

RENDEZ-VOUS TECHNIQUES AXEMA

3rd conference – February 23, 2019 – Parc des expositions, Paris Nord Villepinte

PROGRAM

8H45

CONFERENCE OPENING

9H00

PLENARY SESSION

EIP AGRI - THE AGRICULTURAL EUROPEAN INNOVATION PARTNERSHIP

Peter Pickel - John Deere GmbH & Co. KG

9H25

POSTERS PRESENTATION

SMART AGRICULTURE

SUSTAINABLE AGRICULTURE

10H00

Wireless In-Field Communication – AEF guideline for interoperable agrarian M2M communication

Franz Fuchshummer – AGCO GmbH
Johann Witte – Claas GmbH
Saverio Zuccotti – CNHi AG&CE
Manuel Gorius – John DEERE GmbH & Co.KG

Results from the EIP Focus Group : Renewable Energy on the Farm Renewable and GridCON

Peter Pickel – John Deere GmbH & Co. KG

10H30

2019 the year of TIM – Vision, system and infrastructure for Tractor Implement Management

Georg Happich – AGCO GmbH (Fendt)
Hans-Jürgen Nissen – John Deere GmbH & Co. KG

Environmental impact assessment of tractors equipped with different devices for reducing the exhaust gases emissions

Jacopo Bacchetti, Daniela Lovarelli, Davide Facchinetti, Domenico Pessina – Università degli studi di Milano

11H00

Development of TIM tractor

Ryo Kurata, Fulvio Zerbino, Koichi Fujimoto – KUBOTA Corporation

Measurement of Ammonia emission in practical dairy farm environment

Hannu Haapala – Agrinnotech
Maarit Hellstedt – Natural Resources Institute Finland

11H30

POSTER BREAK

12H00

Cyber security in the field

Alain Ribault, Yannick Guyomarch – KEREVAL
Lionel Léveillé, Emeric Leclair – SULKY

Viticulture sprayer, efficiency, spray deposition, test bed, classification

A. Vergès, S. Codis, X. Delpuech. – IVF
J.F. Bonicel, G. Diouloufet, J.P. Douzals, P. Montegano,
X. Ribeyrolles, B. Ruelle, M. Carra – IRSTEA

12H30

Mundi Web Services – A digital platform providing better access and use of earth observation data to create and operate innovative apps particularly in agriculture market

Christophe Brizot, Cédric Couget, Laurent Clergue – ATOS

Smartomizer – Smart and connected speciality crop protection

Cruz Garcerá – Instituto Valenciano de Investigaciones Agrarias
Emilio Gil – Universitat Politècnica de Catalunya
Lars Berguer – Pulverizadores Fede S.L., Cheste
Patricia Chueca – Instituto Valenciano de Investigaciones Agrarias

13H00

LUNCH BREAK

14H00

Machine Vision in Silage Bale Digitalized Management

Quoc-Bao Tran, Katariina Penttilä, Ilpo Pölönen – Häme University of Applied Sciences

Herbicide site specific spraying: use of simulations to study the impact of section width

Villette Sylvain, Maillot Thibault – Agroécologie, AgroSup Dijon, INRA
Douzals Jean-Paul – IRSTEA

14H30

Some challenges to address in order to target the second generation of agricultural robots

Michel Berducot – IRSTEA (National Research Institute of Science and Technology for Environment and Agriculture)

Evolution of Agricultural Tire technologies and their impact on soil compaction

P. Vervaeet, F. Pinet – Manufacture Française des Pneumatiques Michelin
M. Stettler – Bern University of Applied Sciences, School of Agricultural

15H00

Development of the AgriRobo Tractor

Tomofumi Fukunaga, Kotaro Yamaguchi, Takashi Fujiwara – Kubota Tractor Corporation

Evaluating the quality of work for single chisel plow tines

Amer Khalid Ahmed Al-Neama – College of Agriculture, University of Diyala, Iraq
Thomas Herlitzius – Technische Universität Dresden, Germany

15H30

POSTER BREAK

INNOVATION

SUSTAINABLE AGRICULTURE

16H00

H2L – The new generation of hydraulic trailer brake system

Guggisberg Erich, Paul Forrer AG

New KUHN Conservation Tillage solutions

Philippe Potier, Vincent Hazenberg – Kuhn SA

16H30

Pneumatic distribution of straw from within a Straw blower impeller to the ground, a predicting tool

T. Aiouaz – LEDITH, CETIM
J.M. Buchlin, A. Bardin – LEDITH

Sustainable Development, Digital Revolution and Human Change - A new Ecology of Work and Life, from Industry to Agriculture

Sylvain Lavelle - Icam / EHESS - Paris

17H00 **PLENARY SESSION**

TRAINING IN AGRICULTURAL TECHNOLOGIES: A NEW PREREQUISITE FOR SMART FARMING

*Simon Ritz, Davide Rizzo – Chaire Agro-Machinisme et Nouvelles Technologies, UniLaSalle, Beauvais
Fatma Fourati, Jérôme Dantan, Anne Combaud, Michel Dubois – InTerACT research unit, UniLaSalle, Beauvais-Rouen*

17H30

CONFERENCE CONCLUSION

POSTERS

INNOSETA a new European thematic network for innovation in application techniques, spraying practices and training

Codis Sébastien, Eirios Hugo, Adrien Verges, Xavier Delpuech – IFV
Montserrat Gallart, Emilio Gil – UPC
Ivo Hostens – CEMA

PulvéLab : an experimental vineyard for the development and evaluation of innovative digital solutions for precision spraying

Xavier Delpuech, Adrien Verges, Adrien Lienard, Anice Cheraïet, Sébastien Codis – IFV
Mathilde Carra, Xavier Ribeyrolles, Olivier Naud, Jean-Paul Douzals – IRSTEA

Boosting agricultural scientific research and innovation through challenges: the ROSE challenge example

Avrin Guillaume, Delaborde Agnes, Galibert Olivier – LNE
Boffety Daniel – IRSTEA

Spot spraying in oil seeds and protein crops

F. Vuillemin, J.L. Lucas, Olivier Mangenot – Terres Inovia
C. Chalon – Groupe CAL
F. Marechal – Société MARECHAL
C. Gée – AgroSup Dijon

Equipment for evaluating agricultural machinery impacts on soil physical and mechanical properties

Carolina Ugarte, Matthieu Forster – UniLaSalle, Aghyle Research Unit
Andrii Yatskul, Simon Ritz – UniLaSalle

How to optimize your tillage with a better and cheaper approach

Michel-P Damiani – ACTIA

Connectivity of Agriculture Equipment

Christophe Gossard – John Deere GmbH & Co. KG

Machine to machine system for integral management of a farm

Rafael R. Sola-Guirado, Sergio Bayano-Tejero, Gregorio Blanco-Roldan, Sergio Castro-García, Jesus Gil-Ribes – University of Cordoba

Implementation and efficiency of sensors, a crucial issue for the agriculture of tomorrow

Ralph Leinenbach – Hydac

Smart hydraulics for autonomous vehicle

Clément Chassagne, Jean Heren, André Prigent – POCLAIN Hydraulics

The design and development of three planters (Marks 1, 2 and 3) to plant daffodil bulbs under agricultural upland grassland and a harvester to collect the above ground biomass

D R White, I J Loynes, S E Cooper – Harper Adams University
K Stephens, S Head – Agroceutical Products Ltd,
M D Fraser, H Vallin and J R T Davies – Pwllpeiran Upland Research Centre

Novel technological framework for digitalizing silage bale life cycle management

Katariina Penttilä, Ilpo Pölönen – Häme University of Applied Sciences
Antti Suokannas – Natural Resources Institute Finland

Simulation model development for advanced powertrains in agricultural Tractors

Antti Lajunen – University of Helsinki

Application of CFD technology for performance optimization of fan and cleaning system in a combine harvester

Daniele Speziani, Lorenzo Vagnetti – Phitec Ingegneria Srl
Mattia Mariani – Same Deutz-Fahr

Digital tools for a biomass prediction from a plant-growth model. Application to a weed control in wheat crop.

J. Merienne, A. Larmure, Ch. Gée – AgroSup Dijon

ICAM : A reference model to improve agro-equipment companies Development of a hybrid vegetable dryer

Paul-Eric Dossou – Icam, Université Paris-Est
Sylvain Lavelle – Icam, EHESS
Sylvain Morel – Icam