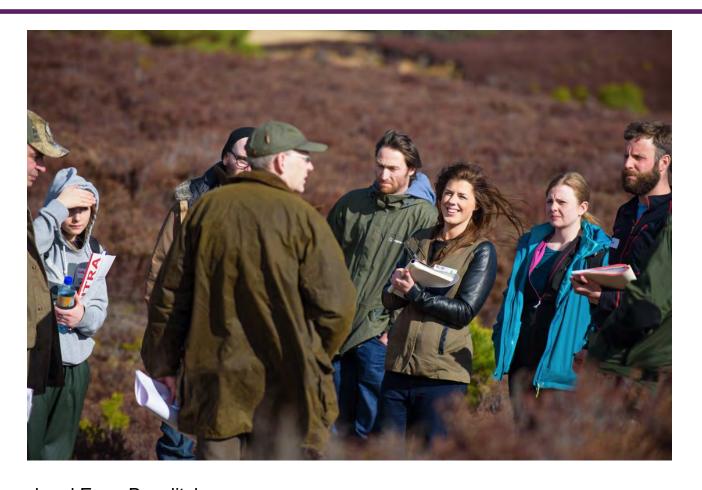
Land Managers of the Future Engaging Student Perception and Practice through an Interdisciplinary Landscape Conference



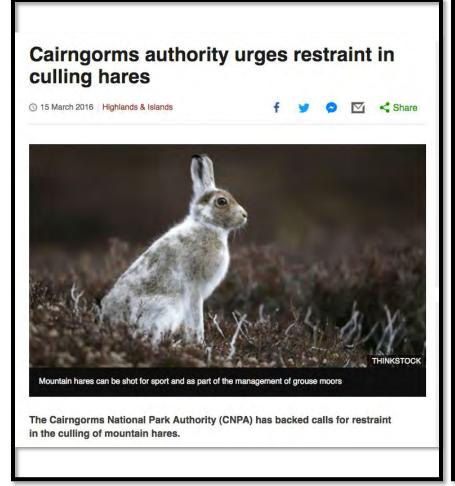
Su Engstrand and Euan Bowditch
All conference images courtesy of Tim Meredith and Pete Moore



Scotland's land: who benefits?



Conflicts can and do arise



Scottish gamekeepers and mountaineers oppose tree-planting plan

Two groups unite to oppose proposal to plant thousands of trees saying it could threaten the country's 'dramatic open views and vistas'



 $\emptyset \ \ \ The two groups campaign for the protection of Scotland's iconic landscapes. Photograph: Stuart Sly/Getty Images/EyeEm$

Getting the best from our land. A Land Use Strategy for Scotland 20162021



- 'Direction of travel towards a more integrated and strategic approach to land use'
- 'Multiple use, multiple benefits'... the common good!
- What is the common good?



UHI land based programmes

Are we developing the right skills?

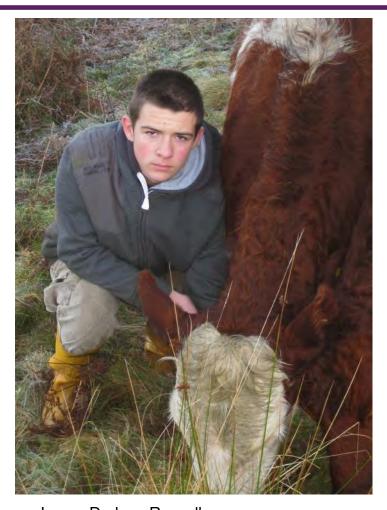


Image Darlene Russell

- Agriculture
- Arboriculture
- Environmental Science
- Equine Studies
- Forestry
- Gamekeeping and Wildlife Management
- Geography
- Horticulture
- Marine Science
- Sustainable Rural/ Mountain Development



"Foresters think like foresters, keepers think like keepers... we need to bring them together at an early stage." Stewart Blair







UHI land based programmes

Are we developing the right skills?

- √ Specialist expertise
- ✓ Broad understanding of interdependencies
- ✓ Understanding of different perspectives, values, ethics
- ✓ Empathy
- ✓ Communication with range of audiences
- √ Negotiation skills





To develop students skills through mixed groups of peers and professionals for integrated approach to land use



Our focus

- Integrated approach
- Horizontal and vertical learning
- Employer-led
- Current and relevant
- Employability skills



Integrated Land Use Conference 2012-2017 Scope

- 8 contributing partners
- 50-60 undergraduate students
- 8 research postgraduates as group facilitators
- 20-30 UHI staff and sector professionals
- 5-10% external students
- Expanding to include students from international institutions

















Format

Location: Kinveachy Estate

Mixed disciplinary groups of 10 students

Day 1

- Field presentations Two professionals paired to demonstrate different perspectives
- Active learning interactivity
- Students as experts take information back to group





Day 2.

- Conference presentations: Industry demonstrate integrated approaches
- 2. Workshops: Problem based tasks and learning, which are open ended, complex issues rife with uncertainty (real world)
- 3. Postgraduate research students: Participatory training techniques then employed at the conference
- 4. Group presentations: Prizes and formative feedback from industry professionals





Our focus

- Integrated approach
 - Developed by staff and sector
 - Mixed groups, collaborative and negotiative learning
- Horizontal and vertical learning
 - SCQF 6-12
 - RTL (and TRL)

- Employer-led
 - Steering group
- Current and relevant
 - Annual theme
- Employability skills
 - Professionalism,
 leadership, confidence,
 exposure to wider context
 and field skills
- Legacy
 - Creating a useful online interactive resource



Multidisciplinary Interdisciplinary learning Transdisciplinary learning

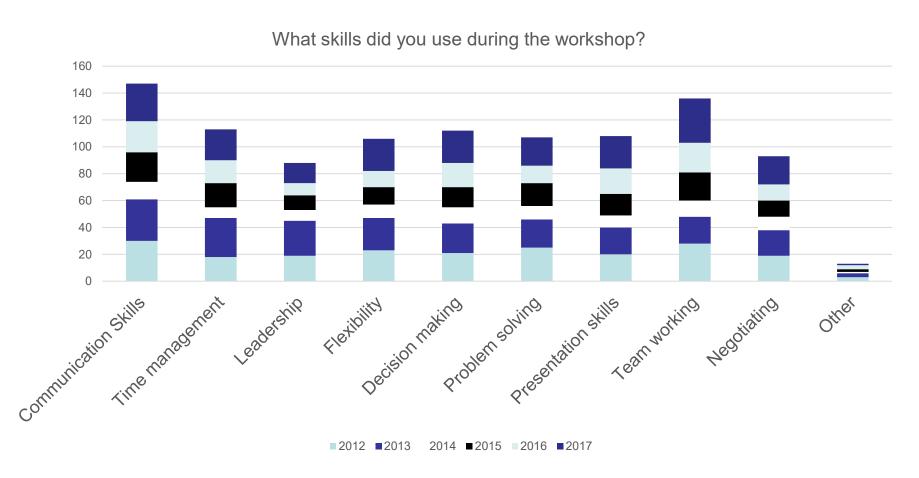
Integrated sector led education



"Interdisciplinary learning is the capacity to integrate knowledge and modes of thinking in two or more disciplines...to produce a cognitive advancement... in ways that would have been impossible or unlikley through single disciplinary means" Boix-Mansilla et al (2000).



Evaluation: employability skills





What did you particularly like about the conference and why?

- "Great to mix with other students"
- "Definitely opened up my eyes to priorities and concerns of other sectors"
- "It opened up new ways of thinking across industry sectors"
- "I can see more links and effects of land use and my course"
- "Field talks were great, get hands dirty, a little cold at times"
- "External speaker input, providing different views on the same topic"





Please tell us what you learned about land management during the course of the conference.

- "Too much to write"
- "That it needs an integrated approach and all stakeholders need to be included"
- "How open most landowners are to change and sustainability"
- "The huge importance that stakeholder engagement plays across all organisations and presents those organisations with opportunities work together to improve conditions in catchments"





Have any of your attitudes changed during the course of this conference? If so please tell us how.

- "I realised that although forestry is a large/busy industry, there are a lot more industries out there that we should interact with..."
- "Really awesome to hear different priorities, shall now consider when planning"
- "I hadn't realised how much the different authorities and NGO's work together and how they also have to deal with conflicting interests amongst themselves"





Have your thoughts about your future career changed during the conference? If so, please say how.

- "Would be more inclined to do estate work or work with SEPA"
- "Made me think about career options that I had never thought about before"
- "There are more options available than previously thought, more routes to take into employment"
- "No but have appreciated all contributions for all organisations involved and this has probably broadened my horizons in terms of what organisations I would investigate for job opportunities"





Ongoing challenges

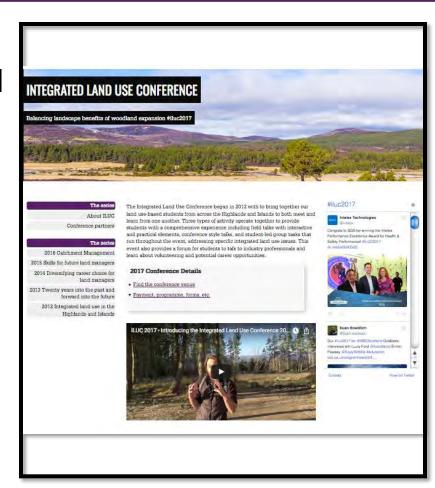
- Extensive subject matter
- Student engagement across UHI between disciplines
- Diversity of presenters
- Education accreditation
- Sustainability (£6-9000)— rolling budgets
- Conflicting schedule with other field trips and courses
- UHI student presentation standards





Benefit to UHI

- Student skills
- Staff and student professional networks
- UHI profile
- Legacy resources
- Researchers into teaching
- Pedagogic research
- PGR training
- Development of research proposals
- Informal student exchanges



The Future

- Extend to 2.5 days
- Increased partnership
- Increased outcomes
- Paper Landscape Didactics conference Switzerland
- Developing online educational materials and forum
- Land Use professional summer school at Mar Lodge
- Accredited module
- International scope: students, institutions and issues





The Challenge for UHI

Can the model be applied to other disciplines and different learning environments?



Image: U.S. Air Force photo/Ilka Cole



Australian Aid Photolibrary

Thank you to all ILUC contributors and thank you for listening

