



Agricultural Economics Society

97th Annual Conference 2023

Full Programme

The University of Warwick

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Monday 27th March, AES Conference Day 1

09:15-09:45	Registration, Tea and Coffee	
09:45-10:00	Introduction and Welcome – Lecture Theatre	
10:00-11:15	Contributed Papers Session 1	
	Finals “Best PhD Presentation Award”	
Room 0.12 Chair: Jonathan Brooks	<i>Policies to reduce GHG emissions from agriculture, their implications for agricultural activity levels and land use decisions in Ireland</i>	Zohreh Rafiee, University College Dublin and Teagasc
	<i>Farmers' preferences over alternative AECS designs. Do the ecological conditions influence the willingness to accept result-based contracts?</i>	Carolin Canessa, Technical University Munich
	<i>Assessing digital opportunities for the distribution and product design of agricultural microinsurance</i>	Ella Kirchner, University of Goettingen
	Agricultural and Food Policy	
Room 0.14 Chair: Michele McCormack	<i>Payments for agri-environmental schemes and green productivity in Germany: An impact assessment analysis</i>	Amer Ait-Sidhoum, LUKE
	<i>Farmers perceptions and perspectives in regard to agricultural policy making in Switzerland</i>	Martina Spoerri, ETH Zurich
	<i>A comparison of animal and plant-based proteins from an economic, environmental, and nutritional perspective in the Republic of Ireland</i>	Marie Merlo, University College Cork
	Trade	
Room 1.13 Chair: Sunghun Lim	<i>The impact of markups on export behaviour: Firm level evidence from Hungarian food industry</i>	Imre Ferto, Institute of Economics, CERS
	<i>The impact of UK food and bioenergy imports on global land use under future socioeconomic scenarios (UK-SSPs)</i>	Bart Arendarczyk, University of Edinburgh
	<i>Potential Impact of Brexit on Fruits and Vegetable Purchases in Scotland</i>	Wisdom Dogbe, University of Aberdeen
	Consumer Behaviour	
Room 1.15 Chair: Bruce Traill	<i>The impact of perceived COVID-19 risks, food waste generation and food purchase control on the food security status during the pandemic.</i>	Montserrat Costa-Font, SRUC
	<i>Low carbon beef: factors influencing sustainable purchase intentions of British consumers</i>	Ana Abrahao, Teagasc
	<i>An empirical analysis of purchases of soft fruit in Scotland</i>	Cesar Revoredo Giha, SRUC
	Sustainable Agriculture I	
Room 1.03	<i>Quantification of the water-carbon nexus in food systems: A provincial-level perspective in China</i>	Yang Liu, Technical University of Munich

Chair: Emma Dillon	<i>The impact of different GHG estimation methodologies on the derivation of the marginal abatement cost for dairy farms in Lombardy</i>	K Hervé Dakpo, INRAE
	<i>Examination the Effect of Participation in Agri-Environmental schemes (AES) on farms' applied technology and technical efficiency</i>	Lajos Baráth, KRTK
Technology Adoption I		
Room 1.04 Chair: Erik Mathijs	<i>The intention to adopt spot spraying for sustainable weed control – an extended theory of planned behaviour approach</i>	Philipp Feisthauer, University of Bonn
	<i>Behavioural Drivers of Farmers Intention to Adopt Long-Term Land Leasing: An Application of Extended Theory of Planned Behaviour</i>	Adewale Henry Adenuga, AFBI
11:15- 11:45	Tea and Coffee	
11:45- 13:00	Keynote Address by Professor Erik Mathijs (KULeuven): 'Reconfiguring agri-food supply chains to support healthy and sustainable diets'	
13:00- 14:00	Lunch	
14:00- 15:30	Discussion Papers Session 1	
Room 0.12 Chair: Christina Sietou	<i>Policy support for organic farming in the European Union past achievements and future challenges</i>	Nicolas Lampkin, Thünen Institut
	<i>The impact of the US dollar on international agricultural prices</i>	Grant Davies, Defra
	<i>Assessing the prospects of the future Sustainable Farming Scheme in Wales, fit for success or of limited relevance?</i>	Theo Lenormand, CCRI
Room 0.14 Chair: Adewale Henry Adenuga	<i>A Review of Economic Assessments of Drought Risk Reduction Approaches in Agriculture</i>	Sam Vermeulen, University of Antwerp
	<i>Voluntary Carbon Markets: Exploring Feasibility and Acceptability</i>	Julian Worley, NUI Galway
	<i>CAP reform and GHG emissions: policy assessment using a PMP agent-based model</i>	Filippo Arfini, University of Parma
Room 1.13 Chair: Lajos Baráth	<i>A Bio-Economic Model analysis of producing silage as a feedstock for Anaerobic Digestion in Ireland</i>	Maurice Deasy, Teagasc
	<i>A Comprehensive Insight to Collaborative Farming for Generational Renewal in the Agricultural Industry</i>	Mika Shin, Teagasc
	<i>Resource Efficiency Estimation and Digital Recommendation: Sustainable Pathway to Improve Paddy Farmers' Productivity</i>	Piyush Singh, Indian Institute of Technology Kharagpur
Room 1.15 Chair: Cesar Revoredo Giha	<i>A spatial analysis of Yogyakarta urban farming</i>	Diogo Souza Monteiro, Newcastle University
	<i>Exploring the drivers of Sustainable Innovation in wine cooperatives: a case-studies analysis</i>	Anna Uliano, University of Sannio

Room 1.04 Chair: Montserrat Costa-Font	<i>Do Non Tariff Measure on Agricultural Trade Reduce Food Security</i>	Teale Cunningham, Defra
	<i>The impact of the Ukraine war on world grains prices</i>	Christopher Gilbert, SAIS Europe, Johns Hopkins University
	<i>An assessment of options for estimating carbon offshoring impacts of UK trade agreements in agriculture</i>	William Gobey, Defra
15:30-16:45	Poster Session with Tea and Coffee (See Page 10)	
16:45-18:00	Contributed Papers Session 2	
GHG Emissions in Agriculture I		
Room 0.12 Chair: Caroline Saunders	<i>Heterogeneity in the effect of GHG mitigation strategies on Irish dairy farms</i>	Lorraine Balaine, Teagasc
	<i>Farm-Level Assessments of Greenhouse Gas Marginal Abatement Cost Curve Emissions: Understanding the Implications of Interactions and Heterogeneity</i>	Oyinlola Ogunpaimo, Teagasc
	<i>Achieving net zero: exploring the contribution of new woodlands</i>	Marios Zachariou, AFBI
Impact Assessment		
Room 0.14 Chair: Christophe r Gilbert	<i>Economic effects of organic farming in Taiwan: Empirical evidence from population-based farm household data</i>	Yun-Cih Chang, National Taiwan University
	<i>Ostrom Meets the Pandemic: Lessons from Asian Rice Farming Traditions</i>	Sunghun Lim, Louisiana State University
	<i>Minimum wages and productivity shocks: Evidence from South Africa</i>	Josh Merfeld, KDI School
Food Security		
Room 1.13 Chair: Zoltan Bakucs	<i>Gendered Effects of Crop Diversification and Climate Shocks on Household Food Security Status in Nigeria</i>	Eugenie Rose Fontep, World Bank
	<i>The Effects of Rising Prices on Corn Production in Western African Countries</i>	Marco Rogna, European Commission, Joint Research Centre
	<i>The Impact of Chinese Rice Support Policies on Rice Acreages</i>	Cornelis Gardebroek, Wageningen University
Agri-Environmental Policy		
Room 1.15 Chair: Imre Ferto	<i>Assessing the performance of agglomeration bonus in budget constrained conservation auctions</i>	Chi Nguyen, Kiel University
	<i>Does land tenure security reduce deforestation? Evidence for the Brazilian Amazon</i>	Alexandre Gori Maia, Universidade Estadual de Campinas
	<i>Improving the ecological and economic performance of agri-environment schemes: payment by modelled results versus payment for actions</i>	Nick Hanley, University of Glasgow
Rural Development I		
Room 1.03 Chair:	<i>Better together? The impact of VietGAP and PGS certification on farmers' income: Evidence from panel data in Vietnam</i>	Laura Enthoven, UCLouvain

Chittur Srinivasan	<i>Malian farmer typology based on characteristics and repayment performance – An unsupervised machine learning approach</i>	Tim Ölkens, University of Göttingen
	<i>What prospects for green jobs in the rural G5 Sahel?</i>	Steve Wiggins, Overseas Development Institute
Sustainable Agriculture II		
Room 1.04 Chair: Alisa Spiegel	<i>Modelling the economic performance of recirculating aquaculture systems RAS at the farm level</i>	Jorge Campos-González, University of Reading
	<i>Assessment of the sustainability of agricultural systems a cross-comparison of the two farming systems in Punjab, India</i>	S.P. Singh, Indian Institute of Technology (IIT), Roorkee
	<i>Investigation of the sustainability and environmental protection ambitions of the irrigation development measure in Hungary</i>	József Fogarasi, Óbuda University
19:00	Dinner	

Tuesday 28th March, AES Conference Day 2

07:00-08:00	Social Event: Morning Run Led by Josh Merfeld (Start in Front of the Ramphal Building)	
09:00-09:45	AGM of the Agricultural Economics Society in the Lecture Theatre	
09:45-10:45	Plenary Presidential Address by Brendan Bayley (HM Treasury): 'Because it matters!'	
10:45-11:15	Tea and Coffee	
11:15-12:45	Plenary Session Chaired by Dr Alisa Spiegel (Thünen Institute, Germany): 'Opportunities and Failures of Policy on Organic Agriculture' – Speakers are Dr Nicolas Lampkin (Thünen Institute, Germany), Mr Dimitrios Kremmydas (JRC, Spain), Prof. Simone Severini (UNITUS, Italy) and Dr Sharon Raszap Skorbiansky (US Department of Agriculture, Economic Research Service)	
12:45-13:45	Lunch	
13:45-15:00	Contributed Papers Session 3	
	GHG Emissions in Agriculture II	
Room 0.12 Chair: Lorraine Balaine	<i>Estimation of nitrous oxide (N₂O) emissions from agricultural soil management at higher resolution and implications for defining the cost of carbon at farm level</i>	Carlos Alberto Francisco Cruz, UCD
	<i>Distances to climate targets 2030 in EU-27 agriculture: explorative analysis</i>	Alisa Spiegel, Thuenen Institute, Coordination Unit Climate
	<i>An Assessment of farmers perceptions of alternative Greenhouse Gas emissions mitigation technologies</i>	James Breen, UCD
	Technology Adoption II	
Room 0.14 Chair: Brendan Bayley	<i>Adoption of multiple soil fertility management practices and its impact on farm performance in Rural China</i>	Shijia Kang, Technical University of Munich
	<i>Adoption and impact assessment of improved groundnut varieties on poverty using DNA-Fingerprinting data: Evidence from smallholder rural farmers in Northern Nigeria</i>	Geoffrey Muricho, International Maize and Wheat Improvement Center (CIMMYT)
	Risk and Resilience	
Room 1.13 Chair: Cornelis Gardebroe k	<i>Assessing the (a)symmetric effect of global climate anomalies on food prices: Evidence from local prices</i>	Lotanna Emediegwu, Manchester Metropolitan University
	<i>Network resilience, risk aversion, procrastination and gender roles: Evidence from Vietnamese Vegetable Farming</i>	Tuan Luong, De Montfort University
	<i>German farmers' perceived usefulness of satellite-based index insurance – Insights from a transtheoretical model</i>	Eike Florenz Nordmeyer, Georg-August-University Göttingen
	Efficiency and Productivity Analysis	
Room 1.15	<i>The effect of biodiversity on Hungarian farm productivity</i>	Zoltan Bakucs, KRTK

Chair: Frederic Ang	<i>Smartphone use and environmental efficiency of maize production in China: Correcting for selectivity bias</i>	Gaofei Yang, Technical University of Munich TUM
	<i>Technical Efficiency in Organic and Conventional Wheat Farms: Evidence from a Primary Survey from Two Districts of Ganga River Basin, India</i>	S.P. Singh, Indian Institute of Technology (IIT), Roorkee
Rural Economy		
Room 1.03 Chair: Hervé Dakpo	<i>Competing effects of international migration on agricultural commercialization: Evidence from Kyrgyzstan</i>	Barchynai Kimsanova, IAMO
	<i>Rurality Forcing the Lights on: Is this worth it?</i>	Toyin Ajibade, University of Ilorin, Nigeria
	<i>Does agriculture matter to rural economies? Evidence from agricultural multipliers in the EU</i>	Hyejin Lee, LICOS
Farm Management I		
Room 1.04 Chair: David Blandford	<i>Finding the value of novel feedstuffs in imperfect markets, taking lupinus albus as an example</i>	Michael Friedrich Tröster, Landwirtschaftliche Lehnanstalten Triesdorf
	<i>Development and application of a whole farm bio-economic model for Northern Ireland dairy systems</i>	Austen Ashfield, AFBI
	<i>Challenges and Opportunities of Long-Term Land Leasing in Northern Ireland: A Stakeholder Perspective</i>	Ronan McCarry, AFBI
15:00- 16:30	Symposium: 'What Should We Teach in Agricultural, Food and Resource Economics?' – Led by Dr Carmen Hubbard (Newcastle University) and Dr Christina Sietou (University of Nottingham)	
16:30- 17:00	Workshop 1: 'AGRIMODELS Cluster: State of Play Regarding Modelling of Individual Decision Making' – Led by Dr Marc Müller (Wageningen Economic Research). Speakers Include Prof. Filippo Arfini and Ms Lisa Baldi (University of Parma), Dr Alena Schmidt (University of Basel), and Dr Marc Müller (Wageningen Economic Research)	
17:00- 18:00	Tea and Coffee	
17:00- 18:00	Discussion Papers Session 2 / Contributed Papers Session 4	
Room 0.12 Chair: David Stead	<i>Do flexible biofuel mandates have the ability to mitigate price spikes? Modelling potential biofuel production reductions in the context of the recent invasion of Ukraine</i>	Richard Dyer, Defra
	<i>Innovating to deliver multiple goals for upland farming in England</i>	Janet Dwyer, University of Gloucestershire
Room 0.14 Chair: Trevor Donnellan	<i>Cost Benefit Analysis of a Catchment Management Scheme using the Avoided Cost Method</i>	Catherine Glass, AFBI
	<i>Assessing the value of organic fertilisers</i>	Michael Friedrich Tröster, Landwirtschaftliche Lehnanstalten Triesdorf
Room 1.13 Chair: Paul Caskie	<i>Gendered impact of agricultural shocks on the farm and non-farm sectors of the rural economy of Nigeria</i>	Okiemua Okoror, University of Reading
	<i>Examining the Relationship Between Women, Minority Farmers, and</i>	Ana Claudia Sant'Anna, West Virginia University

	<i>Diversity in the Leadership of Farm Credit Institutions</i>	
Room 1.15 Chair: Insa Thiermann	<i>Is weather crop insurance a forced mitigation strategy against climate change?</i>	Pawan Kumar Sharma, Sher-e-Kashmir University of Agricultural Sciences & Technology of Jammu (J&K), India
	<i>Knowledge gaps of extension advisory service (EAS) providers on nutrition-sensitive agriculture (NSA): Insights from the application of a standardized instrument in India</i>	Shirisha Junuthula, National Institute of Agricultural Extension Management
Farm Management II		
Room 1.03 Chair: Diogo Souza Monteiro	<i>Adoption of farm management practices and its impact on crop productivity in Central Asia: an analysis accounting for unobserved heterogeneity and self-selection bias.</i>	Mukhayyo Djuraeva, IAMO
	<i>Sustainable livestock intensification and well-being in rural Brazil</i>	Jacqueline Tereza da Silva, Global Academy of Agriculture and Food Systems, University of Edinburgh
19:00	Reception followed by AES Annual Conference Dinner in the Chancellors Suite at 19:30 with after-dinner speakers Dr Katharine Hassapoyannes and Emeritus Professor David Blandford (Penn State University).	

Wednesday 29th March, AES Conference Day 3

09:15-10:45	Workshop 2: 'Writing Skills for Agricultural Economists' Led by Dr Steve Wiggins (Overseas Development Institute) Masterclass on Nonparametric Production Analysis Led by Dr Hervé Dakpo (INRAE)	
10:45-11:15	Tea and Coffee	
11:15-12:30	Contributed Papers Session 5	
	Farm Management III	
Room 0.12 Chair: Janet Dwyer	<i>An exploration of the labour and environmental efficiency of Scottish cattle and sheep farms</i>	Luiza Toma, SRUC
	<i>Plant diversity to cope with increased drought risk in grasslands</i>	Nicolas Alou, ETH Zurich
	<i>How can the design of Decision Support Tools for different agricultural stakeholders be improved?</i>	Dimitrios Iakovidis, University of Reading
	Sustainable Agriculture III	
Room 0.14 Chair: Steve Ramsden	<i>Spatially Coordinated Conservation Auctions: A Framed Field Experiment Focusing on Farmland Wildlife Conservation in China</i>	Zhaoyang Liu, University of Cambridge
	<i>Geographic networks matter for pro-environmental waste disposal behaviors in Rural China: Bayesian estimation of a spatial probit model</i>	Xiaojie Wen, Technical University of Munich
	<i>Hydroeconomic Modelling for irrigated Agriculture Water Use in the Riviersonderend-Berg River Basin, South Africa</i>	Ifedotun Aina, School of Economics, University of Cape Town
	Rural Development II	
Room 1.13 Chair: Steve Wiggins	<i>Dynamic agricultural supply response under agricultural transformation agenda in Nigeria</i>	Christianah Ojo Obafemi, Awolowo University
	<i>Technical advisors and technical inspectors for the development of organic agriculture: professional profiles and job issues</i>	Roberta Milardo, University of Bologna
	Preference Elicitation	
Room 1.15 Chair: Nick Hanley	<i>Improving migrant seasonal workers living and working conditions– Assessing Farmers' and Consumers' preferences using a common elicitation format</i>	Insa Thiermann, Wageningen University
	<i>Quantifying farmers' preferences for antimicrobial use for livestock diseases in northern Tanzania</i>	Mary Nthambi, University of Glasgow
	<i>Towards sustainable e-grocery delivery: investigating consumer's preferences in an Italian region</i>	Francesca Di Stradis, University of Trento
12.30-12:40	Plenary Concluding Session in the Lecture Theatre	
12:40-13:40	Lunch and Depart, 2nd Executive Committee Meeting	

Posters

First name	Last name	Paper Title
Wisdom	Dogbe	Could foods high in fat, sugar and salt (HFSS) taxes improve climate health and nutrition?
Wisdom	Dogbe	A resilience analysis of the contraction of the accommodation and food service on the Scottish food industry
Wisdom	Dogbe	The Cause and Effect of the Nutrition Transition in Nigeria: Analysis of the Value of Indigenous Knowledge & Traditional Foods in Enugu State, Igboland
Oluwaseyi	Efuntoye	Climate change adaptation through weather index insurance scheme: Insights from agricultural crop production in South Africa
Imre	Ferto	Explaining gender differences in adoption and intensity of agri-environmental scheme: A Hungarian-Slovenian comparison
Kieran	Fowler	Assessing the “Heat or Eat” dilemma across the non-linked Outer Isles of Orkney
Cecilia	Larsson	Cost-effectiveness of economic policy for agricultural bioenergy.
Jason	Loughrey	The Stable Farm Income Distribution in Ireland
Hristina	Manolova	Business Development Group Facilitator Survey
Michele	McCormack	Factors influencing farmers’ openness to adopt effective mitigation measures to abate diffuse pollution and improve water quality
Katsushi	Mizuno	Empirical Analysis of the lumber/wood products industry and forestry in Japan
Oluwakemi	Oduntan	Factors Influencing Adoption of Climate Smart Agricultural Practices among Maize Farmers in Ondo State, Nigeria
Oluwaseyi	Olasoji	Determinants of Agricultural Land Abandonment in Periurban Cities in Nigeria
Silvia Garcia	Ortiz	Generational Renewal in farming - an Irish perspective
Emmanuel	Peter	Modelling risk and constraints among smallholder farmers in North-East region of Nigeria
Xiuhao	Quan	The adoption of unmanned aerial vehicles (UAVs) in China’s agriculture: insights from expert interviews
Cesar	Revoredo Giha	Consumer Demand for Potatoes in Scotland during COVID-19
Anna	Schmid	Spring frost and drought risk for perennial crops under changing climate conditions
Franziska	Straubinger	Producer willingness to pay for biological pest control under infestation across Europe
Hoang Tien	Vo	Socio-economic or environmental benefits from pondscape? Deriving stakeholder preferences using analytic hierarchy process and compositional analysis
Guimin	Yao	Asymmetric impacts of macroeconomic and oil price shocks on Chinese renewable energy industry