



Chemicals Regulation Division

## Conference and Workshop: Applying Pesticides Using Drones

23-24 MAY 2023

### Agenda

#### Day 1: The technological and regulatory context

Time	Topic	Speaker
8:50	Opening Remarks	Grant Stark (HSE and Chair OECD Drone sub-Group)
8:55	<b>Science and Regulation</b>	
	<ul style="list-style-type: none"><li>Science within HSE</li></ul>	Andrew Curran (HSE, Chief Scientific Advisor)
	<ul style="list-style-type: none"><li>Science and the regulation of chemicals</li></ul>	Richard Daniels (HSE, Director of Chemicals Regulation Division)
9:25	<b>Introduction</b>	
	<ul style="list-style-type: none"><li>OECD Working party on Pesticides and Drones</li></ul>	Patience Browne (OECD)
	<ul style="list-style-type: none"><li>OECD Theme Co-ordinator</li></ul>	Max Suckling (Co-operative Research Programme)
9:55	<b>Emerging technologies, precision agriculture</b>	Kit Franklin (Harper Adams University, UK)
10:10	<b>Application Technology</b>	
	<ul style="list-style-type: none"><li>Crop Protection Industry Perspective</li></ul>	Neill Newton (Syngenta, US)
	<ul style="list-style-type: none"><li>Drone Operating Company Perspective</li></ul>	Mariah Scott (Rantizo, US)
	<ul style="list-style-type: none"><li>ISO standards</li></ul>	Edward Bals (Member ISO group, UK)
10:55	<b>Q&amp;A</b>	
11:15	<b>Refreshment Break</b>	
11:35	<b>Research Overview</b>	
	<ul style="list-style-type: none"><li>On-target application efficacy</li></ul>	Roberto Barbosa (FMC, US)
	<ul style="list-style-type: none"><li>Off-site movement</li></ul>	Naresh Pai (Bayer, US)
	<ul style="list-style-type: none"><li>Occupational exposure</li></ul>	Maxie Kohler (Bayer, Germany)

	<ul style="list-style-type: none"> <li>Field crop residues</li> </ul>	Jennifer Selwyn (Pest Management Regulatory Agency, Canada)
<b>12:35</b>	<b>Q&amp;A</b>	
<b>12:55</b>	<b>Lunch and networking</b>	
<b>14:00</b>	<b>Regulatory Overview (Aviation)</b>	
	<ul style="list-style-type: none"> <li>UK Aviation legislation and drone spraying</li> <li>Canadian Aviation legislation and drone spraying</li> </ul>	Mark Wharry (Civil Aviation Authority, UK) <sup>1</sup>  Cindy Haughton (Transport Canada, Canada) <sup>2</sup>
<b>14:30</b>	<b>Q&amp;A</b>	
<b>14:50</b>	<b>Regulatory Overview (Pesticides)</b>	
	<ul style="list-style-type: none"> <li>Australian pesticide legislation and drone spraying</li> </ul>	Rod Edmundson (Australian Pesticides and Veterinary Medicines Authority, Australia)
	<ul style="list-style-type: none"> <li>Japanese pesticide legislation and drone spraying</li> </ul>	Hidetaka Kobayashi (Ministry of Agriculture, Forestry and Fisheries, Japan) <sup>3</sup>
	<ul style="list-style-type: none"> <li>EU pesticide legislation and drone spraying</li> </ul>	Eric Liegeois (EU Commission)
	<ul style="list-style-type: none"> <li>US pesticide legislation and drone spraying</li> </ul>	Amy Blankinship (Environmental Protection Agency (US))
	<ul style="list-style-type: none"> <li>Industry Overview on international pesticide legislation and drone spraying</li> </ul>	Sarah Hovinga (Bayer, US)
<b>16:05</b>	<b>Q&amp;A</b>	
<b>16:25</b>	<b>Closing Summary of day one</b>	Grant Stark (Chair, OECD sub-Group, UK)
<b>16:30</b>	<b>Close</b>	

### Day 2: Best management practices

<b>Time</b>	<b>Topic</b>	<b>Speaker</b>
<b>9:00</b>	<b>Day 2 Opening remarks</b>	Grant Stark (Chair, OECD sub-Group, UK)
<b>9:05</b>	<b>Best Management Practices Overview</b>	
	<ul style="list-style-type: none"> <li>Drone manufacturer</li> </ul>	Ronnie Liu (DJI, US)
	<ul style="list-style-type: none"> <li>Crop Protection Industry</li> </ul>	Hector Portillo (FMC, US)
<b>9:35</b>	<b>Q&amp;A</b>	
<b>9:55</b>	<b>Introduction to best practices guidance</b>	Hector Portillo (FMC, US)
<b>10:00</b>	<b>Pre-flight.</b> Training, aviation approval, intent to apply, field mapping and software preparation.	OECD sub-Group member (Claire Glennie, HSE, UK)
<b>10:20</b>	<b>Feedback session</b>	

<sup>1</sup> Provisional acceptance. Alternative contact available

<sup>2</sup> Awaiting confirmation

<sup>3</sup> Virtual presenter

<b>10:40</b>	<b>Refreshment break</b>	
<b>11:00</b>	<b>Efficacy.</b> Crop/situation, target pest, product attributes.	OECD sub-Group member (Jeff Dawson, Environmental Protection Agency, US)
<b>11:20</b>	<b>Feedback session</b>	
<b>11:40</b>	<b>Tank mix.</b> Clean tank, water quality, water volume, agitation, adjuvants, drift retardants and compatibility.	OECD sub-Group member (Paul Walker, Australian Pesticides and Veterinary Medicines Authority, Australia)
<b>12:00</b>	<b>Feedback session</b>	
<b>12:20</b>	<b>Lunch and networking</b>	
<b>13:30</b>	<b>Environmental variables.</b> Air temperature, wind speed and direction and swath displacement, relative humidity, thermal inversion and sensitive areas.	OECD sub-Group member (Ross Breckels, Pest Management Regulatory Agency, Canada)
<b>13:50</b>	<b>Feedback session</b>	
<b>14:20</b>	<b>Equipment.</b> Calibration, tank fill and monitoring of application.	OECD sub-Group member (Bronislava Škarbová, Ministry of Agriculture and Rural Development, Slovakia)
<b>14:40</b>	<b>Feedback session</b>	
<b>15:00</b>	<b>Safety and stewardship.</b> Pilot and bystander protection, PPE (for nozzle, spray tank, nurse tank repair/mixing and loading)	OECD sub-Group member (Jaroslav Franko, Ministry of Agriculture and Rural Development, Slovakia)
<b>15:20</b>	<b>Feedback session</b>	
<b>15:40</b>	<b>Summary session</b>	Grant Stark (Chair, OECD sub-Group, UK)
<b>16:10</b>	<b>Conference assessment/feedback</b>	Grant Stark (Chair, OECD sub-Group, UK)
<b>16:30</b>	<b>Close</b>	Grant Stark (Chair, OECD sub-Group, UK)

This event is sponsored by the OECD Co-operative Research Programme: Sustainable Agricultural and Food Systems.

