

## Publications 2016

### Summary

This report contains all the outputs i.e., academic papers, conference presentations, book chapters, external talks and commercial reports published by academic staff over the 2016 calendar year.

The number of outputs in 2016 has remained similar to 2015 with 26 journal papers, 54 conference papers, 4 book chapters, 20 external talks and 4 reports for commercial companies. With reference to the 4 school structure that was in operation for the academic year 2016; Seven members of staff from SAFE have published 11 papers; four staff from RELM published 6 papers; three staff from SEMS published 6 papers and 2 staff from SBE published 3 papers.

The 54 conference papers were delivered by 24 members of staff and 7 staff delivered the 20 industry-linked presentations completing the 'external-facing' work of RAU staff.

Work from MSc and BSc students has contributed to several conference presentations, while many academic papers are the result of PhD work.

The numbers of papers across different subject areas are as follows: Animal = 10, Crop = 4, Agri business = 4, Urban = 1, Soil = 4 and Rural Land use and Sustainability = 3.

The RAU currently has 18 PhD students and 8 MScR students (Appendix 1). New registrations in 2016: 4 x PhD and 5 x MScR (University of Gloucester validated). There were 3 x PhDs (Coventry University) awarded in 2016.

Grants and commercial money in to support PG students in total = £261,060.

**Professor Meriel Moore-Colyer, Director of Research and Knowledge Exchange.  
February 2017**

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<b>1. Current PhD and MSc Research Degree Projects</b>	20 - 24

## Academic papers:

Burbi, S, **R.N. Baines J.S. Conway** (2016). Achieving successful farmer engagement on greenhouse gas emission mitigation *International Journal of Agricultural Sustainability*, 14: 466-483.

**Butler, A.** and Lobley, M. (2016). Training as a social purpose: are economic and social benefits delivered? *International Journal of Training and Development*, 20(4): 249-261.

**Daniels, S.P.** and Proudman, C.J. (2016). Ovicidal efficacy of Fenbendazole after treatment of horses naturally infected with *Cyathostomins*. *Veterinary Parasitology*, 227: 151-156.

**Daniels, S.P.** and Proudman, C.J. (2016). Shortened egg reappearance after ivermectin and moxidectin use in horses in the UK. *The Veterinary Journal*, 218: 36-39.

**Grange I** (2016). Targeted conservation grazing using molasses to increase preferential consumption of old growth pasture grasses. *Conservation Evidence Journal*, 13: 82-87.

**Hamilton-Webb, A.,** Manning, L., **Naylor, R., & Conway, J.** (2016). The relationship between risk experience and risk response: a study of farmers and climate change. *Journal of Risk Research*, 1-15.

**Hamilton-Webb, A., Naylor, R.,** Little, R., and Maye, D. (2016). Compensation and exotic livestock disease management: the views of animal keepers and veterinarians in England. *Veterinary Record*, doi:10.1136/vr.103571.

Kirsty Roberts, **Andrew J. Hemmings, Meriel Moore-Colyer,** Matthew O. Parker and Sebastian D. McBride (2016). Neural modulators of temperament: A multivariate approach to personality trait identification in the horse. *Physiology & Behaviour*, 167: 125-131.

Hale, C., **Hemmings, A.J.** and Randle, H. (2016). Accuracy of horse workload perception by owners when compared to published workload parameters. *Journal of Veterinary Behaviour* 15: 94.

Auffret MD, Karhu K, Khachane A, Dungait JAJ, Fraser F, **Hopkins DW**, Wookey PA, Singh BK, Freitag TE, Hartley IP, Prosser JI (2016). The role of microbial community composition in controlling soil respiration responses to temperature. *PLOS ONE*, 11(10): Article Number: e0165448, DOI: 10.1371/journal.pone.0165448.

Wei ST, Lacap-Bugler DC, Lau MCY, Caruso T, Rao S, de los Rios A, Archer SK, Chiu JMY, Higgins C, Van Nostrand JD, Joy D, Zhou JZ, **Hopkins DW**, Pointing SB (2016). Taxonomic and functional diversity of soil and hypolithic microbial communities in Miers Valley, McMurdo Dry Valleys, Antarctica. *Frontiers in Microbiology*, 7: Article Number: 1642, DOI: 10.3389/fmicb.2016.01642.

Armstrong A, Valverde A, Ramond JB, Makhalanyane TP, Jansson JK, **Hopkins DW**, Aspray TJ, Seely M, Trindade MI, Cowan DA (2016). Temporal dynamics of hot desert microbial communities reveal structural and functional responses to water input. *Nature Scientific Reports*, 6: Article Number: 34434, DOI: 10.1038/srep34434.

Newsham KK, **Hopkins DW**, Carvalhais LC, Fretwell PT, Rushton SP, O'Donnell AG, Dennis PG (2016). Relationship between soil fungal diversity and temperature in the maritime Antarctic. *Nature Climate Change*, 6 (2): 182- 186.

Jones L, Norton L, Austin, Z, Browne, A.L, Donovan, D, Emmett B.A, Grabowski, Z.J, Howard D.C, Jones J.P.G, Kenter J.O, **Manley W**, Morris C, Robinson D, Short C, Siriwardena G.M, Stevens C.J, Storkey J, Waters R, Willis G.F. (2016). Stocks and flows of natural and human-derived capital in ecosystem services. *Land Use Policy*, 52: 151-162.

**Moore-Colyer, M.J.S., Hemmings, A** and Hewer, N. (2016). A preliminary investigation into the effect of *ad libitum* or restricted hay with or without Horslyx on the intake and switching behaviour of normal and crib-biting horses. *Livestock Science*, 186: 59-62.

**Moore-Colyer, M.J.S.** Taylor, J. and James, R. (2016). The effect of steaming and soaking on the respirable particle, bacteria, mould and nutrient content in hay for horses. *Journal of Equine Veterinary Science*, 39: 62-68.

**Naylor, R., Hamilton-Webb, A.,** Little, R., and Maye, D. (2016). The ‘good farmer’: Farmer identities and the control of exotic livestock disease in England. *Sociologia Ruralis*, DOI: 10.1111/soru.12127.

Broughan, J.M., Maye, D., Carmody, P., Brunton, L.A., Ashton, A., Wint, W., Alexander, N., **Naylor, R.**, Ward, K., Goodchild, A.V., Hinchliffe, S., Eglin, R.D., Upton, P., Nicholson, R. and Enticott, G. (2016). Farm characteristics and farmer perceptions associated with bovine tuberculosis incidents in areas of emerging endemic spread. *Preventive Veterinary Medicine*, 129: 88-98.

**Rial-Lovera K, Davies WP, Cannon ND.** (2016). Implication of climate change predictions for UK cropping and prospect for possible mitigation: A review of challenges and potential responses. *Journal of Food Science and Agriculture*, 97: 17-32.

**Rial-Lovera K, Davies W P, Conway J S, Cannon N D.** (2016). Influences of tillage systems and nitrogen management on yield, grain protein and N-use efficiency in UK spring wheat. *Journal of Agricultural Science*, 154 (8): 1437-1452.

**Rial-Lovera K, Davies WP, Cannon ND, Conway JS.** (2016). Weed species composition in spring wheat after contrasting soil tillage and nitrogen management. *Annals of Applied Biology*, 169(2): 236-247.

Ferreiro-Dominguez N, Rigueiro-Rodriguez A, **Rial-Lovera KE**, Romero-Franco R, Mosquera-Losada MR. (2016). Effect of grazing on carbon sequestration and tree growth that is developed in a silvopastoral system under wild cherry (*Prunus avium* L.). *Catena*. 142: 11-20.

Michl, P., Lorenz, D., T., Lützkendorf, T. and **Sayce, S.**, (2016). Reflecting sustainability in property valuation—a progress report. *Journal of Property Investment & Finance*, 34(6): 552-577.

**Topolansky, F.,** Gonzalez Triay, M., and Häufe, C. (2016). The competitiveness of the Uruguayan rural tourism sector and its potential to attract German tourists. *Competitiveness Review*, 26 (2): 166-187.

**Topolansky, F.,** Gonzalez Triay, M., and Fajarzuc, A. (2016). An exploratory research of the potential strategic benefits of specialising in Riesling grape. A case study from the Niagara wine region. *Advances in Economics and Businesses*, 4 (10): 515-524.

**Topolansky, F., Zhang, C., Gonzalez, M., and Mzendah, C. (2016).** Does the conventional paradigm help to analyse the competitiveness of an industry? *International Journal of Academic Research in Business and Social Sciences*, 6 (8): 68-84.

## Conference presentations

Jellason, NP, **Baines, RN & Conway, JS**. 2016. Farmer knowledge and attitudes towards climate change adaptation in the northern Nigerian drylands. Annual International Conference 2016 “Nexus Thinking”-Royal Geographic Society with Institute of British Geographers. 29th August – 2nd September, 2016 London

Jellason, NP, **Baines, RN & Conway, JS**. 2016. Multidisciplinary approaches to perception and responses to environmental change in northern Nigerian drylands. Annual International Conference 2016 “Nexus Thinking”-Royal Geographic Society with Institute of British Geographers. 29th August – 2nd September, 2016 London

Jellason, NP, **Baines, RN & Conway, JS**. 2016. Integrating farmer knowledge & perceptions of environmental challenges into development strategies: A case study of Nigerian drylands. Researching in Nigeria Day 2016: Workshop for early career researchers on themes related to Nigeria. 23rd June, 2016-Oxford University.

Alo, A.O., **Baines, R. N., Conway, J., and Cannon, N** 2016 Smallholder Farmers' Perception of Climate Change and Strategies to Facilitate Climate Smart Farming: A Case Study of Osun State, Nigeria. 4th International Climate Change Adaptation Conference, Rotterdam, The Netherlands, 10-13 May, 2016.

Alo, A. O. **Baines, R. N., and Conway J** 2016: Smallholder Farmers' Understanding of Good Agricultural Practices in South West Nigeria: What Does the Future Hold for Smallholder Crop Farmers?. Research in Nigeria Day, June 23<sup>rd</sup> 2016: Oxford University.

**Brunyee, J** (2016) The Economic Case for Feeding Ruminants Solely on Pasture - It Can Be Done. Invited speaker at the Oxford Real Farming Conference. Oxford Town Hall. UK. 3 January 2016.

**Brunyee, J** (2016) Common Ground – Agroecology, Organics and Pasture Fed Livestock. Invited plenary speaker at the Organic Producers Conference. Bristol. UK. 23<sup>rd</sup> January 2016.

**Brunyee, J** (2016) Building a Sustainable Farm Business. Presenting Scholar at the Nuffield Farming Conference. Newcastle. UK. 25th November 2016.

**Brunyee, J** (2016) Building Natural Capital Using Regenerative Agriculture and Pasture Fed Livestock. Invited speaker at the CLA Natural Capital Conference. Earth Centre. UK. 18th November 2016.

**Butler, A.**, 2016, April. How complex is agricultural economics?. In 90th Annual Conference, April 4-6, 2016, Warwick University, Coventry, UK (No. 236287). Agricultural Economics Society.

**Cannon, N.** (2016). Community engagement in agriculture. LEAF IFM Conference: A framework for the future, Waddesdon Manor, Buckinghamshire, 19<sup>th</sup> May 2016.

Vijaya Bhaskar, A.V., **Cannon, N.D.** and Davies, W.P. (2016). Performance of UK organic spring wheat and contrasting soil tillage: yield and economic. ESA 14, Growing landscapes – Cultivating innovative agricultural systems. Edinburgh, Scotland, UK, 5-9 September 2016

Vijaya Bhaskar, A.V., **Cannon, N.D.** and Davies, W.P. (2016). Contrasting soil tillage influences on soil and weeds in UK organic spring wheat. ESA 14, Growing landscapes – Cultivating innovative agricultural systems. Edinburgh, Scotland, UK, 5-9 September 2016

Kamalongo, **D.**, **Cannon, N.D.**, Davies, W.P. and **Conway, J.S** (2016). Bi-cropping spring field bean (*Vicia faba*) and wheat (*Triticum aestivum*) for wholecrop forage in the UK. ESA14 - European Society of Agronomy Conference 2016. The Association of Applied Biologist. Edinburgh 5-9th September.

McKenna, P., **Cannon, N.D.** and Davies, W.P., **Conway, J.** and **Dooley, J.J.** (2016). Red clover (*Trifolium pratense*, L.) variety evaluation for soil fertility-building. ESA 14, Growing landscapes – Cultivating innovative agricultural systems. Edinburgh, Scotland, UK 5-9 September 2016.

Odueke, O., **Chadd, S.**, **Baines, R.N** and Farag, K.W. (2016). Impact of Gamma Irradiation on the Shelf-Life of Dairy-like Product. Vienna, Austria, 4<sup>th</sup> *International ISEKI\_Food Conference*. 6-8 July, 2016.

Odueke, O., **Chadd, S.**, **Baines, R.N** and Farag, K.W. (2016). Effects of Gamma Irradiation on the Shelf-Life of Dairy-like Product. 18<sup>th</sup> *World Congress of Food Science and Technology*. Dublin, Ireland, 21- 25 August, 2016.

Odueke, O., **Chadd, S., Baines, R.N** and Farag, K.W. (2016). Effects of Gamma Irradiation on the Shelf-Life of Dairy-like Product. *18<sup>th</sup> International meeting on Radiation Processing*. Vancouver, Canada, 7-11 November, 2016.

**Chang, X.** 2016 (July). Assessment and Optimization of Microwave Assisted Extraction (MAE) of Galanthamine and other Alkaloids from Daffodils for the UK Pharmaceutical Industry, HVCfP / BBSRC case study, <https://hvccfp.net/wp-content/uploads/2014/07/HVCCFP-BIV-JUL14-001-one-year-on-case-study.pdf>

Ferdousi, A; **Chang, X**; Hall, A and Jones, M. 2016. Tissue Culture Approaches for Production of Amaryllidaceae Alkaloids in *Narcissus pseudonarcissus* cv. Carlton, ECO-BIO 2016, 6 - 9 March 2016, Rotterdam, The Netherlands

**Chiru, C., Murray, Y., Topolansky, F.** and Wilson, P. (2016). Insights taken from learning experiences of our students. An educational partnership "saga". The academy of Business and Retail Management - 2nd International Conference on Institutional Leadership, Learning & Teaching. 19th – 20th September, University of Cambridge, UK.

**Chiru, C.** and Coham-Maclaren, F. (2016). The agency dilemma in the ready to drink protein shakes market segment. An investigation with young British consumers. International Conference on Business, Economics, Management and Marketing. 15th-17th August 2016, University of Oxford, UK.

**Conway, J.** 2016 “Understanding government reforms – RAU response” . Preparing for the changes to the DSA, Westminster Briefing, London, 27th January.

**Conway, J.** 2016 “Understanding government reforms – RAU response” . Preparing for the changes to the DSA, Westminster Briefing, Manchester 4th February.

**Davis AA** (2016). A new countryside policy for the UK following secession from the European Union Presented to the CRAG Fringe Meeting at the Conservative Party Conference on Monday 3rd October 2016

**Foot, K.** (2016a) Written Evidence to National Assembly for Wales Climate Change, Environment and Rural Affairs Committee Inquiry into Future Welsh Policies Relating to Agriculture and Land Management Following Departure from the European Union [online]. National Assembly for Wales. Available from:

<http://senedd.assembly.wales/ieListDocuments.aspx?CId=444&MId=3728&Ver=4> [Date accessed: 19.12.16]

**Foot, K.** (2016b) Oral Evidence to National Assembly for Wales Climate Change, Environment and Rural Affairs Committee Inquiry into Future Welsh Policies Relating to Agriculture and Land Management Following Departure from the European Union. In, The Record of Proceedings of the National Assembly for Wales Climate Change, Environment and Rural Affairs Committee 28 September 2016 [online]. National Assembly for Wales. Available from: <http://senedd.assembly.wales/mgIssueHistoryHome.aspx?IId=15156&Opt=0> [Date accessed: 19.12.16]

**Hamilton-Webb, A., Naylor, R.,** Little, R. (2016) Farmers' knowledge and decision making in the context of exotic disease management. International Society of Rural Sociology. Toronto, Canada

Smith M, **Grange I**, Masefield S, **Swallow K** and Wilson Z (2016). Effects of different conservation grazing management regimes on small mammal populations in calcareous grassland. Mammal Society 62nd Spring Conference, Yarnfield Park Training & Conference Centre, Staffs, 8-10 April.

**Hamilton-Webb, A., Naylor, R.,** Manning, L., and **Conway, J.** (2016) Farmers' experience of, and response to climate change in Gloucestershire – conclusions from a mixed method study. New and Emerging Rural Researchers Session, Royal Geographical Society IBG Annual Conference, September 2016

**Hamilton-Webb, A., Naylor, R.,** Manning, L., and **Conway, J.** (2016) A conceptual framework to understand farmers' response to climate change risk: A case study of Gloucestershire, England. Emerging themes and perspectives in addressing climate change research (2) Session, Royal Geographical Society IBG Annual Conference, September 2016

**Hamilton-Webb, A., Naylor, R.,** and Little, R. (2016) Farmers' knowledge and decision making in the context of exotic livestock disease in England. XIV World Congress of Rural Sociology, 10-14 August, Ryerson University, Toronto

**Hamilton-Webb, A.** (2016) Farmers' experiences of flooding and engagement with climate change in Gloucestershire – initial qualitative findings. The Countryside and Community Research Institute Winter School, January 2016

**Hemmings, A.** (2016) Frontiers in Behavioural Neuroscience: a headfirst approach to breeding training and management. Invited Plenary Address. *Horses Inside Out Annual Conference*. Royal Agricultural University Cirencester, UK, 20<sup>th</sup> - 21<sup>st</sup> February 2016

**Hemmings, A.** (2016) Neurobiological mechanisms underlying horse behaviour. Invited Keynote. *Duchy College Student Conference*. Duchy College, 4<sup>th</sup> Dec, 2016

Hale, C.E. and **Hemmings, A.** (2016) *In-Vitro* buffering capacity of a variety of forages and feedstuffs. 8<sup>th</sup> *European Workshop on Equine Nutrition*. Dijon, France, 16<sup>th</sup> -18<sup>th</sup> June, 2016

**Hopkins DW** (2016) Healthy soils for healthy agriculture. Invited speaker at Generation Farm Conference, Royal Agricultural University, Cirencester, UK. 20 April 2016.

**Hopkins DW** (2016) Adaptation and responses to temperature change by soil microbial communities. Invited speaker at 5<sup>th</sup> Enzymes in the Environment, Bangor, UK. 26 July 2016.

**Hopkins DW** (2016) Relationship between soil fungal diversity and temperature in the maritime Antarctic. Speaker at the SCAR Open Science Conference, Kuala Lumpur, Malaysia. 24 August 2016. S

**Hopkins DW** (2016) Healthy soils for healthy agriculture. Keynote speaker at the United Nations Food and Agriculture Organization World Soils Day Conference, Russian State Agrarian University, Moscow, 5 December 2016

Al Raeesi, E., LAHBASH, E. and **S. Huston** (2016) Evaluating government valuation department performance in developing markets, *23rd European Real Estate Society Conference*, June 8-11, 2016, Regensburg, Germany.

LAHBASH, E., **Huston, S. and A. Parsa.** (2016). 'Dubai residential valuation system: market exploration, embedded institutional participation, archival research and expert interviews'. *23rd European Real Estate Society Conference*, June 8-11, 2016, Regensburg, Germany.

Huston, E., Redmond P. and **S. Huston** (2016). 'Emotional Attachment for Informal Second Language E-Learning' 2016 International Education Conference June 5-9, 2016 Venice, Italy.

**Huston, S.** (2016) 'Sustainable housing development in the UK: implications for environmental/energy policy', British Council Workshop on Global Environmental Policy Learning, Izmir University of Economics the 16th-18 May 2016

**Maskell, E.** (2016) National Conference, looking at how HEI's can make better strategic use of information, HEDIIP April 2016

**Marshall, R.** (2016) The value of community gardening in 'Placemaking' for urban developments. Critical Foodscapes: what does the future hold for urban gardening? University of Warwick. 7<sup>th</sup> July 2016

**Marshall, R** (2016)Urban agriculture and community gardening. Oxford Real Farming Conference. Oxford. 4<sup>th</sup> January 2016

Williams, A., **Moore-Colyer, MJS.** Harris, PA.(2016) The effect of soaking on the populations of acidic bacteria found on UK meadow hay – possible implication for equine gastric ulceration Proceedings of the 8<sup>th</sup> European Workshop on Equine Nutrition, Dijon, France, 16<sup>th</sup> – 18<sup>th</sup> June 2016.

**Moore-Colyer, MJS,** Crosthwaite, SK and Harris, PA. (2016) The effect of soaking on the bacterial profile of UK meadow and perennial rye grass (*Lolium perenne*) hay for horses Proceedings of the 8<sup>th</sup> European Workshop on Equine Nutrition, Dijon, France 16<sup>th</sup> -18<sup>th</sup> June 2016.

**Moore-Colyer, MJS** and Jiang, C. Preliminary development of a dynamic gastric in vitro model for horses Proceedings of the 8<sup>th</sup> European Workshop on Equine Nutrition, Dijon, France, 16<sup>th</sup> – 18th June 2016.

**Moore-Colyer, MJS** A better way to feed the performance horse. Invited Plenary. Horses Inside Out Annual Conference. Royal Agricultural University, Cirencester, UK, 20th - 21st February

**Mottram, T:** Redefining SARA in dairy cows with reticulum pH measurements. Precision Dairy Farming, Leeuwarden, Netherlands; 06/2016

**Mottram,T:** Is monitoring rumen pH a routine tool or a seasonal adjustment to new forage quality?. Proceedings of the 7th Nordic Feed Science Conference, SLU, Uppsala, Sweden; 06/2016

PUYING Li, **Parsa, A., Huston, S.,** and A. Kashyap, (2016). 'The International Competitiveness of Chinese Construction Firms'. 23rd European Real Estate Society Conference, June 8-11, 2016, Regensburg, Germany.

**Rial-Lovera K,** Davies WP, **Cannon ND,** (2016) Energy and economic evaluation of spring wheat production under contrasting tillage systems and nitrogen fertilisation management. International Conference on Conservation Agriculture and Sustainable Land Use. Budapest, Hungary. 31 May – 2 June 2016.

Matthew JM, Lane GPF, Davies WP, **Rial-Lovera K.** Short-term fertility-building crop influences on crop performance in arable farming. International Conference on Conservation Agriculture and Sustainable Land Use. Budapest, Hungary. 31 May – 2 June 2016.

Matthew JM, Davies WP, Lane GPF, **Rial-Lovera K.** Short-term break crop influences on nitrogen uptake and yield of wheat in UK arable rotations. 14th European Society of Agronomy Conference. Edinburgh, Scotland. 5-9 September 2016.

Emerson, L., Griffin, K. and **Stevenson, A.** (2016) Attitudes and practice regarding trimming of equine vibrissae (sensory whiskers) in the UK and Germany. Proceedings of the 12<sup>th</sup> Conference of the International Society for Equitation Science, Saumur, France, June 2016.

Jones, T., Griffin, K. and **Stevenson, A.** (2016) Effects of ridden exercise on night-time resting behaviour of individually housed horses. Proceedings of the 12<sup>th</sup> Conference of the International Society for Equitation Science, Saumur, France, June 2016.

## Books / book chapters

**Conway, JS** & Wood, M. 2016. "A Geoheritage case study : GeoMon in Wales" pp219-232 in Hose, TA [ed]. *Geoheritage and Geotourism; A European Perspective*. Boydell Press

Dungait JAJ, **Hopkins DW** (2016) Physically-protected soil organic matter. In: *Encyclopedia of Soil Science, Third Edition* (Lal, R, editor). CRC Press, USA. ISBN 9781498738903

Crossman, G.K. & **Walsh, R.E.** (2016). The relationship between the government and the horse industry: a comparison of England, Sweden and the Netherlands, in *The New Equine Economy in the 21st Century, EAAP Scientific Series*, Volume 136, Wageningen Academic Publishers.

**John Hockey**, Jeremy Moody, Leandro Escobar-Torres, Wolfgang Kalberer, Eric Larson and Michael Morris (2016) Ed John Hockey. *European Valuation Standards*. Publisher: TEGoVA (Brussels)  
ISBN: 978-90-819060-1-2

## Talks to external bodies

**Butler, A.**, 2016. Adaptive Mangement in UK Farming Businesses, Keynote talk at Ballard Dale Syree Watson Chartered Accountants event, 7th December 2016.

**Cannon, N.** (2016). *Improving Cropping Systems with Legumes: Agronomic Research and Development*. Tropical Agriculture Association, *Cropping Systems and Pulses*. Royal Agricultural University, Cirencester, Gloucestershire. 13<sup>th</sup> October 2016

**Hemmings, A.** (2016) Feeding the Mind. XLE Vets CPD event. Ettington Chase Hotel, Warwickshire

**Hemmings, A.** (2016) Neurobiological mechanisms underlying horse behaviour. Invited Keynote. *Duchy College Student Conference*. Duchy College 4th Dec, 2016

**Hopkins DW** (2016) Physical constraints on microbial activity in desert soils. Invited seminar at Desert Microbial Ecology and Network meeting, Centre for Microbial Ecology and Genomics, University of Pretoria, South Africa. 7 April 2016.

**Hopkins DW** (2016) The ends of the earth, and a few places in between. Invited seminar at the Tibetan Plateau Research Institute, Chinese Academy of Sciences, Beijing, China. 23 May 2016.

**Hopkins DW** (2016) The yield gap. Invited seminar at the North West Agriculture and Forestry University, Yangling, China. 26 May 2016.

**Hopkins DW** (2016) Agriculture, soils and climate. Invited seminar at African Soil Microbiology Network meeting, Centre for Microbial Ecology and Genomics, University of Pretoria, South Africa. 10 October 2016.

**Hopkins DW** (2016) Agriculture, soils and climate. Invited presenter for Sci21 broadcast (public engagement in science), Auckland, New Zealand. 5 November 2016.

**Hopkins DW** (2016) Natural resources: Soil and food. Invited speaker at the Royal Society Global Environment Research Committee, The Royal Society, London UK. 14 November 2016.

**Huston, S.** Marling Grammar: regular careers seminar 'Careers in Finance' to Marling Grammar School sixth form, 2016

**Moore-Colyer, M.J.S. and Hemmings, A.** (2016) Feeding the Mind and Body. Belmont Farm and Equine Vets CPD event. Feathers Hotel Bromyard, 2<sup>nd</sup> Feb, 2016

**Moore-Colyer, M.J.S. and Hemmings, A.** (2016) Feeding the Mind and Body. Belmont Farm and Equine Vets CPD event. Falcon Hotel Hereford, 4<sup>th</sup> March, 2016

**Moore-Colyer, MJS.** The Future of Feeding- Optimising health and performance via dietary manipulation. Meriel Performance Horse Veterinary CPD Race Days, York, 13<sup>th</sup> May; Newbury, 23<sup>rd</sup> June; Newmarket, 24<sup>th</sup> June 2016

**Moore-Colyer, MJS.** The Equine Industry in Europe & America – a cultural perspective. Wuhan Business University, China April 2016

**Moore-Colyer, MJS.** Feeding horses- Using science to improve feeding practices and avoid problems – Wuhan Business University Staff CPD. April 2016

**Moore-Colyer, M.J.S.** (2016) Feeding the Mind and Body. Owner CPD event. Feathers Hotel Bromyard 13<sup>th</sup> May 2016

**Rial-Lovera K.** British Council Research Links Workshop (The Newton – Al-Farabi Partnership Programme) on *Management of Innovation in the Agricultural Sector*. University of Abertay Dundee and Narxoz University. 14-18 Nov 2016. Almaty, Kazakhstan.

**Rial-Lovera K** and Davies WP. *The international Year of Pulses. Global challenges and crop opportunities*. Presented at the Tropical Agricultural Association South West

England Branch Seminar. Cirencester, England. 13th October 2016.

**Rial-Lovera K.** *Soil tillage for wheat production, soil management and climate change mitigation –What is research telling us?* Presented at the Wiltshire Growers Winter Conference–Challenging Times Ahead organised by Agrovista. Feb 2016.

## Reports

**Brunyee, J.** (2016) '[Building a Sustainable Farm Business](#)'. Nuffield Farming Scholarship Programme.

**Martin, H.** GCI Ltd. Market Research Report: Compost Products

**Martin, H.** Coffee Grounds Project: Composting– Interim Report

**Martin, H** CCm Report on the effect of a potential new fertiliser product on the growth and productivity of a grass crop: 2016 trials.

## PhD awards

<b>Student</b>	<b>PhD Study Area</b>	<b>Supervisors</b>
<b>Munyeche, N.</b>	Improving market supply from smallholder producers in Zambia and South Africa	<b>R Baines</b> <b>J Turner</b> <b>P Davies</b>
<b>Axe, M.</b>	Carbon sequestration evaluation in UK farm hedgerows	<b>R Baines</b> <b>I Grange</b> <b>J Conway</b>
<b>He, Fan</b>	Social capital in China: Labour migration and use in the mining sector.	<b>K Rajah</b> <b>J Turner</b> <b>Y Zhang</b>

## Appendix 1. Post-graduate students at RAU

STUDENT	PROJECT TITLE	CENTRE	SUPERVISORS	START DATE	END DATE	SPONSORS
<b>Coventry Registered (10)</b>						
Oluwakemi Odueke	Irradiation applications in dairy products	Food	Richard Baines	Sep 13	Sep 17	Self
Hamilton-Webb Alice	Farmers experiences of flooding and attitudes towards climate change. A study in in the county of Gloucestershire	CRLM	John Conway Rhianna Naylor	Oct-12	Jun-17	RAU
Alo, A	Nigerian Smallholder Farmer awareness of climate change and attitudes to climate Smart Farming	Agri	Richard Baines, John Conway, Nicola Cannon	Mar-13	Dec-16	Private
Roberts Kirsty	Behavioural probes of brain function	CEMS	Meriel Moore-Colyer Andrew Hemmings,	May-14	Apr-17	RAU
O'Connor Niamh	The role of current and future food systems in alleviating food poverty in urban areas - an	CFS	Richard Baines Steve Chadd	Jun-14	May-17	RAU

	inclusive food system model					
Jellason Patrick	Environment challenges and linkages to small scale farmers in Sub-Saharan Africa: implications for food security	Agri	Richard Baines, John Conway	Oct-14	Sep-17	Private
Lahbash Ebraheim Ali	UAE residential valuation systems, audit, investigation and future pathways	CRE	Ali Parsa Simon Huston	Oct-14	Sep-17	Private
Li Puying	International competitiveness model to analyse and improve the internal competitiveness of Chinese construction firms	CRE	Ali Parsa Simon Huston	Oct-14	Sep-17	Private
McKenna Patrick	Investigation of red clover ( <i>Trifolium pratense</i> ) cultivars and landraces	Agri	Nicola Cannon John Conway	Nov-14	2017	
Sennuga Samson	Use of ICT amongst extension workers and farmers and its relevance to sustainable development in Nigeria		Richard Baines John Conway	Nov-14	2017	National Universities Commission

## UoG registered (8)

Kamalongo Donwell	Wheat-bean intercropping		Nicola Cannon John Conway	Jan-15	Jan-18	John Oldacre Foundation
Al-Nadhari Najma	The attraction of London Property to GCC Investors	CRE	Ali Parsa Simon Huston	Oct-15	2018	Private
White Samuel	Respiratory Allergens in Hay	CEMS	Meriel Moore-Colyer Andrew Hemmings,	Oct-15	2018	Sainsbury Trust, Haygain
Ahiaba, Ugbede	Comparative analysis of an ecoroofing system and common farm roofing materials in minimising heat stress and stabilizing low temperatures in animal production buildings	CRE	Al Parsa	Feb-16	Jan-19	University of Agriculture Makurdi - TETF
Cockram Lloyd Aneirin Christopher	Efficacy of farm swales in removing metaldehyde and other pesticides from surface water	Env	David Hopkins Ian Grange Tom Overbury	Oct-16	2019	Thames Water
Li Pengfei	Shandong province, Porter's Diamond and the competitiveness of the trucking transportation manufacturing industry	Business	Steve Chadd Federico Topolansky Codrin Chiru	Oct-16	2019	Private

Newman Ivan	The Effect of the UK Government's "Modernising" Changes to the Disabled Students' Allowance on the Provision of Support to HE Students with Specific Learning Difficulties		John Conway	Oct-15	Sep-21	Dyslexia Handled Ltd
Su Linxiao	The influence of Flexible Work Arrangements on Job Satisfaction in Chinese tourist industry	Business	Steve Chadd Carol Chang Federico Topolansky	Oct-16	2019	Private
<b>MSc R (8)</b>						
Dolman Sarah	Essential Oils as aromatic calmers and bronchodilation agents for horses	CEMS	Andrew Hemmings Meriel Moore-Colyer,	Oct-15	2016	SoLab Ltd
Orchard Emily	Stereotype suppression project chelated calcium/sterotypy these in cognitive alteration in cribbers	CEMS	Andrew Hemmings Meriel Moore-Colyer,	Oct-15	2016	Equifeast
Pickup Lucy	Efficacy of a Novel Slow Feeding System on Intake Rate and Behaviour in normal and hyper reactive stabled horses	CEMS	Meriel Moore-Colyer Andrew Hemmings	Feb-16	2017	Haygain

Roberts Hayley	Gluten intolerance in horses	CEMS	Andrew Hemmings Meriel Moore-Colyer	Oct- 16	2017	NAF (part funded)
King Helen	Biological response to temperature and moisture of arid soils from contrasting temperature regimes	Env	David Hopkins, K Swallow, J.A.J. Dungait	Oct- 16	2017	private & part-funded (unconfirmed)
Edwards Tom	Efficacy of farm swales in removing metaldehyde and other pesticides from surface water		David Hopkins, Ian Grange, Tom Overbury	Oct- 16	2017	Thames Water
Hepworth Jake	Bacteria in hay	CEMS	Meriel Moore-Colyer Simon Daniels	Oct- 16	2017	Haygain