



# Conference Programme

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**fargro** **i2L Research** **Russell IPM**  
INTEGRATED PEST MANAGEMENT

Swansea University Prifysgol Abertawe

**IBMA**  
INTERNATIONAL BIO-CONTROL MANUFACTURERS ASSOCIATION  
United Kingdom

**NEW IPM 2023**  
5-7<sup>th</sup> September

**SCAN ME**

**NORSK WAX**

**FFYNIANT LEVELLING — BRO — UP —**

Outlooks on Pest Management INTERNATIONAL PEST CONTROL Razbio

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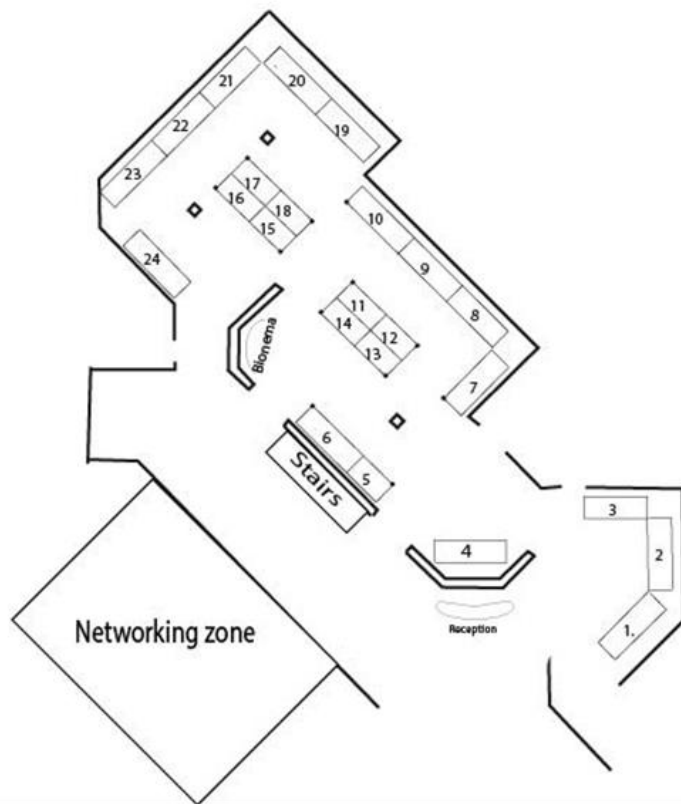
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# Exhibitor Layout – Taliesin Arts Centre



- 1. Coastal Alliance
- 2. Hacer Group
- 3. – FREE SPACE
- 4. Fargo
- 5. Russell IPM
- 6. i2L
- 7. Adama
- 8. Razbio
- 9. Hygea Air
- 10. Zimmer & Peacock
- 11-18: POSTERS
- 19. Crop IQ
- 23. IPC
- 24. Burleigh Dodds

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## Conference Session Topics

|    | Session Title                                                  | Chair                                                             |
|----|----------------------------------------------------------------|-------------------------------------------------------------------|
| 1  | IPM - Challenges and Solutions                                 | <b>Dr Ian Baxter</b><br>(IBMA UK & Syngenta)                      |
| 2  | Multifunctional Microbes - Multitrophic Interactions – PART 1  | <b>Dr Farooq Shah</b><br>(Swansea University, RAZBIO)             |
| 3  | Remote sensing & UAVs                                          | <b>Professor Peter North</b><br>(Swansea University)              |
| 4  | Multifunctional Microbes -Multitrophic Interactions – PART 2   | <b>Professor Frédéric Francis</b><br>(University of Liege)        |
| 5  | IPM and Sustainability                                         | <b>Dr Arben Myrta</b><br>(Certis Belchim)                         |
| 6  | Volatile Organic Compounds and Semiochemicals - uses in IPM    | <b>Dr Owen Jones</b><br>(Lisk & Jones Consultants Ltd)            |
| 7  | Computational Science & Sensor Applications to Pest Management | <b>Dr Will Allen</b><br>(Swansea University)                      |
| 8  | Funding Opportunities                                          | <b>Dr Farooq Shah</b><br>(Swansea University, RAZBIO)             |
| 9  | POSTERS & STAND                                                |                                                                   |
| 10 | Nuisance Pest & Disease Vector Control Part 1                  | <b>Dr Peter McEwen</b><br>(PKMC Consultants)                      |
| 11 | Microbial & Macrobial BCA: Production and Use                  | <b>Professor Dan Eastwood</b><br>(Swansea University)             |
| 13 | Nuisance Pest and Disease Vector Control Part 2                | <b>Dr Kanagasooriyam Kanagachandran</b><br>(Rentokil Initial Ltd) |
| 14 | New IPM: Development, Regulatory and Training                  | <b>Jennifer Lewis</b><br>(IBMA)                                   |

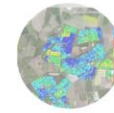
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# Tuesday 5<sup>th</sup> September

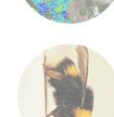
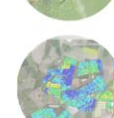
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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Welcome and housekeeping – Taliesin Arts Centre (Lecture Theatre)</b>                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>9.00</b>                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                        | <b>Session 1: “IPM Challenges and Solutions”</b><br><b>Chair: Dr Ian Baxter</b><br><i>IPM fits well in the One Health framework but faces many challenges. This session looks at some of the approaches used in different sectors by colleagues from around the world.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>9.00</b>                                                                                                                                                                                                                                                                                                                                                            | <b>9.10</b>                                                                                                                                                                                                                                                                                                                                                                            | <b>Ian Baxter</b> (Syngenta) Welcome and housekeeping                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>9.10</b>                                                                                                                                                                                                                                                                                                                                                            | <b>9.40</b>                                                                                                                                                                                                                                                                                                                                                                            | <b>Todd Kabaluk</b> (Agriculture and Agri-Food Canada, Canada)<br><b>Protecting potatoes from pestilent elaterids: using biocontrol and new technologies to reframe traditional approaches.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>9.40</b>                                                                                                                                                                                                                                                                                                                                                            | <b>10.10</b>                                                                                                                                                                                                                                                                                                                                                                           | <b>Sean Moore</b> (Citrus Research International, South Africa)<br><b>IPM implementation: all the tools but too many rules</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>10.10</b>                                                                                                                                                                                                                                                                                                                                                           | <b>10.30</b>                                                                                                                                                                                                                                                                                                                                                                           | <b>Aoife Dillon</b> (FERA, UK)<br><b>IPM of Emerald Ash Borer</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>10.30</b>                                                                                                                                                                                                                                                                                                                                                           | <b>Refreshments and Networking Break</b>                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>11.00</b>                                                                                                                                                                                                                                                                                                                                                           | <b>11.20</b>                                                                                                                                                                                                                                                                                                                                                                           | <b>Shafqat Saeed Shafqat Saeed, Naeem Iqbal, Muhammad Nadir Naqqash, Muhammad Asif Farooq, Farrukh Baig</b> (MN Univ of Agriculture Multan, Pakistan)<br><b>IPM of Cotton: A ray of hope in Pakistan</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>11.20</b>                                                                                                                                                                                                                                                                                                                                                           | <b>11.50</b>                                                                                                                                                                                                                                                                                                                                                                           | <b>Chengshu Wang</b> (Shanghai Institute of Plant Physiology and Ecology, PRC)<br><b>Biocontrol application and monitoring of <i>Beauveria bassiana</i> in China</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>11.50</b>                                                                                                                                                                                                                                                                                                                                                           | <b>12.10</b>                                                                                                                                                                                                                                                                                                                                                                           | <b>Norman Carreck</b> (International Bee Research Association, UK)<br><b>Current and future pests of honeybees and their control, and honeybees as biomonitors.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>12.10</b>                                                                                                                                                                                                                                                                                                                                                           | <b>12.30</b>                                                                                                                                                                                                                                                                                                                                                                           | <b>Jozsef Vuts</b> (Rothamsted Research, UK)<br><b>Lure development for the stored legume pest, <i>Acanthoscelides obtectus</i></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>12.30</b>                                                                                                                                                                                                                                                                                                                                                           | <b>Lunch and Networking Break – Taliesin Arts Centre</b>                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>14.00</b>                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                        | <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <b>Session 2: Lecture Theatre</b><br/> <b>“Multifunctional Microbes - Multitrophic Interactions – PART 1”</b><br/> <b>Chair: Dr Farooq Shah</b><br/>                     (Swansea University, RAZBIO)<br/> <i>Many microbial agents developed for plant protection have been shown to possess many other useful attributes such as plant growth stimulation and increasing plant resistance to</i> </td> <td style="width: 50%; vertical-align: top;"> <b>Session 3: The Mall</b><br/> <b>“Remote sensing &amp; UAVs”</b><br/> <b>Chair: Professor Peter North</b><br/>                     (Swansea University)<br/> <i>Remote sensing and UAVs play an increasing important role in pest monitoring and control. Together with semiochemicals they provide early warning systems that allow growers and public health officials to take informed and timely action.</i> </td> </tr> </table> | <b>Session 2: Lecture Theatre</b><br><b>“Multifunctional Microbes - Multitrophic Interactions – PART 1”</b><br><b>Chair: Dr Farooq Shah</b><br>(Swansea University, RAZBIO)<br><i>Many microbial agents developed for plant protection have been shown to possess many other useful attributes such as plant growth stimulation and increasing plant resistance to</i> | <b>Session 3: The Mall</b><br><b>“Remote sensing &amp; UAVs”</b><br><b>Chair: Professor Peter North</b><br>(Swansea University)<br><i>Remote sensing and UAVs play an increasing important role in pest monitoring and control. Together with semiochemicals they provide early warning systems that allow growers and public health officials to take informed and timely action.</i> |
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|       |       | <i>stress and influencing the behaviour of beneficial arthropod predators and parasitoids.</i>                                                                                          |                                                                                                                                                      |
| 14.00 | 14.20 | <b>Frédéric Francis</b> (University of Liege, Belgium)<br><b>Combined strategies to promote multi-trophic interactions in biocontrol</b>                                                | <b>Guy Hendricks</b> (AVIA-GIS, Belgium)<br><b>Seeing disease vectors from the sky: How far can we go?</b>                                           |
| 14.20 | 14.40 | <b>Luis Lopez Llorca</b> (University of Alicante, Spain)<br><b>Endophytic Biocontrol Fungi, Chitosan and VOCs for IPM</b>                                                               | <b>John Doonan</b> (Aberystwyth University, UK)<br><b>Evaluation of UAS imagery to monitor crop productivity and effectiveness of bioprotectants</b> |
| 14.40 | 15.00 | <b>Dana Ment</b> (The Volcani Centre, Israel) <b>Microbial pest control is taking new shape by novel tailored formulations and harnessing of more ecological attributes</b>             | <b>Ant Surrage</b> (Fargro Ltd)<br><b>Seeing the Unseen: Optimising crop protection through hyperspectral imaging</b>                                |
| 15.00 | 15.20 | <b>Enrique Quesada Moraga</b> (University of Cordoba, Spain)<br><b>The advent of entomopathogenic ascomycetes as multipurpose microorganism for crop protection and production</b>      | <b>Peter North</b> (Swansea University, UK)<br><b>Remote Observation In Crop Pest and Disease Monitoring</b>                                         |
| 15.20 | 15.40 | <b>Ivan Dubovsky</b> (University of Novosibirsk, Russia)<br><b>Multifaceted entomopathogenic fungi: Improving the fungi-based products activity against pests and diseases of crops</b> | <b>Jon West</b> (Rothamsted Research, UK)<br><b>Monitoring Airborne Plant Pathogens to improve crop protection</b>                                   |
| 16.00 | 16.20 | <b>Shumaila Rasool</b> (Institute of Ecology, Netherlands)<br><b>Entomopathogenic fungal-plant interactions: an ecological approach to sustainable pest management</b>                  | <b>Jacqueline Rosette</b> (Swansea University, UK) <b>TITLE</b>                                                                                      |
| 16.20 |       | <b>Refreshments (Posters and stands) Taliesin Arts Centre</b>                                                                                                                           |                                                                                                                                                      |

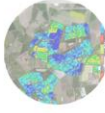
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# Wednesday 6<sup>th</sup> September

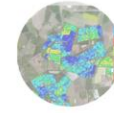
| Welcome and housekeeping – Taliesin Arts Centre<br>(Lecture Theatre) |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 09.00                                                                |      | <p><b>Session 4: Lecture Theatre “Multifunctional Microbes - Multitrophic Interactions – PART 2”</b></p> <p><b>Chair: Frédéric Francis</b> (University of Liege)<br/> <i>Many microbial agents developed for plant protection have been shown to possess many other useful attributes such as plant growth stimulation and increasing plant resistance to stress and influencing the behaviour of beneficial arthropod predators and parasitoids.</i></p> | <p><b>Session 5: The Mall “IPM &amp; Sustainability”</b></p> <p><b>Chair: Arben Myrta</b> (Certis-Belchim)<br/> <i>This session will bring information and evidence on the importance of good metrics to measure and monitor over time the sustainability of Integrated Pest Management (IPM) programmes.</i></p> |
| 9.00                                                                 | 9.20 | <p><b>Vassili Kouvelis</b> (NKUA, Greece)<br/> <b>How the evolution of secondary metabolism affects the lifestyle of endophytic entomopathogenic fungi: the case of <i>Metarhizium brunneum</i>.</b></p>                                                                                                                                                                                                                                                  | <p><b>Arben Myrta</b> (Certis Belchim, Italy)<br/> <b>Integrated Pest Management and sustainability: why developing metrics is important?</b></p>                                                                                                                                                                 |
| 9.20                                                                 | 9.40 | <p><b>Alexandra Kortsinoglou</b> (NKUA, Greece) <b>Unveiling Genomic Diversity in Entomopathogenic Fungi: Insights from Comparative Analysis of <i>Metarhizium brunneum</i> strains</b></p>                                                                                                                                                                                                                                                               | <p><b>Alejandro Calixto</b> (Cornell University, USA) <b>TITLE</b></p>                                                                                                                                                                                                                                            |
| 9.40                                                                 | 9.55 | <p><b>Ibtissem Fekih</b> (University of Liège, Belgium)<br/> <b>Assessment of two endemic soil-borne entomopathogenic fungi, <i>Metarhizium brunneum</i> and <i>Metarhizium majus</i> in a multitrophic interaction</b></p>                                                                                                                                                                                                                               | <p><b>Diana Corredor</b> (Cornell University, USA)<br/> <b>Environmental Impact Quotient (EIQ), a method to compare the environmental impact of pesticides: history and prospects for improvement.</b></p>                                                                                                        |

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|              |              | <b>context to control beet mild yellowing virus.</b>                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>9.55</b>  | <b>10.15</b> | <b>Surendra Dara</b> (Oregon State University, USA)<br><b>Entomopathogenic fungi contributing to sustainable crop production through non-entomopathogenic roles</b>                                                                                                                                                                                                       | <b>Laurence Antonio Gutiérrez</b> (Certis Belchim, Spain)<br><b>Key Performance Indicators (KPIs) proposed by Certis Belchim, to contribute to the improvement of farm sustainability that resulted from new Integrated Pest Management (IPM) programmes.</b>                                                                                                                                            |
| <b>10.15</b> | <b>10.30</b> | <b>Catalina Posada-Vergara</b> (University of Goettingen, Germany)<br><b>Biocontrol at the Root Level: Unraveling the Mechanisms of <i>Metarhizium</i></b>                                                                                                                                                                                                                | <b>Gabriele Canali</b> (University of Piacenza, Italy)<br><b>Assessing the sustainability of IPM: towards a new model to face the challenges.</b>                                                                                                                                                                                                                                                        |
| <b>10.30</b> |              | <b>Refreshments and networking break</b>                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>11.00</b> |              | <b>Session 6: Lecture Theatre Volatile Organic Compounds and Semiochemicals - uses in IPM</b><br><b>Chair: Dr Owen Jones</b> (Lisk & Jones Consultants Ltd, UK)<br><i>This session focuses on use of semiochemicals and volatile organic compounds in pest monitoring and pest control programmes. The VOCs can exhibit both semiochemical and pesticidal properties.</i> | <b>Session 7: The Mall “Computational Science &amp; Sensor Applications to Pest Management”</b><br><b>Chair: Dr Will Allen</b> (Swansea University, UK)<br><i>Computer science is playing an increasing role in pest management programmes; trap design, screening of semiochemicals, pest identification etc. It will play an even larger role in the future, especially when managing large areas.</i> |
| <b>11.00</b> | <b>11.20</b> | <b>Nayem Hassan</b> (Russell IPM, UK)<br><b>Push-Pull - a novel strategy for pest management in protected crops</b>                                                                                                                                                                                                                                                       | <b>Meelad Yousef</b> (University of Cordoba, Spain)<br><b>Towards the ecological and digital transition in integrated pest management: remote monitoring of the olive fruit fly and its microbial control.</b>                                                                                                                                                                                           |
| <b>11.20</b> | <b>11.40</b> | <b>Islam Shoby</b> (Cardiff University, UK).<br><b>Unlocking crop protection: Harnessing plant-insect interactions for sustainable pest management</b>                                                                                                                                                                                                                    | <b>Natalie Roberts</b> (Swansea University, UK)<br><b>Using visual modelling to improve pest management products.</b>                                                                                                                                                                                                                                                                                    |

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| 11.40 | 12.00 | <b>Pierre-Antoine Bourdon</b> (Swansea University, UK)<br><b>Developing new Integrated Pest Management (IPM) strategies against wireworms using volatiles organic compounds</b> | <b>Roger Santer</b> (Aberystwyth University, UK)<br><b>Trap colours can be improved rationally by modelling insect colour vision: improving coloured targets for tsetse fly control</b>                 |
| 12.00 | 12.20 | <b>Ugo Picciotti</b> (University of Alicante, Spain)<br><b>IPM and biocontrol by VOCs</b>                                                                                       | <b>Sam Cook, SEIMANDI-CORDA, E. BICK</b> (Rothamsted Research, UK)<br><b>Optical sensors for automated detection and identification of insect pests and their natural enemies in oilseed rape crops</b> |
| 12.20 | 12.40 | <b>Ene Leppick</b> (Agriodor, France)<br><b>Control of sugar beet yellows viruses by behavioral manipulation of aphid vectors in the field via volatiles</b>                    | <b>Martin Peacock</b> (Zimmer & Peacock Ltd, UK)<br><b>From Field to Cloud – Quantification of chemicals in the Agro-Industries.</b>                                                                    |
| 12.40 | 13.00 | <b>Adriana Escudero-Colomar</b> (IRTA, Spain)<br><b>Improving the forecast of <i>Grapholita molesta</i> development in apples</b>                                               | <b>Deb Roy</b> (Swansea University, UK)<br><b>Hypersepctral analysis of produce</b>                                                                                                                     |
| 13.00 |       | <b>LUNCH and Networking break</b>                                                                                                                                               |                                                                                                                                                                                                         |
| 14.00 |       | <b>Session 8: Lecture Theatre<br/>Funding Opportunities<br/>Chair: Dr Farooq Shah</b>                                                                                           |                                                                                                                                                                                                         |
| 14.10 | 14.20 | <b>Paul Laniran</b> (Innovate UK) <b>Funding for Research and Innovation in Agriculture</b>                                                                                     |                                                                                                                                                                                                         |
| 14.20 | 14.40 | <b>Stephen O' Leary</b> (Innovate Edge) <b>Innovate UK EDGE: Empowering your business innovation to grow and scale</b>                                                          |                                                                                                                                                                                                         |
| 14.40 | 15.00 | <b>Dr. Fawzi Belblidia</b> (Swansea University, UK) <b>A4I "Analysis for Industry" Funding opportunity</b>                                                                      |                                                                                                                                                                                                         |
| 15.00 | 15.10 | <b>Refreshments and networking break</b>                                                                                                                                        |                                                                                                                                                                                                         |
| 15.10 | 17.30 | <b>Session 9 – POSTERS &amp; STAND</b><br>Everyone has the opportunity to visit posters and stands to discuss with colleagues the posters/products and network.                 |                                                                                                                                                                                                         |
| 18.15 | 23.00 | <b>Banquet at the Arena, City Centre</b>                                                                                                                                        |                                                                                                                                                                                                         |
| 19.00 | 23.00 | Conference dinner and speeches (serving at 19.30)                                                                                                                               |                                                                                                                                                                                                         |

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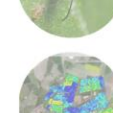
# Thursday 7<sup>th</sup> September

| Welcome and housekeeping – Taliesin Arts Centre<br>(Lecture Theatre) |       |                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                |
|----------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 9.00                                                                 |       | <b>Session 10: Lecture Theatre</b><br><b>“Nuisance Pest &amp; Disease Vector Control” Part 1</b><br><b>Chair: Peter McEwen</b><br><i>Many of the tools and strategies developed for crop protection have the potential for being adapted for use in the management of nuisance pests and disease vectors.</i> |                                                                                                                                                                |
| 9.00                                                                 | 9.20  | <b>Owen Jones</b> (Lisk & Jones Consultancy Ltd, UK)<br><b>Attractive Targeted Sugar Baits (ATSBs) as novel tools in mosquito disease vector management</b>                                                                                                                                                   |                                                                                                                                                                |
| 9.20                                                                 | 9.40  | <b>Colin Berry</b> (Cardiff University, UK)<br><b><i>Bacillus thuringiensis</i> in the control of pest invertebrates</b>                                                                                                                                                                                      |                                                                                                                                                                |
| 9.40                                                                 | 10.00 | <b>*Martyn Wood</b> (Swansea University, UK)<br><b>Bioprospecting the environmental microbiome of Crete towards the development of novel biopesticides</b>                                                                                                                                                    |                                                                                                                                                                |
| 10.00                                                                | 10.20 | <b>Imroz Ali</b> (Russell IPM, UK)<br><b>Integrated larvicide strategy for enhanced mosquito-borne disease control: controlled release novaluron tablet and eco-friendly silicon spreader.</b>                                                                                                                |                                                                                                                                                                |
| 10.30                                                                | 11.00 | <b>Refreshments and networking break</b>                                                                                                                                                                                                                                                                      |                                                                                                                                                                |
| 11.00                                                                |       | <b>Session 11: Lecture Theatre</b><br><b>“Nuisance Pest &amp; Disease Vector Control” Part 2</b><br><b>Dr Kanagasooriyam Kanagachandran</b> (Rentokil Initial Ltd, UK)                                                                                                                                        | <b>Session 12: The Mall</b><br><b>“Microbial &amp; Macrobial BCA: Production and Use”</b><br><b>Chair: Professor Dan Eastwood</b> (Swansea, UK)                |
| 11.00                                                                | 11.20 | <b>Charles Phillips</b> (Barrettine Ltd, UK)<br><b>FlyMax ULV - Control of mosquitoes without traditional pesticides.</b>                                                                                                                                                                                     | <b>Peter Lueth</b> (Toothpick Co, Kenya)<br><b>Kichawi Kill spore powder, the breakthrough in Striga control</b>                                               |
| 11.20                                                                | 11.40 | <b>Paul Dyson</b> (Swansea University, UK)<br><b>Symbiont-mediated RNAi: using bacteria to deliver RNAi to their insect hosts</b>                                                                                                                                                                             | <b>Ekaterina Grizanova</b> (University of Novosibirsk, Russia)<br><b>How pest resistance to <i>Bacillus thuringiensis</i> helps to improve bioinsecticide.</b> |
| 11.40                                                                | 12.00 | <b>Richard Samuels</b> (Universidade Estadual do Norte Fluminense, Italy)<br><b>The use of <i>Beauveria bassiana</i> to improve plant</b>                                                                                                                                                                     | <b>Yuxian Xia</b> (Chongqing University, PRC)<br><b>Development and mass production of broad-spectrum fungal pesticides</b>                                    |

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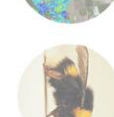
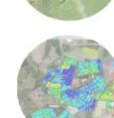


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|       |       | development in tomato, <i>Solanum lycopersicum</i>                                                                                                                                                                                                                                                                           | against insect pest and plant pathogen                                                                                                                                                                                                                                   |
| 12.00 | 12.20 | Chedly Tizaoui (Swansea University, UK)<br>Extraction of Essential Oils for Pest Control                                                                                                                                                                                                                                     | Robin Dietsch (Belafeld University, Germany)<br>Single-cell polymer coating improves desiccation tolerance of <i>Metarhizium brunneum</i> blastospores                                                                                                                   |
| 12.20 | 12.40 | Goria Resquin-Romero (National University of Asunción, Paraguay)<br>Entomopathogenic fungi for ant and termite control                                                                                                                                                                                                       | Wanissa Mellikeyeche (Università degli studi di Foggia, Italy)<br>Eco-friendly strategy to control toxigenic <i>Aspergillus</i> spp. on nuts based on early detection by Loop-mediated isothermal amplification (LAMP) and alternative pre- and post-harvest treatments. |
| 12.40 | 13.00 |                                                                                                                                                                                                                                                                                                                              | Mustafa Kilic (Black Sea Agricultural Research Institute, Türkiye) <b>Current status of <i>Halyomorpha halys</i> (stål, 1855) (Hemiptera: Pentatomidae) in Türkiye and its associated biocontrol using <i>Trissolcus japonicus</i> (Hymenoptera: Scelionidae)</b>        |
| 13.00 | 14.00 | <b>LUNCH and Networking break</b>                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                          |
| 14.00 |       | <b>Session 13: Lecture Theatre</b><br><b>New IPM: Development, Regulatory and Training</b><br><b>Chair: Jennifer Lewis IBMA</b><br><i>For IPM to be implemented and successful, it takes a multidisciplinary effort from many different quarters. Here, we consider regulation, and training aspects for IPM development</i> |                                                                                                                                                                                                                                                                          |
| 14.10 | 14.30 | Holly Alpren (Defra, UK)<br>Overview of DEFRA's IPM R&D                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                          |
| 14.30 | 14.50 | Steve Arthurs (BioBee Ltd, USA)<br>Drone delivery of beneficial insects and mites for pest control in open field crops: Grower Training & Experiences from the USA                                                                                                                                                           |                                                                                                                                                                                                                                                                          |
| 14.50 | 15.10 | Aoife Dillon (FERA, UK)<br>IPM: addressing the challenge in the UK context                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                          |
| 15.10 | 15.30 | Djami Djeddour (CABI, UK)<br>Navigating Regulatory Procedures for weed biological control using non-native agents in the UK                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                          |

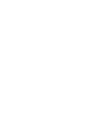
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| 15.35 | 15.55 | Jack Farmer (LettUs Grow, UK)<br>Innovation and regulatory challenges in controlled environment agriculture |
| 15.55 | 16.00 | Jennifer Lewis (IBMA), Session closing remarks                                                              |
| 16.00 | 16.10 | New-IPM: Closing Remarks. Professor Tariq Butt (Swansea University) and Dr Ian Baxter (IBMA UK)             |



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