

News from EurAgEng



EurAgEng

8-12 JULY 2018, Wageningen, The Netherlands - www.ageng2018.com

AgEng 2018



WAGENINGEN
UNIVERSITY & RESEARCH



Congratulations Wageningen on your 100th anniversary. Thank you to the organising committee and many sponsors of AgEng2018. Greetings delegates and we hope you have a fruitful time at AgEng2018.

Welcome to the Incoming President

Professor Peter Groot Koerkamp

Not content with the huge job of organising AgEng2018 Wageningen, Professor Peter Groot Koerkamp, will also take over the reins of EurAgEng for the next two years as President of the European Society of Agricultural Engineers.

The baton will be handed over by the outgoing president Claus Grøn Sørensen at the EurAgEng Open Meeting to be held on Tuesday lunchtime. Claus is not retiring though - he will continue to serve as Immediate Past President - and will continue with the work he has done promoting EurAgEng worldwide through his connexions with CIGR, ASABE and the Global Initiative on Food Production. He has also raised our profile in Europe with his involvement in some of the largest EU agricultural projects. EurAgEng is very grateful for his contribution.

Peter is also a leading academic and is currently professor and chair holder at the Farm Technology Group of Wageningen University and senior scientist at Wageningen Livestock Research. His fields of expertise are agricultural & biosystems engineering, agricultural systems, animal and plant production systems, environmental engineering & technology, and design of sustainable production systems.

His career started with an MSc in agricultural engineering in 1990, followed by a PhD in 1998. Nowadays he supervises 10 PhD students, is an author in many key publications, as well as all the other demands of his post and his international connections through editing and reviewing for a range of journals and his membership of international boards such as EurAgEng, IRCAEW, Agro-Food of SMK and more.

We are certain that EurAgEng continues in good hands and we all wish him the best in this new challenge and his desire to move the society forwards. See you at the Open Meeting!



Say hello to the new Secretary General!

Dr. Ivo Hostens

EurAgEng welcomes Dr. Ivo Hostens of CEMA as he takes over the EurAgEng Secretariat from David Tinker.

He is based at CEMA in Brussels and along with the next President, Peter Groot Koerkamp, of Wageningen University in the Netherlands, he will be taking the society forward and promoting the role of the agricultural engineer, in collaboration with other disciplines, as we face the challenge of feeding our planet in the future in a sustainable way.

Dr. Ivo Hostens is a bio-engineer holding a PhD in Applied Biological Sciences, by the University of Leuven, BE. After several years in technical consultancy, he joined AGORIA the Federation for Technological Industry as senior expert in horizontal technical legislation. In this function he also coordinated the technical work in CEMA.

Since 2015 he works fulltime for CEMA as technical director and defends the interests of about 4,500 European agricultural machinery manufacturers towards the European Institutions.

Please introduce yourself to Ivo when you see him around the conference.

*EurAgEng is the European Network for
Engineering and Systems in the Rural Sector*

A farewell from David Tinker

Well these are the last few words from me.

You will have already seen that there is a new Secretary General. I have had a wonderful time meeting agricultural and biosystems engineers from around Europe and visiting cities and Universities for conferences, machinery factories for Executive meetings and Brussels to promote agricultural engineering in research programmes. When the previous SecGen, Mike Hurst, handed over to me (April 2006) he said, "the agricultural engineers that you'll meet are the friendliest people around" - he was right! There have been some good technical discussions, strategic debates, consultations, deliberations,

excellent conferences, brilliant Presidents and first-rate Council and Executive Members and superb beers and food!

I must thank Nicky for arranging agendas, taking minutes, communicating with members, collecting subscriptions and keeping me on course.

Nicky and I thank you all for 12 superb years. We will watch for news of the wonderful ideas EurAgEng members are working on to provide food, improve the environment and be at the heart of the multi-disciplinary technological collaborations that are being established to confront these burning issues.

We both wish you all, 2000 and more of you, fascinating careers, brilliant results and successes that will show the world that agricultural and biosystems engineers can do (almost) anything.

Farewell,



David and Nicky



Win 5000 Euros in Farming By Satellite Prize - Students and others register now!

14 July 2018 latest, and answer "How can we use satellite technologies to improve agriculture and reduce environmental impact?"

Dr Andrew Speedy, Chair of Judges, said: "We're looking for new ideas and innovations, particularly those relying upon Europe's satellite navigation services EGNOS, Galileo and the European Earth Observation programme, Copernicus. Students and young professionals need to complete their projects over the summer. We expect submissions on hot topics like Big Data, augmented reality, farming 4.0, artificial intelligence and more!"

Finalists get an expenses paid invitation to a major event in late 2018 for the judging and awards ceremony.

This is an initiative of the European GNSS Agency and the European Environment Agency and aims to promote Europe's Global Navigation Satellite System (GNSS) and Earth Observation (EO) services in agriculture; EGNOS, Galileo and the European Earth Observation programme, Copernicus and is sponsored by Claas.

See www.farmingbysatellite.eu and www.youtube.com/watch?v=i5U9uZFOxSw for information.

Shortlist for the Biosystems Engineering Outstanding Paper Award 2018

Detection of aphids in wheat fields using a computer vision technique [141 (2016) 82 - 93]

Tao Liu, Wen Chen, Wei Wu, Chengming Sun*, Wenshan Guo**, Xinkai Zhu
<http://dx.doi.org/10.1016/j.biosystemseng.2015.11.005>

In-field automatic observation of wheat heading stage using computer vision [143 (2016) 28-41]

Yanjun Zhu, Zhiguo Cao, Hao Lu, Yanan Li, Yang Xiao
<http://dx.doi.org/10.1016/j.biosystemseng.2015.12.015>

Design of an eye-in-hand sensing and servo control framework for harvesting robotics in dense vegetation [146 (2016) 71-84]

Ruud Barth*, Jochen Hemming, Eldert J. van Henten
<http://dx.doi.org/10.1016/j.biosystemseng.2015.12.001>

Ambient awareness for agricultural robotic vehicles [146 (2016) 114-132]

Giulio Reina, Annalisa Milella, Raphaë l'Rouveure, Michael Nielsen, Rainer Worst, Morten R. Blas
<http://dx.doi.org/10.1016/j.biosystemseng.2015.12.010>

Parameters and contact models for DEM simulations of agricultural granular materials: A review [147 (2016) 206-225]

Józef Horabik, Marek Molenda
<http://dx.doi.org/10.1016/j.biosystemseng.2016.02.017>

Agricultural robots for field operations: Concepts and components [149 (2016) 94-111]

Avital Bechar, Clément Vigneault
<http://dx.doi.org/10.1016/j.biosystemseng.2016.06.014>

Plant species classification using deep convolutional neural network [151 (2016) 72-80]

Mads Dyrmann, Henrik Karstoft, Henrik Skov Midtby
<http://dx.doi.org/10.1016/j.biosystemseng.2016.08.024>

Development and validation of a 3D CFD model of drift and its application to air-assisted orchard sprayers [154 (2016) 62-75]

Ashenafi T. Duga, Mulugeta A. Delele, Kris Ruysen, Donald Dekeyser, David Nuyttens, Dany Bylemans, Bart M. Nicolai, Pieter Verboven
<http://dx.doi.org/10.1016/j.biosystemseng.2016.10.010>

Rethinking environment control strategy of confined animal housing systems through precision livestock farming [155 (2016) 96-123]

Sébastien Fournel, Alain N. Rousseau, Benoit Laberge
<http://dx.doi.org/10.1016/j.biosystemseng.2016.12.005>

Integration of simultaneous tactile sensing and visible and near-infrared reflectance spectroscopy in a robot gripper for mango quality assessment [162 (2017) 112-123]

Victoria Cortés, Carlos Blanes, José Blasco, Coral Ortíz, Nuria Aleixos, Martín Mellado, Sergio Cubero, Pau Talens
<http://dx.doi.org/10.1016/j.biosystemseng.2017.08.005>

Variable air assistance system for orchard sprayers; concept, design and preliminary testing [163 (2017) 134-149]

Ryszard Holownicki, Grzegorz Doruchowski, Waldemar Swiechowski, Artur Godyn, Pawel J. Konopacki
<http://dx.doi.org/10.1016/j.biosystemseng.2017.09.004>



CONFERENCE ANNOUNCEMENT & CALL FOR PAPERS

3rd Rendez-Vous Techniques AXEMA

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Sustainable agriculture : An opportunity for innovation in machinery and systems

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• Academics
• Research sectors including non-agriculture specialists.

CONFERENCE LANGUAGE WILL BE ENGLISH

Parc des Expositions, Villepinte, FRANCE

CALL FOR PAPERS

Send your abstract before :

September 3, 2018

To : info.conference@axema.fr

Details at

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