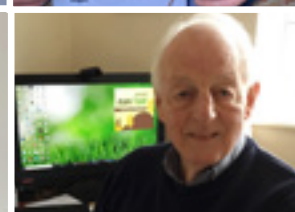
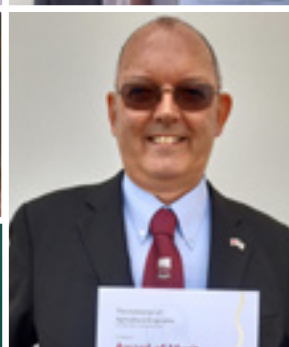
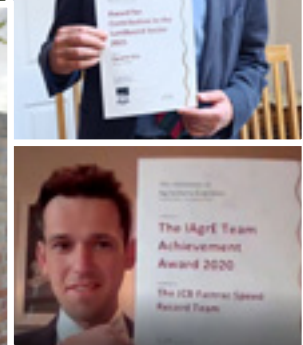
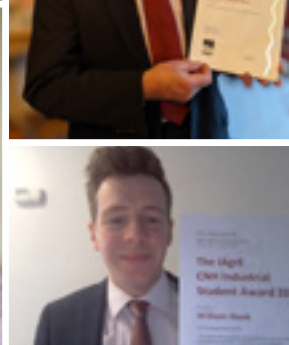
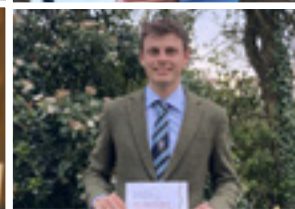
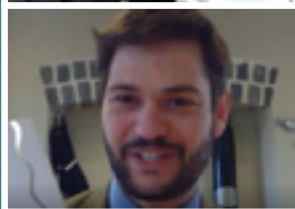
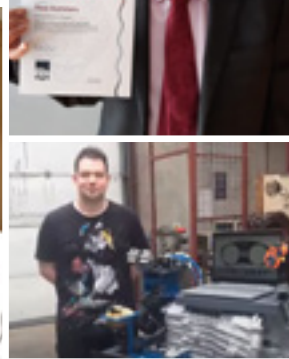
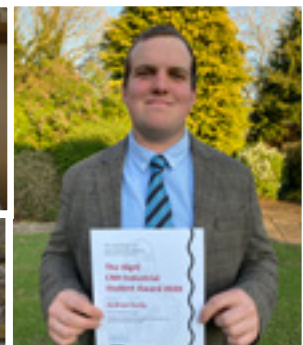


Awards Extra

@IAgrE

Summer 2021



AWARDS

Landwards
Conference
2021

FUTURE FUELS



We are delighted to announce that the IAgrE will host an annual conference this year. The topic will be the alternatives to existing carbon-based fuels, with expert speakers looking at the options currently available and on the horizon.

With a series of lunchtime presentations in October culminating in live discussion with the speakers on **Wednesday 3rd November**.

Further details will be shared as plans progress.

• www.iagre.org • secretary@iagre.org • 01234 750876



President's Introduction:

As President of the IAgRE I am delighted to introduce this special publication marking the achievements of a number of our members and others who have been deemed by the Institution to have achieved or contributed at a high level within our industry or the IAgRE itself.

The past 18 months have been most challenging for all of us as we have been forced to work in very different ways whilst under constraints caused by the Covid-19 virus. Against this background it is particularly impressive that individuals or teams have not only overcome the challenges and survived; but have actually achieved success of one sort or another.

In view of the fact that we made two sets of awards on the same evening we have decided to produce this Special Edition publication recognising the award winners in full and sharing the full citations for each of them.

In the wake of the Awards Presentation evening, I have been most impressed with the exposure that these awards have gained and the obvious pride that the recipients hold in having received them. My congratulations go out to each and every one of them.

Paul Hemingway
IAgRE President 2020-22

The Awards Extra is published on behalf of the IAgRE by FarmSmart Publishing Limited.

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Douglas Bomford Paper Award

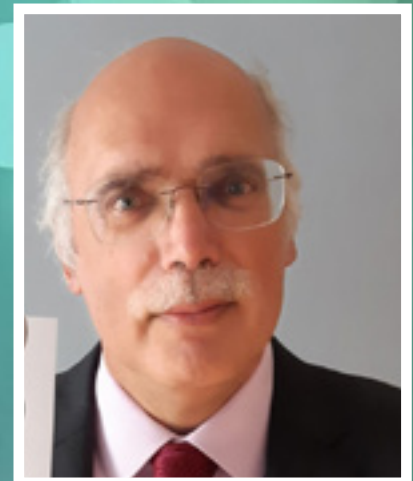
The Award is offered to the author, or authors, of a paper which, in the previous calendar year, was published in full in the Institution journals *Landwards* and/or *Biosystems Engineering*.

At least one of the authors must be a member of the Institution.

The 2019 Award

Dr Theo Demmers

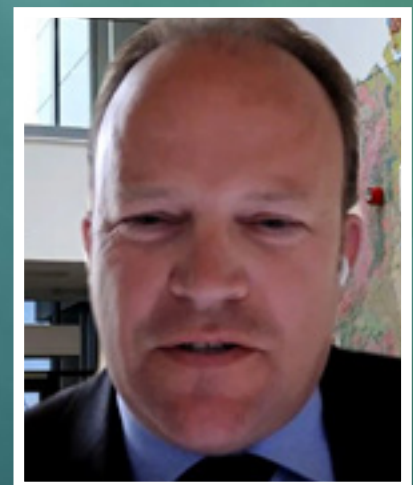
For his paper entitled 'Real-time modelling of indoor particulate matter concentration in poultry houses using broiler activity and ventilation rate'. On receipt of the award, Dr Demmers said 'It was an honour to receive this award and a big thank you goes to my co-authors especially and thanks to the EU programme that enabled us to write this programme'.



The 2020 Award

Professor Leon Terry

Who co-authored a paper in *Biosystems* entitled 'Non-destructive discrimination of avocado fruit ripeness using laser Doppler vibrometry'. Leon said 'It is a great honour to receive this award. Sandra did most of the hard work and I just pestered her to get things right. This is probably the only time a paper about avocados has received such an award. I might be wrong but anyway I am delighted to receive this award and thank you very much'.



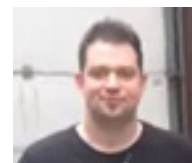
Student Award

The CNH Industrial Award

Made on the basis of a dissertation or thesis undertaken by an undergraduate or postgraduate student as part of their studies demonstrating innovation and practical application in the landbased industry.

The 2019 CNH Award - *John Kinsella and Robert Langan from the Institute of Technology, Tralee*

For their project 'Automated gear selector to enable persons with disabilities to use H pattern manual transmissions on self-propelled farm machines' John accepted the award.



The 2020 CNH undergraduate Award - *Andrew Hardy from Harper Adams University*

For his project to 'Develop a compact excavator attachment for lifting trees out of the ground with a root ball'.



The 2020 CNH post graduate Award - *William Hook from Harper Adams University*

For his thesis 'The design and evaluation of seed dispersal units to increase seed placement accuracy on a precision seed drill using EDEM software' On receipt, William said: 'Hopefully there will be more research into simulation software. I would like to thank Harper Adams for letting me conduct this research'.



Student Project Award

This award is given to the best final year project submitted as part of a course leading to ND, NVQ Level 3, or similar qualification in land-based engineering.

The 2019 Student Project Award - *Joshua Yelland from Bicton College**

For his project a 'Casualty Animal Quad Bike trailer'.

Sadly, due to the pandemic there have not been any entries/projects for 2020.

IAgrE Safety Award

This award has been established to encourage and recognise innovation in safe design or operation of equipment or processes by students studying agricultural engineering or subjects related to the application of engineering and technology to the land-based sector.

The 2019 Safety Award - *Dafydd Eynon from Coleg Sirgar**

For a 'Tine guard adaptation for a Buckrake'.

The 2020 Safety Award - *Huw Gilchrist from Harper Adams University*

For the 'Design and development of a safe load indicator for a tractor and front-end loader'.



*Unable to attend

"I am delighted to be awarded the IAgrE Student Safety Award. It is a real privilege and a great way to end my time at Harper Adams. It is nice to be recognised for the time and effort I put into the project and its potential to be developed further to improve farm safety.

"I'd like to add a massive thank you to the engineering course team that made it all possible, especially Tom Underhill and David White and Tom for helping with the technical elements and supervising the project." *Huw Gilchrist*

Branch Meritorious Service Awards

Made to members who have consistently rendered outstanding service to their branch of the Institution or a technical group over a number of years.

Branch Meritorious Award for 2020 - Mike Stephenson

Mike has served on the South East Midlands Branch committee since 2004. During that time, he has made a considerable contribution to the running of the Branch. Other than for a short period of ill-health, he attended every committee meeting and contributed to the organisation of many technical meetings and visits. Some notable events were a demonstration of amenity equipment, insights into the National Sprayer Testing Scheme and a well-attended visit to Perkins Engines. Mike has also attended pretty much every technical meeting, both before and after he joined the committee, and has provided a positive presence on every occasion. He has also contributed to the judging of student presentations on their research work at the Branch AGMs. Overall, Mike has been one of the most valuable members of the committee and we are very pleased to present this award to him.



“It is an honour to receive this award and it’s been a great pleasure working with the SEM branch. There has been good participation and I’ve really enjoyed it – thank you.”

Branch Meritorious Award for 2021 - Richard Trevarthen

Richard, who is a Fellow of IAgRE, has been a recipient of this award before, which was for recognition of his work in developing young engineers. The receiving of Richard’s 2nd meritorious award is for his work as Chairman, and also for many years, the temporary secretary of the East Mids branch of IAgRE. Richard’s dedication and drive, all done with his characteristic good humour, has delivered a strong programme of well attended events in recent years. New attendees are always welcomed, and this has been reflected by first timers now becoming regulars. Richard has brought new blood onto the committee and forged good links to industry. His approach to organisation and people skills are recognised by our speakers and meeting hosts who take interest in our activities. We are delighted that Richard once again receives this award in recognition of his contribution and achievements in maintaining a strong and healthy branch.



“It is a great honour to receive this award again. I would like to thank all those who voted for me. I have to say to be fair in the EMB I consider myself extremely fortunate in that I’ve got with me a wonderful and enthusiastic committee and they do a big job in making my job a lot easier and like everyone else we can’t wait for the new season to start and hope and pray we’ll be back to whatever normal is.

I know I shouldn’t say this but I’m going to. I am very honoured to receive this award called a meritorious award and I would like to think that from my small part in the EMB what award does our illustrious secretariat? get. They have done a fantastic job as always.”



Branch Meritorious Award for 2021 - Mike Whiting

We think it's really important that we simply acknowledge those who are making a continuous and relevant contribution to the success of our programme. As we all know, our Institution can only engage with its members when it provides relevant and interesting information. We believe that the Western Branch is very fortunate to have Mike ensuring that the standard is maintained. Mike is a champion of CPD and we need our younger members to build records, not only for their progression in their careers, but to help our Institution maintain its academic standing. Mike keeps the committee on its toes as well as ensuring that contact is maintained with other branch members. We are delighted that Mike receives this award in recognition of his sustained contribution in preserving the future of our Institution at both Branch and National level.

"Thank you very much. Thank you to the membership for organising the on-line awards. As usual it's all Andy Newbold's fault he said one day why don't you go along to the Western branch and I suppose it seemed like a good idea at the time. My role as secretary is about those emails that remind people to come along but someone else puts the ideas together the likes of Richard Robinson, Rupert, Nick Handy and the rest of the guys that pull rabbits out of hats and find somewhere for us to visit etc. There are challenges ahead to find places to visit that we haven't been to before but I'm sure with a bit of head scratching and a meeting with a bit of liquid refreshment we will come up with some wonderful ideas."

Professor Jane Rickson wins a 2021 Top 50 Women in Engineering Award

IAgrE Fellow Jane Rickson, Professor of Soil Erosion and Conservation at Cranfield Soil and Agrifood Institute, Cranfield University, has been honoured with a Top 50 Women in Engineering Award from the Women's Engineering Society.

Jane's work uses engineering principles to understand the environment around us and works with land-based industries to develop and apply in-field practices for environmental protection.

Throughout her career, Jane has been an inspiration to soil scientists and land-based engineers across the world. She was key in Cranfield being awarded the prestigious Queen's

Anniversary Prize in 2017 for research and education in large-scale soil and environmental data for the sustainable use of natural resources in the UK and worldwide.

Jane was the first female President in the Institution of Agricultural Engineers 80-year history. She is mentor for other women, especially young female researchers, and engages in outreach activities that encourage girls to take up science, technology, engineering, and maths (STEM) through her links with local primary schools and media work.

Professor Rickson said, "I am absolutely delighted to have been awarded this accolade.



I hope I can show by example that engineering is an exciting and rewarding career for young people. We need to continue to break the often-stereotypical image of 'the engineer', so that the profession is seen to be much more inclusive, diverse and welcoming to anyone with an interest in designing, building, testing, and improving the world around us."

Team Achievement Awards



This was awarded in recognition of successful teamwork and demonstrates what can be achieved through collaboration.

Team Achievement Award for 2020 - JCBs 'World's Fastest Tractor' Team

JCB has been manufacturing the Fastrac for over 30 years, and it remains the world's fastest draft tractor. Over the years JCB has amassed significant expertise in engineering this type of machine, pioneering the use of suspension and ABS braking. Tractor speed record attempts have been made for many years, and with JCB already holding the land speed record for a diesel car using their own engine back in 2006, it was a natural move to challenge the tractor record too. To do this they took a small number of young graduate and apprentice engineers away from their day jobs and gave them a focussed challenge; to break the current record, and, to record

a maximum speed of >150mph. The average age of the team was around 26 years old, and they drew in expertise from around the various engineering teams as they needed it. The execution of the project has been well documented and with Guy Martin at the wheel, it brought another level of exposure. The outcome of the project was of course successful, and the young team involved will have experienced a once in a lifetime intensive period of learning, which will serve them well throughout their careers. They are very worthy winners of the IAgRE Team Award and project manager Alex Skittery received the award on their behalf.

“Thank you very much. I am here representing the JCB Fastest Tractor team tonight and you know it really was a team effort. As Charlie said it was a small team, a really young team but really committed and having that real determination to achieve that goal of getting the world's fastest tractor record. Thank you also to the support of IAgRE. Some of the team are members of IAgRE and I hope the project will help encourage more young engineers to get into agricultural engineering.”





Team Achievement Award 2021 - Claas UK

Founded in 1949 Claas UK has recently celebrated 70 years trading. With a core specialism in performance harvesting equipment, the depth of expertise and execution within the Claas Group has enabled their products to be world class. The acquisition of Renault Tractors has subsequently established Claas as a 'full line' agricultural machinery manufacturer. Whilst Claas UK is the UK Sales and Marketing subsidiary for the Claas Group they have nonetheless fully engaged with agricultural engineering education in the UK, both with colleges and other organisations for teaching and demonstration purposes. They have supported graduate training for students at for example, Harper

Adams University with student placements in the UK and at their headquarters in Germany. Claas UK have also been committed to service technician education through contribution to the Land-based Engineering Education and Training Committee. The current Claas UK Training Manager chairs the LE-TEC working group developing the apprenticeship standards going forward. Their contribution to the industry both in terms of the products offered and engagement in Agricultural Engineering education at all levels is greatly appreciated. Claas UK are very worthy recipients of the IAgRE Team Award and the CEO of Claas UK Trevor Tyrrell received the award on their behalf.

"I am very proud to receive the award this evening. Helmut Claas who unfortunately passed away this year was once asked what is the secret of your success, his answer was clear and unpretentious: "There is no secret, just good ideas and motivated people" and this sums up perfectly the team behind this award.

"It is mainly our Academy training team, HR team and management team who have done sterling work over these 20 years to develop our links with Harper Adams and colleges to develop our apprenticeship programme. So they deserve all the credit and I'll certainly be passing that on and in the future its not stopping here because I am pleased to advise that we have decided to invest in our own training academy for apprentices and are bringing out an apprentice programme in-house so we can develop it further. The first young people hopefully will be joining us from October this year to start their four year apprenticeship scheme. I am sure this award will give us extra motivation to push on and do a good job of implementing it."

The President's Award

(formerly the Michael Dwyer Memorial Prize) - The prize is to a mid-career engineer who has made outstanding progress in the agricultural engineering industry.

Presidents Award 2021 - *Kit Franklin*



Kit studied an MEng in Agricultural Engineering at Harper Adams. Following graduation Kit returned to Harper Adams, first as a Research Assistant and later as Senior Lecturer in Agricultural Engineering.

From a farming background, Kit pursued his interest in autonomous vehicles for agriculture. He obtained some limited funding and put together a small research team, and the 'Hands Free Hectare' project was born. Under his leadership. In a small space of time the ground-breaking project proved the concept of growing and harvesting a hectare of barley using only autonomous vehicles.

The publicity created for Harper Adams and the team, and also for the UK Agricultural Engineering industry is truly extraordinary. It gained exposure through the press, television and social media.

Further funding has allowed the team to up-scale the project to a small-sized farm. Kit's ability to drive the project forward and present the work to people of all levels, especially outside the industry make him an exceptional ambassador for the Agricultural Engineering profession. To have achieved this during the early stages of his career makes him a worthy recipient of this year's President's Award.

"I was surprised and honoured to be recognised and receive the President's Award, which has previously been awarded to some very prominent members of the Institution and the Agricultural Engineering sector.

"After the challenges of lockdowns over the past year, the consortium has made great technical developments on the Hands-Free Farm, which has enabled us to establish 30ha of crops for harvest 2021.

"Harvest will be challenging for both the technology and logistics - after which winter crop establishment drilling will use two tractors and drills working together to increase work rates.

"Thank you I don't feel deserving of some of the superlatives. As ever thank you to colleagues and members of IAgRE. The IAgRE is a very vibrant part of my career, all the things I am involved with – makes my career more interesting."

The contribution to the land-based sector Award

This award is made to IAgRE members who have made sustained contributions to the land-based sector throughout their career.

The first contribution to the land-based sector Award 2020 - Chris Biddle

Chris's work as editor of Landwards for 12 years represents distinguished service from a distinguished person, who is also a Fellow of our Institution. Without his efforts to take Landwards forward and respond to feedback and the needs of members, IAgRE would be a poorer institution. Editing Landwards is a challenging role, it demands a keen eye on the shifting sands of the Agricultural Engineering and allied industries. Chris was always keen to keep Landwards ahead of the curve and continually pushed the boundaries and embraced new ideas

and content. The IAgRE's association with Chris has been highly beneficial and opened doors to new people and new themes. His work has very much enhanced the reputation of the Institution. Since his official retirement Chris has carried on his journalistic work and as well as writing articles, he has developed a series of podcasts interviewing key people within our industry. All of this represents outstanding service from a true gentleman, and it is only right to acknowledge his contribution to the land-based engineering sector with this award.



“Well thank you very much. I have to say its strange to be at an awards ceremony without my camera this time. When I took on the post in 2009 initially, I was out of my comfort zone for in addition to tractors and mowers I had to get up to speed on a much broader canvas. The membership at large were always highly supportive and I give them a huge vote of thanks.

“But I have to name names. A huge thanks to the CEO's during my time. Chris Whetnall of course and Alastair Taylor. I think one or two others did come and go but fleetingly. I enjoyed a very positive and fruitful relationship with Chris and Alastair. I was always aware of being part of a small but effective team. And the Presidents during my tenure at the helm. Initially Richard Robinson a fellow moonraker who gave me terrific support in my early days. This was continued by his successors, Peter Leech, Andy Newbold and my congratulations to Andy for the quality and content of Landwards and who would have known the circumstances prevailing when he took over the role?

“To Mark Kibblewhite, Rob Merrall – I think I'm still waiting for your President's report Rob, and of course Jane Rickson.

“And finally, of course to the dream team at HQ. Initially, Sylvia and Elizabeth and today Sarah, Ali and Marion. Sorry if I've missed out anybody. You provided me with a level of support that any editor or journalist could only dream of, so a huge thank you.

“My time at the helm of Landwards has been a real stand-out and memorable period. With 60 years working in this wonderful industry and apart from anything else I've learnt a hell of a lot. Thank you, Mr President, and thank you to everyone at IAgRE.”

The contribution to the land-based sector Award

The second contribution to the land-based sector Award 2020 - David Kirschner



David started his career as an apprentice agricultural engineer servicing Massey Ferguson tractors and machinery before moving into technical training with Renault Agriculture, and then later with Claas. His passion for developing the next generation of technicians and service engineers knew no bounds. After his retirement from frontline training, David moved on to advise the Land-based industry on how to improve recruitment, quality and retention of technicians and service engineers. David's achievements since his 'so-called' retirement are impressive: He worked with the AEA, BAGMA and IAgRE, plus a number

of farm machinery manufacturers to establish the Land-based Training Accreditation Scheme. He's led the development of apprenticeship standards for the Service Engineer and Engineering Technician. He's represented the industry in setting up the standards and content of the emerging 'T-Level' qualifications. David is hugely respected for his knowledge and passion for the industry. He is one of the most reliable advocates of the land-based engineering industry and his contribution to it is exceptional, and very worthy of this award.

"Thank you for the kind words and thank you to the 'peoples' of the IAgRE.

"In the words of the late great Spike Milligan, and I am sure I am talking to the people who actually remember his era, in response to his lifetime achievement award he said about bloody time, and then he followed that by saying I'm not going to thank anybody I did it all by myself. That reflects my sense of humour, but it doesn't reflect my views!

"I have to say that land-based engineering has actually given me more personally than I've actually contributed to land-based engineering. It's given me an amazing career, I've met some fantastic people and I count them as friends, in fact family.

"So, it's why I do what I do. The industry has been extremely good to me. Within the industry everybody is too busy to have the time to deal with what is actually needed. It is a privilege and an honour to receive this award but it's so much more than that it's like receiving a hug from the family and we all know after this past year of Covid-19 how important that is.

"My sincere thanks to the Institution and I hope you notice Chris, I did call it the Institution and not the Institute. The award will take pride of place on my office wall I would also, just as a final note, say that after 55 years in industry, I note that this actually signifies the end of my apprenticeship and I now hope to go onto the improvers stage. So, thank you one and all, its really much appreciated."

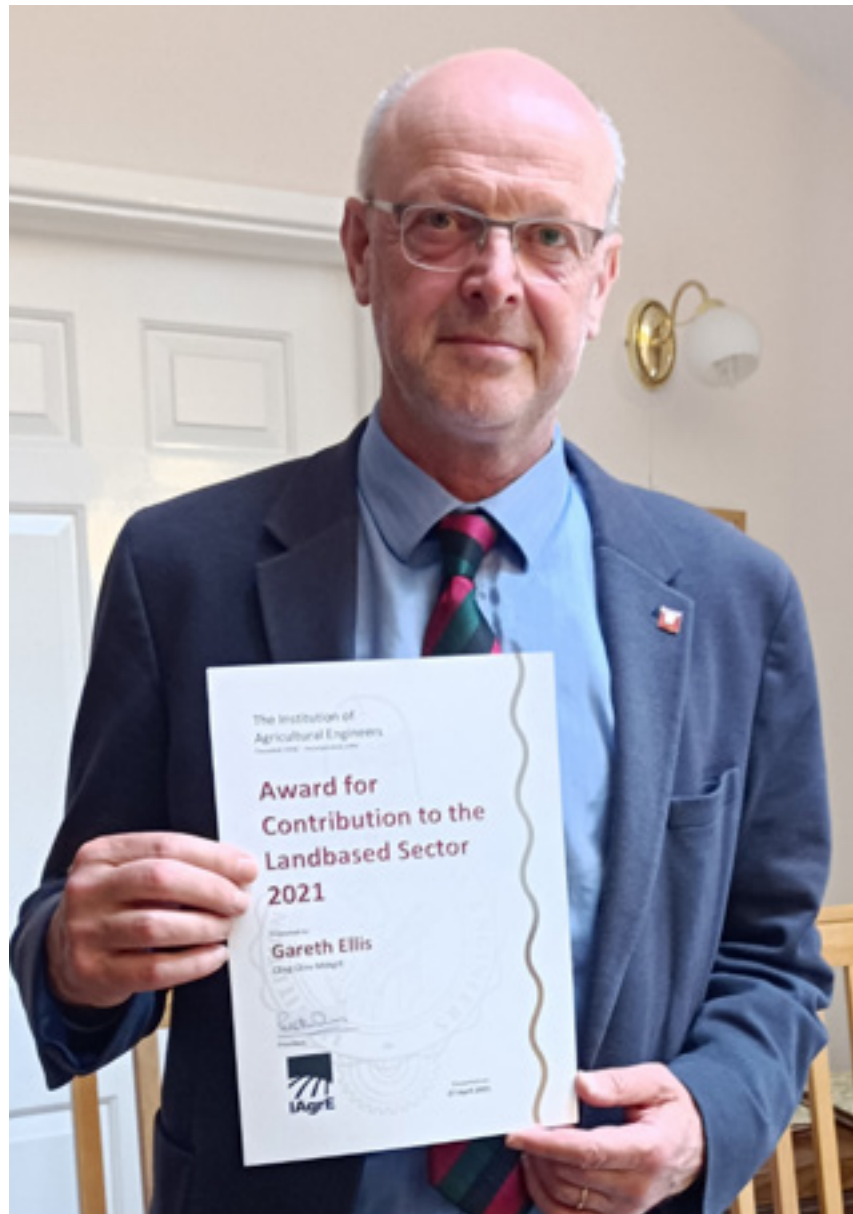
The contribution to the land-based sector Award

The contribution to the land-based sector Award 2021 - Gareth Ellis

Armed with his BSc in Agricultural Engineering from Cranfield University, Gareth began his career as a mechanisation adviser with ADAS. Through his work with glasshouses, he began to specialise in energy and became the national renewable energy specialist in 1991. In 1995 he moved to the National Energy Foundation, developing and promoting renewable energy to communities and schools. Gareth returned to Cranfield in 2008 and has developed and driven forward the university's environmental agenda with challenging targets. Gareth's commitment to improving the university's environmental standards, driving down energy use and waste, whilst increasing renewables and recycling, is recognised and supported at the highest level within the university. Some of Gareth's many notable achievements are:

- 50% reduction in carbon emissions compared with 2005
- Nearly a ten-fold increase in conservation area to over 90,000m²
- 4 awards in 4 years from the Wildlife Trust
- Installation of a solar farm, a biomass boiler and a combined heat and power plant
- ...and gained ISO14001 and 50001 along the journey.

Outside of work Gareth continues to drive the green agenda with a host of initiatives in his local area. He is the embodiment of a chartered environmentalist, working and living according to sustainable principles. A very deserving recipient of this award.



“I would like to thank everyone that has organised this event. It’s amazing to receive this award and in the current circumstances it’s a real pick-me-up. I can tell you it’s a big event in this household as you might have guessed the family are here my wife and the cat. It is very gratifying to have this award. I’m just very grateful thank you very much.”

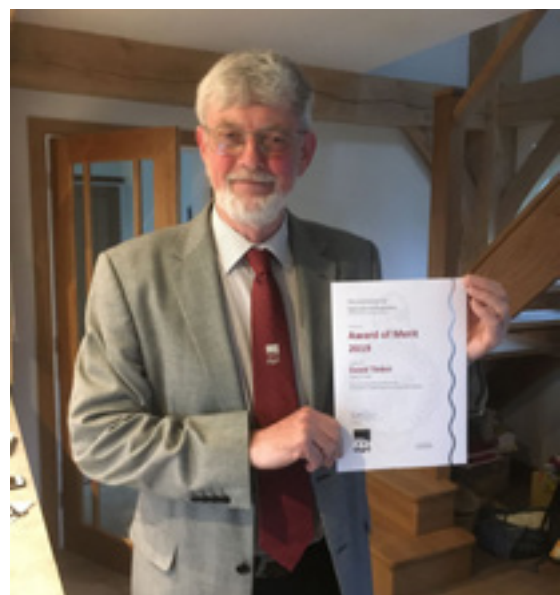
Awards of Merit

These awards are made to a person distinguished by their work in agricultural science or engineering or one who has rendered outstanding service to the Institution. We are delighted to be making a number of these awards.

Award of merit 2019 - David Tinker

Dave has undertaken a broad range of tasks in agricultural engineering. His career started in 1978 at Silsoe Research Institute where he was involved with overseas work on tillage and traction in Latin America and the Middle East. On returning to the UK, he developed his career in bioengineering, working in the livestock industry and the engineering involved in abattoirs. In 2006 he set up his own business with the remit of providing secretariat services for the European Society of Agricultural Engineers and EU funded agricultural engineering projects. Dave also managed the European Network for Advanced Engineering in Agriculture and

Environment and was also Secretary General of this and EurAgEng. Through his business Dave also provides R&D input into an array of diverse projects across the industry, from controlled traffic farming to carcass hygiene. He's also teamed up with other businesses in the past to provide smart farming technology workshops in the east of England. Overall, Dave has had a significant impact on a wide range of agricultural engineering disciplines, engaging with broad audiences across Europe to promote innovation in research and development. Dave is a very worthy recipient of this award.



“It’s certainly an honour to receive this although I have to say I do not feel as though I deserve to be on the podium sufficiently to receive the award of merit from the IAgrE.

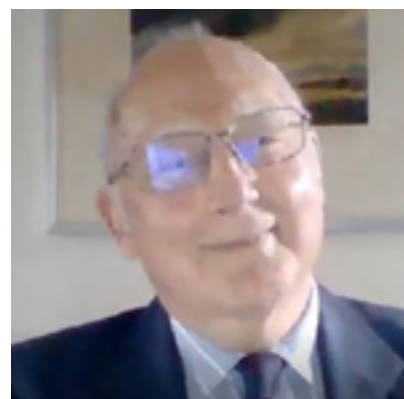
“It’s not just for me but for the team, from the IAgrE side such as Mike Hirst the previous secretary with support from Chris Whetnall and Bill Day who was President when I first took on the role as well as the Secretariat doing all the background work. But particularly it goes to the President’s, executives, EurAgEng for being such a fine, friendly and lively lot and enjoying their conferences around Europe and the Land Technik conference at Agritechnica in Hanover, so thank you all. But there is one person, my assistant who is just out of sight, that’s Nicky that not only organises me but organises an awful lot for EurAgEng.”

Awards of Merit

Award of merit 2020 - Dr Bob Evans

Bob is a national authority of the highest calibre, his research on soil erosion and control has made a major impact on applied soil science, conservation and land management practices. His database on erosion and deposition rates remains the most extensive evidence of this in the UK. Bob began his career in 1968 with the Soil Survey of England and Wales. In 1971 he wrote a significant paper which initiated UK research on accelerated soil erosion, and over the next decade he accumulated unprecedented evidence supporting this. In the mid-80s he ran the national scheme to assess and monitor water erosion in England and Wales. On leaving the Soil Survey in 86, Bob has remained a very active researcher and consultant, he's worked for organisations such as MAFF, DEFRA,

the Environment Agency, Natural England, to name a few. In 1988 Bob became a Research Associate at Cambridge University, and later a Visiting Fellow at the Anglia Ruskin University. Bob is an active member of IAgrE, supporting both local and national events. He makes valuable contributions to meetings and conferences and is always willing to support young and new members. Bob has had a distinguished career in agricultural engineering with outstanding service to IAgrE. His significant contribution over a 50-year career is an exemplar of how agricultural engineering research advances knowledge and understanding, and influences farming practice and Government policy. Dr Evans is a worthy recipient of this award.



Awards of Merit

Award of Merit 2020 - Keith Hawken

Keith is a fellow of IAgRE and has had a distinguished career in agricultural engineering. Until recently was the Technical and Standards Director of the AEA. Keith became a Chartered Engineer in 2003 and continued to progress to Eur Ing status in 2008, which complimented his University study and experience working for the Bosch group. In 2016 he gained a doctorate through US Universities in Delaware in Mechanical Engineering. Keith has been chairman of

several British national standards committees involved with tractors and farm machinery, forestry machinery, outdoor power equipment, to name a few, as well as ISO Chairman for harvesting and conservation equipment since 2008 and forestry machinery since 2014. He has also been a stakeholder member of the EU machinery directive working group.

Keith is a long standing member of IAgRE whose association is of great



benefit to the Institution. He's been a loyal servant supporting new registrants, assessing those applying to become chartered and working hard to support membership development as part of the membership committee. This well-deserved Award of Merit celebrates Keith's achievements and contribution to the Agricultural Engineering industry and our profession.

"Thank you very much Charlie, Paul and before that obviously Chris and Alastair for all the work they had done and that great Secretariat Sarah, Alison and I have worked really closely with them.

"Thank you very much I am extremely honoured to accept this award. I am deeply appreciative so thank you. I've had a 48-year career albeit probably only 20 years that's been in the agricultural world. The rest of the time was in outdoor power but nevertheless I never imagined I'd be able to push together my qualifications with all the practical work I had. But IAgRE what a great place it is. It's one of the many families I'm involved with and it's a wonderful arena and very supportive. I really enjoy the branch meetings, the membership meetings and all those spin-offs.

"My apologies to Richard as I'm not going to be able to get to so many of the branch meetings, but I will be back in the UK and of course I'd love to come back to Lincolnshire and chat with him. I must say he really deserves his awards because those branch meetings are absolutely fantastic.

"I have been very lucky with my standards support portfolio. I have been able to travel the world and its been great for me to go and see so many different cultures and so many different agricultural engineering aspects and I've been able to hopefully enthral them a little bit working with ANSI and ASABE in the States. They are always asking about IAgRE, what are we doing so it's great to be able to champion that.

"Thank you very much indeed I am deeply honoured."

Awards of Merit

Award of Merit 2021 - Tim Burnhope

Tim joined JCB from Caterpillar and has since held several executive positions. These have included the Managing Director of both the Telehandler and the Backhoe Loader Businesses and Managing Director of JCB's Global Sales organisation.

For the past 6 years Tim has been the Chief Innovation Officer overseeing all product R&D activity globally for the JCB Group. In addition to the constant flow of new products to the global market each year, under Tim's leadership the teams have introduced several literally ground-breaking new products such as the Hydradig and new X Series excavators. And, as you've heard previously, JCB decided to smash the tractor speed record with their World's Fastest tractor. A significant first for Tim and the team happened last year when JCB introduced the world's first all-electric mini excavator, which has not only met with widespread interest from the customer base but significantly has earned the team the 2020 MacRobert Award from the Royal Academy of Engineering.

This award is the UK's most prestigious and longest running prize for engineering. In addition to being a fellow of IAgRE, Tim is also a Fellow of the Royal Academy of Engineering and is one of only 4 IAgRE members to currently hold this professional accolade. There is no question that Tim is an extremely worthy winner of this year's IAgRE Award of Merit.



“Thank you it’s a real honour and a surprise. We are a big team here. We have a fantastic engineering team with all levels of experience, and we all share one thing just to be so passionate for what’s new and what comes next.

“We all often talk about where we get the ideas from, I think it goes back to that many of us in agriculture share one common theme getting in the tractor cab for the first time and experiencing the excitement, working on tractors at weekends and holidays. All the time working on products you are trying to make them better.

“For me it’s the most exciting decade ahead of us for young engineers and moving towards other technologies.

“It’s probably the best time to be in engineering and I would really encourage anyone to get involved. I take my hat off to everyone that are developing modern apprenticeships.”

Honorary Fellowships

These fellowships are given to a person distinguished by their work in agricultural science or engineering, or a distinguished person whom the IAgRE wishes to honour for services rendered to the Institution.

Honorary Fellowship - *Malcolm Carr-West*

Malcolm has had a long association with IAgRE having joined nearly 50 yrs ago. During his career as a lecturer in Agricultural Engineering at Writtle College, Malcolm progressed his membership, first becoming Chartered and then achieving fellow in 2003. As a lecturer Malcolm has developed many graduates over the years and has an encyclopaedic knowledge of past students, which is handy when one of them is looking to join IAgRE. His past students hold him in high regard and enjoyed their time and benefitted from his wealth of knowledge of the profession. Malcolm's contribution to IAgRE and the wider engineering profession is exceptional. He's been an active member of the

Membership Committee for many years, becoming chair in 2016. He manages the meetings with a real passion for the discipline, he has high standards but is also pragmatic in his approach. Despite retiring many years ago, Malcolm continues to give back to the industry. In addition to his membership activities, he's on the Professional Development Committee and gets involved in university degree accreditations. Malcolm's also undertaken a number of roles with the Engineering Council, such as Quality Assurance and Liaison Officer with other engineering institutions. These of course are very useful to IAgRE as we're amongst the first to hear about new developments. Malcolm



puts in an immense amount of work behind the scenes for IAgRE. The IAgRE secretariat are delighted that Malcolm has been nominated for this Honorary Fellowship, he's an asset to the Institution and we look forward to continuing working with him.

"I am completely blown away by being an honorary fellow and really feel it is something that I do not deserve. Partly because of the amazing support I get from the headquarters staff and also the membership committee. It means I am able to do a job very easily and being a lazy person, without too much effort because of the support and effort made by those people. I think many people are unaware and do not realise the influence that the Institution has on our careers. Indeed, I think that it was not until I was in my mid-career that I realised the influence that the Institution has on all of us. The Institution is a major influence on what we are taught and importantly we set the standards and content of many of the courses.

"As I progressed into the middle of my career, I began to realise it was a major resource for my professional development and the basis from which I was able to meet others in the profession. The ability to register as a professional engineer also meant that I was able to hold my own and the reputation of agricultural engineering amongst other engineers through different fields. So, they tended to say 'oh you must be a blacksmith' and then realised that actually we were much more.

"As a professional engineer it has been clear to me that I owe far more to the Institution than I can ever repay. So, thank you to the Institution for what has often been unrecognised support in the development of my career and in my life. I think we should all pay a great tribute to those whose shoulders we stand on who form the Institution of Agricultural Engineers and to those who run the Institution so efficiently.

"It is very clear to me that we belong to a very professional and competently run organisation so the headquarters staff should be feeling very proud of themselves about the way they run this Institution. So thank you very much I am absolutely amazed to be honoured in this way."

Honorary Fellowships

Honorary Fellowship - Alastair Taylor

Alastair's career in education and training began as a technician at Harper Adams in 1980, soon after he took up a teaching role at Reaseheath College where he stayed for many years. During that time Alastair gained his certificate in education, became an Incorporated Engineer and achieved a first-class honours degree in Professional Studies in Education.

Since leaving Reaseheath in 2000 Alastair has held a variety of senior positions in inspecting, maintaining and improving educational standards across the industry. Alastair went on to serve the IAgRE as its Chief Executive Officer for six years, and during that time he made significant contributions to the presentation, the reputation and the professional standing of the Institution. Alastair has strengthened and cemented the IAgRE's relationship with the various engineering bodies.

He has significantly raised the profile of the institution on many levels, whether it's working in collaboration with other organisations, or responding to Government consultations. He has very much professionalised a professional institution. Alastair engaged with people and organisations at all levels to promote the IAgRE and continually develop its benefits for members.

Since retirement in 2019, Alastair continues to support the Institution. He joined the Membership Committee, and his input and experience were integral to the successful completion of the Engineering Council licence reviews. Alastair has also taken on the role of Chief Assessor for the Society of the Environment last year and continues to be involved in a variety of educational committee roles. In summary, Alastair has made outstanding contributions to agricultural engineering and to the IAgRE, we are delighted to award this honorary fellowship to him.



“I began agricultural engineering when I went to college in 1976 and my association with the Institution started when the Head of Engineering at Caythorpe College, Bob Barber took us to Brooksby College, as it was then, to Institution meetings.

“When I think of myself, farmers son from a rural place in Lincolnshire and I think about the progress I made in my career in agricultural engineering be that teaching the subject, mechanisation and various things related to the subject and then moving on to look at the standards of it, I did some wonderful things and went to some wonderful places for example British Aerospace, the Euro Tunnel and the London Underground. The multi-disciplinary nature of agricultural engineering has been at the heart of it for me.

“When I consider being awarded an Honorary Fellowship I just think that is simply amazing. When I reflect upon the people who have had this award in the past and the status of those people. To be walking amongst those giants in our discipline is such a humbling feeling for me and such a privilege as well.

“It has been my privilege to have been associated with the Institution for 45 years and I think I am wise enough to know when you are an honorary fellow it's a job for life. The Institution can count on my support and my input for as long as I am able.

“Once an agricultural engineer always an agricultural engineer. It has been my privilege to be the Chief Executive of the Institution and to work with some wonderful people who have helped us to keep going onwards and upwards.

“So, thanks again to everyone who has supported me during the whole of my career and thanks to those people who put my name forward to be an honorary fellow. It means a huge amount to me and for that I am very, very grateful. Thank you everyone.”

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Dr Emma Wilcox

Chief Executive Officer of the Society for the Environment

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