



PUBLICATIONS,  
CONTRIBUTIONS TO CONFERENCES  
AND CONSULTANCY REPORTS

JANUARY - DECEMBER 2014

## **Summary**

The report reviews research and consultancy outputs from the Royal Agricultural University in 2014.

The appointment of additional academic staff in 2013-4, with research degree qualifications, and more of a track record for research, has started to make a difference to the output total. A number of new staff feature in the report, and there is a much wider range of publication topics covered than previously.

Contributions are again dominated by staff from the School of Agriculture, Food and Environment with research projects involving, in particular, MSc postgraduates and PhD students. There is continuing research and consultancy in the School of Real Estate and Land Management. The new School of Equine Science and Management [formerly part of School of Agriculture] has made an excellent start with a MSc by Research awarded during the year and two new PhDs being started.

An encouraging start to RAU intentions to achieve our own Research Degree awarding Powers is the registration of 13 new PhD candidates during the year, and the graduation of 3 PhDs.

During 2013 Dr John Conway, working with Professor Ros Gaskell, and senior colleagues, completed a Research Excellence Framework (REF) submission for the Royal Agricultural University to the Higher Education Funding Council (HEFCE). The REF outcomes were published in December 2014 and it was pleasing to see that some of our publications were graded 4\* for the first time “quality that is world leading in terms of originality, significance and rigour”. For the 2014 REF exercise the work of 12 members of research-active academic staff was submitted, compared with the submission of 8.2 staff in the 2008 and 8 in 2001 RAE exercises.

**Dr J.S. Conway, RAU Director of Research**

**Professor W. Paul Davies, Chair, Research Committee**

**16 February 2015**



**PUBLICATIONS, CONTRIBUTIONS TO CONFERENCES AND  
CONSULTANCY REPORTS: JANUARY - DECEMBER 2014**

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## PUBLICATIONS, CONTRIBUTIONS TO CONFERENCES AND CONSULTANCY REPORTS: JANUARY 2014 - DECEMBER 2014

### 1. Peer Reviewed Journals

- Al-Dajani, H., Bika, Z., **Collins, L.** and Swail, J. (2014). Gender and family business: new theoretical directions. *International Journal of Gender and Entrepreneurship*, 6 (3) 218-230. <http://www.emeraldinsight.com/toc/ijge/6/3>
- Basbag, M., **Davies, W. P.**, **Cannon, N. D.**, **Rial Lovera, K.**, Basbag, S., **Burbi, S.**, **Vijaya Bhaskar, A.V.**, **Moyo, H.**, **Axe, M.**, **Alo, A.** and **Minaei, N.** (2014). Some wild plants in the Cirencester natural flora. *Anadolu Journal of Agricultural Science*, 29 (2), 126-135. <http://dx.doi.org/10.7161/anajas.2014.29.2.126-135>
- Chang, X.** and Martin, P. (2014). N, P and K fertilizers alter plant growth, essential oil yield and gender of sweet gale (*Myrica gale L.*), *The Open Plant Science Journal*, 8, 9 – 17. ([dx.doi.org/10.2174/1874294720140708003](http://dx.doi.org/10.2174/1874294720140708003)).
- Condron, L.M., **Hopkins, D.W.**, Gregorich, E.G., Black, A. & Wakelin, S.A. (2014). Long-term irrigation effects on soil organic matter under temperate grazed pasture. *European Journal of Soil Science*, 65, 741–750. (doi: 10.1111/ejss.12164).
- Enticott, G., Maye, D., **Naylor, R.**, Ilbery, B. and Kirwan, J. (2014). Badger vaccination: Dimensions of trust and confidence in the governance of animal disease. *Environment and Planning*, 46 (12), 2881-2897. (ISSN 0308-518X. doi:10.1068/a130298p)
- Huston, S.** and Darchen, S. (2014). Urban regeneration: Australian case study insights for cities under growth pressure. *International Journal of Housing Markets and Analysis*, 7 (2) 266-282. <http://dx.doi.org/10.1108/IJHMA-01-2013-0005>
- Jadecivicius, A.** and **Huston, S.** (2014). A “family of cycles”– major and auxiliary business cycles. *Journal of Property Investment & Finance*, 32 (3), 306-323. <http://dx.doi.org/10.1108/JPIF-02-2014-0015>
- Jadecivicius, A.** and **Parsa, A.** (2014). An Empirical Analysis of Real Estate Cycles in the Lithuanian Housing Market. *Journal of Real Estate Literature*, 22 (1), 69-81.
- Karhu, K., Auffret, M., Dungait, J.A.J., **Hopkins, D.W.**, Prosser, J.I., Singh, B.K., Subke, J.A., Wookey, P.A., Ågren, G.I., Sebastià, M.T., Gouriveau, F., Bergkvist, G., Meir, P., Nottingham, A.T., Salinas, N. and Hartley, I.P. (2014). Temperature sensitivity of soil respiration rates enhanced by microbial community response. *Nature*, 513, 81-84. (doi: 10.1038/nature13604).

- Manning, L.** and Soon, J.M. (2014). Developing systems to control food adulteration. *Food Policy*, **49** (1), 23-32. (doi:10.1016/j.foodpol.2014.06.005).
- Maye, D., Enticott, G., **Naylor, R.**, Ilbery, B. and Kirwan, J. (2014). Animal disease and narratives of nature: Farmers' reactions to the neoliberal governance of bovine tuberculosis. *Journal of Rural Studies*, **36**, 401-410. (ISSN 07430167. DOI: 10.1016/j.jrurstud.2014.07.001).
- Minaei, N.** (2014). "Do Modes of Transportation and GPS Affect Cognitive Maps of Londoners?" *Transportation Research Part A: Policy and Practice*, [online], **70** (December), 162-180. (doi:10.1016/j.tra.2014.10.008).
- Minaei, N., Parsa, A. and Thomasin-Foster, N.** (2014). "Longitudinal Study on the relationship of workspaces and wellbeing (case study of a University in UK)". *OIDA International Journal of Sustainable Development*, **7** (7), 49-64. <http://ssrn.com/abstract=2503597>
- Moore-Colyer, M.J.S.**, Lumbis, K., Longland, A.C. and Harris, P.A. (2014). The effect of five different wetting treatments on the nutrient content and microbial concentration in hay for horses. *PLoS One*, **9** (11): e114079. November. (doi:10.1371/journal.pone.0114079).
- Murray, J.M.D., **Moore-Colyer, M.J.S.** and Dunnett, C. and Longland, A.C. (2014). The effect of feeding a low or high starch diet on equine faecal parameters. *Livestock Science*, **159**, 67-70.
- Naylor, R.** and Courtney, P. (2014). Exploring the social context of risk perception and behaviour: Farmers' responses to bovine tuberculosis. *Geoforum*. **57**, 48-56. (doi:10.1016/j.geoforum.2014.08.011).
- Naylor, R.**, Maye, D., Ilbery, B., Enticott, G. and Kirwan, J. Researching controversial and sensitive issues: using visual vignettes to explore farmers' attitudes towards the control of bovine tuberculosis in England. *Area*. **46** (3), 285-293.
- Rosmiza, M.Z., Davies, W.P.**, Rosniza Aznie, C.P., Mazdi, M. and Jabil, M.J. (2014). Farmers knowledge on potential uses of rice straw: An assessment in MADA and Sekinchan, Malaysia. *Geografia: Malaysian Journal of Society and Space*, **10**, 5, 30-43. (ISSN 2180-2491).
- Rosmiza, M.Z., Davies, W. P.**, Rosniza Aznie, C.R., Mazdi, M., Jabil, M.J., Wan Toren, W.Y., and Che Rosmawati, C.M. (2014). Farmers participation in rice straw-utilisation in the MADA Region of Kedah, Malaysia. *Mediterranean Journal of Social Sciences*, **5** 23, 229-237. (ISSN 2039-9340 - Print. ISSN 2039-2117 - Online).
- Searle, G., Darchen, S. and **Huston.S.** (2014). 'Positive and negative factors for Transit Oriented Development: Case studies from Brisbane, Melbourne and Sydney.' *Urban Policy and Research*. **32**, (4), 437-457. (doi:10.1080/08111146.2014.931280). <http://www.tandfonline.com/doi/full/10.1080/08111146.2014.931280>.

- Sun, Benhua, Dennis, P.G., Laudicina, V.A., Ord, V.J., Rushton, S.P., O'Donnell, A.G., Newsham, K.K. and **Hopkins, D.W.** (2014). Biogeochemical responses to nutrient, moisture and temperature manipulations of soil from Signy Island, South Orkney Islands in the Maritime Antarctic. *Antarctic Science*, **26**, (5), 513-520. (doi: 10.1017/S0954102014000030).
- Topolansky, F.**, Gonzalez Triay, M. and Hensel, A. (2014). Eco-labels in Germany. *Journal of Customer Behaviour*, **12**, (4), 341-359.
- Topolansky, F.**, and Arfmann, D. (2014). The value of Lean in the service sector: A critique of theory & practice. *International Journal of Business and Social Science*, **5**, (2), 18-24.
- Vijaya Bhaskar, A.V., Davies, W. P., Cannon, N. D. and Conway, J.S.** (2014). Soil cultivation influences on organic spring wheat performance in contrasting weather. *Agronomic decision making in an uncertain climate. Aspects of Applied Biology*, **125**, 11-19.
- Vijaya Bhaskar, A.V., Davies, W.P., Cannon, N.D. and Conway, J.S.** (2014). Weed manifestation under different tillage and legume undersowing in organic wheat. *Biological Agriculture and Horticulture*, **30**, (4), 253-263. (doi.org/10.1080/01448765.2014.951961).
- Vijaya Bhaskar, A.V., Rial Lovera, K., Davies, W.P. and Cannon, N.D.** (2014). Weed prevalence under organic and low-input cultivation systems. *Agronomic decision making in an uncertain climate. Aspects of Applied Biology*, **125**, 129-134.
- Zhang, Y., Topolansky, F. and Goodhow, W.** (2014). The perceptions of salient stakeholders on the conversion from 'renewable obligations' to 'contract for differences' in the UK low-carbon energy sector. *International Journal of Business and Social Sciences*, **5**, 8(1), 25-34.

## 2 Books and Book chapters

- Finch, H.J.S., Samuel, A.M. and Lane, G.P.F.** (2014). *Lockhart and Wiseman's Crop Husbandry Including Grassland*. **9<sup>th</sup> edn**. Cambridge: Elsevier Science & Technology. (Woodhead Publishing Series in Food Science, Technology and Nutrition, 277pp).

### 3 Conference Contributions

- Chang, X.** (2014). AGROGAL in Progress. *BBSRC /DEFRA AGROGAL LINK Conference*. Harper Adams University, 15 January.
- Chang, X.** (2014). AGROGAL Approaching Completion. *BBSRC /DEFRA AGROGAL LINK Conference*. Royal Agricultural University, 12 November.
- Conway, J.S.** (2014). Barriers to disabled students entering STEM subjects. *STEM Disability Transition Group conference*. Greenwich, July.
- Conway, J.S.** (2014). The HEI perspective on changes to the DSA 2015/6. *Westminster Conference*. London, September.
- Conway, J.S.** (2014). Royal Society Policy Lab 'Collaborative innovation - involving disabled people in user-led innovation'. Carlton House, London, June.
- Farag, K.W., Pinnock, S. and Manning, L.** (2014). The labelling of religiously slaughtered meat in the UK: an industry and consumer perspective. *60th International Congress of Meat Science and Technology*. Punta del Este, Uruguay, 17-22 August.
- Foot, K.** (2014). Education for Sustainable Development Strategies and Programme Development Plans. 'Turning Tides in Education for Sustainable Development' Conference. University of Gloucestershire, 2 July.
- Foot, K.** (2014). Aspects of Localism & Neighbourhood Planning. *Panel Discussion at 2<sup>nd</sup> Localism and Neighbourhood Planning Conference*. Royal Agricultural University, 27 November.
- Grange, I.** (2014). A catchment scale approach to address soil and water management issues. *Sino-EU Agriculture and Rural Development Cooperation Programme meeting*. Beijing, 22-23 April.
- Hopkins, D.W., Karhu, K., Auffret, M., Dungait, J.A.J., Prosser, J.I., Singh, B.K., Wookey, P.A. and Hartley, I.P.** (2014). Temperature sensitivity of soil respiration enhanced by microbial community response. *The 4th International Conference on Carbon Sequestration and Climate Change Mitigation in Agriculture*. Yangling, Shaanxi Province, China. 21-24 September.
- Hopkins, D.W., Newsham, K.K., Dennis, P.G., O'Donnell, A.G. and Rushton, S.P.** (2014). Lean but mean: Soil microbial communities in Antarctica and carbon cycling. *Scientific Committee on Antarctic Research Open Science Conference*, Auckland, New Zealand. 25-28 August.
- Huston, S., Jadevicius, A. and Minaei, N.** (2014). 'Talent and rental system bottlenecks: a preliminary investigation.' *21st Annual Conference of the European Real Estate Society (ERES)*. Bucharest, Romania. 17. 24-28 June. (<http://library.eres.org/cgi-bin/rsa98.pl?conf=ERES2014&type=showabstr&nr=56>).

- Jadevicius, A. and Huston, S.** (2014). 'Understanding Commercial Property Cycles in the UK: Smoothing and Volatility'. *30th Annual Conference of the American Real Estate Society (ARES)*, San Diego, California, USA. **88.14.** 1-5 April. ([http://www.flipdocs.com/showbook.aspx?ID=10004277\\_675343](http://www.flipdocs.com/showbook.aspx?ID=10004277_675343)).
- Jadevicius, A. and Martin, D.N.** (2014). Univariate time-series modelling of UK farmland prices. *21st Annual Conference of the European Real Estate Society (ERES)*. Bucharest, Romania, **14.** 24-28 June.
- Kämpf-Dern, A., **Jadevicius, A.**, Pyhrr, S. and Roulac, S. (2014). Cycles in Real Estate Cycles Research - examining empirical evidence in the U.S. *30th Annual Conference of the American Real Estate Society (ARES)*, San Diego, California, USA, **32.** 1-5 April.
- Little, R., Williams, C. and **Naylor, R.** (2014). Co-producing impact: using open policy making and 'applied evidence' to inform Animal Health and Welfare. *RGS IBG International Conference*. London. 26-29 August.
- Longland, A., Ince, J., Newbold, J.C., Barfoot, C., **Moore-Colyer, M.J.S.**, Kumbis, K. and Harris, P. (2014). Practical methods to reduce non-structural carbohydrate (NSC) intake in horses and ponies. *Proceedings Australasian Equine Science Symposium*, **5**, 7-8.
- Maye, D., Enticott, G., **Naylor, R.**, Kirwan, J. (2014). Farmer confidence in badger vaccination: a longitudinal analysis. *Vlth International M.bovis Conference: Cardiff*. 16-19 June.
- Maye, D., **Naylor, R.**, Enticott, G., Kirwan, J. (2014). Using scenarios to examine farmer knowledge networks for bovine TB. *RGS IBG International Conference*. London. 26-29 August.
- Minaei, N.** and Tajalli, M.H. (2014). "City's Atmosphere, Sensory Dynamics and People's Experience". *Second Annual International Association for the Study of the Culture of Cities (IASSC), Affective Cities: Scenes of Innovation II Conference*. Toronto, Canada. 5-7 August.
- Moore-Colyer, M.J.S.** and Auger, E.J. (2014). The effect of stable design and management regime on the respirable particle concentrations in 2 different types of horse stabling. *Proceedings of equi-meeting infrastructures Conference*. Lion D'Angers. France. 6-7 October.
- Moore-Colyer, M.J.S., Hemmings, A.J.** and Hewer, N. (2014). The effect of *ad libitum* or restricted hay with or without Horslyx on the intake and switching behaviour of normal and crib biting horses. *Proceedings of the 7<sup>th</sup> European Workshop on Equine Nutrition. Impact of nutrition on metabolism*. Leipzig. 28 September – 2 October.

- Moore-Colyer, M.J.S.**, Lumbis, K., Longland, A.C. and Harris, P.A. (2014). The effect of five different wetting treatments on the water soluble carbohydrate content and microbial concentration in hay for horses. *Proceedings of the 7<sup>th</sup> European Workshop on Equine Nutrition. Impact of nutrition on metabolism*. Leipzig. 28 September – 2 October.
- Moore-Colyer, M.J.S.** and Taylor, J. (2014). Forage in the Stable – Techniques for reducing the respirable challenge and microbial content in hay. *Proceedings of the Dorothy Russel Havemeyer Foundation IAD Workshop*. Cabourg, France. 13-14 October.
- Mottram, T.T.** (2014). Dairy farm evaluation of rumen pH bolus data: identifying the benefits. *Proceedings of EAAP (European Federation of Animal Science)*. Copenhagen. 25-29 August.
- Mottram, T.T.**, Hamilton, J., Cooper, R. and Daly, D. (2014). Measuring rumen pH on farms with wireless telemetry boluses shows the impact of farm routine. *Proceedings of British Cattle Veterinary Association. Cattle Practice*. DOI: 10.13140/2.1.4439.3923. Hinckley Island, Leicestershire. 16-18 October.
- Naylor, R.** (2014). Initiative teaching methods: the use of video. *RGS IBG International Conference*. London. 26-29 August.
- Odueke, O., Farag, K.W., Baines, R.N. and Chadd, S.A.** (2014). Irradiation Applications in Dairy Products. *International Symposium on Food Safety and Quality: Applications of Nuclear and Related Techniques*. Vienna, Austria, 10–13 November.
- Rahimzad, R., **Parsa, A., Huston, S.**, D’Inverno, C. and Trillo, C. (2014). The Future of Tax Increment Financing as a Tool for Urban Regeneration – US and UK experience. *European Real Estate Society Annual Conference*, Bucharest, Romania. 24-28 June.
- Rial Lovera, K., Vijaya Bhaskar, A.V., Cannon, N.D. and Davies, W.P.** (2014). Influence of contrasting cultivation techniques on spring wheat performance. *Challenges for Crop Production & Quality: Annals of Applied Biology Centenary conference*. Rothamsted Research, Harpenden, Hertfordshire, UK. 9-10 December.
- Stephenson, B., **Hemmings, A.J. and Moore-Colyer, M.J.S.** (2014). The use of eye blink rate and changes in behaviour as potential early indicators of pituitary par intermedia dysfunction in the horse. *Proceedings of BSAS Annual Conference. Advances in Animal Biosciences: Science into Practice: Planning for Intensification*. Nottingham. April.
- Topolansky, F.**, Gonzalez Triay, M. and Cornelia, H. (2014). The competitiveness of the Uruguayan rural tourism sector and its potential to attract German tourists. *Proceedings of the 7th EuroMed Conference of the EuroMed Academy of Business*. Kristiansand, Norway. 18-19 September.

**Vijaya Bhaskar, A.V., Davies, W.P., Cannon, N.D. and Conway, J.S.** (2014). Cultivation technique influences on crop performance, weeds and economics for organic spring wheat production. *Challenges for Crop Production & Quality: Annals of Applied Biology Centenary conference*. Rothamsted Research, Harpenden, Hertfordshire, UK. 9-10 December.

## 4 Other Publications

**Collins, L.A.,** Murray, B., McCracken, K. and Stepek, M. (2014). Strong Governance: a result of evolutionary and revolutionary processes. *Journal of Family Business Management*. **4**(2).

**Collins, L.A.** (2014). Editorial. *Journal of Family Business Management*. **4**(1)  
<http://dx.doi.org/10.1108/JFBM-02-2014-0004>.

**Collins, L.A.** (2014). 'A new strategy for JFBM'. Editorial. *Journal of Family Business Management*. **4**(2).

**Conway, J.S.** (2014). Universities and the DSA Changes, what will the future be for SpLD students? *PATOSS Bulletin*. **27** (2) 31-33.

**Conway, J.S.** (2014). "Geotrail:Penmon / Geolwybr o Penmon." *Swn y Mor*. **15**, 16-17.

**Gaskell, C.J.** (2014). Bovine Tuberculosis: clarifying points of agreement and disagreement. *The Journal of the Foundation for Science and Technology*. **21** (4), 13-14.

**Hockey, J.** (2014). Valuation Certainty and Market Risk: a review. TEGoVA Guidance Note.

**Jadecivicius, A.** (2014). The Use of Combination Forecasting Approach and its Application to Regional Market Analysis. *REGION*, **1** (1), y1-y7.

**Jadecivicius, A. and Huston.S.** (2014). Cheltenham and Gloucester property market overview. <http://www.gloucestershireecho.co.uk/History-schools-reasons-Cheltenham-house-prices/story-21256263-detail/story.html>

**Jadecivicius, A. and Huston, S.** (2014). Cirencester property market overview. <http://www.rau.ac.uk/news/rau-report-gives-insight-into-cirencester-property-market>

**Manning, L.** (2014). Consumer and Corporate Social Responsibility in the food supply chain. *Food Science and Technology Journal*. IFST, **28** (1), 42-43.

**Moore-Colyer, M.J.S.** (2014). Weighing up the importance of feeding forage. *British Dressage*. Issue 8.

**Moore-Colyer, M.J.S.** (2014). Don't let your horse run out of steam this winter. *Horse and Hound*. 4 December.

Perkins, D. and **Grange I.** (2014). Annual Review of Butterflies on Miserden Park Butterfly Transect 2013. Newsletter. Butterfly Conservation Gloucestershire Branch.

## 5. Research Reports

**Manning, L., McKellar, D. and Wright, M.** (2014). Development of risk-based sampling guidance for Local Authority Enforcement Officers- Extension Work. Research report for the Food Standards Agency. (2012-2014).

**Manning, L. and Hamilton-Webb, A.** (2014). Sustainable procurement. Research report for the RSPB.

**Naylor, R.** (2014). Farmer compliance with bTB disease control measures. Social Research Fellowship Report to Defra.

Wright, M., **Manning, L.** and McKellar, D. (2014). Research to explore the current and historic trends in food sampling with particular reference to sampling and surveillance undertaken by Local Authorities and Port Health Authorities. Research report for the Food Standards Agency, (2013-2014).

Wright, M., **Manning, L.** and McKellar, D. (2014). Risk and impact of internet selling of food. Research report for the Food Standards Agency, (2014).

## 6. Consultancy Reports

**Chang, X.** et al. (2014). Agronomic Processes to optimize galanthamine content of daffodil biomass (AGROGAL). Interim report to BBSRC & DEFRA. January.

**Chang, X.** (2014). The Fifth AGROGAL BBSRC/DEFRA LINK Project Progress Report to BBSRC & DEFRA. February.

**Chang, X.** (2014). The Sixth AGROGAL BBSRC/DEFRA LINK Project Progress Report to BBSRC & DEFRA. November.

**Chang, X.** (2014). Daffodil Planting and Sampling Protocol 2015. For Agroceutical Products Ltd.

**Chang, X.** (2014). Protocols of Daffodil Fresh Sample Preparation and Alkaloid Extraction for GC-MS / HPLC Analysis. For Agroceutical Products Ltd.

**Chang, X.** (2014). Soil sampling protocol. For Agroceutical Products Ltd.

**Manning, L.** and **Hamilton-Webb, A.** (2014). Sustainable procurement. Research report for the RSPB.

**Manning, L.** and Ingledew, J. (2014). AGRI-net landscape document. Work in collaboration with Imperial College of Science, Technology and Medicine.

**Manning, L.** and Edwards, E. (2014). Integrated strategic review of supply chain standards. Research report for private contractor.

Marcouse, T., Radley, G., **Grange, I.** and Ehrwein, B. (2014). Experts' meeting of EU-China Communication Platform for Agricultural and Rural Environmental Protection Technology and Experience. 22 - 23 April 2014 Shunyi/ Beijing. EU – China Policy Dialogue Support Facility A25, Mission Report.

**Martin, H.** (2014). Exploration of composting techniques and testing of allelochemicals using beverage processing waste. For GCI Corporation. Interim report. December.

**Martin, H.** (2014). Project synopses and updates. For GCI Corporation. September.

**Martin, H.** (2014). The use of beverage waste as a growth medium. For GCI Corporation. Literature Review. August.

**Naylor, R., Manley, W.,** Maye, D., Ilbery, B., Enticott, G., Kirwan, J., Barber, W. and Whyatt Watts, J. (2014) Social science study to accompany the Badger Vaccine Deployment Project Media analysis of badger vaccination in the national, regional and farming press in England and Wales. Unpublished Report to Defra. July.

## 7. External Talks / Presentations

- Cannon, N.** (2014). Research on the University farms. BASE UK AGM, Stoneleigh, UK. 13 February.
- Cannon, N.** (2014). Research on the University farms. Warwick Farm Management Group. Weston Hall Farm, Weston Under Wetherley, Leamington Spa, UK. 24 April.
- Cannon, N.** (2014). Research on the University farms. Worshipful Company of Farmers Leadership Course at the RAU. 5 February.
- Gaskell, C.J.** (2014). "Endemic livestock disease – Policy and practice in cases such as Bovine Tuberculosis". Institute of Agricultural Management. 26 November.
- Hockey, J.** (2014). 'Qualification inflation, valuation practice and ethics - current issues'. European valuation conference, Oslo.
- Hopkins, D.W.** (2014). 'Putting the function back in to microbial ecology... don't forget what the organisms are actually doing'. Chinese Academy of Agricultural Sciences, Beijing, China. 26 September.
- Jadevicius, A.** (2014). Cirencester prices quarter higher than rest of the UK. WiltsAndGlos Standard. 15 May.
- Jadevicius, A.** (2014). Average house price in Cheltenham 66 per cent higher than in Gloucester. Gloucestershire Echo. 19 June.
- Jadevicius, A.** (2014). Adoption of Help to Buy limited, claim academics. WiltsAndGlos Standard. 16 October.
- Jadevicius, A.** (2014). Lithuanian housing market analysis: cycles and macro-determinants. Bank of Lithuania.
- Manning, L.** (2014). "Who drives change in a family farming business?" Farm Business Innovation Show, Olympia, London. 27 November.
- Manning, L.** (2014). "Water: a vital resource." Malvern Farming Conference, Three Counties Show Ground, Malvern, Worcestershire. 14 November.
- Manning, L.** (2014). "Water footprint." Society of Biology Event, University of Bristol, Bristol. 16 October.
- Manning, L.** (2014). "Water footprint." Researchers Café, Natural History Museum, London. 11 June.
- Manning, L.** (2014). "Knowledge Exchange." Science in Practice, NFU Conference, Birmingham. 25 February.

- Manning, L.** (2014). The United Brethren, Upton Bishop WI. Upton Bishop Herefordshire. 11 February.
- Manning, L.** (2014). Knowledge Exchange Science in Practice session, NFU Conference. 26 February.
- Mottram, T.T.** (2014). National Federation of Young Farmers Clubs Agriforum, Blackpool. 9-11 May.
- Mottram, T.T.** (2014). Precision Livestock Farming in Dairying. IAgRE meeting, Harper Adams, UK. 8-9 September.
- Mottram, T.T.** (2014). Global Forum for Innovations in Agriculture, Abu Dhabi. 3-5 February.
- Mottram, T.T.** (2014). Introduction to Agritechnology – Interview. BBC Farming Today. 9 June.
- Mottram, T.T.** (2014). Convening and Chairing Session Precision Livestock Farming, British Society of Animal Science Annual Meeting. Nottingham. 29-30 April.

### **Appendix 1.1 Current PhD Research Degree Projects**

<b>Student</b>	<b>PhD Study Area</b>	<b>Supervisors</b>	<b>Submission date</b>
<b>Munyeche, N.</b>	Improving market supply from smallholder producers in Zambia and South Africa	<b>R.N.Baines</b> <b>J.C.Turner</b> <b>W.P.Davies</b>	2015
<b>Axe, M.</b>	Carbon sequestration evaluation in UK farm hedgerows	<b>R.N.Baines</b> <b>I.Grange</b> <b>J.S.Conway</b>	2015
<b>He, Fan</b>	Social capital in China: Labour migration and use in the mining sector.	<b>K.K.Rajah</b> <b>J.C.Turner</b> <b>Y.Zhang</b>	2015
<b>Rial-Lovera, K.</b>	Sustainable conversion from organic to low input conventional farming	<b>N.Cannon</b> <b>W.P.Davies</b> <b>J.S.Conway</b>	2015
<b>Rahimzad, R.</b>	Financing of mega-urban regeneration projects in the UK, US and South Korea	<b>A.Parsa</b> <b>S.Huston</b>	2015
<b>Alo, A.</b>	Nigerian Smallholder Farmer Awareness of Climate Change and Attitudes to Climate Smart Farming	<b>J.S.Conway</b> <b>R.N.Baines</b> <b>N.Cannon</b>	2016
<b>Odueke, Oluwakemi B.</b>	Effects of non-thermal food pasteurization, packaging and storage on food safety and quality.	<b>R.N.Baines</b> <b>K.Farag</b>	2016
<b>Roberts, Kirsty</b>	Behavioural Probes of Equine Brain Function	<b>M.M.S.Moore-Colyer</b> <b>A.J.Hemmings</b>	2017
<b>Hamilton-Webb, Alice</b>	Farmers' experiences of flooding and attitudes towards climate change: A study in the county of Gloucestershire	<b>R.Naylor</b> <b>J.S.Conway</b> <b>L.Manning</b>	2017

<b>O'Connor, Niamh</b>	The role of current and future food systems in alleviating food poverty in urban areas- an inclusive food system model	<b>K.Farag R.N.Baines S.A.Chadd</b>	2017
<b>Curzon Sally</b>	Examining models of risk communication and disease management: the case of biosecurity measures on English dairy farms	<b>R.Naylor L.Manning</b>	2017
<b>Kamalongo, Donwell</b>	Wheat-bean intercropping	<b>N.Cannon W.P.Davies J.S.Conway</b>	2017
<b>McKenna, Patrick</b>	Investigation of red clover ( <i>Trifolium pratense</i> , L.) cultivars and landraces	<b>N.Cannon W.P.Davies J.S.Conway J.Dooley</b>	2017
<b>Li, Puying</b>	International competitiveness model to analyse and improve the international competitiveness of Chinese construction firms.	<b>A.Parsa S.Huston A.Jadevicius</b>	2017
<b>Ghasemi, Sarah</b>	Development of anti-microbial coatings to control foodborne pathogens on poultry products	<b>K.Farag R.N.Baines</b>	2017
<b>Labash, Ebraheim</b>	UAE residential valuation systems, audit, investigation and future pathways	<b>A.Parsa S.Huston A.Jadevicius</b>	2017
<b>Edwards, Emily</b>	Mapping TB susceptibility alongside host immune status using the HIR technology	<b>S.A.Chadd R.Foy</b>	2017
<b>Jellason, Patrick</b>	Environmental challenges and linkages to small scale farmers in Sub-Saharan Africa; implications for food security	<b>R.N.Baines J.S.Conway</b>	2017

<b>Sennuga, Samson</b>	Use of ICT amongst extension workers and farmers and its relevance to sustainable development in Nigeria	<b>R.N.Baines J.S.Conway</b>	2017
<b>Taylor, Karen</b>	The genetic and environmental determinants of crib-biting behaviour in the horse	<b>M.J.S.Moore- Colyer A.J.Hemmings</b>	2017

### ***Appendix 1.2 Current MSc by Research Degree Projects***

<b>Student</b>	<b>Study Area</b>	<b>Supervisors</b>	<b>Submission date</b>
<b>Ledingham, B.</b>	Farming Solar Energy: A Useful Contribution to Mitigating Climate Change? An Analysis of Solar PV in GB Agriculture	<b>A.Parsa</b>	Submitted August 2014

### ***Appendix 1.3 PhD Research Degrees Awarded by Coventry University***

<b>Student</b>	<b>PhD Study Area</b>	<b>Supervisors</b>	<b>Submission date and university</b>
<b>Moyo, H.</b>	Strategies for soil-fertility building through improved legume cropping	<b>W.P.Davies N.Cannon J.S.Conway</b>	Awarded 2014
<b>Vijaya Bhaskar, A.V.</b>	Bi-cropping and green manuring to reduce tillage, suppress weeds and improve soil organic matter when grown in an arable rotation	<b>W.P.Davies N.Cannon J.S.Conway</b>	Awarded 2014
<b>Burbi, S.</b>	Greenhouse gas (GHG) mitigation at farm level	<b>R.N.Baines J.S.Conway</b>	Awarded 2014

**Appendix 1.4 MSc by Research Degrees Awarded by Coventry University**

<b>Student</b>	<b>PhD Study Area</b>	<b>Supervisors</b>	<b>Submission date and university</b>
<b>Roberts, K.</b>	Behavioural and genetic probes of altered brain function in horses performing stereotypic behaviour	<b>A.J.Hemmings</b>	To be awarded 2015

## Appendix 1.5 Current Postdoctoral Fellows at RAU

<b>Postdoc</b>	<b>From</b>	<b>Study</b>	<b>Co-workers</b>	<b>Duration</b>
Dr Ivy Wu	Shandong Agricultural University (SDAU) PR China	Food Safety in China	Jonathan Turner Paul Davies	2013/14
Dr. Rosmiza Mohd Zainol	Universiti Kebangsaan Malaysia (UKM) Malaysia	Utilisation of Rice Crop Straw in Asia	Paul Davies	2014/15
Dr Negin Minaei	Islamic Azad University (IAU) Iran	Building Ergonomics and Architecture Design	Ali Parsa	2013/15