN CENTRAL GREECE  
*Skoufogianni, E.*
- P-008** **1182554**  
POTENTIAL GROWTH AND BIOMASS PRODUCTIVITY OF SWEET AND FIBER SORGHUM AS AFFECTED BY THREE IRRIGATION APPLICATION IN CENTRAL GREECE  
*Dimitriadou, M.M.*
- P-009** **1182283**  
DESIGN, DEVELOPMENT AND EVALUATION OF A LASER BASED TORQUE METER FOR SILAGE CORN YIELD MONITORING  
*Jafari, A.*
- P-010** **1181897**  
SEWAGE SLUDGE COMPOSTING AS AN IMPORTANT SOURCE OF AMMONIA EMISSIONS  
*Dach, J.*
- P-011** **1181887**  
3D LASERSCANNING FOR ENHANCING CONTROL EFFICIENCY IN AUTOMATED SYSTEMS  
*Muller, J.*
- P-012** **1181874**  
PERFORMANCE OF AGRICULTURAL CABS FOR PROTECTION AGAINST PESTICIDES  
*Grimbuhler, S.*
- P-013** **1181866**  
THE SPRAWL URBANIZATION IN THE TERRITORY OF THE PROVINCE OF VITERBO (LATIUM, CENTRAL ITALY)  
*Leone, A.*
- P-014** **1181828**  
SYNTHESIS OF A FOUR BAR MECHANISM USING GENETIC ALGORITHM  
*Szabo, I.*
- P-015** **1181771**  
POSSIBILITIES OF METHANE MONITORING IN AGRICULTURE  
*Zabloudivova, P.*
- P-016** **1181747**  
EFFECTS OF COMPRESSIVE FORCE, DENSIFICATION TEMPERATURE, PARTICLE SIZE AND MOISTURE CONTENT ON SOME PROPERTIES OF AGRO-PELLETS  
*Carone, M.T.*
- P-017** **1181612**  
EFFECTS OF IMPACT LOCATIONS ON MECHANICAL AND DYNAMICAL PROPERTIES OF FRUITS  
*Kafashan, J.*
- P-018** **1181599**  
REDUCTION OF WATER POLLUTION FROM LIVESTOCK FACILITIES:



RAINWATER STUDY IN PIG FARM

*Ubeda, Y.*

**P-019**

**1181572**

UNSUPERVISED SEGMENTATION OF OUTDOOR VEGETATION SCENES USING AN ITERATIVE REGION AGGREGATION PROCESS

*Leclercq, T.*

**P-020**

**1181504**

THE IMPACT OF THE CROPPING SYSTEM MANAGEMENT ON SOIL EROSION AND FERTILITY IN THE NORTH-EASTERN ROMANIA

*Jitareanu, G.*

**P-021**

**1181501**

THE FUNCTIONAL EFFICIENCY OF THE DRAINAGE NETWORK FROM THE MOLDOVA WATERSHED UNDER CONDITIONS OF THE AGRICULTURAL EXPLOITATION ON INDIVIDUAL PLOTS

*Bucur, D.*

**P-022**

**1181492**

AMMONIA EMISSION FROM A LIVESTOCK BUILDING

*Bartzanas, T.B.*

**P-023**

**1180654**

THE INFLUENCE OF DIFFERENT TILLAGE SYSTEMS ON THE PHYSICAL PROPERTIES OF SOIL AND YIELD OF MAIN CROPS FROM THE MOLDAVIAN PLAIN

*Raus, L.*

**P-024**

**1180634**

THE PHYSICAL CHANGES OF A CAMBIC CHERNOZEM SOIL FROM THE NORTH-EAST OF ROMANIA UNDER DIFFERENT TILLAGE PRACTICES

*Topa, D.*

**P-025**

**1180618**

LIVESTOCK IDENTIFICATION AND FARM MANAGEMENT BY RFID SYSTEMS

*Tortia, C.*

**P-026**

**1180415**

A NEW BRAND SYSTEM TO CONTROL THE AMBIENT PARAMETERS INSIDE A MUSHROOM HOUSE

*Salvia, M.*

**P-027**

**1180327**

BIOGAS AND ELECTRICAL POWER COGENE-RATION THROUGH ANAEROBIC DIGESTION VEGETABLE RESIDUAL FROM TOMATO GREENHOUSE CULTIVATION

*D'Emilio, A.*

**P-028**

**1180199**

EFFECTS OF SOIL CONSERVATION WORKS ON THE PRODUCTION AND FERTILITY OF ERODED SOIL FROM THE MOLDAVIAN PLATEAU

*Ailincai, C.*

**P-029**

**1180102**

PM10 DAILY VARIATION IN PIG BUILDINGS IN RELATION TO ON-LINE MONITORED ANIMAL ACTIVITY

*Berckmans, D.*

**P-030**

**1179999**

WHITE ASPARAGUS ORIGIN DISCRIMINATION USING NIRS TECHNOLOGY

*Jaren, C.*

**P-031**

**1179657**

VARIABILITY ASSESSMENT OF THE FORCES ACTING ON DIFFERENT SEED DRILL FURROW OPENERS

*Litago, J.J.*

**P-032**

**1179292**

PREPARATION AND CHARACTERIZATION OF CELLULOSIC FIBERS AND CHITOSAN COMPOSITES FOR AGRICULTURAL APPLICATION

*Barbara Immrzi, B.I.*

**P-033**

**1179218**

MICROWAVE MEASUREMENTS OF THE MOISTURE CONTENT OF WHEAT WITH THE PROTOTYPE SENSOR

*Kocsis, L.*

**P-034**

**1179167**

ENVIRONMENTAL SAFETY IN CITRUS CULTIVATION: THE CASE OF SOUTHERN ITALY

*Zimbalatti, G.*

**P-035**

**1179138**

MECHANICAL HARVEST OF GRAPES: ASSESSMENT OF THE PHYSICAL-MECHANICAL CHARACTERISTICS OF THE BERRY IN ORDER TO IMPROVE THE QUALITY OF WINES

*Catania, P.*

**P-036**

**1178790**

ANALYSIS OF THE LEAF DEPOSIT IN CHEMICAL DISTRIBUTION ON VINEYARD IN DIFFERENT WIND CONDITIONS

*Carrara, M.*

**P-037**

**1178527**

THE EVALUATION OF MECHANICAL BEDDING PERFORMANCES OF BALE STRAW DISTRIBUTOR FOR LIVESTOCK

*Bisaglia, C.*

**P-038**

**1178398**

EFFECT OF VARIOUS SLICE THICKNESSES ON DRYING APPLE

*Ertekin, C.*

**P-039**

**1178219**

MODEL VALIDATION FOR THE HEAT AND MASS TRANSFER IN THE MIXED-FLOW GRAIN DRYER

*Kocsis, L.*

**P-040**

**1178208**

VIN-MET DATABASE MANAGEMENT SYSTEM FOR VITICULTURAL CLIMATE CHANGE RESEARCH

*Szenteleki, K.*

**P-041**

**1178190**

EVALUATION OF FRESH-CUT SALADS ORGANOLEPTIC ASPECTS THROUGH OPTOELECTRONICAL AND PHYSICAL SYSTEMS

*Pallottino, F.*

**P-042**

**1178160**

CEPHA: A SOFTWARE TO DIMENSIONING REINFORCED CONCRETE BEAMS WITH A NON-RECTANGULAR SECTION AND VARIABLE HEIGHT

*Diaz, J.I.*

**P-043**

**1178070**

DIMENSIONING OF FOUNDATION WALLS APPLYING FINITE ELEMENT METHOD

*Aparicio, J.A.*

**P-044**

**1178064**

ANALYSIS OF THE DEFLECTION IN REINFORCED CONCRETE BEAMS OF VARIABLE DEPTH THROUGH EXPERIMENTAL TESTS

*Martinez Montero, J.*

**P-045**

**1178059**

THE EFFECT OF VARIOUS DENSITIES ON THE TREND OF GROWTH, YIELD AND YIELD COMPONENTS OF THREE SOYBEAN (*Glycine Max* (L) Merr.) VARIETIES

*Shamsi, K.*

**P-046**

**1178052**

ANTHROPOMETRIC COMPATIBILITY OF TRACTOR CABIN GUIDE: "SEAT INDEX POINT" ANALYSIS ON TRACTORS OF NEW AND OLD GENERATION WITH A DIFFERENT POWER ENGINE.

*Cecchini, M.*

**P-047**

**1178047**

POSSIBLE MEASURES OF REDUCTION OF AMMONIA AND ODOUR CONCENTRATION IN THE SURROUNDING OF A PIG FARM

*Mueller, H.J.*

**P-048**

**1178020**

SPATIAL VARIABILITY OF SOIL FERTILITY AND WHEAT YIELD FOR THE PRECISION APPLICATION OF NITROGEN

*Gohari, M.*

**P-049**

**1178015**

PROPOSAL OF A METHODOLOGY OF EVALUATION FOR INTEGRATED SYSTEMS: SAFETY, QUALITY AND ENVIRONMENT IN AGROINDUSTRIAL SECTOR

*Cecchini, M.*

**P-050**

**1178014**

REMOTE ENVIRONMENTAL MONITORING SYSTEM (R.E.MO.S.) IN THESAURUS DAM - LAKE (RIVER NESTOS) AND ASSESSMENT OF RESULTS FOR THE YEAR 2004

*Margoni, S.*

- P-051** 1178010  
STORAGE OF VINE AND OLIVE PRUNING: EVALUATION OF TEMPORAL VARIATIONS IN MOISTURE AND CALORIFIC VALUE  
*Porceddu, P.R.*
- P-052** 1177993  
RISK ASSESSMENT AND MANAGEMENT OF REPETITIVE MOVEMENTS IN A SMALL DAIRY IN THE CENTRAL OF ITALY  
*Porceddu, P.R.*
- P-053** 1177991  
DETERMINATION OF WHOLE-WHEAT GRAIN QUALITY BY NEAR-INFRARED REFLECTANCE  
*Arazuri, S.*
- P-054** 1177936  
AN INNOVATIVE SELF-PROPELLED MACHINE FOR SOIL DISINFECTION BY MEANS OF STEAM AND SUBSTANCES IN EXOTHERMIC REACTION.  
*Peruzzi, A.*
- P-055** 1177920  
CHARACTERIZATION OF TWO COGENERATION SYSTEMS AND HYBRID SYSTEM OF SOLAR ENERGY AND BIOMASS  
*Oliveira, C.E.L.*
- P-056** 1177919  
DEVELOPMENT OF A NEW SELF-PROPELLED FLAMING MACHINE FOR TREATMENTS IN URBAN AREAS  
*Peruzzi, A.*
- P-057** 1177911  
APPLICATION OF DISCRETE ELEMENT MODELING (DEM) FOR AGRICULTURAL ENGINEERING  
*Favier, J.*
- P-058** 1177900  
SEASONAL AND SPATIAL VARIABILITY OF NITROGEN, PHOSPHORUS, POTASSIUM, IRON AND MANGANESE IN ALMYROS AREA OF CENTRAL GREECE  
*Golia, E.E.*
- P-059** 1177889  
SPATIAL VARIABILITY OF ARSENIC IN ALMYROS AREA, CENTRAL GREECE  
*Golia, E.E.*
- P-060** 1177868  
USE OF THE VEGETABLE OIL IN ELECTRIC POWER GENERATION  
*Toscano, G.*
- P-061** 1177862  
MECHANICAL AND NIR TECHNIQUES TO ANALYZE CARROT TEXTURE DURING STORAGE  
*Fekete, A.*
- P-062** 1177854  
EVALUATION OF GEOMETRICAL PROPERTIES OF AGGREGATES PROCEEDINGS OF RECYCLED MATERIALS, AND FEASIBLE USE IN RURAL ROAD CONSTRUCTION  
*Agrela Sainz, F.*
- P-063** 1177853  
AN APPROACH TO DISTINGUISH THE TOTAL AND THE EFFECTIVE FOOTPRINT SHAPE IN AGRICULTURAL TYRE  
*Romano, E.*
- P-064** 1177836  
ANALYSIS OF SOME MAIN TRACTOR'S SET-UP INFLUENCING OPERATOR'S COMFORT  
*Cutini, M.*
- P-065** 1177833  
SPATIAL DISTRIBUTION OF ODOUR IN PIG FARMS IN SPAIN: A PRELIMINARY STUDY  
*Ubeda, Y.*
- P-066** 1177666  
OBJECTIVE: SAFETY IN AGRICULTURE. STUDY OF SOLUTIONS FOR WINE-PRODUCING SECTOR  
*Cividino, S.*
- P-067** 1177661  
THEORETICAL ANALYSES OF ENERGY-PURPOSE BIOMASS STRUCTURES  
*Szabo, I.*

### Session: Automation Technology I (55)

Type: Papers - Oral Presentation  
Date: Monday, June 23, 2008  
Time: 15:00 - 17:00  
Room: Hermes/Apollon/Orpheas (Main Hall)  
Chairs: Prof. Simon Blackmore,  
Prof. Stavros Vougioukas

- 15:00 OP-370** 1181938  
A SYSTEM USING GNSS TO RECORD SPRAY BOOM MOVEMENT AND ABSOLUTE POSITION UNDER OPERATING CONDITIONS  
*Norremark, M.*
- 15:20 OP-375** 1181505  
EFFECTS OF CAPACITY CONSTRAINTS ON THE MOTION PATTERN OF AN AUTONOMOUS ORCHARD SPRAYER  
*Bochtis, D.D.*
- 15:40 OP-380** 1179746  
AUTONOMOUS NAVIGATION IN A SUGAR BEET FIELD WITH A ROBOT  
*Bakker, T.*
- 16:00 OP-385** 1177623  
VARIABLE SPRAY APPLICATION RATE IN ORCHARDS ACCORDING TO VEGETATION CHARACTERISTICS  
*Balsari, P.*
- 16:20 OP-390** 1177200  
CROP STAND DENSITY PREDICTION USING LIDAR-SENSORS  
*Saeyes, W.*
- 16:40 OP-395** 1176497  
STUDY OF AUTOMATION IMPACT UPON THE PERFORMANCE OF A VOLUMETRIC SCREW DOSING SYSTEM DESTINED FOR AGRO-FOODS BULK SOLIDS  
*Popescu, S.*

### Session: Biogas I (60)

Type: Papers - Oral Presentation  
Date: Monday, June 23, 2008  
Time: 15:00 - 17:00  
Room: Ourania  
Chairs: Prof. Theofanis Gemtos,  
Prof. Robert Kaufmann

- 15:00 OP-400** 1181785  
METHANE AND HYDROGEN PRODUCTION FROM PIG SLURRY IN TWO CSTR REACTORS UNDER MESOPHILIC AND HYPER-THERMOPHILIC TEMPERATURE  
*Kotsopoulos, T.A.*
- 15:20 OP-405** 1177593  
BIOGAS PRODUCTION FROM ENERGY CROPS PRODUCED IN SUSTAINABLE CROP ROTATIONS  
*Leonhartsberger, C.*
- 15:40 OP-410** 1177556  
NEAR-INFRARED-SPECTROSCOPY-ONLINE-MONITORING OF THE BIO-GAS PROCESS  
*Jacobi, H.F.*
- 16:00 OP-415** 1176566  
DETERMINATION OF TRACE COMPOUNDS IN BIOGAS, REFORMATE AND EVALUATION OF ITS EFFECT ON PEM FUEL CELL PERFORMANCE  
*Ellner, J.*
- 16:20 OP-420** 1130243  
METHODS OF PRE-TREATMENT OF LESS FERMENTABLE MATERIAL AND THEIR APPLICABILITY IN ANAEROBIC DIGESTION  
*Budde, J.*

**Session: Equipment in Livestock Housing (65)**

Type: Papers - Oral Presentation  
Date: Monday, June 23, 2008  
Time: 15:00 - 17:00  
Room: Clio

Chairs: Prof. Aad Jongebreur, Dr. Thomas Bartzanas

**15:00 OP-425 1178946**

INFLUENCE OF THE DEHAIRING MACHINE IN ABATTOIRS ON THE COMPLETE TRACEABILITY OF FATTENING PIGS FROM BIRTH TO POST-SLAUGHTER  
*Burose, F.*

**15:20 OP-430 1141854**

THE REQUIREMENTS FOR CLEANING POULTRY TRANSPORT CRATES AND METHODS FOR SYSTEM IMPROVEMENT  
*Tinker, D.*

**15:40 OP-435 1177998**

QUALITY OF MIXING OF A SELF-PROPELLED SELF-LOADING MIXER FEEDER FOR PREPARATION OF COMPOUND FEEDINGSTUFFS IN COMMERCIAL FEED MILL  
*Cavallo, E.*

**16:00 OP-440 1177360**

PERFORMANCE OF A MECHANICAL-CHEMICAL SEPARATOR FOR ANIMAL LIQUID MANURES -FIRST RESULTS  
*Balsari, P.*

**16:20 OP-445 1177195**

EFFECT OF USING A MOVABLE MANGER BOARD ON FEED INTAKE, MILK YIELD, WORK ECONOMICS AND ECONOMICS IN DAIRY FARMING  
*Nydegger, F.*

**16:40 OP-450 1176474**

A SIMULATED COMPARISON BETWEEN INVESTMENT AND LABOUR REQUIREMENTS FOR A CONVENTIONAL MIXER FEEDER WAGON AND AN AUTOMATED TOTAL MIXED RATION SYSTEM  
*Bisaglia, C.*

**Session: Biomass Production I (70)**

Type: Papers - Oral Presentation  
Date: Monday, June 23, 2008  
Time: 15:00 - 17:00  
Room: Polymnia

Chairs: Prof. George Nanos, Prof. Jaime Ortiz-Canavate

**15:00 OP-455 1178019**

ENERGY CONSUMPTION PATTERN OF WHEAT PRODUCTION IN NORTH OF AHWAZ-IRAN  
*Bakhoda, H.*

**15:20 OP-460 1177834**

THE POTENTIAL OF VEGETATIVE BIOMASS AND TECHNOLOGIES OF PREPARATION FOR UTILIZATION OF BIOMASS FOR ENERGY PURPOSES IN LITHUANIA  
*Dravininkas, A.*

**15:40 OP-465 1176876**

EFFECTIVE BIOMASS USE IN SOUTH-EASTERN ASIA, POTENTIAL PRODUCTION AND UTILIZATION SITUATION  
*Yoshiyuki, Y.S.*

**16:00 OP-470 1131825**

ARABLE LAND SUITABILITY ANALYSIS FOR BIOENERGY PRODUCTION USING GIS IN GLOBAL SCALE  
*Hong, E.M.*

**16:20 OP-475 1131561**

MATHEMATICAL ALGORITHM TO TRANSFORM DIGITAL BIOMASS DISTRIBUTION MAPS INTO LINEAR PROGRAMMING NETWORKS IN ORDER TO OPTIMIZE BIO-ENERGY DELIVERY CHAINS  
*Velazquez-Marti, B.*

**16:40 OP-480 1182806**

MAXIMIZING OILSEED RAPE'S YIELD  
*Mitsis, T.*

**Session: Milking and Dairy Products (75)**

Type: Papers - Oral Presentation  
Date: Monday, June 23, 2008  
Time: 15:00 - 17:00  
Room: Erato

Chairs: Dr. Florentino Juste, Dr. Franz-Josef Bockisch

**15:00 OP-485 1177574**

ASSESSMENT OF TEATCUP CLUSTER VACUUM RECORDS IN MACHINE MILKING  
*Ronningen, O.*

**15:20 OP-490 1176437**

POTENTIAL OF VISIBLE AND NEAR INFRARED SPECTROSCOPY TO DIFFERENTIATE EWES MILK OF DIFFERENT GENOTYPES AND FEEDING SYSTEMS  
*Mouazen, A.*

**15:40 OP-495 1144641**

WET AND DYNAMIC TESTS IN CONVENTIONAL AND SINGLE TUBE MILKING CLUSTERS  
*Rose, S.*

**16:00 OP-500 1109604**

MILK COMPOSITION AS A TOOL FOR MILK QUALITY CONTROL, REPRODUCTION AND FEEDING MANAGEMENT  
*Haeussermann, A.*

**Session: Energy Efficiency I (80)**

Type: Papers - Oral Presentation  
Date: Monday, June 23, 2008  
Time: 15:00 - 17:00  
Room: Kalia

Chairs: Prof. Istvan Farkas, Prof. Giovanni Riva

**15:00 OP-505 1188017**

A NEW APPROACH FOR TRAINING OF BUILDING ENERGY MANAGERS AND USERS IN SUSTAINABLE ENERGY  
*Fara, L.*

**15:20 OP-510 1176854**

AN INTEGRATED BARN-BIOFILTER-GREENHOUSE SYSTEM  
*Mahmood, K.*

**15:40 OP-515 1156180**

INVESTIGATION OF THE ENERGY EXCHANGE IN A POULTRY FARM WITH TUNNEL VENTILATION  
*Evstatiev, B.I.E.*

**16:00 OP-520 1156074**

DIFFERENT TILLAGE SYSTEMS ENERGY COMPARISON IN WHEAT PRODUCTION  
*Tabatabaefar, A.*

**16:20 OP-525 1142908**

ON-FARM ENERGY USE PATTERN AND ENERGY BALANCE IN SUGARCANE PRODUCTION INDUSTRY, SOUTH OF IRAN  
*Nasirian, N.*

**Session: Hydrology I (85)**

Type: Papers - Oral Presentation  
Date: Monday, June 23, 2008  
Time: 15:00 - 17:00  
Room: Melpo

Chairs: Prof. Bill Day, Prof. Dimitris Papamichail

**15:00 OP-530 1191280**

AN APPLICATION OF A 3-D HYDRODYNAMIC MODEL IN A VERY SHALLOW LAGOON  
*Karantounias, G.*

**15:20 OP-535 1181796**

FUZZY RULE RAIN AND TEMPERATURE PREDICTION FOR WATER

MANAGEMENT OF VOLVI HYDROLOGICAL BASIN

*Mpallas, L.*

15:40 OP-504

1180064

EVALUATION OF ALTERNATIVE SCENARIOS OF WATER RESOURCES MANAGEMENT AND CROP PATTERNS IN LAKE KARLA BASIN THROUGH EMERGY ANALYSIS

*Bakalianos, D.*

16:00 OP-545

1179950

INVESTIGATION OF GROINS EFFECT ON SCOUR OF RIVER BENDS BY A PHYSICAL MODEL

*Barani, G.A.*

### Session: Livestock Environment Aerial Quality I (90)

Type: Papers - Oral Presentation

Date: Monday, June 23, 2008

Time: 15:00 - 17:00

Room: Thalia

Chairs: Prof. Daniel Berckmans, Dr. Bernd Linke

15:00 OP-550

1177111

EFFECT OF ENVIRONMENTAL DEFLECTOR ON AIR EXCHANGE IN SLURRY PIT AND CONCENTRATION DISTRIBUTION IN A TWO-DIMENSIONAL VENTILATION CHAMBER

*Zhang, G.*

15:20 OP-555

1155987

DEVELOPING OF A TURNING TRACTOR FRONT LINKAGE

*Niskanen, H.*

15:40 OP-560

1137654

APPLICATION OF WIDE RANGE AEROSOL SPECTROMETER TO SPECIFY PARTICULATE EMISSIONS FROM ANIMAL HUSBANDRY FROM 5 NANO METER TO 20 MICROMETER

*Schneider, F.*

16:00 OP-565

1133821

TIME DELAY FOR AERIAL AMMONIA CONCENTRATION MEASUREMENTS IN LIVESTOCK BUILDINGS

*Rom, H.B.*

16:20 OP-570

1180195

PARTIAL AIR CLEANING - SIMULATION OF ANNUAL AMMONIA EMISSION FROM A PIG HOUSE BY CLEANING ONLY PART OF THE EXHAUST AIR

*Kai, P.*

16:40 OP-575

1178262

TREATMENT OF LIVESTOCK ODOR AND PATHOGENS WITH ULTRAVIOLET PHOTOCATALYSIS

*Koziel, J.*

### Session: Structural Design and Construction Materials I (95)

Type: Papers - Oral Presentation

Date: Monday, June 23, 2008

Time: 15:00 - 17:00

Room: Eferpi

Chairs: Prof. Francisco Ayuga,  
Dr. Peter Groot Koerkamp

15:00 OP-580

1179669

ANALYSES OF DONKEY BREEDING BUILDINGS TO DEFINE NEW PLANNING CRITERIA

*Lanteri, P.*

15:20 OP-585

1178540

MECHANICAL REFURBISHMENT OF SOLID CONCRETE FLOOR SURFACES: DEVELOPMENT AND EVALUATION OF NEW METHODS

*Steiner, B.*

15:40 OP-590

1178239

BIOLOGICAL PROTECTION OF EARTHEN STRUCTURES IN THE PROCESS OF ROADS BUILDING AND EXPLOITATION

*Eymontt, A.*

16:00 OP-595

1177436

ANALYSIS OF LINES AND FORMS OF AGROINDUSTRIAL BUILDINGS: A PHOTO-ANALYTICAL APPROACH TO LANDSCAPE INTEGRATION

*Montero Parejo, M.J.*

### Session: Information Systems and Precision Agriculture (Water Supply) (100)

Type: Papers - Oral Presentation

Date: Monday, June 23, 2008

Time: 17:10 - 18:30

Room: Hermes/Apollon/Orpheas (Main Hall)

Chairs: Dr. Spyros Fountas, Dr. Nikolaos Katsoulas

17:10 OP-600

1185220

WIRELESS SENSORS NETWORKS AND DECISION SUPPORT FOR IRRIGATION SCHEDULING

*Sigrimis, N.*

17:30 OP-605

1179896

REDUCING PESTICIDE-RELATED WATER POLLUTION BY THE USE OF EMBEDDED INFORMATION AND COMMUNICATION TECHNOLOGIES

*Bellon Maurel, V.*

17:50 OP-610

1177162

SENSITIVITY OF AIRBORNE-DERIVED CROP STRESS INDICES TO THE AGRICULTURAL PRACTICES

*Begue, A.*

18:10 OP-615

1128222

SITE-SPECIFIC WATER AND CHEMICAL APPLICATION BY WIRELESS VALVE CONTROLLER NETWORK

*Delwiche, M.*

### Session: Biofuels I (105)

Type: Papers - Oral Presentation

Date: Monday, June 23, 2008

Time: 17:10 - 18:30

Room: Ourania

Chairs: Prof. Gerasimos Martzopoulos,  
Dr. Bernd Linke

17:10 OP-616

1132024

BIOENERGY VIA GASIFICATION/COMBUSTION FOR SPACE HEATING OF A BROILER HOUSE. STUDY ON THERMAL COMFORT, AIR QUALITY AND ENERGY SAVINGS

*Silva, J.N.*

17:30 OP-617

1129791

CORN UTILIZATIONS IN A FAMILY-BOILER: GREENHOUSE EMISSIONS, ECONOMIC ESTIMATION AND ENERGY ASSESSMENT

*Gubiani, R.*

17:50 OP-618

1145533

SUNFLOWER: FARM TO OIL

*Kalavriotou, P.*

### Session: Aqua Culture (110)

Type: Papers - Oral Presentation

Date: Monday, June 23, 2008

Time: 17:10 - 18:30

Room: Clio

Chairs: Prof. George Pantazis,  
Prof Chryssoula Nikita-Martzopoulou

17:10 OP-620

1176678

CAN FISH BE TRAINED AND REMEMBER ?

*Zion, B.*

17:50 OP-630

1131237

WATER HEATING TO ENHANCE FISH GROWTH. IS IT JUSTIFIED?

*Seginer, I.*



### Session: Biomaterials (115)

Type: Papers - Oral Presentation  
Date: Monday, June 23, 2008  
Time: 17:10 - 18:30  
Room: Polymnia

Chairs: Prof. George Nanos, Dr. Evelia Schettini

17:10 OP-635

1180658

FIBRE BOARDS MADE OF WET PRESERVED HEMP AND NATURAL BINDER  
*Radosavljevic, L.R.*

17:30 OP-640

1175820

STUDY OF MAIZE STARCH BASED TERMOPLASTICS WITH DIFFERENT  
AMYLOSE AND AMYLOPECTIN RATIO USING COMMERCIAL EXTRUDING  
AND INJECTION MULDING PROCESS  
*Kovacs, A.J.K.*

17:50 OP-645

1131596

PROCESSING OF HEMP - FROM CROP TO HIGH VALUE FIBRE BOARDS  
*Pecenka, R.*

### Session: Livestock Environment Aerial Quality II (120)

Type: Papers - Oral Presentation  
Date: Monday, June 23, 2008  
Time: 17:10 - 18:30  
Room: Erato

Chairs: Prof. Theofanis Gemtos, Dr. Pierre Grenier

17:10 OP-650

1149505

AMMONIA AND ODOUR EMISSION FROM A BROILER HOUSE WITH A  
LITTER-DRYING VENTILATION SYSTEM  
*Groot Koerkamp, P.W.G.*

17:30 OP-655

1145873

ASSESSMENT OF FATTENIG RABBITS CARBON DIOXIDE EMISSIONS BY  
USING A FLUX CHAMBER  
*Estelles, F.*

17:50 OP-660

1131420

AMMONIA EMISSION IN A SCALE MODEL OF A GROWING / FINISHING PIG  
HOUSE  
*Ye, Z.Y.*

### Session: Irrigation I (125)

Type: Papers - Oral Presentation  
Date: Monday, June 23, 2008  
Time: 17:10 - 18:30  
Room: Kalia

Chairs: Prof. Maria Sakellariou-Markantonaki,  
Prof. Konstantinos Tsatsarelis

17:10 OP-665

1191312

APPLICATION OF CONTEMPORARY TECHNIQUES IN THE MANAGEMENT  
OF LAND RECLAMATION PROJECTS AND WATER RESOURCES  
*Karantounias, G.*

17:30 OP-670

1181569

WATER SAVING BY USING MODERN IRRIGATION METHODS  
*Sakellariou-Makrantonaki, M.*

17:50 OP-675

1178936

EVALUATION OF THE WATER BALANCE AND THE SOIL AND PONDING  
WATER TEMPERATURE IN PADDY-RICE FIELDS WITH THE MODIFIED  
GLEAMS MODEL  
*Aschonitis, V.A.*

18:10 OP-680

1178201

INFORMATION SYSTEM FOR ASSESSING SUITABILITY OF WATER FOR  
IRRIGATION DEPENDING ON ITS QUALITY  
*Dimitrov, P.*

### Session: Waste Processing (130)

Type: Papers - Oral Presentation  
Date: Monday, June 23, 2008  
Time: 17:10 - 18:30  
Room: Melpo

Chairs: Prof. Vassilis Antonopoulos,  
Dr. Eberhard Hartung

17:10 OP-685

1176615

CHARACTERIZATION OF THE CHANGU AND CHIMATO COMPOSTING  
SYSTEMS PRACTICED BY SMALLHOLDER FARMERS IN MALAWI  
*Nalivata, P.C.*

17:30 OP-690

1121585

EFFECT OF AERATION PERIOD ON COMPOSTING PROCESS  
*Kulcu, R.*

17:50 OP-695

1181621

ENVIROMENTAL AND PRODUCTIVE COMPARISON OF GROWING-MEDIA  
OBTAINED BY COMPOSTS OF DIFFERENT ORGANIC WASTES  
*Russo, G.*

### Session: Thermal Environment in Animal Housing (135)

Type: Papers - Oral Presentation  
Date: Monday, June 23, 2008  
Time: 17:10 - 18:30  
Room: Thalia

Chairs: Prof. Nikolaos Sigrimis, Prof. Luigi Bodria

17:10 OP-700

1130458

INFLUENCE OF TEMPERATURE AND HUMIDITY ON DAIRY COW  
BEHAVIOUR IN FREESTALL BARN  
*Provolo, G.*

17:30 OP-705

1125545

PRELIMINARY EVALUATION OF THE SHORT TERM THERMAL COMFORT OF  
DAIRY EWES REARED UNDER GREEK SUMMER CONDITIONS  
*Panagakis, P.*

17:50 OP-710

1104448

USE OF INFRARED THERMOGRAPHY FOR MONITORING BODY TEMPE-  
RATURE IN A POULTRY FLOCK  
*Giloh, M.*

**Tuesday, June 24, 2008**

**Session: Agricultural Production Processing II (140)**

Type: Papers - Oral Presentation  
Date: Tuesday, June 24, 2008  
Time: 08:30 - 11:00  
Room: Hermes

Chairs: Prof. George Papadakis, Prof. Ricardo Guidetti

**08:40 OP-715 1179782**  
A NEW METHOD FOR DETERMINING THE LOWER AND UPPER ANGLES OF REPOSE OF WHEAT SEEDS - A HORIZONTAL ROTATING DRUM  
*Khazaei, J.*

**09:00 OP-720 1179645**  
MODELING THE MASS AND DIMENSIONS DISTRIBUTION OF SUNFLOWER SEEDS AND KERNELS USING WEIBULL DISTRIBUTION FUNCTION  
*Jafari, S.J.*

**09:20 OP-725 1179373**  
MODELING SIZE AND MASS DISTRIBUTIONS OF THREE VARIETIES OF ALMONDS AND THEIR KERNELS USING WEIBULL FUNCTION  
*Mahmoodi, M.*

**09:40 OP-730 1130602**  
EFFECT OF THE SIZE OF PERFORATED SCREEN AND CLEARANCE BETWEEN BLADE AND ROTOR ON THE PERFORMANCE OF ENGLEBERG RICE WHITENER  
*Firouzi, S.*

**10:00 OP-735 1181483**  
A COMPARATIVE STUDY OF THE INFLUENCE OF STORAGE TEMPERATURES ON THE ESTIMATED SHELF LIFE OF PASTEURIZED LIQUID EGG PRODUCTS  
*Diaz Barcos, V.D.B.*

**10:20 OP-740 1131216**  
DEVELOPMENT OF A PEELING MECHANISM FOR PRODUCTION OF WHITE PEPPER AND ITS PERFORMANCE EVALUATION  
*Thirupathi, V.*

**10:40 OP-745 1130502**  
A VISION SYSTEM TO IDENTIFY AFLATOXIN CONTAMINATED CASHEWS, PISTACHIOS AND BRAZIL NUTS  
*Lunadei, L.*

**Session: Information Systems and Precision Agriculture I (145)**

Type: Papers - Oral Presentation  
Date: Tuesday, June 24, 2008  
Time: 08:30 - 11:00  
Room: Apollon

Chairs: Prof. Nikolaos Sigrimis, Dr. Fountas Spyros

**08:40 OP-750 1143217**  
CORN AND SOYA RECOGNITION USING REMOTE SENSING IN DASHT-E-NAZ AGRO-INDUSTRY  
*Ahmadi, H.*

**09:00 OP-755 1179608**  
IMPROVEMENT OF IN-SHELL NUT QUALITY THROUGH MANAGEMENT OF IN-FIELD VARIABILITY  
*Grenier, G.*

**09:20 OP-760 1179447**  
SEED UNIFORMITY OF METERING DEVICES IN A GRAIN DRILL USED AS A VARIABLE-RATE SEEDER  
*Jaafari, M.*

**09:40 OP-765 1178283**  
IMPROVEMENTS OF IMAGE PROCESSING FOR WHEAT EAR COUNTING  
*Journaux, L.*

**10:00 OP-770 1178081**  
ESTIMATION OF YIELD AND PROTEIN CONTENT OF RICE USING REMOTE SENSING IMAGES OBTAINED BY RADIO CONTROLLED UNMANNED HELICOPTER  
*Swain, K.C.*

**10:20 OP-775 1143231**  
SEGREGATING DIFFERENT QUALITIES OF GRAIN DURING HARVESTING  
*Risius, H.*

**Session: Information Systems and Precision Agriculture (Viticulture) (150)**

Type: Papers - Oral Presentation  
Date: Tuesday, June 24, 2008  
Time: 08:30 - 11:00  
Room: Orpheas

Chairs: Prof. Hannu Haapala, Prof. Luigi Bodria

**08:40 OP-785 1143457**  
AGRO LIVING LAB SEINAJOKI  
*Haapala, H.*

**09:00 OP-790 1181615**  
THE USE OF THE GLOBAL POSITIONING SYSTEM IN VITICULTURE  
*Keicher, R.*

**09:20 OP-795 1178109**  
CLIMATE CHANGE IMPACTS ON VITICULTURE - A HUNGARIAN APPROACH  
*Ladanyi, M.*

**09:40 OP-800 1177886**  
POSITION STEERED SOWING OF ROW CROPS - PARALLEL SOWING OF SUGAR BEET  
*Schmittmann, O.*

**10:00 OP-805 1176786**  
DEVELOPMENT OF A SUGAR CANE YIELD MONITOR  
*Price, R.*

**10:20 OP-810 1155931**  
A LOW-COST IDENTIFICATION SYSTEM FOR YIELD MAPPING DURING MANUAL VINE HARVESTING  
*Ampatzidis, Y.*

**10:40 OP-815 1143939**  
OPTICAL AND ANALOGICAL SENSORS FOR CROP MONITORING IN PRECISION VITICULTURE  
*Calcante, A.*

**Session: Structural Design and Construction Materials II (155)**

Type: Papers - Oral Presentation  
Date: Tuesday, June 24, 2008  
Time: 08:30 - 11:00  
Room: Ourania

Chairs: Prof. Daniel Berckmans, Prof. Dimitrios Briassoulis

**08:40 OP-820 1177130**  
MEASUREMENT AND MODELLING OF COMPACTION IN BUNKER SILOS  
*Habler, J.*

**09:00 OP-825 1177120**  
INFLUENCE OF THE STORED MATERIAL AND THE GEOMETRY ON CYLINDRICAL STEEL SILO DESIGN  
*Gonzalez-Montellano, C.*

**09:20 OP-830 1176164**  
ECOLOGICAL STRUCTURES IN DAIRY BARN BUILDINGS  
*Kivinen, T.*

**09:40 OP-835 1175904**  
ANALYSIS OF PRESSURES IN HOPPERS WITH FINITE ELEMENT MODELS  
*Ayuga, F.*

**10:00 OP-840 1175848**  
DESIGN OF FORMWORKS WITH TWO-DIMENSIONAL AND THREE-DIMENSIONAL FINITE ELEMENT MODELS  
*Gallego, E.*

10:20 OP-845

1175828

ROOF BRACING SYSTEMS CALCULATION IN AGROINDUSTRIAL PLANTS  
TAKING INTO ACCOUNT GEOMETRIC IMPERFECTIONS  
*Ferran Gozalvez, J.J.*

### Session: Drying Technology (160)

Type: Papers - Oral Presentation

Date: Tuesday, June 24, 2008

Time: 08:30 - 11:00

Room: Clio

Chairs: Prof. Andras Fekete, Dr. Ze'ev Schmilovitch

08:40 OP-850

1179721

OPERATING CHARACTERISTICS OF A HIGH-EFFICIENCY PILOT-SCALE  
CORN DISTILLERS GRAIN DRYER  
*Bern, C.J.*

09:00 OP-855

1178384

DRYING KINETICS OF SUNFLOWER (*Helianthus annuus* L.) PETALS:  
MATHEMATICAL AND INTELLIGENT MODELING  
*Khazaei, J.*

09:20 OP-860

1176804

MASS FLOW MEASUREMENTS OF GRAIN IN THE PILOT MIXED-FLOW  
DRYER  
*Kocsis, L.*

09:40 OP-865

1176746

DETERMINATION OF MOISTURE SORPTION ISOTHERM FOR WHOLE  
ALMOND AND ESTIMATE THE BEST APPROPRIATE MODEL  
*Beheshti, B.*

10:00 OP-870

1175657

DRYING CONDITION AND QUALITIES OF SUNFLOWER AND RAPESEED  
*Kanai, G.*

10:20 OP-875

1142316

COLOR DEGRADATION OF TARRAGON (*ARTEMISIA DRACUNCULUS* L.)  
LEAVES DURING DRYING PROCESS  
*Arabhosseini, A.*

10:40 OP-880

1179800

CYCLIC WATER ABSORPTION AND DESORPTION CHARACTERISTICS OF  
THREE VARIETIES OF WOOD  
*Norolahi, S.*

### Session: Information Systems in Farming I (165)

Type: Papers - Oral Presentation

Date: Tuesday, June 24, 2008

Time: 08:30 - 11:00

Room: Polymnia

Chairs: Dr. Antonio Comparetti, Dr. Eberhard Hartung

08:40 OP-885

1175809

DETECTION OF ROTTENNESS CAUSED BY *PENICILLIUM DIGITATUM* IN  
CITRUS SKIN USING A HYPERSPECTRAL COMPUTER VISION SYSTEM  
*Blasco, J.*

09:00 OP-890

1181937

DISCRIMINATION OF WEEDS AND CORN PLANTS BASED ON TEXTURE  
FEATURES  
*Jafari, A.*

09:20 OP-895

1177943

DETERMINATION OF PLANT HEIGHT FOR WEED DETECTION IN  
STEREOSCOPIC IMAGES  
*Piron, A.*

09:40 OP-900

1177116

PLANT AND LEAF ANALYSIS BASED ON 3D RECONSTRUCTION  
*Nielsen, M.*

10:00 OP-905

1176792

SOME TECHNOLOGICALLY CAUSED VARIATIONS IN PLANT GROWING  
CONDITIONS AND WAYS TO ELIMINATE OR COMPENSATE THEM  
*Nugis, E.*

10:20 OP-910

1176468

MULTIVARIATE GEOSTATISTICAL ANALYSIS FOR DELINEATION OF  
MANAGEMENT ZONES USING CROP INDEX  
*Castrignano, A.*

10:40 OP-915

1146151

COLOUR CALIBRATION OF COMPUTER VISION SYSTEMS FOR  
APPLICATIONS IN AGRICULTURAL FOODS  
*Valous, N.A.*

### Session: Manure Management & Waste Water Handling (170)

Type: Papers - Oral Presentation

Date: Tuesday, June 24, 2008

Time: 08:30 - 11:00

Room: Erato

Chairs: Dr. Reiner Brunsch,  
Dr. Vasileios Antonopoulos

08:40 OP-920

1182024

PERSTRUP PIG HOUSE WITH PARTIAL UNDER FLOOR AIR EVACUATION  
AND IN-HOUSE SEPARATION OF FAECES AND URINE  
*Pedersen, P.*

09:00 OP-925

1176127

ENVIRONMENTAL LOAD DUE TO PM AND AMMONIA EMISSIONS FROM A  
TURKEY HOUSE-A PERENNIAL CASE STUDY  
*Hinz, T.*

09:20 OP-930

1156525

NITROGEN, PHOSPHORUS AND CARBON EXCRETION AND LOSSES IN  
GROWING PIGS FED DANISH OR ASIAN DIETS  
*Prapasongsa, T.*

09:40 OP-935

1146159

PIG SLURRY SEPARATION for ON-FARM WATER REUSE  
*Suay, R.*

10:00 OP-940

1123957

MATHEMATICAL MODELING AND SPARK MAPPING FOR CONSTRUCTION OF  
AEROBIC TREATMENT SYSTEMS AND THEIR MANURE HANDLING SYSTEM  
*Samer, M.*

### Session: Quality Assessment (175)

Type: Papers - Oral Presentation

Date: Tuesday, June 24, 2008

Time: 08:30 - 11:00

Room: Kalia

Chairs: Prof. Enrique Molto, Dr. George Xanthopoulos

08:40 OP-950

1145894

DIGITAL-CHEMO OPTIC SYSTEM FOR OPTIMIZING PREDICTIONS OF BEST  
HARVESTING DATE OF OLIVES BY OIL CONTENT  
*Ram, T.*

09:00 OP-955

1132949

DESIGN OF AN INTEGRATED WEB PLATFORM FOR SUPPORTING LIQUID  
FOOD TRACEABILITY  
*Manikas, M.J.I.*

09:20 OP-960

1177778

NIR ANALYSIS OF APPLES BY SPECTRA'S GRAVITY CENTER  
*Schmilovitch, Z.*

09:40 OP-965

1155774

NONDESTRUCTIVE DETERMINATION OF SOLUBLE SOLID CONTENTS FOR  
WATERMELON USING OPTICAL CHARACTERISTICS  
*Lee, K.J.*

**Session: Power and Machinery Tractors II (180)**

Type: Papers - Oral Presentation  
Date: Tuesday, June 24, 2008  
Time: 11:30 - 13:30  
Room: Hermes

Chairs: Dr. Martin Kremmer, Dr. Stefan Bottinger

**11:30 OP-980 1176846**

INVESTIGATING PERFORMANCE OF DIFFERENT TRACTOR AIR CLEANERS BY USING CONDITION MONITORING METHOD IN TILLAGE OPERATION  
*Javadi, A.*

**11:50 OP-985 1145685**

THE EFFECT OF THE ADDITIONAL SLIP ON THE SELF PROPELLING POWER OF FOUR WHEEL DRIVE TRACTOR  
*Hudoba, Z.*

**12:10 OP-990 1132665**

COMPACTION CAPACITY RATING OF AGRICULTURAL TYRES - FURTHER VERIFICATION  
*Prikner, P.*

**12:30 OP-995 1130756**

MEASUREMENT OF TENSILE FORCE USING ELECTRO-HYDRAULIC HITCH CONTROL OF TRACTORS  
*Kroulik, M.*

**12:50 OP-1000 1129790**

A ROLLOVER INDICATOR DEDICATED TO ALL-TERRAIN VEHICLES INCLUDING SLIDING EFFECTS AND PILOT BEHAVIOR  
*Bouton, N.*

**13:10 OP-1005 1127417**

CAD BASED DYNAMIC MODELLING OF A TYPICAL SPRAY BOOM AND ITS SUSPENSION SYSTEM  
*Reed, J.*

**Session: Tillage and Seeding II (185)**

Type: Papers - Oral Presentation  
Date: Tuesday, June 24, 2008  
Time: 11:30 - 13:30  
Room: Apollon

Chairs: Prof. Andras Fekete, Dr. Nikolaos Katsoulas

**11:30 OP-1010 1177719**

OPTIMIZING SOIL IMPLEMENT INTERACTION USING THE DISCRETE ELEMENT METHOD  
*Asaf, Z.*

**11:50 OP-1015 1177306**

EXPERIMENTAL TESTS OF THE DISCHARGING PROFILE FOR GEOMETRIC VARIABLE DESIGN SCREW FEEDERS USED FOR AGRO-FOOD BULK SOLIDS  
*Ola, D.C.*

**12:10 OP-1020 1176275**

MACHINE TECHNIQUE FOR RIDGE TILLAGE OF MAIZE  
*Kristensen, E.F.*

**12:30 OP-1025 1177154**

LOW ENERGY AND LOW COST EQUIPMENT FOR CONSERVATION AGRICULTURE CROP PLANTING AND WEED CONTROL  
*Meikle, G.*

**12:50 OP-1030 1177055**

ENERGY SAVING WITH VIBRATED SHARE OF THE TILLAGE TOOLS  
*Fenyvesi, L.*

**Session: Biofuels II (190)**

Type: Papers - Oral Presentation  
Date: Tuesday, June 24, 2008  
Time: 11:30 - 13:30  
Room: Orpheas

Chairs: Prof. Giovanni Riva, Prof. George Papadakis

**11:30 OP-1040 1326441**

LIFE CYCLE ASSESSMENT FOR BIODIESEL UNDER THE GREEK CLIMATE CONDITIONS  
*Tsoutsos, T.*

**11:50 OP-1045 1191375**

INJECTOR PROTRUSION IMPACT ON AN AGRICULTURAL TRACTOR ENGINE PERFORMANCE USING SUNFLOWER OIL BLENDS WITH DIESEL AS FUEL  
*Balafoutis, A.*

**12:10 OP-1050 1181593**

POTENTIALS AND MULTI-CRITERIA ASSESSMENT OF SMALL SCALE CHP PLANTS FIRED BY ENERGY CROPS IN PUGLIA REGION (ITALY)  
*Pantaleo, A.M.*

**12:30 OP-1055 1178358**

DEVELOPMENT OF A PLANT OIL PRESSURE STOVE  
*Muller, J.*

**12:50 OP-1060 1177906**

EVALUATION OF SOLID BIOMASS FOR ENERGY USE IN RELATION TO THE ASH QUALITATIVE AND QUANTITATIVE CHARACTERISTICS  
*Corinaldesi, F.*

**13:10 OP-1062 1132037**

EFFICIENCY AND EMISSION OF BIOMASS BOILER PLANTS IN SERBIA  
*Brkic, M.*

**Session: Fruit and Vegetable Cultivation Systems I (195)**

Type: Papers - Oral Presentation  
Date: Tuesday, June 24, 2008  
Time: 11:30 - 13:30  
Room: Ourania

Chairs: Prof. Kittas Constantinos, Dr. Victor Alchanatis

**11:30 OP-1065 1181459**

SUPERVISION OF OVOPRODUCTS SPOILAGE WITH RED LED LIGHT  
*Correa, E.C.*

**11:50 OP-1070 1185200**

MODEL-BASED MANAGEMENT OF SALT ACCUMULATION IN A TOMATO CROP GROWN IN CLOSED-CYCLE HYDROponic SYSTEMS  
*Savvas, S.D.*

**12:10 OP-1075 1178091**

INFLUENCES OF IRRIGATION SCHEDULES AND SUBSTRATES ON FRUIT QUALITY OF TOMATO (CV. HAMRA) IN SOILLESS CULTURE  
*Shahinrokhsar, P.*

**12:30 OP-1085 1176877**

POTENTIAL HEAT STORAGE IN THE FLOOR OF AN INTEGRATED BARN-BIOFILTER-GREENHOUSE SYSTEM  
*Mahmood, K.*

**Session: Ergonomics, Safety and Health II (200)**

Type: Papers - Oral Presentation  
Date: Tuesday, June 24, 2008  
Time: 11:30 - 13:30  
Room: Clio

Chairs: Dr. Carlo Bisaglia, Dr. Miltiadis Hiskakis

**11:30 OP-1095 1176368**

ESTIMATION OF DUSTINESS OF STRAWS AND DUST EXPOSURE  
*Takai, H.T.*

**11:50 OP-1100 1176276**

FARMERS PROTECTION AGAINST HAZARDOUS CHEMICALS  
*Hinz, T.H.*

**12:10 OP-1105 1175781**

TAKING INTO ACCOUNT HUMAN FACTORS TO IMPROVE AGRICULTURAL EQUIPMENT SAFETY  
*Tricot, N.*

12:30 OP-1110

1156423

MEASURING THE WORK LOAD IN MILKING PARLOURS REGARDING DIFFERENT ERGONOMIC SETTINGS  
*Jakob, M.*

12:50 OP-1115

1142531

ANALYSIS AND ASSESSMENT OF WORKLOAD IN DIFFERENT MILKING SYSTEMS USING CUELA  
*Kauke, M.*

13:10 OP-1120

1130420

ASSESSMENT OF RURAL AMENITY RESOURCES IN SOUTH KOREA BASED ON INFORMATION  
*Lee, J.M.*

### Session: Non Saturated Flow (205)

Type: Papers - Oral Presentation

Date: Tuesday, June 24, 2008

Time: 11:30 - 13:30

Room: Polymnia

Chairs: Prof. Vasileios Antonopoulos, Prof. Bill Day

11:30 OP-1121

1181835

WATER INFILTRATION IN A CLAY LOAM SOIL WITH A RESIDUE MANAGEMENT SCHEME UNDER CONTINUOUS CORN-BARLEY CROP ROTATION PLAN IN CENTRAL IRAN  
*Razavi, J.*

11:50 OP-1122

1181810

FUZZY ANALYSIS OF INFILTRATION PROBLEM  
*Evangelides, C.*

12:10 OP-1123

1181549

CUMULATIVE INFILTRATION OF WATER AT A LAYERED SOIL SAMPLE  
*Angelaki, A.*

12:30 OP-1124

1135683

A TENSION INFILTRATING IRRIGATION SYSTEM: KEY TECHNOLOGIES  
*Xue, X.U.E.*

12:50 OP-1125

1131987

NITRATE LEACHING PREDICTION UNDER FREE DRAINAGE IN A VULNERABLE ZONE: USE OF TENSION INFILTRATOR AND RZWQM98 FOR TWO DOMAIN APPROACH  
*Santos, D.V.*

### Session: Materials for Protected Cultivation (210)

Type: Papers - Oral Presentation

Date: Tuesday, June 24, 2008

Time: 11:30 - 13:30

Room: Erato

Chairs: Prof. Eldert van Henten, Dr. Antonis Mistriotis

11:30 OP-1145

1180374

EXPERIMENTAL INVESTIGATION OF THE ENERGY NEEDS FOR A CONVENTIONALLY AND AN INFRARED (IR)-HEATED GREENHOUSE  
*Kavga, A.K.*

11:50 OP-1150

1179933

EXPERIMENTAL AND NUMERICAL ANALYSIS OF THE AIRFLOW AROUND A RAISED PERMEABLE PANEL  
*Giannoulis, A.*

12:10 OP-1155

1179866

STUDY OF ULTRAVIOLET RADIATION TRANSMISSION OF UV-BLOCKING GREENHOUSE COVER MATERIALS DURING TIME  
*Kittas, C.*

12:30 OP-1160

1176062

REMOTE SENSING AND THEMATIC MAPPING OF PROTECTED CULTIVATION IN SOUTHERN ITALY AGRICULTURAL LANDSCAPES  
*Picuno, P.*

12:50 OP-1165

1137642

INFLUENCE OF THE RADIOMETRIC CHARACTERISTICS OF INNOVATIVE PHOTOSELECTIVE AND PHOTOLUMINESCENT PLASTIC FILMS ON THE GROWTH OF FRUIT TREES  
*Schettini, E.*

13:10 OP-1170

1136567

A NUMERICAL MODEL TO ESTIMATE THE RADIOMETRIC PERFORMANCE OF NET COVERED STRUCTURES (AGRONETS)  
*Hemming, S.*

### Session: Analysis of Ventilation Systems in Animal Housing I (215)

Type: Papers - Oral Presentation

Date: Tuesday, June 24, 2008

Time: 11:30 - 13:30

Room: Kalia

Chairs: Prof. Francisco Ayuga, Prof. Nikolaos Sigrimis

11:30 OP-1175

1180664

A COMPUTATIONAL FLUID DYNAMICS APPROACH TO PREDICTING THE VENTILATION EFFICIENCY AND THERMAL COMFORT IN NATURALLY VENTILATED LIVESTOCK BUILDINGS  
*Norton, T.*

11:50 OP-1180

1180650

VISUALIZATION OF FORCED VENTILATION IN ANIMAL HOUSES BY MEANS OF STREAM TUBES  
*Krause, K.H.K.*

12:10 OP-1185

1177503

INVESTIGATION OF CLIMATIC PARAMETERS AND AMMONIA EMISSION IN DIFFERENT NATURALLY VENTILATED BARNS FOR DAIRY COWS  
*Mueller, H.J.*

12:30 OP-1190

1176244

COMPUTATIONAL FLUID DYNAMICS STUDY ON THE INFLUENCE OF AIRFLOW PATTERNS ON CARBON DIOXIDE DISTRIBUTION IN A SCALED LIVESTOCK BUILDING  
*Rong, L.*

12:50 OP-1195

1156455

IMPROVING THE PERFORMANCE OF VENTILATION IN LARGE FARM BUILDINGS IN COLD CLIMATE  
*Heimonen, I.*

### Session: Poster Session 2 (216)

Type: Papers - Poster Presentation

Date: Tuesday, June 24, 2008

Time: 11:00 - 17:10

Room: Poster Area

Remarks: Poster Session 2

Mounting 08:00 - 08:30

Removal 18:30 - 19:00

Poster Number Range (P- 068 to P-134)

P-068

1177658

RESEARCH FOR CLIMATE PROTECTION: TECHNOLOGICAL OPTIONS FOR MITIGATION (RECLIP:TOM)  
*Amon, B.*

P-069

1177630

BIOENERGY PLANNING, PUTTING IN FUNCTION AND MANAGEMENT OF PILOT SYSTEMS FOR FOREST BIOMASSES USE  
*Casali, P.*

P-070

1177589

SHORT TERM EXPERIMENT WITH DIFFERENT SOIL TILLAGE SYSTEMS IN PRODUCTION OF WINTER BARLEY AND MAIZE IN POSAVINA, CROATIA  
*Kosutic, S.*

P-071

1177562

IN-DEPTH PRIMARY SOIL TILLAGE WITHOUT INVERTING: COMPARISON OF THE OPERATIVE PERFORMANCES OF THREE SUBSOILERS  
*Fanigliulo, R.*

P-072

1177529

ASSESSMENT OF VIBRATION INFLUENCE ON COMFORT LEVEL OF AN AGRICULTURAL NARROW TRACTOR IN VINEYARD OPERATIONS  
*Cutini, M.*



- P-073** 1177485  
METHODS OF EVALUATING THE PERFORMANCE OF TRACTORS IN LAND-LEVELING  
*Zannis, K.P.Z.*
- P-074** 1177483  
DEVELOPMENT OF A PORTABLE NEAR-INFRARED SPECTROMETER FOR IN-FIELD OLIVE ANALYSIS  
*Barreiro Elorza, P.*
- P-075** 1177471  
HARVESTING ORANGES CV. SALUSTIANA WITH A TRUNK SHAKER  
*Torregrosa, A.*
- P-076** 1177466  
EXPERIMENTAL EVALUATION OF COMFORT IMPROVEMENTS IN AGRICULTURAL VEHICLES THROUGH FOUR-POSTER TEST BENCH  
*Cutini, M.*
- P-077** 1177426  
AN ANALYSIS OF PERFORMANCE QUALITY OF A SUGAR-BEET HARVESTER  
*Przybyl, J.*
- P-078** 1177408  
REUSE OF PURIFIED WASTE WATERS FOR IRRIGATION: THE EXPERIENCE OF THE MARINA BAIXA COUNTY (ALICANTE, SPAIN)  
*Redon Santafe, M.*
- P-079** 1177404  
OPERATING DATA OF THE AGRICULTURAL MACHINES AS SOIL VARIABILITY INDICATORS  
*Sindelar, R.*
- P-080** 1177381  
FRESH GUAVA (PSIDIUM GUAJAVA L.) AND STARFRUIT (AVERRHOA CARAMBOLA L.) POSTHARVEST LIFE IN COLOMBIA. FRUIT PACKING MATERIALS  
*Ortiz, C.*
- P-081** 1177378  
BIOGAS AS A RENEWABLE ENERGY SOURCE WITHIN SUSTAINABLE BIOFUELS BASED BIREFINERY CONCEPTS  
*Leonhartsberger, C.*
- P-082** 1177370  
APPROACH TO THE DETERMINATION OF STRUCTURAL LOAD MODELS IN GREENHOUSES "TYPE ALMERIA"  
*Perez, J.*
- P-083** 1177363  
SENSITIVITY ANALYSIS OF TRACTOR VIBRATIONS  
*Dworecki, Z.*
- P-084** 1177343  
EFFECTS OF PLANTING DENSITY ON YIELD AND YIELD COMPONENTS OF THREE SUNFLOWER VARIETIES.  
*Shamsi, K.*
- P-085** 1177341  
COMPARISON BETWEEN SUPERHEATED STEAM AND AIR DRYING OF MUSHROOMS  
*Dimitriadis, A.N.D.*
- P-086** 1177339  
CHARACTERIZATION OF AIRBORNE PARTICULATE MATTER FROM INTENSIVE RABBIT FARMS: CONCENTRATION AND EMISSION  
*Cambrá-Lopez, M.*
- P-087** 1177295  
DEFINITION OF FINANCIAL INDICATORS AS A DECISION-MAKING TOOL FOR REGIONAL AGRICULTURAL PLANNING IN GALICIA, SPAIN  
*Riveiro Valino, J.A.*
- P-088** 1177235  
AUTOMATIC MEASUREMENT OF RUMINATION ACTIVITY WITH THE AID OF A POSITION AND ACCELERATION SENSOR  
*Nydegger, F.*
- P-089** 1177187  
TESTING OF AGRICULTURAL MACHINERY AT CRA-ENGINEERING (ITALY) ACCORDING TO THE ISO/IEC 17025:2005 STANDARD  
*Pochi, P.D.*
- P-090** 1177142  
THE POTENTIAL OF BIOENERGY SYSTEMS CONSIDERING AS EXAMPLE OF SPACIOS AGRICULTURAL STRUCTURES  
*Grau, M.*
- P-091** 1177072  
TESTS ON COMPARISON OF THE OPERATIVE AND QUALITATIVE PERFORMANCES OF THREE PRECISION DRILLS FOR MAIZE SOWING  
*Fanigliulo, R.*
- P-092** 1177041  
PILOT IMPLEMENTATION OF WATER FRAMEWORK DIRECTIVE IN ZGLOWIACZKA RIVER CATCHMENT - BUFFER ZONES EFFECTS  
*Brzozowski, J.*
- P-093** 1177038  
RESPONSE AND ECONOMICS OF POTATO CULTIVATION UNDER DRIP IRRIGATION WITH VARIABLE IRRIGATION FREQUENCY  
*Denis, D.*
- P-094** 1177025  
SIMULATION OF FULLY-AUTOMATIC CROP FARMING IN FINLAND  
*Hakojarvi, M.*
- P-095** 1177023  
DESIGN AND SET-UP OF MIXED-SOLAR TECHNOLOGIES FOR AN INNOVATIVE, LOW TEMPERATURE RICE ACTIVE DRIER-SILO  
*Bisaglia, C.*
- P-096** 1176977  
EFFECT OF PADDY DE-AWNING AND MOISTURE CONTENT ON HUSKING PERFORMANCE OF RUBBER-ROLL HUSKER  
*Alizadeh, M.R.*
- P-097** 1176960  
PHYSICAL AND MECHANICAL PROPERTIES OF IRANIAN BLACK AND WHITE MULBERRY  
*Khoshtaghaza, M.H.*
- P-098** 1176926  
DETECTION OF ARCOBACTER DURING PROCESSING OF VEGETABLES  
*Nettmann, E.*
- P-099** 1176872  
ANALYSIS OF THE STRUCTURAL BEHAVIOR OF EUROPEAN STANDARDIZED MULTISPAN TYPE GREENHOUSES IN THE CONTEXT OF EXPORTING  
*Carreno, A.*
- P-100** 1176795  
DESIGN OF A ESSAY TO EVALUATE THE QUALITY OF THE GRAFT OF TOMATO WHEN THERE ARE APPLIED DIFFERENT TYPES OF ARTIFICIAL LIGHTING  
*Chica Moreno, R.*
- P-101** 1176760  
APPLICATION OF NUMERICAL METHODS TO THE ANALYSIS OF THE STRESS STATE AND THE GEOMETRIC OPTIMIZATION OF TRADITIONAL JOINTS IN TIMBER STRUCTURES  
*Guaita, M.*
- P-102** 1176728  
AUTONOMOUS DESALINATION SYSTEM CONCEPTS FOR SEAWATER AND BRACKISH WATER IN RURAL AREAS WITH RENEWABLE ENERGIES-POTENTIALS, TECHNOLOGIES, FIELD EXPERIENCE, SOCIO-TECHNICAL AND SOCIO-ECONOMIC IMPACTS-ADIRA  
*Mohamed, S.E.*
- P-103** 1176637  
HYBRID RENEWABLE ENERGY SYSTEMS FOR THE SUPPLY OF SERVICES IN RURAL SETTLEMENTS OF MEDITERRANEAN PARTNER COUNTRIES HYRESS PROJECT  
*Mohamed, S.E.*
- P-104** 1176605  
THE MLP TYPE NEURAL NETWORKS IN THE PROCESS OF IDENTIFICATION OF CEREAL GRAIN KERNELS  
*Boniecki, P.*
- P-105** 1176442  
IS LITERATURE ON THE PRESSURE ON FARM TRENCH SILOS WALLS STILL ACCURATE?  
*Vangeyte, J.*

- P-106** 1176428  
16S RDNA AND MCRA BASED ANALYSES OF THE METHANOGENIC ARCHAEA IN AN AGRICULTURAL BIOGAS PLANT REVEALS A PREDOMINATION OF HYDROGENOTROPHIC METHANOGENES  
*Nettmann, E.*
- P-107** 1176304  
REMOTE SYSTEM FOR THE ESTIMATION OF THE FOLIAR AREA IN GREENHOUSES BASED ON MACHINE VISION AND NETWORK CAMERAS  
*Blasco, J.*
- P-108** 1176285  
SOME PHYSICO-MECHANIC PROPERTIES OF UNSPLIT PISTACHIO NUT  
*Khoshtaghaza, M.H.*
- P-109** 1176217  
INFLUENCE OF AMBIENT TEMPERATURE ON THE ENERGY CONSUMPTION OF ELECTRICAL WIRE HEATING IN SAND SUBSTRATES  
*Fernandez, M.D.*
- P-110** 1176089  
DESIGN OF AN ESSAY TO EVALUATE THE QUALITY OF THE CRAFT OF TOMATO UNDER DIFFERENT TYPES OF ARTIFICIAL LIGHTING APPLIED.  
*Chica, R.M.*
- P-111** 1176070  
NOISE RISK EVALUATION IN ELECTRICAL HAND-HELD PICKING MACHINES FOR OLIVE HARVESTING  
*Biocca, M.*
- P-112** 1176069  
CROP RESIDUE AMOUNT AND DISTRIBUTION IN DIRECT SEEDING: INFLUENCE ON EMERGENCE, YIELD AND YIELD COMPONENTS OF SPRING RAPESEED  
*Casquero, P.A.*
- P-113** 1177550  
A NEW TECHNICAL DEVICE FOR THINNING APPLE FRUIT FOR SUSTAINABLE AGRICULTURE  
*Schulze Lammers, P.*
- P-114** 1176012  
DESIGN OF HYDRAULIC PRESSURE TYPE FLOW RATE SENSOR FOR YIELD MAPPING OF ROOT-CROPS  
*Masek, J.*
- P-115** 1175962  
AN APPLICATION OF COLD NEUTRON AND CHLOROPHYLL FLUORESCENCE IMAGING FOR STUDIES ON AUTO-EXHAUST RESISTANCE IN STREET TREES  
*Matsushima, U.*
- P-116** 1175914  
HARVESTING TECHNIQUES FOR SORGHUM BICOLOR IN NORTHERN ITALY  
*Bentini, M.*
- P-117** 1175894  
THE EFFECTS OF PARTICLE SIZE ON THE PROPERTIES OF COMMON CANE (ARUNDO DONAX L.) BOARDS.  
*Garcia Ortuno, T.*
- P-118** 1175890  
BOGBALLE SPREADER TESTING USING FERTILIZERS PRODUCED IN CROATIA  
*Banaj, D.*
- P-119** 1173013  
EFFECTS OF TIRE INFLATION PRESSURE AND FIELD TRAFFIC ON THE COMPACTION OF SANDY-CLAY SOILS  
*Khelifi, M.*
- P-120** 1168832  
MECHANICAL DISTRIBUTION OF THE STINK BUG PERILLUS BIUCULATUS FOR THE BIOLOGICAL CONTROL OF THE COLORADO POTATO BEETLE, LEPTINOTARSA DECEMLINEATA (SAY)  
*Pare, F.*
- P-121** 1168817  
NEURAL NETWORK FOR SIMULATING VENTILATION IN A DAIRY HOUSE  
*Cascone, G.*
- P-122** 1156550  
A STUDY OF PARTICLEBOARD MADE FROM WOOD WASTE PARTICLES AND COMMON CANE (Arundo donax L.) AND UREA FORMALDEHYDE ADHESIVE  
*Ferrandez Garcia, C.E.*

- P-123** 1156491  
THE COMMISSIONING PROCEDURE OF FARM BUILDING PERFORMANCE IN FINLAND  
*Kovanen, K.*
- P-124** 1156357  
ADJUSTMENT OF HERBICIDE DOSE IN SUGAR BEET BASED ON NON-INVASIVE CHLOROPHYLL FLUORESCENCE MEASUREMENTS  
*Klem, K.*
- P-125** 1156198  
USE OF RAW SUNFLOWER OIL AS FUEL IN TRACTORS WITH MODIFIED FUEL SUPPLY SYSTEM  
*Caliceti, M.*
- P-126** 1156193  
LONGITUDINAL STIFFENERS AS A SOLUTION FOR BUCKLING IN AGRICULTURAL STEEL SILOS  
*Moran, J.*
- P-127** 1156030  
PERSPECTIVES OF FARM MECHANIZATION IN THE EAST COASTAL ECOSYSTEM OF INDIA  
*Naik, R.*
- P-128** 1156014  
ENERGETIC ACTIVATION FROM ROOFS FOR BOTH OLD AND NEW BUILDINGS  
*Baum, M.*
- P-129** 1156012  
BATCH TYPE PEELER FOR MULTIPLIER ONION OF SMALL AND MEDIUM PROCESSING INDUSTRIES  
*Naik, R.*
- P-130** 1155768  
DEVELOPMENT OF IN-FIELD SOIL MONITORING SYSTEM BASED ON WIRELESS SENSE NETWORKS  
*Liu, H.*
- P-131** 1146144  
USING INFRARED THERMOGRAPHY TO MONITOR THE EFFECT OF DIFFERENT MILKING VACUUM LEVELS ON TEAT TISSUE IN DAIRY EWES  
*Murgia, L.*
- P-132** 1143622  
DEFINE OF NOZZLE WEAR MODELS AND THEIR SIGNIFICANCE FOR DOMESTIC NOZZLE PRODUCTION  
*Sedlar, A.*
- P-133** 1145773  
DEVELOPMENT OF SEMI AUTOMATIC VEGETABLE TRANSPLANTER FOR INDIAN CONDITIONS  
*Kavitha, R.*
- P-134** 1145578  
DIRECT EFFECTS OF EXTENSIVE MEADOW HARVESTING PROCESSES ON ARTHROPODS  
*Sauter, J.*

**Session: Information Systems and Precision Agriculture II (220)**

Type: Papers - Oral Presentation  
Date: Tuesday, June 24, 2008  
Time: 15:00 - 17:00  
Room: Hermes

Chair: Prof. Peter Schulze Lammers,  
Prof. Stavros Vougioukas

- 15:00 OP-1200** 1146077  
APPLYING PARAMETER OF BODY-SHAPE IN THE AUTOMATION OF CONDITIONING SCORING  
*Halachmi, I.*
- 15:20 OP-1205** 1177241  
USING REDS TO IMPLEMENT A PUBLISH-SUBSCRIBE MIDDLEWARE FOR ONLINE FLEET MANAGEMENT AND PRECISION AGRICULTURE  
*Dobers, R.*
- 15:40 OP-1210** 1177074  
SCIENCE SUPPORT FOR LOCAL FARM ADVISORY SYSTEMS  
*Mayer, W.*

16:00 OP-1215

1135580

PRECISION FARMING IN INDIAN CONTEXT: CURRENT STATUS  
*Mandal, S.K.*

16:20 OP-1220

1131288

AN INNOVATIVE SOFTWARE TOOL FACILITATES MAINTENANCE ESTIMATION OF ARGICULTURAL MACHINERY DIESEL ENGINE  
*Gravalos, I.G.G.*

16:40 OP-1225

1129559

CROPSCOOUT II, A MODULAR MINI FIELD ROBOT FOR RESEARCH ON PRECISION AGRICULTURE  
*Hemming, J.*

### Session: Land Use & Productivity I (225)

Type: Papers - Oral Presentation

Date: Tuesday, June 24, 2008

Time: 15:00 - 17:00

Room: Apollon

Chairs: Prof. Daniele de Wrachien,  
Dr. Franz-Josef Bockisch

15:00 OP-1230

1130838

LANDSCAPE ASSESSMENT ACCORDING TO THE LEVEL OF STUDIES OF THE OBSERVER  
*Ayuga Tellez, E.*

15:20 OP-1235

1348560

REPRESENTATION OF CLIMATIC VARIABLES AND INDICES IN GREECE  
*Baltas, E.*

15:40 OP-1240

1191298

AN INVESTIGATION OF THE USE OF SATELLITE OBSERVATIONS FROM THE ADVANCED VERY HIGH RESOLUTION RADIOMETER(AVHRR) FOR THE MONITORING OF LAND SURFACE AND AIR TEMPERATURES  
*Karantounias, G.*

16:00 OP-1245

1177460

FARM GOVERNANCE AND LANDSCAPE MANAGEMENT  
*Agostini, S.*

16:20 OP-1250

1175834

ENVIRONMENTAL EFFECT ON AGRICULTURAL LAND USE CHANGES  
*Singh, M.K.*

### Session: Livestock Environment Aerial Quality III (230)

Type: Papers - Oral Presentation

Date: Tuesday, June 24, 2008

Time: 15:00 - 17:00

Room: Orpheas

Chairs: Dr. Pierre Grenier, Dr. Peter Groot Koerkamp

15:00 OP-1260

1177679

PHOTOCATALYTIC TiO2 TREATMENT EFFECTS ON AMMONIA, GREENHOUSE GASES, DUST CONCENTRATION AND EMISSION IN A WEANING ROOM  
*Costa, A.*

15:20 OP-1265

1110138

AN AIR CLEANING EFFICIENCIES OF WET AIR CLEANER IN THE SWINE FATTENING HOUSING  
*Oh, I.H.*

15:40 OP-1270

1176794

MEASUREMENT OF AMMONIA EMISSIONS IN NATURALLY VENTILATED CATTLE HOUSINGS WITH AN EXERCISE YARD: SELECTION OF RELEVANT ACCOMPANYING PARAMETERS  
*Schrade, S.*

16:00 OP-1275

1175789

AIR TIGHTNESS AND AMMONIA EMISSIONS FROM COVERED SLURRY STORAGE TANKS  
*Gustafsson, P.J.G.*

16:20 OP-1280

1156427

EMISSION OF ODOROUS COMPOUNDS FROM PIG SLURRY AND THEIR RELATIONSHIPS WITH PERCEIVED ODOUR CONCENTRATIONS  
*Blanes-Vidal, V.*

16:40 OP-1283

1175993

SUSTAINABLE ANIMAL PRODUCTION: FEASIBLE OR MISSION IMPOSSIBLE?  
*Jongebreur, A.A.*

### Session: Harvesting I (235)

Type: Papers - Oral Presentation

Date: Tuesday, June 24, 2008

Time: 15:00 - 17:00

Room: Ourania

Chairs: Dr. Victor Alchanatis, Dr. Dionysis Bochtis

15:00 OP-1285

1179425

STUDY, DESIGN AND DEVELOPMENT OF A LOW-BUDGET PROTOTYPE HARVESTING MACHINE FOR ROMAN CHAMOMILE  
*Vangeyte, J.*

15:20 OP-1290

1178013

FIELD LOSSES, BALE DENSITY, POWER- AND ENERGY REQUIREMENT OF ROUND BALERS WITH VARIABLE CHAMBER  
*Handler, F.*

15:40 OP-1295

1145920

REDUCED LOSSES AND INCREASED CAPACITY BY COMBINE HARVESTING OF WINTER RAPE SEED  
*Lundin, G.*

16:00 OP-1300

1130075

DEVELOPMENT AND TECHNICAL EVALUATION OF A PRICKLY PEAR FRUIT HARVESTER  
*Rossel, D.*

16:20 OP-1305

1126859

TRACTOR DRIVEN CONTINUOUS MOVE HARVESTER FOR SOUR CHERRY  
*Wawrzynczak, P.*

16:40 OP-1310

1122277

MECHANICAL HARVESTING OF LEMONS IN MURCIA-SPAIN  
*Torregrosa, A.*

### Session: Fertilising and Plant Protection II (240)

Type: Papers - Oral Presentation

Date: Tuesday, June 24, 2008

Time: 15:00 - 17:00

Room: Clio

Chairs: Prof. Theofanis Gemtos, Mr. Gunnar Lundin

15:00 OP-1315

1177697

SET UP OF A TEST METHODOLOGY TO ASSESS MISTBLOWER KNAPSACK SPRAYER PERFORMANCES  
*Balsari, P.*

15:20 OP-1320

1177601

IMPROVEMENT OF WEED CONTROL USING STEAM: LABORATORY TESTS ON A CONDENSATION CHAMBER  
*Baldoin, C.*

15:40 OP-1325

1177495

SPRAY DISTRIBUTION FOR DUAL-FAN ORCHARD SPRAYER WITH REVERSED AIR-STREAM  
*Godyn, A.*

16:00 OP-1330

1176752

EFFECTS OF CALCIUM CARBONATE AND WATER CONTENTS ON SHEAR STRENGTH PARAMETERS OF A CLAY SOIL  
*Hemmat, A.*

16:20 OP-1335

1176751

ADJUSTMENT OF AIR JET VELOCITY AND ALTERATION OF NOZZLES ACCORDING TO THE ENVIRONMENTAL CIRCUMSTANCES FOR CROP ADAPTED SPRAY APPLICATION IN ORCHARDS  
*Doruchowski, G.*

16:40 OP-1340

1156523

INFLUENCE OF THE PAST HISTORY OF THE ADDITION OF FERTILIZERS ON THE INTRA FIELD VARIABILITY OF THE RATE OF P AND K IN THE SOIL  
*Llorens, J.M.*

**Session: Hydrology II (245)**

Type: Papers - Oral Presentation  
Date: Tuesday, June 24, 2008  
Time: 15:00 - 17:00  
Room: Polymnia

Chairs: Prof. Guido Wyseure, Dr. Nikolaos Katsoulas

**15:00 OP-1341 1178235**

FIELD EVALUATION OF MIKE-SHE WATERSHED MODEL IN CENTRAL CANADA  
*Prasher, S.*

**15:20 OP-1343 1145704**

DISCHARGE MEASUREMENT VIA DEPTH SCANNING WITH A HORIZONTAL ACOUSTIC DOPPLER CURRENT PROFILER  
*Vougioukas, S.G.V.*

**Session: Energy Efficiency II (250)**

Type: Papers - Oral Presentation  
Date: Tuesday, June 24, 2008  
Time: 15:00 - 17:00  
Room: Erato

Chairs: Prof. Giovanni Riva, Prof. Istvan Farkas

**15:00 OP-1370 1142766**

INDIRECT ENERGY INPUT OF AGRICULTURAL MACHINERY IN ENERGY ANALYSIS  
*Mikkola, H.*

**15:20 OP-1375 1132982**

DEVELOPMENT OF A NEW METHODOLOGY TO OBTAIN THE CHARACTERISTIC PUMP CURVES THAT MAXIMIZE THE ENERGY EFFICIENCY AT PUMPING STATIONS  
*Tarjuelo, J.M.*

**15:40 OP-1380 1131458**

ENERGY EFFICIENCY IN IRRIGATION: CALCULATION APPROACH IN WATER DISTRIBUTION SYSTEM  
*Rocamora Osorio, C.*

**16:00 OP-1385 1127578**

ENERGY EFFICIENCY IN IRRIGATION: ENERGY AUDITS AND QUALIFICATION OF WATER USERS' ASSOCIATIONS  
*Rocamora Osorio, C.*

**Session: Water Quality and Environment I (255)**

Type: Papers - Oral Presentation  
Date: Tuesday, June 24, 2008  
Time: 15:00 - 17:00  
Room: Kalia

Chairs: Prof. George Karantounias, Dr. Giuliano Vox

**15:00 OP-1390 1177717**

TECHNICAL DEFICITS THAT RESTRICT FULL ADOPTION OF BEST MANAGEMENT PRACTICES TO PREVENT LOSSES OF PLANT PROTECTION PRODUCTS TO WATER  
*Roettele, M.*

**15:20 OP-1395 1176379**

FACTS AND REALITIES OF WASTEWATER DISPOSAL AND RAINFED CISTERNS IN THE WEST BANK OF THE PALESTINIAN TERRITORIES  
*Al-Khatib, I.A.*

**15:40 OP-1400 1139682**

EVALUATION OF GROUND WATER TABLE DECLINE AND ITS EFFECT ON GROUNDWATER QUALITY IN SIRJAN WATERSHED  
*Rahnama, M.B.*

**16:00 OP-1405 1131997**

SUBSURFACE DRAINAGE WATER QUALITY IMPACTED BY MANURE APPLICATION  
*Madani, A.*

**16:20 OP-1410 1125746**

AGRICULTURAL USE OF VEGETABLE- AND BIO- WASTE COMPOSTS: EFFECTS ON NITROGEN LEACHING AND CROP PRODUCTION  
*Kokkora, M.I.*

**Session: Biomass Production II (260)**

Type: Papers - Oral Presentation  
Date: Tuesday, June 24, 2008  
Time: 17:10 - 18:30  
Room: Hermes

Chair: Prof. Giacomo Scarascia-Mugnozza,  
Prof. Aad Jongebreur

**17:10 OP-1415 1182758**

POTENTIAL GROWTH AND SEED YIELD OF SUNFLOWER AS AFFECTED BY SOWING TIME, IRRIGATION AND N-FERTILIZATION IN CENTRAL GREECE.  
*Giannoulis, K.*

**17:30 OP-1420 1182613**

EVALUATION AND APPLICATION OF THE BIOKENAF MODEL FOR KENAF PRODUCTION IN SOUTH EUROPE  
*Gintsioudis, I.I.*

**17:50 OP-1425 1182502**

AGRONOMY OF CYNARA CARDUNCULUS L. GROWING IN AN AQUIC SOIL IN CENTRAL GREECE  
*Archontoulis, S.V.*

**Session: Automation in Animal Husbandry II (265)**

Type: Papers - Oral Presentation  
Date: Tuesday, June 24, 2008  
Time: 17:10 - 18:30  
Room: Apollon

Chairs: Prof. Christer Nilsson, Prof. Robert Kaufmann

**17:10 OP-1435 1155911**

ANIMAL PASTURE TIME MONITORING IN THE FIELD USING WIRELESS SENSOR NETWORKS  
*Nadimi, S.*

**17:30 OP-1440 1140096**

A LONGITUDINAL STUDY TO ASSESS THE ROBUSTNESS OF A RETINAL RECOGNITION SYSTEM FOR SHEEP  
*Corkery, G.P.*

**17:50 OP-1441 1177345**

VISION BASED MEASURING DEVICE FOR FAST AND ACCURATE DETERMINATION OF TEAT MORPHOLOGY ON DAIRY FARMS  
*Baert, J.*

**18:10 OP-1450 1124789**

NETWORKS IN LIVESTOCK SYSTEMS  
*Herd, D.*

**Session: Biogas II (270)**

Type: Papers - Oral Presentation  
Date: Tuesday, June 24, 2008  
Time: 17:10 - 18:30  
Room: Orpheas

Chair: Prof. George Papadakis,  
Prof. Gerasimos Martzopoulos

**17:10 OP-1455 1127865**

RESEARCH INTO THE DEVELOPMENT OF AN OPTIMAL PROCESS FOR DIGESTING GRASS SILAGE BY A TWO STAGE PROCESS WITH BIOLEACHING  
*Zielonka, S.*

**17:30 OP-1460 1127350**

BIOGAS CROPS - IMPACT OF SUPPLY CHAIN AND FEEDSTOCK CHARACTERISTICS ON METHANE YIELD  
*Herrmann, C.*

17:50 OP-1465

1178041

ONLINE DRYMATTER ACQUISITION WITHIN SOILD PHASE BIOGAS DIGESTERS  
*Jantschke, C.*

**Session: Irrigation II (275)**

Type: Papers - Oral Presentation  
Date: Tuesday, June 24, 2008  
Time: 17:10 - 18:30  
Room: Ourania

Chair: Prof. Dimitris Papamichail, Dr. Ido Seginer

17:10 OP-1470

1181633

GRAVITY-FED DRIP IRRIGATION EFFECTS ON SUGAR BEET GROWTH AND YIELD  
*Sakellariou-Makrantonaki, M.*

17:30 OP-1475

1177755

ECONOMIC IMPACTS ANALYSIS OF DEFICIT IRRIGATION AND WATER COSTS IN VIGIA IRRIGATION DISTRICT  
*Pereira, L.S.*

17:50 OP-1480

1177350

NUMERICAL MODELLING OF BORDER IRRIGATION ADVANCE  
*Banti, M.*

18:10 OP-1485

1177344

CROP YIELD AS AFFECTED BY UNIFORMITY OF MICRO-SPRINKLER IRRIGATION SYSTEM  
*Denis, D.M.*

**Session: Land and Water Environmental Aspects I (280)**

Type: Papers - Oral Presentation  
Date: Tuesday, June 24, 2008  
Time: 17:10 - 18:30  
Room: Clío

Chairs: Dr. Thomas Kotsopoulos, Dr. Miltiadis Hiskakis

17:10 OP-1490

1177848

SUSTAINABILITY CRITERIA AND INDICATORS FOR TOURISM AS AN ACTIVITY FOR RURAL DEVELOPMENT  
*Cardin Pedrosa, M.*

17:30 OP-1495

1180353

OZONE LEVELS IN CENTRAL GREECE: TREND AND IMPACTS ON AGRICULTURE  
*Papanastasiou, D.K.*

17:50 OP-1500

1177931

LANDSCAPE ANALYSIS FOR THE TERRITORY OF THE PROVINCE OF VITERBO (CENTRAL ITALY): THE CENSUS OF HEDGEROWS  
*Ripa, M.N.*

18:10 OP-1505

1176923

HARVESTING DEW WATER USING RADIATIVELY COOLED CONDENSER TO

SUPPLEMENT DRINKING WATER SUPPLY IN HOT ARID COASTAL AREA OF NORTH WEST INDIA  
*Sharan, G.*

**Session: Analysis of Ventilation Systems in Animal Housing II (285)**

Type: Papers - Oral Presentation  
Date: Tuesday, June 24, 2008  
Time: 17:10 - 18:30  
Room: Polymnia

Chairs: Prof. Daniel Berckmans, Dr. Reiner Brunsch

17:10 OP-1510

1156303

MEASUREMENTS OF THE INDOOR CLIMATE DURING WINTER TIME IN A PIG HOUSE WITH GROUND CHANNEL VENTILATION  
*Botermans, J.*

17:30 OP-1515

1142680

ENERGY EFFICIENCY IN RAISING LIVESTOCK - DEVELOPMENT OF A METHOD OF ENERGY BALANCE THROUGH THE EXAMPLE OF DAIRY FARMING  
*Kraatz, S.*

17:50 OP-1520

1124305

POROUS MEDIA AS BOUNDARY CONDITION FOR AIR INLET, SLATTED FLOOR AND ANIMAL OCCUPIED ZONE IN NUMERICAL SIMULATION OF AIR FLOW IN A PIG UNIT  
*Bjerg, B.*

**Session: Renewable Energy II (290)**

Type: Papers - Oral Presentation  
Date: Tuesday, June 24, 2008  
Time: 17:10 - 18:30  
Room: Erato

Chairs: Prof. George Karantounias, Dr. Thomas Bartzanas

17:10 OP-1525

1133842

INVESTIGATION OF A DIRECT COUPLED PHOTOVOLTAIC REVERSE OSMOSIS DESALINATION SYSTEM A TECHNICAL EXPERIMENTAL COMPARATIVE STUDY  
*Mohamed, E.*

17:30 OP-1530

1130889

METHODS OF PROMOTION OF RENEWABLE ENERGY SOURCES AT A COMMUNITY LEVEL  
*Angeon, V.*

17:50 OP-1535

1127499

PHOTOVOLTAIC WATER PUMPING IRRIGATION SYSTEM FOR SUSTAINABLE DIVERSIFIED AGRICULTURE  
*Shehrawat, P.S.*

18:10 OP-1540

1109018

INDIRECT AND MIXED-MODE SOLAR DRYING MODELS FOR SULTANA GRAPES  
*Zomorodian, A.A.*

**Wednesday, June 25, 2008**

**Session: Information Systems and Precision Agriculture (Soil Supply) (295)**

Type: Papers - Oral Presentation  
Date: Wednesday, June 25, 2008  
Time: 08:30 - 11:00  
Room: Hermes

Chairs: Prof. George Pantazis, Prof. Enrique Molto

08:40 OP-1545

1179772

3-DIMENSIONAL VISION ANALYSIS OF HIGHLY RESOLVED TOMOGRAPHY IMAGES OF FINE PORE SYSTEMS OF SOIL AND GROWING MEDIA SAMPLES  
*Rath, T.*

09:00 OP-1550

1179340

SUSTAINING THE ENVIRONMENT BY MANAGING CONTIGUITY OF ORGANIC AGRICULTURE'S FARMS WITH GEOGRAPHIC INFORMATIONAL SYSTEMS  
*Mavridis, A.P.M.*

09:20 OP-1555

1177722

NEW HIGH-SPEED IMAGING SYSTEM FOR FERTILIZER GRANULE CHARACTERIZATION AT THE EJECTION  
*Cointault, F.*

09:40 OP-1560

1177018

IDENTIFYING MANAGEMENT ZONES WITHIN A FIELD IN THE SANDY AREA OF FLANDERS  
*Van Holm, L.*



10:00 OP-1565

1129387

CONTEXT MAKING FOR NITROGEN MANAGEMENT USING THE REAL TIME SOIL SENSOR

*Shibusawa, S.*

10:20 OP-1570

1127815

IN SOIL DETECTION OF SUGAR BEETS USING UWB RADAR

*Schulze Lammers, P.*

### Session: Automation Technology II (300)

Type: Papers - Oral Presentation

Date: Wednesday, June 25, 2008

Time: 08:30 - 11:00

Room: Apollon

Chairs: Prof. Simon Blackmore,  
Dr. Antonio Comparetti

08:40 OP-1575

1176125

GLOBBAL POSITIONING SYSTEM VELOCITY SYNCHRONISATION OF A SEEDING MACHINE

*Chosa, T.*

09:00 OP-1580

1129655

HIGH ACCURACY PATH TRACKING OF A FOUR-WHEEL-STEERING ALL-TERRAIN VEHICLE ON A SLIPPERY SLOPE

*Cariou, C.*

09:20 OP-1585

1128254

DEVELOPMENT OF A PASSIVE IMPLEMENT GUIDANCE SYSTEM

*Kormann, G.*

09:40 OP-1590

1127579

A DESIGN OF AN EXPERT SYSTEM FOR SELECTING OF PUMPS USING AGRICULTURAL IRRIGATION

*Seflek, A.Y.*

10:00 OP-1595

1112956

REVIEW ON DEVELOPMENT OF VIRTUAL REALITY TECHNOLOGY-BASED METHODS FOR DESIGN OF AGRICULTURAL MACHINERY

*Heinloo, M.*

### Session: Quality Assessment - New Devices (305)

Type: Papers - Oral Presentation

Date: Wednesday, June 25, 2008

Time: 08:30 - 11:00

Room: Orpheas

Chairs: Dr. Roberto Oberti, Dr. Ze'ev Schmilovitch

08:40 OP-1605

1181971

NON-DESTRUCTIVE ESTIMATION OF ATP CONTENT IN VEGETABLES USING VISIBLE/NEAR-IR SPECTROSCOPY

*Ye, X.*

09:00 OP-1610

1181753

IDENTIFICATION OF WALNUT GENOTYPE USING IMAGE PROCESSING TECHNIQUES

*Mahmoodi, M.*

09:20 OP-1615

1168809

USE OF RFID FOR TRACEABILITY OF AGRICULTURAL PRODUCTS: GRAIN AS AN EXAMPLE

*Steinmeier, U.*

09:40 OP-1620

1145620

DETERMINATION OF SALMONELLA ODOR USING AN ELECTRONIC NOSE

*Kim, G.Y.*

10:00 OP-1625

1145032

RAPID DETECTION OF FIVE MICROORGANISMS IN FOODS USING IMAGE PROCESSING PARAMETERS AND NEURAL NETWORK

*Mittal, G.S.*

10:20 OP-1630

1130220

DEVELOPMENT OF A BIOACOUSTIC SENSOR FOR THE EARLY DETECTION OF RED PALM WEEVIL

*Gutierrez, A.*

### Session: Information Systems in Farming II (310)

Type: Papers - Oral Presentation

Date: Wednesday, June 25, 2008

Time: 08:30 - 11:00

Room: Ourania

Chairs: Prof. Luigi Bodria, Dr. Dionysis Bochtis

08:40 OP-1635

1177698

COMPARISON OF MULTISPECTRAL AND HYPERSPECTRAL VEGETATION INDICES FOR PREDICTION OF YIELD AND GRAIN QUALITY OF SPRING BARLEY IN HUNGARY

*Milics, G.*

09:00 OP-1640

1137145

THE EFFECTS OF CLIMATE CHANGE ON THE PHENOLOGICAL PHASES OF CEREALS IN HUNGARY

*Erdelyi, E.*

09:20 OP-1645

1132862

DEVELOPMENT OF A LABORATORY TEST STAND FOR COMBINE GRAIN YIELD MONITORING

*Loghavi, M.*

09:40 OP-1650

1122057

MULTI-MODAL AUTOMATIC REGISTRATION OF THERMAL-IR AND RGB IMAGES OF APPLE TREES CANOPY

*Alchanatis, V.*

10:00 OP-1655

1131423

POTENTIAL USE OF SPECTROMETRY TO ESTIMATE INFIELD NITROGEN STATUS OF DURUM WHEAT AND COMMON WHEAT CULTIVARS.

*Douzals, J.P.D.*

10:20 OP-1660

1131352

GIS SOFTWARE TOOL FOR DIGITALIZATION OF GREEK CARTOGRAPHIC BACKGROUND

*Tsiropoulos, Z.T.T.*

### Session: Fruit and Vegetable Cultivation Systems II (315)

Type: Papers - Oral Presentation

Date: Wednesday, June 25, 2008

Time: 08:30 - 11:00

Room: Clio

Chairs: Prof. Hannu Haapala, Dr. Nikolaos Katsoulas

08:40 OP-1670

1146093

ANALYSIS OF A MOBILE GROWING SYSTEM FOR ROSES: A SIMULATION STUDY

*Van Henten, E.J.*

09:00 OP-1675

1130841

MANIPULATOR WITH UNDER ACTUATED MULTI-FINGERED END-EFFECTOR FOR FRUIT AND VEGETABLE HARVESTING

*Li, Q.C.*

09:20 OP-1680

1130432

DESIGN, DEVELOPMENT AND EVALUATION OF A GARLIC CLOVE PRECISION PLANTER

*Bakhtiari, M.R.*

09:40 OP-1685

1119756

NOVEL OPTICAL SENSING TECHNIQUE FOR WATER CONTENT IN PLANTS

*Fukuda, M.*

10:00 OP-1690

1125765

ANALYSIS OF THE INTER ANNUAL QUALITATIVE VARIABILITY OF CAROB GUM

*Labidi, S.*

### Session: Microclimate in Greenhouses (320)

Type: Papers - Oral Presentation

Date: Wednesday, June 25, 2008

Time: 08:30 - 11:00

Room: Polymnia

Chairs: Prof. Kittas Constantinos, Dr. Meir Teitel

**08:40 OP-1700 1184443**

ENERGY SAVING IN GREENHOUSES USING PASSIVE SOLAR HEATING SYSTEM COMBINED WITH HYDROPONY  
*Kougias, P.*

**09:00 OP-1705 1180383**

INFLUENCE OF HEATING SYSTEM ON GREENHOUSE MICROCLIMATE AND CROP ACTIVITY  
*Bartzanas, T.I.B.*

**09:20 OP-1710 1127399**

USE OF AN AIR-TO-WATER HEAT PUMP COUPLED TO RADIANT HEATED FLOOR FOR THE COOLING OF GREENHOUSES  
*Plaza, S.*

**09:40 OP-1715 1177281**

EVALUATION OF METHODS FOR PRODUCING COLD WATER TO COOL GREENHOUSES  
*Campen, J.B.*

**10:00 OP-1720 1146021**

MEASUREMENTS OF GREENHOUSE CANOPY GAS EXCHANGE USING THE OPEN CHAMBER APPROACH  
*Teitel, M.*

**10:20 OP-1725 1128751**

EXPERIMENTAL MEASUREMENTS AND PREDICTION OF CONDENSATION IN HEATED GREENHOUSES  
*Valino, V.*

### Session: Seed Processing (325)

Type: Papers - Oral Presentation  
Date: Wednesday, June 25, 2008  
Time: 08:30 - 11:00  
Room: Erato

Chairs: Dr. George Xanthopoulos, Prof. Grigoris Lamprinos

**08:40 OP-1735 1114578**

EFFECTIVE PARAMETERS OF BROKEN RICE DURING PADDY HULLING USING RUBBER ROLL HULLER  
*Bagheri, I.*

**09:00 OP-1740 1105843**

MANAGEMENT OF RICE STRAW IN THE MEDITERRANEAN-BLACK SEA BASIN  
*Wong, A.*

**09:20 OP-1745 1181708**

STIMULATIVE EFFECT OF HIGH VOLTAGE ELECTRIC FIELDS ON SOME BIOLOGICAL CHARACTERISTICS OF WHEAT SEEDS  
*Khazaei, J.*

**09:40 OP-1750 1177987**

DETRMINATION OF THE GRAIN INTERNAL DAMAGE BY X-RAY AND IMPACT LOAD METHODS - THEIR COMPARISON  
*Pecen, J.*

**10:00 OP-1755 1178110**

RELATIONSHIP BETWEEN HEAD RICE YIELD AND MECHANICAL PROPERTIES OF TWO RICE VARIETIES IN CENTRAL IRAN  
*Sadeghi, M.S.*

### Session: Water Quality and Environment II (330)

Type: Papers - Oral Presentation  
Date: Wednesday, June 25, 2008  
Time: 08:30 - 11:00  
Room: Kalia

Chairs: Prof. Vasileios Antonopoulos,  
Prof. Maria Sakellariou-Markantonaki

**08:40 OP-1765 1191386**

MODELLING THE TRANSPORT AND FATE OF CARBON AND NUTRIENTS TO THE AQUATIC ECOSYSTEMS OF LAKE KOUMOUNDOUROU, GREECE  
*Pylarinou, A.H.P.*

**09:00 OP-1770 1180688**

QUALITY OF DRILLING WELL WATERS IN THE MUNICIPALITY OF FILIPPIADA PREVEZA GREECE AREA  
*Theocharis, M.*

**09:20 OP-1775 1179762**

DETERMINATION OF BROMIDE AND CHLORIDE CONCENTRATIONS IN DRINKING WATER AT PELION MOUNTAIN (CENTRAL GREECE)  
*Dimakas, D.*

**09:40 OP-1780 1179716**

SYSTEM FOR ASSESSMENT AND USAGE IN AGRICULTURE OF SLUDGE AND WATER FROM WASTEWATER TREATMENT STATIONS  
*Dimitrov, P.*

**10:00 OP-1785 1177872**

IMPACT OF PESTICIDES ON THE GROUNDWATER RESOURCES IN THE BUENOS AIRES PROVINCE, ARGENTINA  
*Bardowicks, K.B.*

**10:20 OP-1790 1177816**

WATER AND NITROGEN DYNAMICS IN A CORN FIELD IRRIGATED WITH TREATED WASTEWATER  
*Rahil, M.*

### Session: Information Systems and Precision Agriculture (Pesticides, Insecticides) (335)

Type: Papers - Oral Presentation  
Date: Wednesday, June 25, 2008  
Time: 11:30 - 13:30  
Room: Hermes

Chairs: Prof. Daniel Berckmans, Dr. Fountas Spyros

**11:30 OP-1795 1179627**

DETECTION OF URINE PATCHES ON GRASSLAND WITH AN ELECTRO-MAGNETIC INDUCTION-BASED SENSOR  
*Rodhe, L.*

**11:50 OP-1800 1177603**

AUTOMATIC REMOTE MONITORING OF ATTRACTANT-BASED INSECTICIDE DELIVERING SYSTEMS  
*Oberti, R.*

**12:10 OP-1805 1176476**

COUPLING PESTICIDE SPRAY DRIFT MODEL WITH GEOGRAPHIC INFORMATION SYSTEMS  
*Bozon, N.B.*

**12:30 OP-1810 1175652**

FIELD EVALUATION FOR A VARIABLE RATE GRANULE APPLICATOR CONTROL SYSTEM  
*Meng, Z.*

**11:50 OP-1815 1131057**

TILLAGE IMPLEMENT CONTROL BY SOIL CONDITION MAPPING  
*Jori, I.J.*

**13:10 OP-1820 1124723**

DEVELOPMENT OF A MACHINE VISON SYSTEM FOR A REAL TIME PRECISION SPRAYER  
*Bossu, J.*

### Session: Tillage and Seeding III (340)

Type: Papers - Oral Presentation  
Date: Wednesday, June 25, 2008  
Time: 11:30 - 13:30  
Room: Apollon

Chairs: Dr. Stefan Bottinger, Dr. Martin Kremmer

**11:30 OP-1825 1156356**

ON THE GO MEASUREMENT OF SOIL MECHANICAL RESISTANCE DURING TILLAGE OPERATION  
*Javadi, A.*

**11:50 OP-1830 1145916**

CHARACTERISTICS AND PERFORMANCE OF A MODIFIED BENTLEG PLOW  
*Jafari, R.*

12:10 OP-1835

1145836

DEVELOPMENT OF 2-ROW TRACTOR MOUNTED SUGARCANE CUTTER PLANTER  
*Mandal, S.K.*

12:30 OP-1840

1135478

DESIGN OF A VELOCITY CONVERTER FOR SEEDING MACHINES  
*Kianmehr, M.H.*

12:50 OP-1845

1132659

NEW ROLLER CONCEPTS FOR MECHANICAL TERMINATING COVER CROPS IN CONSERVATION AGRICULTURE IN THE SOUTHERN UNITED STATES  
*Kornecki, T.S.*

13:10 OP-1850

1127239

COMPARATIVE PERFORMANCE OF THREE TYPES OF PLANTER FURROW OPENER IN A CONSERVATION TILLAGE CORN PRODUCTION SYSTEM  
*Raoufat, M.H.*

### Session: Non Destructive Devices, Quality Assessment - New Devices (345)

Type: Papers - Oral Presentation

Date: Wednesday, June 25, 2008

Time: 11:30 - 13:30

Room: Orpheas

Chairs: Prof. Francisco Ayuga, Prof. George Nanos

11:30 OP-1855

1181613

STORED POTATO AGEING DETECTION BY ULTRASOUND TECHNOLOGY  
*Mizrach, A.*

11:50 OP-1860

1180591

IMAGE ANALYSIS TECHNIQUES FOR THE AUTOMATED EVALUATION OF TOASTED HAZELNUTS PEELING  
*Pallottino, F.*

12:10 OP-1865

1177899

PIXFEL, A TOOL FOR THE QUALITY ASSESSMENT OF APPLES IN BULK SHIPPING BINS AT HARVEST TIME  
*Grenier, G.*

12:30 OP-1870

1176704

PRECISE MONITORING OF PRODUCE SURFACE TEMPERATURE DURING HEAT DISINFECTION UTILIZING THERMAL IR IMAGING  
*Gan-Mor, S.*

12:50 OP-1875

1143687

PHYSIOLOGICAL AGE DETERMINATION OF SEED TUBERS BY NEAR-INFRARED SPECTROSCOPY  
*Schmilovitch, Z.*

13:10 OP-1880

1134670

ANALYSIS OF IMPEDANCE SPECTRA AND LASER LIGHT BACKSCATTERING INTENSITIES OF TOMATO SLICES DURING DRYING PROCESS  
*Romano, G.*

### Session: Education and Extension Service (350)

Type: Papers - Oral Presentation

Date: Wednesday, June 25, 2008

Time: 11:30 - 13:30

Room: Ourania

Chairs: Prof. Perluigi Febo, Dr. Volkhard Scholz

11:30 OP-1885

1134584

POLICY ORIENTED MEASURES IN SUPPORT OF THE EVOLVING BIOSYSTEMS ENGINEERING STUDIES IN USA AND EU  
*Briassoulis, D.*

11:50 OP-1890

1177982

THE ROLE OF AGRICULTURAL ENGINEERING IN SUSTAINABLE RURAL DEVELOPMENT IN SEE (SOUTH EASTERN EUROPE) COUNTRIES  
*Djevic, M.*

12:10 OP-1895

1176016

A CURRICULUM PROPOSAL FOR FORESTRY ENGINEERING STUDIES AT DEGREE LEVEL ACCORDING TO USAEE- THEMATIC NETWORK GUIDELINES  
*Grande Ortiz, M.A.*

12:30 OP-1900

1144032

ENGINEERING STUDY PROGRAMS DEVELOPMENT POSSIBILITIES IN THE AGRICULTURE AND BIOLOGY RELATED FIELD  
*Arhipova, I.*

### Session: Harvesting II (355)

Type: Papers - Oral Presentation

Date: Wednesday, June 25, 2008

Time: 11:30 - 13:30

Room: Clio

Chairs: Prof. Konstantinos Tsatsarelis, Mr. Gunnar Lundin

11:30 OP-1910

1191371

BENEFITS OF HARVESTER FRONT EXTENSION IN REDUCING CANOLA HARVEST LOSSES  
*Asoodar, M.A.*

11:50 OP-1915

1179917

DETERMINATION OF PHYSICAL AND RHEOLOGICAL PROPERTIES OF SUGARCANE RESIDUE TO DESIGN A PICKER AND BALING MECHANISM  
*Faghiri, M.*

12:10 OP-1920

1179088

OPTIMIZATION OF TRANSPORT FOR THE HARVEST CYCLE OF SILAGE CORN  
*Bueno, J.*

12:30 OP-1925

1177696

INVESTIGATIONS INTO THE MECHANISATION OF HARVESTING COCOYAM AND CASSAVA  
*Agbetoye, L.A.S.*

12:50 OP-1930

1135255

EFFECT OF BLADE ANGLES AND VELOCITIES ON THE CUTTING ENERGY OF PADDY STEM  
*Tabatabae Koloor, R.*

13:10 OP-1935

1114619

EVALUATION OF A RICE REAPER USED FOR RAPESEED HARVESTING  
*Bagheri, I.*

### Session: Mechanical Damage and Properties (360)

Type: Papers - Oral Presentation

Date: Wednesday, June 25, 2008

Time: 11:30 - 13:30

Room: Polymnia

Chairs: Prof. Theofanis Gemtos, Prof. Luigi Bodria

11:30 OP-1940

1177621

THE RELATION BETWEEN MECHANICAL DAMAGE TO (WITLOF) CHICORY ROOTS DURING HARVESTING AND THE OCCURRENCE OF PHOMA EXIGUA DURING FORCING  
*Vangeyte, J.*

11:50 OP-1945

1130753

DEVELOPMENT OF CLIMATE-BASED COMPUTER MODEL TO REDUCE CROP HARVEST LOSSES IN AUSTRALIA  
*Zare, D.*

12:10 OP-1950

1178366

POST-HARVEST MECHANICAL PROPERTIES OF POMEGRANATE FRUIT AND PEEL  
*Ekrami Rad, N.*

12:30 OP-1955

1178068

PRE-HARVEST AND POST-HARVEST STIFFNESS EVALUATION OF FRUITS AND VEGETABLES  
*Felfoldi, J.*

12:50 OP-1960

1168828

CHANGES IN PUNCTURE MECHANICAL PROPERTIES OF STORED GRANNY SMITH APPLES: EFFECT OF TEMPERATURE AND STORAGE TIME  
*Xanthopoulos, G.*

13:10 OP-1965

1124259

A NEW HAND-HELD IMPACT DEVICE TO MEASURE FIRMNESS OF FRUITS, APPLICATION TO PEAR HARVEST AND POST-HARVEST MANAGEMENT  
*Ruiz-Altisent, M.*

**Session: Irrigation III (365)**

Type: Papers - Oral Presentation  
Date: Wednesday, June 25, 2008  
Time: 11:30 - 13:30  
Room: Erato

Chairs: Dr. Evelia Schettini, Dr. Thomas Kotsopoulos

11:30 OP-1970

1141952

WHY IS THE TREADLE PUMP REGARDED AS AN APPROPRIATE TECHNOLOGY AMONGST MANY SMALL SCALE IRRIGATION FARMERS IN MALAWI  
*Chidanti-Malunga, J.*

11:50 OP-1975

1132340

EXPERIMENTAL AND MATHEMATICAL EVALUATION OF WATER REQUIREMENT FOR RICE IRRIGATED BY INTERMITTENT SUBMERSION BASED ON SOIL MATRIC POTENTIAL PLANNING  
*Allavena, L.A.*

12:10 OP-1980

1132299

EVALUATION OF TAPE AND FURROW IRRIGATION SYSTEMS FOR TWO VARIETIES OF SOYBEAN UNDER DIFFERENT IRRIGATION MANAGERMENTS  
*Shahinroksar, P.*

12:30 OP-1985

1130087

SENSORS AND WIRELESS SENSOR NETWORKS FOR IRRIGATION MANAGEMENT UNDER DEFICIT CONDITIONS (FLOW-AID)  
*Balendonck, J.*

12:50 OP-1990

1179770

EFFECT OF PARTIAL ROOTZONE DRYING IRRIGATION SYSTEM ON TOMATO CROP CULTIVATION AND SALTS CONCENTRATION  
*Samak, A.*

**Session: Structural Design and Construction Materials III (370)**

Type: Papers - Oral Presentation  
Date: Wednesday, June 25, 2008  
Time: 11:30 - 13:30  
Room: Kalia

Chairs: Dr. Ido Seginer, Dr. Florentino Juste

11:30 OP-1995

1175804

FRICTION AND ABRASIVE CHARACTERISTICS OF SOME WALKWAY FLOORING MATERIALS IN DAIRY HOUSING  
*Nilsson, C.*

11:50 OP-2000

1175733

INFLUENCE OF THE HOPPER ECCENTRICITY OF SILOS IN PRESSURE DISTRIBUTIONS  
*Ramirez Gomez, A.*

12:10 OP-2005

1168849

THE INCREASING OF ILLEGAL RURAL BUILDINGS IN SPAIN FOR RESIDENTIAL ACTIVITIES: A THREAT TO LANDSCAPE CONSERVATION  
*Hernandez Blanco, J.*

12:30 OP-2010

1143479

STRENGTH AND POROSITY EVOLUTION OF TWO CEMENT MORTAR SUBMERGED IN PIG SLURRY  
*Moragues, A.*

12:50 OP-2015

1132053

PERFORMANCE OF AGRICULTURAL PRODUCTION BUILDINGS  
*Kaustell, K.O.*

13:10 OP-2020

1132027

COMPARING LAYOUTS FOR DAIRY BARNs: EFFECT ON SPACE UTILIZATION  
*Naess, G.*

**Session: Poster Session 3 (371)**

Type: Papers - Poster Presentation  
Date: Wednesday, June 25, 2008  
Time: 11:00 - 17:10  
Room: Poster Area

Remarks: Poster Session 3  
Mounting 08:00 - 08:30  
Removal 18:30 - 19:00  
Poster Number Range (P-135 to P-201)

P-135

1144953

IRRIPRO: A POWERFUL SOFTWARE TO GRAPHIC AND HYDRAULIC DESIGN OF IRRIGATION PLANTS.  
*Savona, P.*

P-136

1144722

ANALYSIS AND COMPARISON OF DIFFERENT METHODS FOR PREDICTING SOIL HYDRAULIC PROPERTIES: HYDROLIMITS IN NW SPAIN  
*Cancela, J.J.*

P-137

1144586

FOOD SAFETY IN ROMANIA  
*Petroman, C.*

P-138

1143749

THE USE OF GPS SYSTEMS FOR AGRICULTURAL MACHINERY MANAGEMENT  
*Martelli, R.*

P-139

1143652

TESTING THE APPLICATION OF AUTOMATIC MILKING SYSTEM TO BUFFALO (BUBALUS BUBALIS)  
*Faugno, S.*

P-140

1143511

MEASURING THE OPTICAL CHARACTERISTICS OF GREENHOUSE COVERING MATERIALS  
*Swinkels, G.J.*

P-141

1143404

RETROFITTING OF PARTICLE FILTERS ON TRACTORS  
*Landis, M.*

P-142

1143393

DETERMINATION OF OPTIMUM SURFACE ORIENTATION FOR A 10 kWp GRID-CONNECTED PV ARRAY  
*Farkas, I.*

P-143

1143375

ANALYSIS OF DAIRY FARM EFFICIENCY IN GALICIA BY NEURAL NETWORK  
*Cuesta, T.S.*

P-144

1143216

DIVERSITY OF METHANOGENIC ARCHAEA IN SILAGE-UTILIZING TWO-PHASE BIOGAS REACTORS  
*Nettmann, E.*

P-145

1142726

ASSESSMENT OF SOIL ERODIBILITY, DEGRADATION AND ITS RELATION TO LAND USE PRACTICES IN ALJABAL ALAKHDAR REGION, LIBYA  
*Aburas, M.*

P-146

1142437

UPPER AND LOWER CRITICAL TEMPERATURES FOR CATTLE  
*Hautala, M.*

P-147

1137639

RENEWABLE ENERGY SOURCES AND GREENHOUSE INDUSTRY: TRENDS AND PERSPECTIVES  
*Vox, G.*

P-148

1137607

EFFECT OF DIFFERENT PRE-HARVEST TREATMENTS ON QUALITY AND BITTER-PIT INCIDENCE AT HARVEST AND DURING COLD STORAGE IN REINETA BLANCA APPLE  
*Guerra, M.*

P-149

1137589

CHARACTERIZATION OF PDO MANZANA REINETA DEL BIERZO APPLE CULTIVARS IN LEON-SPAIN  
*Marcelo, V.*

- P-150** 1137232  
BIOMASS - IS IT A PART OF ENERGY STRATEGY IN MITIGATION OF GLOBAL WARMING?  
*Erdelyi, E.*
- P-151** 1137186  
A PRELIMINARY INVESTIGATION OF AVIAN COMB AS A POTENTIAL BIOMETRIC MARKER FOR IDENTIFICATION OF POULTRY  
*Corkery, G.*
- P-152** 1136721  
TOOL SELECTION FOR MULCH CULTIVATOR DEVELOPMENT  
*Tamas, K.T.*
- P-153** 1135381  
DESORPTION ISOTHERMS OF MISCANTHUS (MISCANTHUS X GIGANTHUS)  
*Arabhosseini, A.*
- P-154** 1133781  
PRACTICE SURVEY ON ELECTRONICS AND INFORMATION TECHNOLOGY IN AGRICULTURE.  
*Kaufmann, R.K.*
- P-155** 1132801  
EFFECT OF TEMPERATURE AND RELATIVE HUMIDITY IN POULTRY TRANSPORT UNDER TROPICAL CONDITIONS  
*Silva, I.J.O.*
- P-156** 1132661  
METHANE, AMMONIA AND NITROUS OXIDE EMISSIONS FROM A NATURALLY VENTILATED DAIRY CATTLE BUILDING  
*Ngwabie, N.M.*
- P-157** 1132648  
DEVELOPMENT OF A NOVEL E-TRACKING AND TRACING SYSTEM FOR INDIVIDUAL ANIMAL IDENTIFICATION OF POULTRY USING RSS AND DATA MATRIX BARCODES  
*Froschle, H.K.*
- P-158** 1132577  
IMAGE PROCESSING AND CORRESPONDENCE ANALYSIS TO SPATIAL DISTRIBUTION OF LAYING HENS  
*Vieira, F.M.C.*
- P-159** 1132501  
VARIATION OF THE PHOTOSYNTHETIC EFFICIENCY IN LYCOPERSICON ESCULENTUM MILL. UNDER GREENHOUSE WITH REGARD TO SHADED BY ALUMINIUM SCREENS AND WHITENING  
*Callejon Ferre, A.J.*
- P-160** 1132071  
PRODUCTION LOSSES ON POULTRY PRESLAUGHTER'S OPERATIONS IN RELATION TO LAIRAGE TIME IN PROCESSING PLANTS: A SEASON EFFECT STUDY  
*Silva, I.J.O.*
- P-161** 1132061  
DESIGN OF A NEW CULTIVATOR (PART 2: KINEMATIC AND DYNAMIC ANALYSIS)  
*Arabhosseini, A.*
- P-162** 1131989  
A PREVIOUS STUDY ABOUT THE USE OF ADAPTATIVE NEURO-FUZZY SYSTEM FOR PRODUCTIVE LOSSES ON POULTRY PRESLAUGHTER'S OPERATIONS ASSESSMENT  
*Silva, I.J.O.*
- P-163** 1131791  
ESTIMATING CROP EVAPOTRANSPIRATION OF 10-YEAR RETURN PERIOD DROUGHT AND THE REVISED PADDY RICE CROP COEFFICIENT IN SOUTH KOREA  
*Yoo, S.H.*
- P-164** 1131590  
EFFECT OF DIFFERENT STORAGE TECHNIQUES ON RIPENESS ATTRIBUTES AND STORABILITY OF "GOLDEN DELICIOUS" APPLE  
*Valenciano, B.J.*
- P-165** 1131432  
AN INVESTIGATION INTO THE PERFORMANCE OF SHALLOW WORKING NON-ROTATING AND ROTATING DISCS FOR USE AS A MINIMUM TILLAGE TOOL  
*Dedousis, A.*
- P-166** 1131332  
CAPTURING THE TRACTOR DRIVER'S WORK LOAD USING HRV MEASUREMENT  
*Mattila, t.*
- P-167** 1130887  
PHYSICAL CHARACTERISTICS OF SEEDS AND THEIR EFFECTS TO THE SOWING ACCURACY  
*Polyak, I.N.*
- P-168** 1130882  
PERFORMANCE EVALUATION OF PNEUMATIC MACHINES FOR HAZELNUT HARVESTING  
*Formato, A.*
- P-169** 1130879  
OPTIMIZED DESIGN OF A COTTON WOOL MAKING PLANT  
*Formato, A.*
- P-170** 1130875  
STUDY OF ROPE JOINTS FOR FORESTRY AERIAL ROPEWAY  
*Formato, A.*
- P-171** 1130863  
OPTIMIZED USE OF GRAPE CRYOMACERATING PLANTS  
*Formato, A.*
- P-172** 1130842  
STUDY OF AN OLEODYNAMIC TORQUE AMPLIFIER  
*Formato, A.*
- P-173** 1130731  
LONG TERM SUSTAINABILITY OF RECREATION AREAS CONSIDERING THEIR FEATURES  
*Torres Labandeira, M.L.*
- P-174** 1130681  
KINEMATIC OPTIMIZATION OF SEPARATING-PLANTING MECHANISM WITH PLANETARY GEAR TRAIN AND CRANK-ROCKER  
*Wu, C.Y.*
- P-175** 1130545  
A NEW APPROACH TO USE HUSK AND DIFFERENT OPENER PLUNGER TYPE IN THE PUNCH PLANTING OF COMMON BEAN  
*Sakenian Dehkordi, N.*
- P-176** 1130507  
MULCH TREATMENT WITH MULCH-PLANTER AND ITS EFFECTS ON CORN PRODUCTION  
*Sakenian Dehkordi, N.*
- P-177** 1130364  
THE INFLUENCE OF MINIMUM SOIL TILLAGE SYSTEMS ON WATER AND HUMUS CONSERVATION IN SOME SOILS OF ROMANIA  
*Rusu, T.*
- P-178** 1130244  
SOFTWARE FOR MANAGEMENT OF THE SAFETY AND HEALTH DOCUMENTS IN AGROFORESTRY ENGINEERING PROJECTS  
*Barrasa, M.*
- P-179** 1130128  
INFLUENCE OF WATER STRESS ON BARLEY CULTIVARS  
*Klar, A.*
- P-180** 1129915  
AUTONOMOUS NAVIGATION IN MAIZE CROP FIELDS  
*Seco, T.*
- P-181** 1129816  
A TERRITORIAL MODEL FOR THE ENERGY ANALYSIS OF OIL SEED CROPS USED AS BIOFUEL FEEDSTOCKS  
*Caprara, C.*
- P-182** 1129796  
HERBACEOUS BIOMASS COMPOSITIONS FOR RENEWABLE ENERGY  
*Kronbergs, E.*
- P-183** 1129754  
DEVELOPMENT OF A MODEL FOR HEAT STORAGE SYSTEM USING PHASE CHANGE MATERIALS IN COGENERATION UNITS  
*Stoppiello, G.*
- P-184** 1129610  
CROP PLANT IDENTIFICATION FOR WEEDING OPERATIONS IN MAIZE FIELDS  
*Seco, T.*
- P-185** 1129600  
THE EFFECT OF SOWING PERIOD ON THE ECO-PHYSIOLOGICAL RESPONSE IN SOME SUNFLOWER HYBRIDS CULTIVATED IN THE MOLDAVIAN PLAIN - ROMANIA  
*Jitareanu, J.C.D.*



- P-186** 1129267  
WORKING CONDITIONS IN THE LANDSCAPING SECTOR IN GALICIA  
*Lamosa Quinteiro, S.*
- P-187** 1129042  
INFLUENCE OF THE PEELING PROCESS, BY HAND OR MECHANICALLY, ON THE PIQUILLO PEPPER  
*Arana Navarro, I.*
- P-188** 1128540  
PRELIMINARY STUDY OF THE VIABILITY OF SUBSTRATE MANUFACTURE USING GORSE (ULEX EUROPAEUS L.)  
*Diaz, F.*
- P-189** 1128463  
PAN COEFFICIENT AND WIND FUNCTION OF AGRICULTURAL WATER RESERVOIRS UNDER A SEMI-ARID CLIMATE  
*Gallego-Elvira, B.*
- P-190** 1128412  
COMPARISON OF TWO INERTIA TYPE FRUIT TREE SHAKERS  
*Lang, Z.*
- P-191** 1127966  
RETRIEVAL OF EVAPOTRANSPIRATION FROM SATELLITE: VALIDATION AND EVOLUTION OF SPATIAL DISTRIBUTION AT BONTIOLI, BURKINA FASO.  
*Tanguy, M.*
- P-192** 1127880  
ASSESSMENT OF EVAPORATION LOSSES FROM IRRIGATION RESERVOIRS IN THE SEGURA RIVER BASIN (SOUTH EASTERN SPAIN)  
*Martinez-Alvarez, V.*
- P-193** 1127078  
PRELIMINARY TESTS OF MECHANICAL THINNING OF PEACHES FOR PROCESSING INDUSTRY  
*Martin-Gorriz, B.*
- P-194** 1126664  
COST EFFECTIVE MECHANISATION ON SMALL AND MEDIUM SIZED FARMS  
*Mago, L.*
- P-195** 1125797  
ECO-EFFICIENT CONCRETES: IMPACT OF THE USE WHITE CERAMIC POWDER ON THE MECHANICAL PROPERTIES OF CONCRETE  
*Juan, A.*
- P-196** 1124147  
INFLUENCE OF SCATTERING COEFFICIENTS ON LINEAR CALIBRATION MODEL BASED ON VIS/NIR SPECTROSCOPY IN APPLES, POTATOES, AND SOLID PHANTOMS  
*Pecenka, R.*
- P-197** 1122639  
DETERMINATION OF SOYBEAN CROP EVAPOTRANSPIRATION THROUGH BOWEN RATIO COMPARED WITH PENMAN-MONTEITH, AND CLASS A PAN METHODS  
*Fernandes, E.J.*
- P-198** 1116961  
EFFECTS OF THE STORAGE SYSTEM AND SPROUTING INHIBITOR APPLICATION ON GALICIAN POTATO WITH PROTECTED GEOGRAPHICAL INDICATION  
*Hermida, M.J.*
- P-199** 1113993  
CALIBRATION OF AN ELECTRONIC CAPACITANCE METER TO PASTURE ESTIMATING IN A PRECISION AGRICULTURE PROJECT  
*Serrano, J.M.R.*
- P-200** 1112954  
EVALUATING THE EFFECTS OF AGRO-TECHNIQUES (COVER CROPS, TILLAGE SYSTEMS AND NITROGEN RATES) ON SOIL PROPERTIES AND FORAGE SORGHUM YIELDS  
*Ramroudi, M.*
- P-201** 1098017  
GROWTH AND YIELD RESPONSES OF UPLAND RICE TO DIFFERENTIAL WATER DISTRIBUTION UNDER SPRINKER IRRIGATION SYSTEMS IN IBADAN, NIGERIA  
*Akinbile, C.*

### Session: Information Systems and Precision Agriculture III (375)

Type: Papers - Oral Presentation  
Date: Wednesday, June 25, 2008  
Time: 15:00 - 17:00  
Room: Hermes

Chairs: Prof. Robert Kaufmann,  
Prof. Peter Schulze Lammers

- 15:00 OP-2025** 1130871  
AUTOMATIC DETECTION OF LAMENESS IN DAIRY CATTLE BY VISION ANALYSIS OF COW'S GAIT  
*Bahr, C.*
- 15:20 OP-2030** 1184712  
A FRAMEWORK TO ANALYSE PRECISION AGRICULTURE DATA  
*Fountas, S.*
- 15:40 OP-2035** 1180464  
COTTON PHENOLOGY ANALYSIS WITH THE NEW REMOTE SENSING SPECTRAL ANGLE INDEXES AS1 AND AS2  
*Palacios Orueta, A.*
- 16:00 OP-2040** 1178255  
SPATIAL MAPPING OF TRACTOR-IMPLEMENT OPERATIONAL PARAMETERS USING AN INSTRUMENTED TRACTOR  
*Hemmat, A.*
- 16:40 OP-2045** 1134791  
DETERMINATION OF SOYA PLANT POPULATION USING NDVI IN DASHT-E-NAZ AGRI-INDUSTRY  
*Ahmadi, H.*

### Session: Land and Water Environmental Aspects II (380)

Type: Papers - Oral Presentation  
Date: Wednesday, June 25, 2008  
Time: 15:00 - 17:00  
Room: Apollon

Chairs: Dr. Bernd Linke, Dr. Peter Groot Koerkamp

- 15:00 OP-2050** 1175844  
SPATIAL STATISTICS FOR GEOGRAPHICAL INFORMATION SYSTEMS IN APPLIED ECOLOGY  
*Gonzalez Garcia, C.*
- 15:20 OP-2055** 1128824  
GREENHOUSE GAS AND ODOUR EMISSIONS FROM LAND APPLICATION OF LIVESTOCK MANURE  
*Lague, C.*
- 15:40 OP-2060** 1178181  
USE OF THE REMOTELY SENSED DERIVED TVDI FOR DROUGHT MONITORING IN THESSALY WATERSHEDS  
*Dalezios, N.R.D.*
- 16:00 OP-2065** 1176706  
COMBINED PIECEWISE AND CONTINUOUS FUNCTIONS IN ENVIRONMENTAL MODELING  
*Razzaghi, M.*

### Session: Biomass Processing for Energy Production II (385)

Type: Papers - Oral Presentation  
Date: Wednesday, June 25, 2008  
Time: 15:00 - 17:00  
Room: Orpheas

Chairs: Prof. Gerasimos Martzopoulos,  
Dr. Reiner Brunsch

- 15:00 OP-2070** 1156300  
WHICH BREEDING OBJECTIVES SHOULD BE TARGETED FOR ENERGY MAIZE AS SUBSTRATE FOR BIOGAS PRODUCTION?  
*Mukengele, M.*

15:20 OP-2075

1129431

HARVESTING TECHNOLOGIES FOR SHORT ROTATION COPPICE - STATE-OF-THE-ART AND PROSPECTS  
*Scholz, V.*

15:40 OP-2080

1113345

MICROBIAL CONVERSION OF LIGNOCELLULOSE INTO A BIOCRUDE  
*French, T.W.*

16:00 OP-2085

1178211

DIGESTED MATERIAL UTILIZATION FOR HEATING PURPOSES  
*Pastorek, Z.P.*

### Session: Fruit Quality Assessment (390)

Type: Papers - Oral Presentation

Date: Wednesday, June 25, 2008

Time: 15:00 - 17:00

Room: Ourania

Chairs: Prof. Istvan Farkas, Prof. Ricardo Guidetti

15:00 OP-2090

1181852

IMAGE PROCESSING ALGORITHMS FOR TABLE OLIVES CLASSIFICATION  
*Alchanatis, V.*

15:20 OP-2095

1181415

PEACH CONSUMERS' QUALITY PREDICTION USING VISION, SPECTRAL REFLECTANCE, ACOUSTIC AND IMPACT SENSORS  
*Herrero, A.*

15:40 OP-2100

1180735

MULTISPECTRAL IMAGES FOR MONITORING FRUIT RIPENESS: VALIDATION METHODS  
*Herrero Langreo, A.*

16:00 OP-2105

1180017

INSTRUMENTAL PARAMETERS DESCRIBING THE QUALITY OF PEACH AND APRICOT "EXTRA JAMS", AS INFLUENCED BY EXCESS HEATING  
*Diezma-Iglesias, B.*

16:20 OP-2110

1177134

EVALUATION OF CHIAVENNASCA GRAPEFRUIT TECHNOLOGICAL AND PHENOLIC RIPENING INDEXES BY A PORTABLE VIS-NIR DEVICE  
*Beghi, R.B.*

### Session: Land Use and Productivity II (395)

Type: Papers - Oral Presentation

Date: Wednesday, June 25, 2008

Time: 15:00 - 17:00

Room: Clio

Chairs: Prof. Bill Day, Prof. Daniele de Wrachien

15:00 OP-2115

1156162

PREDICTION OF MICROBIAL CONTAMINATION OF WATER SOURCES USING ArcSWAT  
*Coffey, R.*

15:20 OP-2120

1145845

SOIL MANAGEMENT BY DATA INFORMATION AND PROCESSING  
*Bielek, P.*

15:40 OP-2125

1144645

COMPOSITION AND DISTRIBUTION OF ORGANIC WASTE IN IRELAND: IMPLICATIONS FOR LAND APPLICATION PRACTICES  
*Tanto, M.T.*

16:00 OP-2130

1129435

A PROSPECTIVE REVIEW OF THE FORTHCOMING CHALLENGE FOR LAND AND WATER USES: A NEW DEAL FOR AGRICULTURE  
*Macombe, C.*

16:20 OP-2135

1126911

ORGANIC WASTE COMPOST PROPERTIES IN RELATION TO SOIL CHEMICAL PARAMETERS  
*Kokkora, M.I.*

### Session: Storage and Logistics (400)

Type: Papers - Oral Presentation

Date: Wednesday, June 25, 2008

Time: 15:00 - 17:00

Room: Polymnia

Chairs: Dr. Ze'ev Schmilovitch,  
Prof. Panagiotis Panagakis

15:00 OP-2140

1180042

WIRELESS SENSOR NETWORKS STUDY FOR REAL-TIME FRUIT LOGISTICS MONITORING  
*Ruiz-Garcia, L.*

15:20 OP-2145

1131953

CFD MODELLING OF HUMIDIFICATION USING PRESSURIZED WATER ATOMIZERS IN COLD STORAGE SYSTEMS  
*Delele, A.M.*

15:40 OP-2150

1125080

NEW TRANSPORT SYSTEMS IN GRAIN LOGISTIC BETWEEN FARM AND RETAILER  
*Bernhardt, H.*

16:00 OP-2155

1181912

LOGISTICS DESIGN PROCESS OF BIOMASS SUPPLY CHAIN: SIMULATION AND OPTIMIZATION MODELS  
*Busato, P.*

16:20 OP-2160

1131011

MODEL OF MOISTURE AND HEAT TRANSFER IN HETEROGENEOUS BULK GRAIN  
*Arhipovs, S.*

### Session: Storage of Fruits and Vegetables (405)

Type: Papers - Oral Presentation

Date: Wednesday, June 25, 2008

Time: 15:00 - 17:00

Room: Erato

Chairs: Prof. Grigoris Lamprinos,  
Dr. Xanthopoulos George

15:00 OP-2165

1219196

INFLUENCE OF STORAGE TEMPERATURE, TREATMENT, AND PACKAGING PRACTICES ON STORAGE BEHAVIOUR OF TWO LETTUCE VARIETY TYPES  
*Xanthopoulos, G.*

15:20 OP-2170

1179243

INFLUENCE OF DIFFERENT PARAMETERS ON FREEZING RATE DURING ULTRASOUND-ASSISTED FREEZING  
*Delgado, A.E.*

15:40 OP-2175

1163189

EFFICIENT SUPPLY CHAIN DESIGN FOR PERISHABLE FOOD PRODUCTS  
*Gay, P.*

16:20 OP-2185

1177240

A WORK PROCESSES OPTIMIZATION MODEL IN TOMATO PACKING HOUSES  
*Bechar, A.*

16:40 OP-2186

1168840

INFLUENCE OF STORAGE TEMPERATURE, TREATMENT, AND PACKAGING PRACTICES ON STORAGE BEHAVIOUR OF TWO LETTUCE VARIETY TYPES  
*Manolopoulou, H.*

### Session: Fertilising and Plant Protection III (410)

Type: Papers - Oral Presentation

Date: Wednesday, June 25, 2008

Time: 15:00 - 17:00

Room: Kalia

Chairs: Dr. Miltiadis Hiskakis, Dr. Carlo Bisaglia

15:00 OP-2190

1176134

IN-SITU VISUALIZATION OF WATER FLOW IN SEEDLINGS - APPLICATION

OF COLD NEUTRON RADIOGRAPHY WITH D2O TRACER AND THE INFLUENCES FOR PLANTS  
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Type: Papers - Oral Presentation

Date: Wednesday, June 25, 2008

Time: 17:10 - 18:30

Room: Hermes

Chairs: Prof. Stavros Vougioukas,  
Prof. Theofanis Gemtos

17:10 OP-2215

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17:30 OP-2220

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### Session: Tillage and Seeding IV (420)

Type: Papers - Oral Presentation

Date: Wednesday, June 25, 2008

Time: 17:10 - 18:30

Room: Apollon

Chairs: Prof. Jaime Ortiz-Canavate,  
Prof. Eldert van Henten

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*Horn, R.*

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### Session: Ergonomics, Safety and Health III (430)

Type: Papers - Oral Presentation

Date: Wednesday, June 25, 2008

Time: 17:10 - 18:30

Room: Ourania

Chairs: Prof. Ettore Gasparetto, Prof. George Pantazis

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Type: Papers - Oral Presentation

Date: Wednesday, June 25, 2008

Time: 17:10 - 18:30

Room: Clio

Chairs: Prof. George Karantounias, Dr. Pierre Grenier

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Type: Papers - Oral Presentation

Date: Wednesday, June 25, 2008

Time: 17:10 - 18:30

Room: Polymnia

Chairs: Prof. Chryssoula Nikita-Martzopoulou,  
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## A. INTRODUCTION

The company **P. PAPADOPOULOS** has begun its activities in 1961 and has been operating since then uninterruptedly.

Its course, through out the years, has been exceptionally successful, so as to develop to a significant business enterprise, becoming today the leader, in its field of activities, in the Greek Market.

The company is activated in the fields of import and distribution of agricultural machinery, forest machinery, garden machinery, building and construction machinery, gasoline and diesel engines, generators and other machinery products..

It has also developed a medium assembling activity for gen-sets up to 14KVA and several types of pumps and sprayers.

P.PAPADOPOULOS S.A.Group of Companies' turnover during 2007 was over € 29.000.000.

## B. SALES' NETWORK

The sales network P.PAPADOPOULOS S.A. Group of Companies, are being active of 1,050 sales points and dealers all over Greece. A significant percentage of them possess workshops which provide an essential after sales support to the end users.

The sales' network is being visited regularly, throughout the year by our travelling salesmen (full time employees).

## C. P.PAPADOPOULOS S.A. MAIN REPRESENTATIONS

- **HUSQVARNA AB (SWEDEN)** - FOREST, PARK & GARDEN MACHINERY
- **JONSERED (SWEDEN)** - FOREST, PARK & GARDEN MACHINERY
- **PARTNER (SWEDEN - ITALY - USA)** - FOREST, PARK & GARDEN MACHINERY
- **FLYMO (UK)** - GARDEN MACHINERY
- **POULAN (USA)** - CHAINSAWS
- **OREGON (BLOUNT USA)** - CUTTING EQUIPMENT & ACCESSORIES
- **SUBARU- ROBIN (FUDJI HEAVY INDUSTRIES - JAPAN)** - PETROL ENGINES
- **GGP (ITALY)** - GARDEN MACHINERY
- **KVERNELAND - VICON (THE NETHERLANDS)** - HORTICULTURAL EQUIPMENT
- **SAMURAI KANZAWA (JAPAN)** - HAND SAWS
- **ANNOVI REVERBERI (ITALY)** - DIAPHRAGM & PISTON SPRAYING PUMPS
- **GRILLO (ITALY)** - MOTOR HOES, TWO WHEEL TRACTORS, MOTOR MOWERS
- **SEP (ITALY)** - MOTOR HOES, TWO WHEEL TRACTORS, MOTOR MOWERS
- **MECNOSUD (ITALY)** - ENOLOGICAL MACHINERY
- **ATIKA (GERMANY)** - MIXERS, GARDEN MACHINERY, GAS HEATERS
- **BELLE (UK)** - CONSTRUCTION EQUIPMENT

## D. OFFICES AND STAFF

Group's head offices are located in Athens, 92 Athinon Avenue at a land of 10.570 m<sup>2</sup> with a 4 floor Central Building of 7.200 m<sup>2</sup> and 2.400 m<sup>2</sup> of additional buildings (warehouses, technical facilities, etc). Company owns also premises at Sindos - Thessaloniki (land of 18.000 m<sup>2</sup>, Offices and Warehouses of 1.800 m<sup>2</sup>) and at Kavallas' Industrial Area (land of 30.000 m<sup>2</sup>, Offices and Warehouses of 3.000 m<sup>2</sup>).

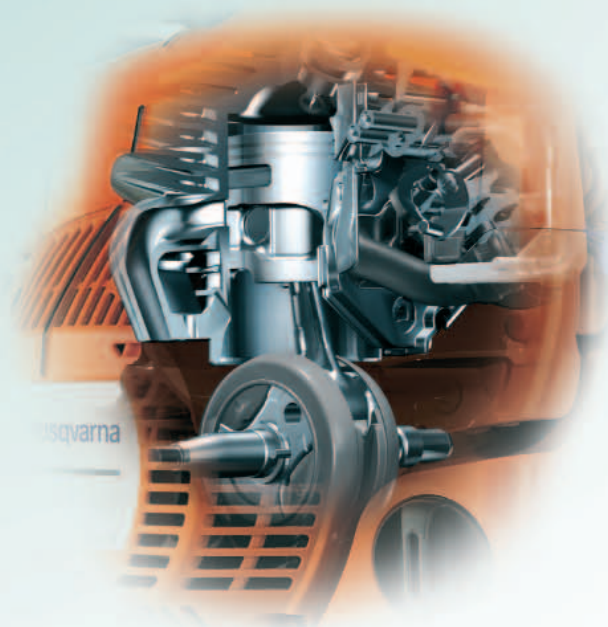
The Group is employing today 110 persons.

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