



AGENG CONFERENCE 2018

New engineering concepts for a valued agriculture

8 – 12 July 2018, Wageningen, the Netherlands

Conference Agenda

Session Overview

Date: Saturday, 07/Jul/2018

9:00am - 5:00pm	CIGR exec meeting: CIGR executive board strategy meeting Location: Forum Room Cxxx Chair: Dr. Claus Sørensen
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Date: Sunday, 08/Jul/2018

10:00am - 10:30am	Coffee break 1: Coffee break Sunday morning Location: Orion Room 0009 Restaurant	
10:30am - 12:00pm	dummy 01: Dummy 01 Location: Orion Room C1032	IRCAEW 01: IRCAEW workshop part 1 Location: Orion Room C1040 Chair: Prof. Baoming Li Chair: Prof. Hongwei Xin
12:00pm - 1:00pm	Lunch 01: Lunch Sunday (Council & EB members, IRCAEW workshop) Location: Orion Room 0009 Restaurant	
12:00pm - 6:00pm	Registration Sunday: Registration AgEng2018 Conference Location: Orion Room 0003 Exhibition area 1	Welcome reception (informal) Location: Orion Room 0009 Restaurant
1:00pm - 3:30pm	EurAgEng 01: EurAgEng Council meeting Location: Orion Room C1032 Chair: David Tinker Chair: Dr. Claus Sørensen	IRCAEW 02: IRCAEW workshop part 2 Location: Orion Room C1040 Chair: Prof. Baoming Li Chair: Prof. Hongwei Xin
3:30pm - 4:00pm	Coffee break Sunday afternoon Location: Orion Room 0009 Restaurant	
4:00pm - 5:30pm	EurAgEng 02: Editorial Board meeting Journal of Biosystems Engineering Location: Orion Room C1032 Chair: Dr. Bill Day Chair: David Tinker	IRCAEW 03: Board meeting IRCAEW Location: Orion Room C3020 Chair: Prof. Baoming Li Chair: Prof. Hongwei Xin

Date: Monday, 09/Jul/2018

7:00am - 5:00pm	Registration Monday: Registration AgEng2018 conference Location: Orion Room 0003 Exhibition area 1										
9:30am - 10:30am	Plenary Session 1: Plenary Session AgEng2018 conference (part 1) Location: Orion Room Waaijer (Room 1005/1040/2005/2006/2050/2051) Chair: Prof. Peter (P.W.G.) Groot Koerkamp Chair: Dr. Karin Groenestein										
10:30am - 11:00am	Coffee break 3: Coffee break Monday morning Location: Orion Room 0009 Restaurant										
11:00am - 12:00pm	Plenary session 2: Plenary Session AgEng2018 conference (part 2) Location: Orion Room Waaijer (Room 1005/1040/2005/2006/2050/2051) Chair: Prof. Peter (P.W.G.) Groot Koerkamp Chair: Dr. Karin Groenestein										
12:00pm - 1:30pm	Lunch 02: Lunch Monday Location: Orion Room 0009 Restaurant										
12:15pm - 1:15pm	Campus Tour 01: Agro-Food Robotics - Greenhouse Technology	Campus Tour 02: Agro-Food Robotics - Field Technology	Campus Tour 03: Carus - Research facility Animal Sciences	Campus Tour 04: Algae Parc - Pilot facility Algae Research	Campus Tour 05: ()	Campus Tour 06: ()	Campus Tour 07: ISRIC - World Soil Museum				
1:30pm - 3:00pm	Session 01: Topic 7 Animal production technology: LivAGE - Measuring and reducing emissions Location: Orion Room C0106 Chair: Dr. Guoqiang Zhang Chair: Dr. Andre Aarnink	Session 02: Topic 7 Animal production technology - sensors cattle and sheep Location: Orion Room C1040	Session 03: Topic 4 Robotic Systems in Orchards Location: Orion Room C2005	Session 04: Topic 4 Robotic Systems in Livestock Location: Orion Room C2006	Session 05: Topic 10 Post Harvest Technology Location: Orion Room C2050	Session 06: Topic 9 Co-production and implementations of technology in food production systems 1 Location: Orion Room C2051	Session 07: topic 8 Plant Production technologies (planting) Location: Orion Room C2030	Session 08: topic 5 EG: New energy sources for agricultural applications Location: Orion Room C2035	Session 09: topic 6 Soil, land and water engineering (water 1) Location: Orion Room C1032		
3:00pm - 4:00pm	Coffee break 4 Posters: Coffee break and poster session Monday afternoon Location: Orion Room 0009 Restaurant										
4:00pm - 5:30pm	Session 11: Topic 7: Animal production technology: LivAGE -	Session 12: Topic 7 Animal production technology - sensors pigs and	Session 13: Topic 4 Robotic Systems in Open Fields Location: Orion Room	Session 14: Topic 4 Robotic Systems in Pastures Location: Orion Room	Session 15: Topic 2 New Farming Management Systems - general Location: Orion Room	Session 16: Topic 9 Co-production and implementations of technology in	Session 17: topic 8 Plant Production technologies (tillage and CTF)	Session 18: topic 5 EG: Biogas production from novel substrates Location: Orion Room	Session 19: topic 6 Soil, land and water engineering (water 2) Location: Orion Room		

	Modelling emissions Location: Orion Room C0106 Chair: Dr. Guoqiang Zhang Chair: Dr. Andre Aarnink	poultry Location: Orion Room C1040	C2005	C2006	C2050	food production systems 2 Location: Orion Room C2051	Location: Orion Room C2030	C2035	C1032
5:30pm - 7:30pm	ASABE/EurAgEng meeting: ASABE-EurAgEng collaboration on Global Initiative for Sustainability Location: Orion Room C1040 Chair: Dr. Claus Sørensen Chair: Prof. Lalit Verma				Workshop LivAGE: Ammonia and greenhouse gas emission from livestock housing Location: Orion Room C0106 Chair: Dr. Peter Demeyer Chair: Dr. Andre Aarnink				
7:30pm - 11:00pm	Dinner Monday LivAGE: Drinks & Dinner				Dinner Monday: Young Engineers Drinks & Barbecue				

Date: Tuesday, 10/Jul/2018

8:00am - 5:00pm	Registration Tuesday: Registration AgEng2018 conference Location: Orion Room 0003 Exhibition area 1								
8:30am - 10:00am	Session 21: Topic 7 Animal production technology - ammonia, GHG and other emissions 1 Location: Orion Room C0106	Session 22: Topic 7 Animal production technology - farm technology 1 Location: Orion Room C1040	Session 23: Topic 4 Robotic Systems in Fruit orchards and Vineyards: Location: Orion Room C2005	Session 24: Topic 4 Robotic Systems for Plant observations Location: Orion Room C2006	Session 25: topic 1 FS: New farming systems and concepts Location: Orion Room C2050	Session 26: Topic 2 New farming management systems - IoF 1 Location: Orion Room C2051	Session 27: topic 8 Plant Production technologies (spraying 1) Location: Orion Room C2030	Session 28: topic 5 EG: Energy use and efficiency of tractors Location: Orion Room C2035	Session 29: Topic 11 Nutrient Mangement and Waste Treatment 1 Location: Orion Room C1032
10:00am - 10:30am	Coffee Break 5: Coffee break Tuesday morning Location: Orion Room 0009 Restaurant								
10:30am - 12:00pm	Session 31: Topic 7 Animal production technology: ammonia, GHG and other emissions 2 Location: Orion Room C0106	Session 32: Topic 7 Animal production technology: farm technology 2 Location: Orion Room C1040	Session 33: Topic 4 Robotic Systems for Remote Sensing in open fields Location: Orion Room C2005	Session 34: Topic 4 Robotic Systems: various topics Location: Orion Room C2006	Session 35: topic 1 FS: New farming concepts in arable farming Location: Orion Room C2050	Session 36: Topic 2 New farming management systems - IoF 2 Location: Orion Room C2051	Session 37: topic 8 Plant Production technologies (phenotyping weeds and crops) Location: Orion Room C2030	Session 38: topic 5 EG: GHG from milk production and slurry application Location: Orion Room C2035	Session 39: Topic 11 Nutrient management and waste treatment 2 Location: Orion Room C1032
12:00pm - 1:30pm	Lunch 03: Lunch Tuesday Location: Orion Room 0009 Restaurant								
12:15pm - 1:15pm	Campus Tour 11: Agro-Food Robotics - Greenhouse Technology	Campus Tour 12: Agro-Food Robotics - Field Technology	Campus Tour 13: Carus - Research facility Animal Sciences	Campus Tour 14: Algae Parc - Pilot facility Algae Research	Campus Tour 15: FrieslandCampina - Innovation Centre	Campus Tour 16: NIOO - Netherlands Institute of Ecology	Campus Tour 17: ISRIC - World Soil Museum	EurAgEng 07: EurAgEng General Assembly / Open Meeting (open for all attendees) Location: Orion Room C2030 Chair: David Tinker Chair: Dr. Claus Sørensen	
1:30pm - 3:00pm	Session 41 ENGAGE: ENGAGE meeting – Engineering Future Food – the position of agricultural engineering Location: Orion Room C0106 Chair: Dr. Reiner Brunsch			Session 42 AgEng 03: Agricultural Engineering – The role of education Location: Orion Room C1040 Chair: Prof. Pierluigi Febo			Session 43: Publication workshop by Elsevier / Journal of Biosystems Engineering Location: Orion Room C3015 Chair: Dr. Bill Day Chair: Dr. Steve Parkin		
3:00pm	Coffee break 6 posters: Coffee break and poster session Tuesday afternoon Location: Orion Room 0009 Restaurant								

- 4:00pm	Further information to be specified								
4:00pm - 5:30pm	Session 51: topic 7 Animal Production: ??? Location: Orion Room C0106	Session 52: topic 7 Animal Production: ?? Location: Orion Room C1040	Session 53: Topic 4 Robotic Systems using satellites for yield monitoring Location: Orion Room C2005	Session 54: Topic 10 Post Harvest storage conditions Location: Orion Room C2006	Session 55: topic 1 FS: Challenges for future livestock systems Location: Orion Room C2050	Session 56: Topic 2 New farming management systems: precision farming 1 Location: Orion Room C2051	Session 57: topic 8 Plant Production technologies (phenotyping pests and crops) Location: Orion Room C2030	Session 58: topic 5 EG: Energy use and GHG emissions from various systems Location: Orion Room C2035	Session 59: topic 6 Soil, land and water engineering (soil 1) Location: Orion Room C1032
5:00pm - 6:00pm	CIGR WGII: CIGR Working Group II Structures and Environment Location: Orion Room C3040			EurAgEng WG (1): EurAgEng Working Group Rural Buildings and Landscape Location: Orion Room C3042 Chair: Prof. Patrizia Tassinari			EurAgEng WG (2): EurAgEng Working Group (open slot) Location: Orion Room C3043		
7:00pm - 8:00pm	Welcome reception: Welcome reception and award ceremony Location: Town Hall City of Wageningen (Markt 22, Wageningen)								
8:00pm - 10:00pm	Conference dinner: Conference Dinner Tuesday (only if registered) Location: Grote Kerk ('Big Church') (Markt 1, Wageningen)								

Date: Wednesday, 11/Jul/2018

8:00am - 5:00pm	Registration Wednesday: Registration AgEng2018 conference Location: Orion Room 0003 Exhibition area 1								
8:30am - 10:00am	Session 61: Topic 7 Animal production technology: ammonia, GHG and other emissions 3 Location: Orion Room C0106	Session 62: Topic 7 Animal production technology: climate control 1 Location: Orion Room C1040	Session 63: Topic 4 Robotic Systems for Orchards and Vineyards Location: Orion Room C2005	Session 64: Topic 10 Post Harvest technologies and simulations Location: Orion Room C2006	Session 65: topic 1 FS: Location: Orion Room C2050	Session 66: Topic 2 New farming management systems: precision farming 2 Location: Orion Room C2051	Session 67: topic 8 Plant Production technologies (spraying 2) Location: Orion Room C2030	Session 68: topic 5 EG: vrijgemaakt Location: Orion Room C2035	Session 69: topic 6 Soil, land and water engineering (water 3) Location: Orion Room C1032
10:00am - 10:30am	Coffee break 7: Coffee break Wednesday morning Location: Orion Room 0009 Restaurant								
10:30am - 12:00pm	Session 71: Topic 7 Animal production technology: odour and fine dust (PM) 1 Location: Orion Room C0106	Session 72: Topic 7 Animal production technology: climate control 2 Location: Orion Room C1040	Session 73: Topic 4 Robotic Systems for monitoring in open fields Location: Orion Room C2005	Session 74: Topic 10 Post Harvest product quality Location: Orion Room C2006	Session 75: Topic 9 GP: Miscellaneous topics in greenhouse production Location: Orion Room C2050	Session 76: Topic 2 New farming management systems: traceability and decision support 1 Location: Orion Room C2051	Session 77: topic 8 Plant Production technologies (phenotyping orchard crops) Location: Orion Room C2030	Session 78: topic 5 EG: Energy and GHG from livestock systems Location: Orion Room C2035	Session 79: topic 6 Soil, land and water engineering (soil 2 and landscape) Location: Orion Room C1032
12:00pm - 1:30pm	Lunch 04: Lunch Wednesday Location: Orion Room 0009 Restaurant								
12:15pm - 1:15pm	Campus Tour 21: Agro-Food Robotics - Greenhouse Technology	Campus Tour 22: Agro-Food Robotics - Field Technology	Campus Tour 23: Carus - Research facility Animal Sciences	Campus Tour 24: Algae Parc - Pilot facility Algae Research	Campus Tour 25: ()	Campus Tour 26: ()	Campus Tour 27: ISRIC - World Soil Museum		
1:30pm - 3:00pm	Session 81: Topic 7 Animal production technology: odour and fine dust (PM) 2 Location: Orion Room C0106	Session 82: Topic 7 Animal production technology: climate and light control Location: Orion Room C1040	Session 83: Topic 4 Robotic Systems in Orchards Location: Orion Room C2005	Session 84: Topic 4 Robotic Systems general Location: Orion Room C2006	Session 85: Topic 9 GP: Energy and climate in greenhouses Location: Orion Room C2050	Session 86: Topic 2 New farming management systems: Traceability and decision support 2 Location: Orion Room C2051	Session 87: topic 8 PP: Location: Orion Room C2030	Session 88: topic 5 EG: Modelling of energy and GHG emissions Location: Orion Room C2035	Session 89: topic 6 SW: Location: Orion Room C1032
3:00pm -	Coffee break 8: Coffee break Wednesday afternoon Location: Orion Room 0009 Restaurant								

3:30pm	
3:30pm - 5:00pm	Session 91: AgEng2018 closing session Location: Orion Room Waaijer (Room 1005/1040/2005/2006/2050/2051)
5:00pm - 6:00pm	EurAgEng 06: AgEng2018 evaluation and AgEng2020 preparation Location: Orion Room C1032 Chair: David Tinker

Date: Thursday, 12/Jul/2018

8:00am - 6:00pm	Field trip 1: Smart dairy farming Chair: Bert Ipema Chair: Prof. Kees Lokhorst	Field trip 2: Horticulture automation and robotics Chair: Dr. Silke Hemming Chair: Prof. Eldert van Henten	Field trip 3: Precision arable farming Chair: Dr. Corné Kempenaar Chair: Prof. Peter (P.W.G.) Groot Koerkamp	Field trip 4: Innovative pig and poultry farming Chair: Dr. Karin Groenestein Chair: Maarten Vrolijk
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