The Institution of

Agricultural Engineers

Founded 1938 – Incorporated 1960

## The President’s Award

## Paula MisiewiczAMIAgrE

Dr Paula Misiewicz is a Senior Lecturer in Soil and Water Management with, uniquely, a joint appointment in both the: Agriculture and Environment and Engineering Departments at Harper Adams University. She obtained a MEng in Environmental Engineering from the University of Warsaw, and both a MSc in Soil Management and PhD from Cranfield University at Silsoe. Her MSc and PhD dissertations respectively studied i. the soil mechanics of novel land anchors and ii. the evaluation of the soil pressure distribution and carcass stiffness resulting from pneumatic agricultural tyres.

In addition to her teaching duties, Paula’s 15 years of post-doctoral experience in research focuses on soil-tyre interactions, the mitigation of soil compaction, controlled traffic farming, improvements to soil health and carbon sequestration, and the mitigation of Green House Gas emissions. This has demonstrated how innovative soil management and mechanization

practices can improve crop yields, soil health and farming system resilience. This has been possible as a result of projects at Harper Adams University funded by the Douglas Bomford Trust, the Morley Foundation, Michelin, Vaderstad, AGCO and Dairy Co., and international projects at the University of Illinois for Michelin, and at a demonstration farm in Zambia for AGCO. Currently, the research is being extended with field studies with potato farmers and Cranfield University to reduce tillage intensity as part of the Potato LITE project funded by Defra and UKRI together with PepsiCo, McCains and Grimme. Paula’s doctoral supervision has seen the successful completion of five PhD studies with a further three at various stages of completion.

Paula joined the Institution of Agricultural Engineers in 2010 serving as a member of both the Executive Committee and Council from 2012 to 2015. Paula presented an invited paper at the 2022 Landwards Conference entitled “Managing the Soil – the Science of Soil”. She is also an active member of the American Society of Agricultural and Biological Engineers (ASABE) servingas Secretary, Vice-Chair, and Chair of the Soil-Plant-Machine Dynamics Committee between 2019-2021. In 2023, she was co-recipient of the prestigious ASABE Distinguished Lecturer Award sponsored by Deere & Co., co-authoring a paper at the Agricultural Equipment Technology Conference in Fresno CA, USA in collaboration with colleagues from Iowa State University (USA) and CSIRO (Australia). She co-led the team that revised the ASABE Cone Penetrometer Standard.

This citation demonstrates that Dr. Paula Misiewicz is an ideal candidate for the President’s Award. She is very active in her mid-career undertaking and leading topical soil management research, which is valuable for both UK and International agriculture. Paula is well respected internationally helping to maintain the UK’s reputation as a base for good science and engineering.