

## WEDNESDAY 21 MARCH

<b>11:00 - 12:30</b>	<p><b>Plenary session</b>                  Chair: Dolores O'Riordan, UCD Institute of Food and Health</p>
	<p><b>Welcome</b>                  Nicholas Holden, UCD School of Biosystems and Food Engineering</p> <p><b>Welcome to UCD</b>                  Orla Fealy, UCD Vice-President for Research and Innovation</p> <p><b>UCD Institute of Food and Health</b>                  Dolores O'Riordan</p>
	<p>Matthew Lange, UCD Davis  <i>The vision of IC-Foods - Why the Internet of Food and IoT4F?</i></p> <p>Edmond Harty, DairyMaster  <i>IoT and the digital transformation of the dairy industry</i></p>
<b>12:30 - 14:00</b>	<b>Lunch</b>
<b>14:00 - 15:45</b>	<p><b>Session 1: Observation and characterization of objects</b>                  Chair: Tom Tomich, UC Davis, Agricultural Sustainability Institute</p>
	<p>Jettie Hoonhout, Philips  <i>Measuring things: the application of IoT by Philips</i></p>
	<p>Gregory O'Hare, UCD  <i>Sensor systems for crop production</i></p>
	<p>Tomas Norton, KU Leuven  <i>Sensor systems for animal production</i></p>
	<p>Chiara Cecchini, Future Foods Institute  <i>Hackers and Makers: innovation in food tech</i></p>
	<p>Georgina Murphy, Atlantic Bridge  <i>Which startup ideas are funded, and why?</i></p>
<b>15:45 - 16:15</b>	<b>Coffee</b>
<b>16:15 - 17:45</b>	<p><b>Industry demonstrations</b>                  Chair: Aifric O'Sullivan, UCD School of Agriculture and Food Science</p> <ol style="list-style-type: none"> <li>1. AgVis (livestock monitoring)</li> <li>2. Food Choice at Work (healthy eating)</li> <li>3. BlightLink (integrating social networks with disease forecasting)</li> <li>4. Living Offset (climate change) mitigation (blockchain)</li> <li>5. Nutritics (personalized nutrition)</li> <li>6. Keenan (the tech that feeds us)</li> </ol>
<b>18:00 - 20:30</b>	<b>Welcome Reception and Networking</b>
<b>20:30</b>	<b>Close</b>

## THURSDAY 22 MARCH

<b>08:45 - 10:45</b>	<p><b>Welcome</b>                  Nicholas Holden, UCD School of Biosystems and Food Engineering</p> <p><b>Welcome to UCD</b>                  Orla Fealy, UCD Vice-President for Research and Innovation</p>
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	<p><b>Session 2: Robotic devices and 3D printing of food</b>          Chair: Aoife Gowen, UCD Biosystems and Food Engineering</p>
	<p>Matthias Kuck, Biozoon  <i>3D food printing – more than just a trend</i></p>
	<p>Conor McGinn, Trinity College Dublin  <i>Human - Robot interaction: implications for food</i></p>
	<p>Alexander Leonessa, Virginia Tech  <i>Autonomous robotics in the food system</i></p>
	<p>Lachlan Urquart, University of Nottingham  <i>Privacy, Security, Ethics &amp; the Internet of Food</i></p>
	<p>Kieran Furlong, Finistere Ventures  <i>Funding new ideas: what are early-stage investors looking for?</i></p>
<b>10:45 - 11:15</b>	<b>Coffee (and posters / coding challenge)</b>
<b>11:15 - 13:00</b>	<p><b>Volunteered work: sensors, applications and citizen engagement</b>          Chair: Nicholas Holden, UCD School of Biosystems and Food Engineering  <i>Seven speakers from Tyndall National Institute, Lawrence Berkeley National Laboratory, University of Iceland, University of Bologna, NTNU Norway, TCD and UCD</i></p>
<b>13:00 - 14:15</b>	<b>Lunch (13h45: poster pop-up, 90 second summaries)</b>
<b>14:15 - 16:00</b>	<p><b>Session 3: Digitizing IoT4F data</b>          Chair: Fionnuala Murphy, UCD School of Biosystems and Food Engineering</p>
	<p>Scott Rickard, Citadel and UCD  <i>Deep learning: what do all these data offer the food industry?</i></p>
	<p>Eileen Gibney, UCD  <i>Digitizing food intake/lifestyle data collection, analysis and feedback - implications for personalised nutrition.</i></p>
	<p>Andre Laperriere, GODAN  <i>Data standards for IoT4F</i></p>
	<p>Sjaak Wolfert, WUR  <i>Internet of Food and Farm 2020: fostering the data ecosystem</i></p>
	<p>Conall Lavery, Wia  <i>The Future of IoT Platforms</i></p>
<b>16:00 - 16:30</b>	<b>Coffee (and posters / coding challenge)</b>
<b>14:15 - 16:00</b>	<p><b>Workshop 1</b>          Steven Lord, Environmental Change Institute, University of Oxford  <i>Impact Valuation</i></p>
	<p><b>Workshop 2</b>          Jacqueline van Oosten, FME          Sjaak Wolfert, WUR          Aifric O'Sullivan, UCD Institute of Food and Health  <i>Personalised Nutrition</i></p>
	<p><b>Workshop 3</b>          James Clifford, Food Cloud          Tom Oldfield, UCD  <i>Food Waste</i></p>
<b>19:30 - 23:00</b>	<b>Conference Dinner (Merry Ploughboy)</b>
<b>23:00</b>	<b>Close</b>

**FRIDAY 23 MARCH**

Welcome  
Nicholas Holden, UCD School of Biosystems and Food Engineering

**9:00 - 11:15**

Welcome to UCD  
Orla Fealy, UCD Vice-President for Research and Innovation

Session 4: Applications for food safety, sustainability and security  
Chair: Eileen Gibney, UCD Agriculture and Food Science

Lawrence Goodridge, McGill University and Seamus Fanning UCD  
How IoT4F will change food safety

Damian O'Kelly, Nutritics  
Enabling personalized nutrition

Jacqueline van Oosten, FME  
The food tech ecosystem in the Netherlands: towards personalised nutrition

Andrew Mullins, Bord Bia  
Data demands for food sustainability - the future of Origin Green

Kieran Kelly, Arc-Net  
Blockchain for the food chain

Liam Chambers, IBM  
Applications of blockchain in the food industry

**11:15 - 11:45** **Coffee and networking**

**9:00 - 11:15** Plenary session  
Hackathon overview and results with winning team presentation.  
Tom Maher, The Academy of Code (+ students if available)

Scoping workshop feedback

- Steven Lord
- Aifric O'Sullivan
- James Clifford

Matthew Lange, UC Davis  
Nicholas Holden, UCD

Closing summary:

- *What have we learned?*
- *What next?*
  - *H2020 and research networks*
  - *Company networking*
- *IoT4F-Dublin 2019*
- *IC-Foods, November 2018*

**12:30 - 14:00** **Lunch**

**14:00** **All participants departed**