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Smart farms powered by ICT to boost dairy output

IDF World Dairy Summit 2018 looks at smart technology

The application of information and communication technology (ICT) has transformed dairy farms into smart farms, giving the dairy sector a boost. The Internet of Things (IoT), the use of data and robotics is enhancing efficiency and productivity in farm management.

Global experts in smart farm technologies will share their expertise at the IDF World Dairy Summit in Daejeon, South Korea, from 15-19 October 2018.

Dr Hen Honig of the Agricultural Research Organization, Volcani Centre, Israel, will examine the usefulness of bio-sensors in dairy farms in a special session on ICT Smart Farm on 17 October.

“Biosensors are useful in all aspects of dairy activities, including the monitoring of the physiological conditions of cows and their overall health,” said Dr Honig. “There are many types of bio-sensors available in the market today, with exciting prospects for growth in the future.”

The use of robotics in dairy farms for automatic milking and feeding systems will be discussed by Mr Timo Joosten of Leyly International, France.

The IoT and cloud computing, which have been integrated into smart farming, have benefited Japanese dairy farmers. Mr Soichio Honda of Farm Note, Japan, will focus on ICT integration to advance automation and control processes.

The use of big data for animal health and welfare will be addressed by Ms Marion Carrier of CybeleTech, France, with Dr Luis Tedeschi of Texas A & M University, USA, talking

about modelling and precision farming.

“As the integration between precision farming and computer modelling becomes a reality, the maximum profitability of a dairy farm is achieved by optimizing individual dairy cow performance to the point that animal welfare and productivity are embedded into decision-making support systems,” said Dr Tedeschi.

Underscoring the importance of data integration in precision technologies in farming to increase efficiency, product quality and reduced environmental impact is Dr Laurence Shalloo of Teagasc, Ireland.

“Solution-driven precision technologies can provide real benefits in profitability, sustainability and resilience through the provision of informed, real-time management solutions to the farmer,” said Dr Shalloo.

IDF Director General Caroline Emond said there is much to be learned in smart farming which will drive business growth for today and the future in a competitive global trading environment.

“Smart farming technologies can give dairy farms a comparative advantage by maximizing output through monitoring and adaptation,” said Ms Emond.

Please click on the link below to download the programme for the IDF World Dairy Summit 2018.

For more details, visit www.idfwds2018.com

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International Dairy Federation

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