



Association for  
Crop Protection  
in Northern Britain  
CONFERENCE

# Crop Production in Northern Britain 2024

*Apex Hotel Dundee, UK*

**27<sup>th</sup>-28<sup>th</sup> February 2024**



## PROGRAMME, ABSTRACTS and DELEGATE LIST

[www.cpnb.org](http://www.cpnb.org)

***Association of Crop Production in Northern Britain***

Registered Charity No. SCO 14888; <http://www.cpnb.org/>

***Association of Applied Biologists***, Warwick Enterprise Park, Wellesbourne, Warwick CV35 9EF, UK

Registered Charity No. 1195899; <http://www.aab.org.uk>

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27<sup>th</sup>-28<sup>th</sup> February

CPNB 2024 ("The Dundee Conference") is the foremost Conference concerning environmental management and crop production and associated topics in northern environments. Whilst the long-established Association for Crop Protection in Northern Britain is not changing its name, the change in the title of the Conference to Crop PRODUCTION, reflects the wider remit of recent conferences.

We are delighted to be working with the Association of Applied Biologists to organise our 2024 meeting, which will bring the community back together for an in-person meeting hosted at The Apex Hotel in Dundee.

The scientific presentations at CPNB are divided into sessions on 'Potatoes', 'Combinable Crops' and 'Agriculture and the Environment'.

## PROGRAMME

### Tuesday 27<sup>th</sup> February

08:30 REGISTRATION OPENS

09:30 WELCOME and INTRODUCTION  
FIONA BURNETT (SRUC, Edinburgh)

#### Keynote Speaker

09:45 **Climate change impacts on land: a north-south divide**  
MIKE RIVINGTON (James Hutton Institute, Aberdeen)

#### Session One: Agriculture and the Environment

CHAIR: AMY GEDDES (Arable farmer and Chair of Scottish Voluntary Initiative)

10:15 **Update from Scottish Government**  
LORNA SLATER MSP (Minister for Green Skills, Circular Economy and Biodiversity in the Scottish Parliament, Co-leader of Scottish Greens)

10:20: **Update from Scottish Government**  
JACKIE HUGHES (SASA, Edinburgh)

10:50 **Exploiting phyllosphere microbes to strengthen UK cropping systems**  
LORENA RANGEL (The James Hutton Institute, Dundee)

11:10 BREAK

- 11:40 **OurSmartFarm: A crop growth monitoring and decision support system for Scottish farmers**  
MOHAMED JABLOUN (The James Hutton Institute, Dundee)
- 12:00 **Ten years of the SEEDS database: What can seed testing results tell us about cereal seed quality in Scotland**  
LAURA BOWDEN (SASA, Edinburgh)
- 12:20 **To plough or not to plough?**  
JACK JAMESON (Teagasc, Carlow, Ireland)
- 12:40 **Grieves House Tillage Trial: What have we learnt from six years of transition to no-tillage cultivation**  
TRACY VALENTINE (The James Hutton Institute, Dundee)

13:00 LUNCH

## **Session 2: Combinable Crops**

CHAIR: Neil Havis (SRUC, Edinburgh, UK)

- 14:00 **Grain Sustainability Challenges: a Scotch Whisky Perspective**  
JAMES BROSNAN (The Scotch Whisky Research Institute, Edinburgh)
- 14:30 **Optimise your nitrogen program using new endophyte technology from Syngenta - introducing Nuello iN & Vixeran**  
Jon Ronksley (SYNGENTA UK)
- 14:50 **Investigating the impact of different cultivation systems on crop performance in cereal crops**  
LAURIE ABEL (RSK ADAS Ltd)
- 15:10 **Multiplex digital droplet pcr assay for the detection of barley pathogens**  
RABISA ZIA (Teagasc, Carlow, Ireland)
- 15:30 **Fusarium spp. from Irish cereals: Contributions towards the development of a decision support system to minimise mycotoxin levels in cereal produces**  
DIANA E BUCUR (Teagasc, Carlow, Ireland)
- 15:50 BREAK
- 16:20 **Mycotoxin contamination in Scottish oats and potential mitigation strategies for growers and processors**  
SILVIA W GRATZ (Rowett Institute, University of Aberdeen)
- 16:40 **Tillage, season, management and crop history all affect yield ranking. Which is more important for resilience assessment?**  
ADRIAN C NEWTON (The James Hutton Institute, Dundee)
- 17:00 **Monitoring the sensitivity of Zymoseptoria tritici populations to the azole fungicides**  
STEVEN KILDEA (Teagasc, Carlow, Ireland)
- 17:20 **Potential for vcontrol of Ramularia leaf spot in barley**  
LAURA ROEHRIG (RAGT Seeds)



## 17:40 POSTER SESSION AND DRINKS RECEPTION

- P1 **Improving aphid and BYDV monitoring**  
JACK PERRY (Teagasc, Carlow, Ireland)
- P2 **Influence of grazing winter cereals with sheep on agronomic factors including crop pathogen and weed pressure**  
LUKE HARROLD (SRUC, Edinburgh)
- P3 **An evaluation of the potential for Bokashi manure treatment in the UK**  
AUDREY LITTERICK (Earthcare Technical Ltd)
- P4 **Varietal resistance as an IPM tool for Scottish barley crops**  
HENRY CREISSEN (SRUC, Edinburgh)
- P5 **IPM information on social media: Using large language models (LLMs) and keyword extraction to identify trends on YouTube data**  
HENRY CREISSEN (SRUC, Edinburgh)
- P6 **Risk perception influences crop protection decisions**  
HERNAN DEGIOVANNI (SRUC, Edinburgh)
- P7 **Control of Barley Diseases using Integrated Control Measures**  
NEIL HAVIS (SRUC, Edinburgh)
- P8 **Why and how government should support IPM**  
HENRY CREISSEN (SRUC, Edinburgh)
- P9 **Ramularia – Predicting Disease Outbreaks**  
KAIRSTY TOPP (SRUC, Edinburgh)
- P10 **Integrated Pest Management Plans – Plan development and analysis of data 2021-2023**  
NEAL EVANS (The Voluntary Initiative)

19:00 CONFERENCE DINNER

# February 28<sup>th</sup> 2024

09:30 REGISTRATION OPENS

## Session 3: Potatoes

Session Chairs: Alison Lees and Archie Gibson

- 10:00 **What is happening with the regulation of new breeding techniques in Europe?**  
EWEN MULLINS (Teagasc, Carlow, Ireland)
- 10:30 **IPM Strategies for potatoes – A farmers perspective**  
DAVID BELL (Champion Mixed Farmer in Fife)

11:00 BREAK

11:30 **A National Potato Innovation centre for the UK and beyond**  
IAN TOTH (The James Hutton Institute, Dundee)

11:50 **Impact of a changing pathogen population on efficacy of control measures for potato late blight**  
ALISON LEES (The James Hutton Institute, Dundee)

12:10 **Potato cyst nematodes and the future of potato production in Scotland**  
JAMES PRICE (The James Hutton Institute, Dundee)

12:30 OPEN DISCUSSION ON UPTAKE OF NEW TECHNOLOGIES TO ENSURE THE FUTURE OF POTATO FARMING IN NORTHERN BRITAIN

1300 LUNCH

14:00 **Potato Storage Research Capabilities in the UK**  
ANDY EVANS (Crop Health & Protection, York)

14:10 **A Proactive Approach to Managing Aphid Vected Viruses in Scottish Seed Potato Production**  
FIONA BURNETT (SRUC, Edinburgh)

14:30 **Patterns and predictors of potato viruses in Scotland**  
PETER SKELSEY (The James Hutton Institute, Dundee)

14:50 **The potential contribution of potassium phosphonate to the control of potato late blight in northern Britain**  
RUAIRIDH BAIN (SRUC, Edinburgh)

15:10 **Psyllid behavioural studies help understand the risk posed by “*Candidatus Liberibacter solanacearum*” to UK potato and carrot production**  
FIONA HIGHET (SASA, Edinburgh)

15:30 FINAL THOUGHTS AND MEETING END