



UNIVERSITY OF
LINCOLN

LINCOLN INSTITUTE FOR
AGRI-FOOD TECHNOLOGY

Agri-Robotics and Agri-Engineering

Wednesday 19th April 2017

University of Lincoln, Riseholme Hall, Riseholme Campus, Lincoln

Agenda

8.30am - Arrival and breakfast

9.00am – Welcome talk

Professor Simon Pearson, Director of LIAT, University of Lincoln

Professor Ron Bickerton, Industrial Professor of Mechanical Engineering, University of Lincoln

“Powertrain Design for Agricultural Operation”

Prior to joining University of Lincoln, Ron has held senior posts including with Deutz, and JCB. His research interests range from electrical grid protection to accuracy improvement of high velocity ammunition. Ron will share his industrial experience in the development of drive trains for agricultural use and the features required to meet the demands of machinery operation under arduous conditions.

Professor Pål From, Professor in Agri-Robotics, University of Lincoln and Norwegian University of Life Sciences

“Agri-Robotics and Precision Farming – The Challenges Ahead”

Pål’s main research activities involve developing robotic solutions for efficient and sustainable operation of agricultural activities and precision farming. Climate changes will not only give global warming, but also more intensive rainfall. This is a huge challenge for conventional agricultural machines. His projects seek to develop smaller autonomous machines to face agricultural challenges ahead.

Dr Dionysis Bochtis, Professor in Agri-Robotics, University of Lincoln and Aarhus University

“Operations Management in CTF Systems”

CTF is a management system with proven benefits, in terms of productivity and sustainability. However, the traffic restrictions imposed by the permanent tramlines in CTF highly affect field efficiency in agricultural machinery operations. Dionysis will explore the recent research advances in operations management in CTF systems, covering planning aspects, such as tramlines establishment planning, route planning, and cooperating machinery coordination.

10.00 - Discussion and networking