THE BRITISH GRASSLAND SOCIETY

11\textsuperscript{th} Research Conference
Science and Practice for Grass-Based Systems

2\textsuperscript{nd} – 3\textsuperscript{rd} September 2013

SRUC, Easterbrook Hall, Crichton Campus, Dumfries, Scotland
Monday 2nd September 2013

09:30  Registration
10:30  Welcome and introductions

Session 1  Theatre papers ‘Climate Change and Environment’

10:30  Paper 1.1
Grassland soil compaction enhancing nitrous oxide emissions - P.R. Hargreaves, B.C. Ball and D.J. Roberts

10:45  Paper 1.2

11:00  Paper 1.3
Grassland responses to simulated Climate Changes - M. Lee, P. Manning and S.A. Power

11:15  Paper 1.4
The impact of livestock grazing season and nitrification inhibitors on emissions of N2O from dung and urine - M.J. Bell, R. Rees, A. Bagnall, J. Parker and J. Clow

Session 2  Group forum

13:00  Lunch

Session 3  Theatre papers ‘Soil Management and Plant Nutrients’

14:00  Paper 3.1
C:N:P stoichiometry of the soil microbial biomass in a grazed grassland site under experimental P limitation or excess - B.S. Griffiths, M. Bonkowski, A. Spilles and X. Chen

14:15  Paper 3.2
The effect of chicory, perennial ryegrass, red clover or white clover on the soil physical properties - R. Fychan, M.B. Scott, J.W. Davies, R. Sanderson, J. Scullion, F.V Crotty and C.L. Marley

14:30  Paper 3.3
Comparison of ammonia measurement techniques for multi-plot nutrient studies - C. Hunter, A. Bagnall, K. Helwig, C.A. Henry, O. Pahl and D.J. Roberts
14:45  Paper 3.4  
Application of a nitrogen stabiliser with farmyard manure or slurry to improve nitrogen efficiency and reduce environmental losses – **D. Roberts and A.D. Bailey**

15:00  Paper 3.5  
Slurry separation, shallow injection and herbage growth - **C.A. Henry, B.L. Wood and D.J. Roberts**

15.15  Paper 3.6  
Evaluation of digestate as a fertiliser for grass production - **S.R. Gilkinson and J.P. Frost**

15.30  Poster introductions  

15.45  Coffee  

Session 4  
16.00  Peter Penning Memorial Lecture on ‘Herbivore-parasite interactions; from grazing choices to disease dynamics’ - **M.R. Hutchings**, SRUC

17.00  Posters

19.00  Dinner

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**Tuesday 3rd September 2013**

07.30  Breakfast

Session 5  
09:00  Workshop Sessions  
Workshop B: Soil and Grass Assessments – **P. Hargreaves and G. Tiley**. Facilitated by G. Fisher.  
Workshop C: Communicating using Social Media – **S. McMichael and H. Wildman**. Facilitated by L. Davison.

11.00  Coffee

Session 6  
11.15  Paper 6.1  
Planning and managing resources use on grassland farms - **A. Butler**

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<thead>
<tr>
<th>Time</th>
<th>Paper 6.2</th>
<th>The effect of silage quality on land required for home-grown feeds dairy system – <strong>D.J. Roberts and J.F. Flockhart</strong></th>
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<tbody>
<tr>
<td>11.30</td>
<td>Paper 6.3</td>
<td>Cow performance associated with four contrasting grassland based systems of milk production over three successive lactations - <strong>C. Ferris, D. Doody, R. Loughlin and C. Watson</strong></td>
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<td>11.45</td>
<td>Paper 6.4</td>
<td>A comparison of two breed types within either an indoor or an outdoor lambing system – Effect on lamb performance - <strong>C.L. Marley, H. Jones, T. Evans and V.J. Theobald</strong></td>
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<td>12.00</td>
<td>Paper 6.5</td>
<td>Managing ewe and grassland type to achieve target rearing percentage - <strong>H.M. McCalman, H.G. Powell and C.L. Marley</strong></td>
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<td>12.15</td>
<td>Paper 6.6</td>
<td>Is the Ranking Of Perennial Ryegrass Varieties Nutritive Value At Individual Cuts Representative Of The Mean Annual Ranking? - <strong>G.A. Burns, P. O’Kiely, D. Grogans, P. Conaghan, and T.J. Gilliland</strong></td>
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<td>12.45</td>
<td>AWARDS and Closing remarks</td>
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<td>13:00</td>
<td>Lunch</td>
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<td>14:00</td>
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