

Celebrating the 30<sup>th</sup> Anniversary of the Association



## ICA RECTORS AND DEANS FORUM 2018

### High Tech to Feed the World Sustainably: Innovation from Spade to Fork

Wednesday 24 October to Friday 26 October 2018  
To be held at Wageningen University and Research

This annual Forum aims to provide university decision makers from ICA's member universities with the opportunity to meet, to discuss current issues in life science universities and to exchange views on these issues with relevant stakeholders in industry, government and NGOs. This Forum follows the successful Forums from 2011 to 2017.

#### 1 Focus

We will discuss how life science universities should respond to the ever-increasing potential for the application of high technology applications, supported by digital data, for the sustainable management of agricultural production and in the management of the food value chain.

The three Forum themes will focus on

- The potential and challenges of high tech in agriculture and the food value chain
- Issues in the responsible use new technology and big data, for consideration by universities in responding to their mission in education, research and management
- The strategic and policy role of life science universities in applying high tech to address the challenge of achieving global food and nutrition security in a sustainable world

See paragraph 8 below for **Background Information** for these themes

#### 2 Target audience

The Forum seeks to attract those who are in charge of strategic decision making in Universities /Faculties of Agricultural and Life Sciences. The ICA Board invites Rectors, Vice Rectors and Deans, and persons of equivalent status in their university, college, school or faculty being responsible for education, research and innovation to participate in the Forum.

#### 3 Expected outcomes

The delegates will consider the necessary developments in their university or faculty strategic plans – both in application of high technology in the natural and the social sciences and in the responsible management of big data. Delegates will develop the list of important visions during the Forum's Roundtable Discussions with a final discussion in the closing session. The outcome of these discussions will be developed as an Executive Summary

listing important visions for life science universities in addressing the innovative challenges of the application of high tech in the sustainable development of agriculture and the food value chain.

#### 4 OUTLINE PROGRAMME

##### Wednesday 24 October at the Fletcher Hotel-Restaurant De Wageningse Berg

|       |   |
|-------|---|
| 16.30 | Coffee for those attending the ICA General Assembly |
| 17.00 | <b>ICA General Assembly</b>                         |
| 19.00 | Closure   |
| 20.00 | <b>ICA Forum Reception and Walking Dinner</b>       |

##### Thursday 25 October at the Wageningen University Campus

##### Session 1: The potential and challenges of high tech in agriculture and the food value chain

|       |  |
|-------|--|
| 8.50  | Welcome<br>Marek S Szyndel, President of ICA and Warsaw University of Life Sciences<br>Arthur Mol, Rector Magnificus, Wageningen University and Research   |
|       | <b>Chair: Antanas Maziliauskas, Aleksandras Stulginskis University (ASU), LT</b>   |
| 9.10  | <b>Keynote 1: Big data opportunities for food and agriculture: research and education challenges</b><br>Kevin McDonnell, University College Dublin, IE   |
| 9.45  | <b>Keynote 2: Precision Farming: advances in high tech, data-driven agriculture at field, farm and regional level</b><br>Corne Kempenaar, Senior Scientist Agrosystems Research, Wageningen University and Research, NL                                      |
| 10.20 | Coffee   |
| 10.45 | <b>Keynote 3: High Tech in the Food Value Chain – non-invasive sensing of food quality in manufacturing, distribution and retail</b><br>Wouter Saeys, KULeuven, BE   |
| 11.20 | <b>Keynote 4: High Tech in the Food Value Chain - Digitisation in industrial food processing and packaging</b><br>Marc Mauermann, Deputy Director Division Processing Technology Dresden, Fraunhofer Institute for Process Engineering and Packaging IVV, DE |
| 12.00 | Lunch  |
| 12.30 | <b>Visit to Wageningen University's High Tech Greenhouses Research Facilities with short presentations of ongoing research</b>   |

**Session 2: Issues in the responsible use new technology and big data, for consideration by universities in responding to their mission in education, research and management**

|       |   |
|-------|---|
|       | <b>Chair: Richard Visser</b> , Wageningen University and Research, NL   |
| 14.00 | <b>Keynote 5: Key challenges in the management of Big Data – for the institution and the individual</b><br>Barteld Braaksma, Innovation Manager, Statistics Netherlands, NL   |
| 14.30 | <b>Keynote 6: Ethical issues relating to the application of Big Data</b><br>Andreas Jedlitschka, Head of Department Data Engineering, Fraunhofer Institute for Experimental Software Engineering (IESE), DE           |
| 15.00 | <b>Keynote 7: Legal issues relating to the use of high tech – as exemplified by novel plant breeding technologies</b><br>Petra Jorasch, Manager Plant Breeding and Innovation Advocacy, European Seed Association, BE |
| 15.30 | Coffee  |
| 16.00 | Short interventions   |
| 16.30 | Roundtable Discussion   |
| 17.30 | Report back   |
| 18.00 | Closure   |
| 20.00 | ICA Forum Dinner – celebrating 30 years<br>Speech: <b>Dr Christian Patermann</b> , International Bioeconomy Adviser   |

**Friday 26 October at the Fletcher Hotel-Restaurant De Wageningsche Berg**

**Session 3: The Strategic and Policy role of Life Science Universities in applying High Tech to address the challenge of achieving global food and nutrition security in a sustainable world**

|       |  |
|-------|--|
|       | <b>Chair: Marek S Szyndel</b> , President of ICA & Warsaw University of Life Sciences, PL  |
| 9.00  | <b>Keynote 8: Strategic Industry 4.0 – agriculture/forestry 4.0 – university 4.0? Strategic policy at BOKU to address digitisation</b><br>Martin Gerzabek, University of Natural Resources and Life Sciences, Vienna, AT                                       |
| 9.30  | <b>Keynote 9: Strategic Policy Industry 4.0</b><br>Vik Vandecaveye, Precision Solutions & Telematics division, Case IH Agricultural Business   |
| 10.00 | <b>Keynote 10 : Objectives and considerations of (Big) data science education in Life Sciences domain</b><br>Lukasz Grus, Wageningen Data Competence Centre & Laboratory of Geo-information Science and Remote Sensing, Wageningen University and Research, NL |

|       |                       |
|-------|-----------------------|
| 10.30 | Coffee                |
| 11.00 | Roundtable Discussion |
| 11.30 | Report back           |
| 12.30 | Closure               |
| 13.00 | Lunch                 |

## 5 Registration

Please register online for the ICA Forum at [www.ica-europe.info](http://www.ica-europe.info)

The Registration fee for ICA Members is 500 € for the first registration from a university, additional registrations from the same university will be 450 €. For non-ICA members the registration fee is 650 € and 600 € respectively. If a registered non-member becomes a member of ICA in 2019 the membership subscription for 2019 will be reduced by 150 €.

The deadline for registration is 10 October. Registration cannot be cancelled free of charge after 10 October.

The Registration fee includes:

All meals from the start of the Forum with the Reception on the evening of Wednesday 24 October until and including lunch on the Friday.

Registration is managed by the ICA Secretariat. Please transfer your registration fee to the ICA Bank Conference account –details below:

## 6 Account for Registration Fee transfers

Bank: KBC  
Address of Bank: Brugsesteenweg 513, B-9030 Mariakerke (Belgium)  
BIC code: KREDBEBB  
IBAN: BE41 7370 3345 2010  
Beneficiary: ICA  
Reference: <family name> ICA-Forum 2018

If you need to quote a VAT number please use: BE 0461 925 876, our registration number in Belgium. However, please note as a Not for Profit Organisation ICA is not registered for VAT.

ICA's Address:  
ICA Secretariat, (International Relations Office)  
Czech University of Life Sciences Prague (CULS)  
Kamycka 129  
165 21 Prague 6 – Suchdol, CzechRepublic

## 7 Book your Hotel



Rooms have been reserved at the \*\*\*\* Fletcher Hotel-Restaurant De Wageningsche Berg. The hotel is located in woods and overlooks the Lower Rhine. The hotel is close to the centre of Wageningen.

Rooms can be reserved at the [Hotel de Wageningsche Berg](#) at the special rate for bed and breakfast of 89€ per night . **The special rate is held until 19 September 2018.** Cancellation is possible without charges until 48 hours before arrival date.

Please download the Reservation Form from the Forum website [www.ica-europe.info](http://www.ica-europe.info) to book your room.

Bus transfer from the hotel to the meeting venue will be provided by the Forum organisers.

## 8 Background

The use of High Tech and Big Data will not only be important from a production point of view but also in the operation and management of food in the food value chain. For example, modern information and communication technologies like cyber-physical systems, big data analytics and cloud computing will assist the efficient use of resources in agricultural production and in the early detection of defects and production failures in the food value chain. It will also become more and more important in tracking and tracing the production of the food in order to adequately assess its carbon footprint, help in reducing food waste and ensuring food is safe to consume even when it has been transported over a long distance or has been on the supermarket shelf.

The use of these high tech methods and big data will bring serious ethical and societal issues to the foreground, which have to be addressed. Our future leaders who are trained at our universities will need to be exposed and made aware of these issues already at an early phase in their studies (Bachelor and Master). Curricula to address these elements will need to be devised. Aside from the students, the present staff will also have to be made aware of these issues and how to address them in their daily research, innovation and education activities.

Life science universities should be at the forefront in addressing these issues, but to do so these needs have to be addressed in the strategic management of the university or faculty.

## 9 Forum Format:

In session 1 four keynotes will address the development in the use of high tech in agricultural production and the food value chain. The themes in Session 2 and 3 will be addressed by two keynote speakers followed by a panel of four ICA members giving their experience, and then round table discussions in the conference room (5 - 8 people around a table) with a report back from each table.

## 10 More Information

For more information please contact  
Dr Simon B Heath

ICA Secretary General  
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