



THE 19TH CONFERENCE
**CROP PRODUCTION
IN NORTHERN BRITAIN 2022**

1 and 2 March 2022

Programme

ACKNOWLEDGEMENTS



The Organising Committee gratefully acknowledges the Scottish Society for Crop Research for their generous support.



The Organising Committee gratefully acknowledges AHDB Cereals & Oilseeds for their support of the Combinable Crops session.

THE ASSOCIATION FOR CROP PROTECTION IN NORTHERN BRITAIN
(A non-profit making, Registered Charity, SCO 14888)

STANDING COMMITTEE

Officers: Fiona Burnett - SRUC (Chair)
Vacancy (Secretary)
Adrian Newton – The James Hutton Institute (Treasurer)

CONFERENCE ORGANISING COMMITTEE

Session leads:
Neil Havis - SRUC
Rebecca Audsley - SAC Consulting
Christophe Lacomme - SASA

Jack Bloodworth - SEPA
Adrian Roberts - BioSS
Paul Chapman- SAC Consulting
Hamish Coutts - Association of Independent Crop Consultants
Alison Lees - James Hutton Institute
Marian McEwan - SASA
Jackie Hughes - SASA
Kyran Maloney – SAC Consulting
Henry Creissen - SRUC
Alex Reid - SASA
Marta Piotrowska - SASA

General Information

Poster Sessions

Posters will be available to view on our CPNB website: www.cpnb.org.

Social Media

Please use #CPNB2022 when mentioning this conference on social media

CPD Points

This conference has been awarded the following CPD points:

BASIS CPD points: 6 (for day 1) 4 (for day 2)

NRoSO: 2

Details on how to register these points will be sent out after the conference.

We wish you all an enjoyable conference

CROP PROTECTION IN NORTHERN BRITAIN 2022

SYNOPSIS OF THE PROGRAMME

Tuesday 1 March

10.00 Welcome
10.05 Session 1: Agriculture and the Environment
12.40 Lunch break
1.10 Session 2: Combinable Crops
5.10 Close of Session

Wednesday 2 March

10.00 Session 3: Potatoes
12.30 Lunch break
1.00 Session 3: Potatoes
3.10 Close of Session
3.20 Close of Conference

Please ensure your name and organisation are in your title on Zoom.

TUESDAY 1 MARCH

Session 1: Agriculture and the environment

- 10.00 Chair: Fiona Burnett, SRUC, Chair ACPNB.
- 10.05 Lorna Slater MSP, Minister for Green Skills, Circular Economy and Biodiversity. Keynote speaker.
- 10.25 Mathew Williams, Chair of Global Change Ecology Edinburgh University and (from January 2022) Chief Scientific Adviser for Environment, Natural Resources and Agriculture for Scottish Government. Keynote speaker.
- 11.05 Fiona Burnett, Andy Evans: The impact of pesticide withdrawals on crop production in Scotland.
- 11.20 Adrian Newton: Are variety mixtures / blends best for low or high input cropping systems.
- 11.35 Discussion
- 11.40 Jennie Brierley, James Lynott, Louise Sullivan: Investigating soil cultivation practices and the development of disease suppressive soils.
- 11.55 Ali Karley, Adrian Newton: Winter pea production with cereal intercropping.
- 12.10 Rob Brooker, Adrian Newton, Ali Karley, Mitchell C, Hewison R: Identifying challenges and developing solutions: lessons from participatory approaches to improving and promoting crop mixtures.
- 12.25 Discussion - 15 minutes
- 12.40 Lunch break

Session 2: Combinable Crops

- 1.05 Chair: Keith Dawson, Chair SSCR. Welcome.
- 1.10 Neil Paveley, Henry Creissen, Chris Hartfield, Nicolas Munier-Jolain, Philip Walker, Jonathan Blake, Mark Ramsden. Keynote speaker: Combinable Crops- Increasing IPM uptake.
- 1.40 Henry Creissen, Elliot Meador, Fiona Burnett: IPM adoption by arable farmers: Analysis of the new IPM plans.
- 1.55 Katherine Lester, Rebecca Cairns, Louise Feehan: Arthropod biodiversity in field margins at SASA- a simple method for measuring diversity?
- 2.10 Gregory Hanna, Rosalind Martin - Integrating Rapid disease detection into disease management.
- 2.25 David E. L. Cooke, Brierley J, Toth IK, Randall E, Humphris S, Jones J, Cock PJ: Applications of DNA metabarcoding for plant pathogen tracking and diagnostics.
- 2.40 Discussion

- 2.55 Marian McEwan, Laura Melton: Investigation into the development of Fusarium species and their associated mycotoxins in Oat crops.
- 3.10 Roger Sylvester Bradley, Daniel Kindred, Sarah Kendall, Sarah Clarke, Dhaval Patel, Pete Berry: Yield Enhancement network: farmers doing active research. Invited speaker
- 3.25 Sarah Kendall, Pete Berry, Steve Hoad, Ian Bingham: Optimising Nitrogen rates and timings for spring barley.
- 3.40 Discussion
- 3.50 Steven Kildea, Liam Shepperd, Mladen Cucak, Fiona Hutton: Breakdown in Cougar based *Septoria tritici* blotch resistance in Ireland and consequences for disease control.
- 4.10 Neil Havis, Tracy Yoxall, Henry Creissen, Fiona Burnett: Control of barley disease.
- 4.25 Henry Creissen, Elliot Meador, Fiona Burnett: Information networks of farmers and agronomists in Scotland: Where do they go to for IPM advice?
- 4.40 Combinable crops discussion session: Neil Havis, Adrian Newton.
- 5.10 Closing remarks: Neil Havis, Adrian Newton.

WEDNESDAY 2 MARCH

Session 3: Potatoes

- 10.00 Chair: Philip Burgess, Scottishpotatoes.org: Welcome.
- 10.05 Oscar Ortiz, Director General of the International Potato Center (CIP), Peru. Keynote speaker: Overview of the future for potatoes in an international context.
- 10.35 Edwin van der Vossen, R&D Director, Solynta, The Netherlands. Keynote speaker: Towards more resilient potatoes: status and potential of hybrid true potato seed breeding.
- 11.05 Brice Dupuis, ACW Changins, Switzerland. Invited speaker: New PVY Control Strategies in Seed Potatoes.
- 11.30 Philip Burgess, Christophe Lacomme, Jane Thomas, Ian Nevison, Innes Jessiman: Evaluating the effectiveness of aphid management programmes in minimising the spread of non-persistent viruses in potato seed crops in GB.
- 11.45 Alison Roberts, Graham Cowan, Pankaj Kumar, Julie Squires, Lesley Torrance: The effect of phloem transport on virus movement and tuber bulking in potatoes.
- 12.00 James Lynott, Alison Lees, David Cooke, Louise Sullivan: Characterising *Phytophthora infestans* genotypes dominant in the GB population.
- 12.15 Discussion
- 12.30 Lunch break
- 1.00 Kyran Maloney, Ryan Torrie: Haulm pulling and disease risk in high grade seed potato crops.
- 1.15 Ian Toth, Adam Kleczkowski, Amy King, Ari Sadanandom, Barbara Mable, Bavanthi Navarathne, Ciara Keating, David Roberts, Elizabeth Kilbride, Eric Anderson, Euan Grewar, Gerard Croft, Glyn Jones, Greig Cahill, Jacqueline Marshall, Janet Laird, Jim Wilson, Joel Milner, Kathryn Wright, Mansi Bhardwaj, Marc Allison, Mark Stalham, Mike MacDonald, Peter Skelsey, Roy Neilson, Simon Alexander, Simon Smart, Sonia Humphris, Sophie Bambridge, Tim Daniell, Triona Davey, Umer Zeeshan, Xingshui Dong, Yangminghao Liu: New approaches for blackleg disease control and the development of a decisions support tool.
- 1.30 Ashleigh Holmes, Jacqueline Marshall, Kathryn M. Wright, Gill Fraser, Sonia Humphris, Ian Toth: *Pectobacterium atrosepticum* colonisation of cover crop species under controlled conditions.
- 1.45 Discussion
- 1.55 John Jones, Catriona McLean, David Ewing, Eric Anderson, Fiona Burnett, Gaynor McKenzie, Glenn Bryan, Gregor Walsh, James Price, Jim Wilson, Jon Pickup, Katharine Preedy, Micha Bayer, Peter Skelsey, Phil Burgess, Sonia Humphris, Steven Thomson, Vivian Blok, Xinwei Chen, Ian Toth: Coordinating solutions across industry, academia and government to potato cyst nematode (PCN) in Scotland.
- 2.10 Jon Pickup, Jim Wilson, Eric Anderson: Restoring PCN infested land for seed potato production: Using intensive soil testing and resistant varieties.

- 2.25 Rebecca Cairns, Fiona Highet, David Kenyon, Mogens Nicolaisen, Raphaëlle Mouttet, Antoon Loomans, Eugénia de Andrade, Hume Douglas, Anthony Deczynski and Maria da Conceição de Lemos Viana Boavida: Euphresco Epirix II – Improving detection, identification understanding and control of this serious potential pest to the potato industry.
- 2.40 Potato discussion session: Philip Burgess.
- 3.10 Potato session chair closing summary.
- 3.15 Closing comments and thank you: Fiona Burnett.
- 3.20 Event closes.