



AGENG CONFERENCE 2018

New engineering concepts for a valued agriculture

8 – 12 July 2018, Wageningen, the Netherlands

Conference Agenda

Session Overview

Date: Sunday, 08/Jul/2018

9:00am - 10:30am		IRCAEW Workshop research updates - part 1 Location: Orion Room C1032 Chair: Prof. Baoming Li Chair: Prof. Hongwei Xin
10:30am - 10:45am	Coffee break Sunday morning Location: Orion Restaurant	
10:45am - 12:00pm		IRCAEW Workshop research updates - part 2 Location: Orion Room C1032 Chair: Prof. Baoming Li Chair: Prof. Hongwei Xin
12:00pm - 1:00pm	Lunch Sunday (Council & EB members, IRCAEW workshop) Location: Orion Restaurant	
12:00pm - 6:00pm	Registration AgEng2018 Conference Sunday Location: Orion Ground floor	Welcome with coffee and from 16.00 h reception Location: Orion Restaurant
1:00pm - 3:30pm	EurAgEng Council meeting Location: Orion Room C3020 Chair: David Tinker Chair: Dr. Claus Sørensen	IRCAEW Workshop research updates - part 3 Location: Orion Room C1032 Chair: Prof. Baoming Li Chair: Prof. Hongwei Xin
3:30pm - 4:00pm	Coffee break Sunday afternoon Location: Orion Restaurant	
4:00pm - 6:00pm	Editorial Board meeting Journal of Biosystems Engineering Location: Orion Room C3020 Chair: Dr. Bill Day Chair: Dr. Steve Parkin	IRCAEW Board meeting Location: Orion Room C1032 Chair: Prof. Baoming Li Chair: Prof. Hongwei Xin

Date: Monday, 09/Jul/2018

7:00am - 5:00pm	Registration AgEng2018 conference Monday Location: Orion Ground floor								
9:30am - 10:30am	Plenary Session AgEng2018 conference (part 1) Location: Orion Room Waaijer (Room 1005/1040/2005/2006/2050/2051) Chair: Maarten Vrolijk								
10:30am - 11:00am	Coffee break Monday morning Location: Orion Restaurant								
11:00am - 12:00pm	Plenary Session AgEng2018 conference (part 2) Location: Orion Room Waaijer (Room 1005/1040/2005/2006/2050/2051) Chair: Maarten Vrolijk								
12:00pm - 1:30pm	Lunch Monday Location: Orion Restaurant								
12:15pm - 1:15pm	Campus Tour 01: Agro-food robotics 1 - Horticulture	Campus Tour 02: Agro-food robotics 2 - Open field	Campus Tour 03	Campus Tour 04	Campus Tour 05	Campus Tour 06	Campus Tour 07	Campus Tour 08: Inter-cropping and pixel farming	
1:30pm - 3:00pm	Session 01: Topic 7 Animal production technology: LivAGE - Measuring and reducing emissions Location: Orion Room C2050	Session 02: Topic 7 Animal production technology - Sensors cattle and sheep Location: Orion Room C2051 Chair: Robert Kaufmann	Session 03: Topic 4 Robotic systems in orchards Location: Orion Room C2005 Chair: Prof. Paolo Gay	Session 04: Topic 4 Robotic systems in livestock Location: Orion Room C2006 Chair: Dr. Thomas Anken	Session 05: Topic 10 Post harvest technology Location: Orion Room C1005 Chair: Dr. Antonis Mistriotis	Session 06: Topic 3 Co-production and implementations of technology 1 Location: Orion Room C2035 Chair: Prof. Pilar Barreiro	Session 07: Topic 8 Plant production technologies - Planting Location: Orion Room C2030 Chair: Dr. Corné Kempenaar	Session 08: Topic 5 New energy sources for agricultural applications Location: Orion Room C1040 Chair: Dr. Piotr Biernacki	Session 09: Topic 6 Soil, land and water engineering - Water 1 Location: Orion Room C1032 Chair: Prof. Francisco Ayuga

	Chair: Dr. Guoqiang Zhang Chair: Dr. Andre Aarnink									
3:00pm - 4:00pm	Coffee break and poster session Monday afternoon Location: Orion Restaurant									
4:00pm - 5:30pm	Session 11: Topic 7 Animal production technology: LivAGE - Modelling emissions Location: Orion Room C2050 Chair: Dr. Guoqiang Zhang Chair: Dr. Andre Aarnink	Session 12: Topic 7 Animal production technology - Sensors pigs and poultry Location: Orion Room C2051 Chair: Pieter Hogewerf	Session 13: Topic 4 Robotic systems in open fields Location: Orion Room C2005 Chair: Dr. Gerrit Polder	Session 14: Topic 4 Robotic systems in pastures Location: Orion Room C2006 Chair: Dr. Lammert Kooistra	Session 15: Topic 2 New farming management systems - General Location: Orion Room C1005 Chair: Dr. Rik van der Tol	Session 16: Topic 3 Co-production and implementations of technology 2 Location: Orion Room C2035 Chair: Prof. Peter (P.W.G.) Groot Koerkamp	Session 17: Topic 8 Plant production technologies - Tillage and CTF Location: Orion Room C2030 Chair: Jan Kamp	Session 18: Topic 5 Biogas production from novel substrates Location: Orion Room C1040 Chair: Dr. Roland W. Melse	Session 19 Location: Orion Room C1032	
5:30pm - 7:30pm	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 C1005 Chair: Dr. Peter Demeyer Chair: Dr. Andre Aarnink					
7:30pm - 11:00pm	Young Engineers Drinks & Barbecue Location: Barbecue place near Forum building on Campus									

Date: Tuesday, 10/Jul/2018

8:00am - 5:00pm	Registration AgEng2018 conference Tuesday Location: Orion Ground floor									
8:30am - 10:00am	Session 21: Topic 7 Animal production technology - Emissions 1 Location: Orion Room C2050 Chair: Dr. Marjolein Derks	Session 22: Topic 7 Animal production technology - On farm technology 1 Location: Orion Room C2051 Chair: Bert Ipema	Session 23: Topic 4 Robotic systems in fruit orchards and vineyards: Location: Orion Room C2005 Chair: Prof. Francisco Rovira-Mas	Session 24: Topic 4 Robotic systems for plant observations Location: Orion Room C2006 Chair: Jan Kamp	Session 25: Topic 1 New farming systems and concepts Location: Orion Room C1005 Chair: Prof. Thomas Banhazi	Session 26: Topic 2 New farming management systems - loF 1 Location: Orion Room C2035 Chair: Dr. Cor Verdouw	Session 27: Topic 8 Plant production technologies - Spraying 1 Location: Orion Room C2030 Chair: Dr. Ard Nieuwenhuizen	Session 28: Topic 5 Energy use and efficiency of tractors Location: Orion Room C1040 Chair: Dr. Thomas Bartzanas	Session 29: Topic 11 Nutrient management and waste treatment 1 Location: Orion Room C1032 Chair: Dr. Karin Groenestein	
10:00am - 10:30am	Coffee break Tuesday morning Location: Orion Restaurant									
10:30am - 12:00pm	Session 31: Topic 7 Animal production technology - Emissions 2 Location: Orion Room C2050 Chair: Dr. Peter Demeyer	Session 32: Topic 7 Animal production technology - On farm technology 2 Location: Orion Room C2051 Chair: Dr. Jan Harms	Session 33: Topic 4 Robotic systems for remote sensing in open fields Location: Orion Room C2005 Chair: Dr. Jean-Pierre Chanet	Session 34: Topic 4 Robotic systems - Various topics Location: Orion Room C2006 Chair: Emmanuel Hugo	Session 35: Topic 1 New farming concepts in arable farming Location: Orion Room C1005 Chair: Prof. Pierluigi Febo	Session 36: Topic 2 New farming management systems - loF 2 Location: Orion Room C2035 Chair: Dr. Sjaak Wolfert	Session 37: Topic 8 Plant production technologies - Phenotyping weeds and crops Location: Orion Room C2030 Chair: Dr. Gerrit Polder	Session 38: Topic 5 GHG emissions from milk production and slurry application Location: Orion Room C1040 Chair: Prof. Qiang Zhang	Session 39: Topic 11 Nutrient management and waste treatment 2 Location: Orion Room C1032 Chair: Dr. Adam Dubowski	
12:00pm - 1:30pm	Lunch Tuesday Location: Orion Restaurant									
12:15pm - 1:15pm	Campus Tour 11: Agro-food robotics 1 - Horticulture	Campus Tour 12: Agro-food robotics 2 - Open field	Campus Tour 13: Carus - Research facility animal sciences	Campus Tour 14: AlgaePARC - Pilot facility algae research	Campus Tour 15	Campus Tour 16	Campus Tour 17	EurAgEng General assembly - Open meeting (for all attendees) Location: Orion Room C1032 & C2035 Chair: David Tinker Chair: Dr. Claus Sørensen		
1:30pm - 3:00pm	Session 41: ENGAGE Engineering future food – The position of agricultural engineering Location: Orion Room C1005 Chair: Dr. Reiner Brunsch			Session 42: 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 C1032 Chair: Dr. Bill Day Chair: Dr. Steve Parkin				
3:00pm - 4:00pm	Coffee break and poster session Tuesday afternoon Location: Orion Restaurant									
4:00pm -	Session 51: Topic 7 VERA	Session 52: Topic 9	Session 53: Topic 4	Session 54: Topic 10 Post	Session 55: Topic 1	Session 56: Topic 2 New	Session 57: Topic 8 Plant	Session 58: Topic 5 Energy	Session 59: Topic 6 Soil,	

5:30pm	workshop - Harmonisation of livestock emission measurements in EU Location: Orion Room C2050 Chair: Iris Beckert	Greenhouse production technology - Various topics Location: Orion Room C2051 Chair: Dr. Thomas Bartzanas	Robotic systems using satellites for yield monitoring Location: Orion Room C2005 Chair: Prof. Gilbert Grenier	harvest storage conditions Location: Orion Room C2006 Chair: Prof. Wolfgang Büscher	Challenges for future livestock systems Location: Orion Room C1005 Chair: Prof. Peter (P.W.G.) Groot Koerkamp	farming management systems - Precision farming 1 Location: Orion Room C2035 Chair: Prof. Peter Schulze Lammers	production technologies - Phenotyping pests and crops Location: Orion Room C2030 Chair: Dr. Gert Kootstra	use and ghg emissions from various systems Location: Orion Room C1040 Chair: Jan Kamp	land and water engineering - Soil 1 Location: Orion Room C1032 Chair: Elisa Maria Schopphoven
5:00pm - 6:00pm	CIGR Working group II Structures and environment Location: Orion Room C1005 Chair: Prof. Tomas Norton			EurAgEng Innovators Session Location: Orion Room C1032 Chair: David Tinker		EurAgEng Working Group Rural Buildings and Landscape Location: Orion Room C1040 Chair: Prof. Patrizia Tassinari			
7:00pm - 8:00pm	Welcome reception and award ceremony Location: Town Hall City of Wageningen (Markt 22, Wageningen)								
8:00pm - 11:00pm	Conference dinner Location: Grote Kerk ('Big Church') (Markt 1, Wageningen)								

Date: Wednesday, 11/Jul/2018

8:00am - 5:00pm	Registration AgEng2018 conference Wednesday Location: Orion Ground floor								
8:30am - 10:00am	Session 61: Topic 7 Animal production technology - Emissions 3 Location: Orion Room C2050 Chair: Dr. Nico Ogink	Session 62: Topic 7 Animal production technology - Climate control 1 Location: Orion Room C2051 Chair: Prof. Sandra Rose-Meierhöfer	Session 63: Topic 4 Robotic systems for orchards and vineyards Location: Orion Room C2005 Chair: Dr. Jochen Hemming	Session 64: Topic 10 Post harvest technology and simulations Location: Orion Room C2006 Chair: Prof. Pilar Barreiro	Session 65 Location: Orion Room C1005	Session 66: Topic 2 New farming management systems - Precision farming 2 Location: Orion Room C2035 Chair: Prof. Kees Lokhorst	Session 67: Topic 8 Plant production technology - Phenotyping orchard crops Location: Orion Room C2030 Chair: Dr. Kornél Szalay	Session 68 Location: Orion Room C1040	Session 69: Topic 6 Soil, land and water engineering - Water 2 Location: Orion Room C1032 Chair: Maarten Vrolijk
10:00am - 10:30am	Coffee break Wednesday morning Location: Orion Restaurant								
10:30am - 12:00pm	Session 71: Topic 7 Animal production technology - Odour and particulate matter 1 Location: Orion Room C2050 Chair: Dr. Guoqiang Zhang	Session 72: Topic 7 Animal production technology - Climate control 2 Location: Orion Room C2051 Chair: Prof. Thomas Amon	Session 73: Topic 4 Robotic systems for monitoring in open fields Location: Orion Room C2005 Chair: Dr. Gert Kootstra	Session 74: Topic 10 Post harvest product quality Location: Orion Room C2006 Chair: Prof. Heinz Bernhardt	Session 75: The future farm - Vision by New Holland Location: Orion Room C1005 Chair: Prof. Peter (P.W.G.) Groot Koerkamp	Session 76: Topic 2 New farming management systems - Traceability and decision support 1 Location: Orion Room C2035 Chair: Robert Kaufmann	Session 77: Topic 8 Plant production technology - Spraying 2 Location: Orion Room C2030 Chair: Jan van de Zande	Session 78: Topic 5 Energy and ghg from livestock systems Location: Orion Room C1040 Chair: Dr. Andre Aarnink	Session 79: Topic 6 Soil, land and water engineering - Soil 2 and landscape Location: Orion Room C1032 Chair: Prof. Patrizia Tassinari
12:00pm - 1:30pm	Lunch Wednesday Location: Orion Restaurant								
12:15pm - 1:15pm	Campus Tour 21	Campus Tour 22	Campus Tour 23: Carus - Research facility animal sciences	Campus Tour 24	Campus Tour 25: NIOO - Netherlands Institute of Ecology	Campus Tour 26: FrieslandCampina - Innovation centre	Campus Tour 27: ISRIC - World soil museum		
1:30pm - 3:00pm	Session 81: Topic 7 Animal production technology - Odour and particulate matter 2 Location: Orion Room C2050 Chair: Dr. Piet Derikx	Session 82: Topic 7 Animal production technology - Climate and light control Location: Orion Room C2051 Chair: Dr. Reiner Brunsch	Session 83: Topic 4 Robotic systems in orchards Location: Orion Room C2005 Chair: Dr. Markus Demmel	Session 84: Topic 4 Robotic systems - General Location: Orion Room C2006 Chair: Prof. Eldert van Henten	Session 85 Location: Orion Room C1005	Session 86: Topic 2 New farming management systems - Traceability and decision support 2 Location: Orion Room C2035 Chair: Dr. Simon van Mourik	Session 87 Location: Orion Room C2030	Session 88: Topic 5 Modelling of energy and ghg emissions Location: Orion Room C1040 Chair: Dr. Carlo Bisaglia	Session 89 Location: Orion Room C1032
2:00pm - 4:30pm	Agro-food mindstorms challenge - Training Location: Orion Ground floor								
3:00pm - 3:30pm	Coffee break Wednesday afternoon Location: Orion Restaurant								
3:30pm - 4:30pm	Session 91: AgEng2018 Closing session Location: Orion Room Waaijer half (Rooms 1040/2050/2051) Chair: Prof. Peter (P.W.G.) Groot Koerkamp Chair: Dr. Claus Sörensen								
4:30pm - 5:30pm	Agro-food mindstorms challenge - Competition Location: Orion Restaurant								
5:00pm	AgEng2018 evaluation and AgEng2020 preparation								

- 6:00pm	Location: Orion Room C1032 Chair: David Tinker
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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. Peter (P.W.G.) Groot Koerkamp	Field trip 3: Precision arable farming Chair: Dr. Corné Kempenaar Chair: Jan Kamp	Field trip 4: Innovative pig and poultry farming Chair: Dr. Karin Groenestein Chair: Maarten Vrolijk
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