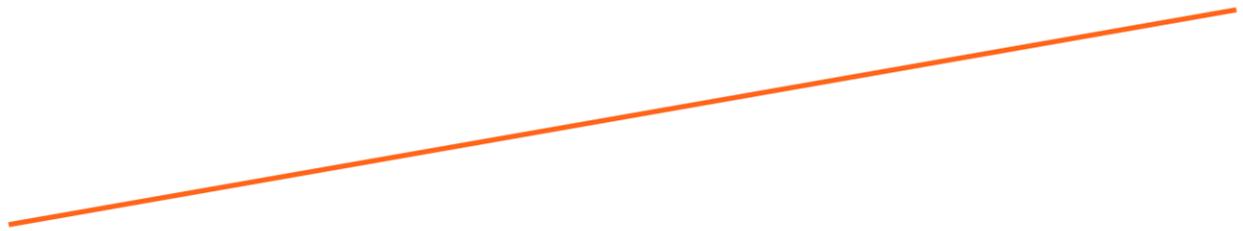


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Institution of Agricultural Engineers

## **Landwards Conference 2022**

### **Engineering Sustainability in Agriculture**

**Date:** Tuesday 1<sup>st</sup> November 2022 – 9.30am-3.30pm

**Location:** Peterborough Suite, East of England Conference Centre,  
Peterborough PE2 6XE

## Background

Soil is key to agriculture. It is the foundation for the production of food and sustaining life. The loss of this key ingredient in food production will have disastrous consequences. Intensive agriculture, especially broad acre crop production is having an increasingly negative effect on the soil, resulting in processes such as erosion, compaction, organic matter loss to name a few. Over the past few decades we have seen significantly increased focus on soil, whether it is from changes in farming techniques, machinery design or the crops grown. We have now added into the mix carbon sequestration and the desire not to release carbon into the atmosphere through cultivation, coupled with the significant increase in input costs, such as fuel, fertiliser and chemicals.

Soil health is not new: the old saying “look after the land and the land will look after you” is still very true. So what can engineers do about it? The answer is of course, everything. It is engineers and technologists working in agriculture and environmental sciences that we rely on to solve these issues.

In our Landwards 2022 annual conference, “Engineering Sustainability in Agriculture” we will explore how soil management technologies will change the way we farm the land to produce food.

Our experienced presenters will take us through a selection of developments in the agricultural industry and how these can bring us closer to sustainable food production, supporting carbon net zero and other environmental opportunities and challenges faced by farmers and growers.

Our conference will interest people working within agriculture and its associated industries, plus equipment manufacturers, dealers and service providers, and education, research and agri-tech organisations. It will give a taste of the technologies and practices being explored and what we can expect in the future.

Thank you to our sponsors:



## The Programme

0930	<b>Arrival, Registration &amp; Networking</b>
1000	<b>Introductory Remarks -</b> <b>Steve Constable, IAgrE President</b>
1010	<b>Drilling without Tilling - Developments in Seed Drills</b> <b>George Sly – Horizon Agriculture Ltd</b> <i>George's presentation will provide and insight into his company's vision and the concepts being applied to their seed drill development. Their no-till approach is driving a number of innovative features and technology employed on their products. This importantly provides a host of efficiency benefits for the customer, whilst working towards a sustainable future.</i>
1100	<b>Coffee Refreshment Break</b>
1120	<b>Managing the Soil - the Science of Soil</b> <b>Paula Misiewicz – HAU</b> <i>Paula's presentation will provide an in depth look at the various research projects centred around soil mechanics and management, with a focus on ground compaction reduction methods, alternative tillage systems and precision agriculture methods. Paula will explain how science is providing the answers to sustainable land use and food production.</i>
1210	<b>Sustainable Mechanisation - a New Mechanisation on the Land</b> <b>TBC</b> <i>This presentation will explore a new kind of mechanisation on the land, not only driverless operation, but also powered by sunlight. Offering a light footprint and zero emissions to providing chemical free weeding surely has great sustainability credentials. Robots will certainly play a part in providing a sustainable future for agriculture.</i>
1300-1400	<b>Break for Lunch</b>
1400	<b>Regenerative Farming</b> <b>Ben Taylor-Davies – RegenBen</b> <i>Ben's presentation offers a fascinating journey in his farming career, specifically how to farm sustainably in harmony with the environment. The audience will be taken through Ben's regenerative agriculture approach and how it is being practically applied in a commercial farming enterprise and what the future holds.</i>
1450	Q&A and Speaker Panel Discussion hosted by Andy Newbold, FarmSmart & Charlie Nicklin, IAgrE CEO
1530	<b>Close and thanks</b> <b>Charles Nicklin CEO IAgrE</b>

**Cost:** £100 + vat for IAgrE Members, £70 + vat for Retired Members, £40 + vat for Student Members. Non-Members £150 + vat

**Booking:** <https://iagre.org/events/IAgrEConf2022>

**Venue:** The East of England Showground,  
Peterborough  
PE2 6XE  
**For SAT NAV:**  
Please use PE2 6HE

