



## CURRICULUM VITAE

JENNI ROCHE

B.A. Mod., Dip. EIA Mgmt., Dip. Stat., Ph.D., MCIEEM

### EDUCATION

- 2005 – 2009 Ph.D., Department of Botany, Trinity College Dublin  
The vegetation ecology and native status of Scots pine (*Pinus sylvestris* L.) in Ireland.
- 2006 – 2007 Postgraduate Diploma in Statistics, University of Dublin, Trinity College
- 2004 Diploma in Environmental Impact Assessment Management, University College Dublin
- 1999 – 2003 B.A. Mod. (1<sup>st</sup> Class Honours) Environmental Science, Trinity College Dublin  
Thesis Title: An investigation of the effects of turf cutting by hand on the vegetation of lowland blanket bog in Connemara National Park

### CAREER HISTORY

- Senior Ecologist, BEC Consultants** Nov 2014 - present (full-time)
- Consultant Ecologist, BEC Consultants** Mar 2010 - October 2014 (full-time)
- Assistant Ecologist, BEC Consultants** Apr 2009 - Mar 2010 (full-time)

Since joining BEC Consultants in 2009, I have worked on a wide range of projects, primarily the National Survey of Upland Habitats. I currently provide scientific support to the National Parks & Wildlife Service (NPWS) in relation to blanket bogs. I am an experienced field botanist and data analyst with specialist knowledge of peatland, upland and woodland habitats and expertise in vegetation classification, vegetation dynamics and conservation assessment of Annex I habitats. A selection of projects I have worked on is listed below:

- *Scientific Assistant for Support Work on Blanket Bogs (NPWS)*: Lead Ecologist/Project Manager. This role involves providing scientific support for NPWS activities relating to blanket bogs.
- *National Survey of Upland Habitats (NPWS)*: Consultant Ecologist/Personnel & Logistics Officer. Responsible for recruiting field survey teams, organising personnel and arranging field bases. Duties in the field included leading and training field survey teams, vegetation mapping, relevé recording and structure and functions assessment of Annex I habitats. Participated in survey of 16 SACs. Duties in the office included identification of lichen specimens, data analysis, conservation status assessment of Annex I habitats at each site and report writing. Contributed to development of the methodology, delivered conference presentations and participated in policy submissions.
- *National Conservation Assessment of Annex I Habitats (NPWS)*: Consultant Ecologist. Responsible for collation and assessment of structure and functions and pressures and threats data. Participated in collation of range data. Contributed to writing backing documents and authored National Conservation Objectives for several upland and peatland Annex I habitats.
- *Review of Action Plan Status in STRIVE Report No. 75 BOGLAND: Sustainable Management of Peatlands in Ireland (Environmental Protection Agency & NPWS)*: Consultant Ecologist. As part of the National Platform for Biodiversity Research, I completed a review of progress towards the implementation of the actions recommended in the above report.
- *Identification of Areas Suitable for Afforestation (Teagasc)*: Lead Ecologist/Project Manager. Provided guidance on plant species identification and habitat classification. Conducted aerial photo interpretation and relevé recording. Co-authored a field guide to upland and grassland plants.
- *Athlone to Mullingar Cycleway Habitat Survey (Roughan & O'Donovan)*: Lead Ecologist. Duties included planning fieldwork, habitat mapping, relevé recording and conservation assessment of Annex I habitats. Prepared a habitat map and authored the project report.

- I have also conducted fieldwork and/or GIS mapping for the following projects: Irish Semi-natural Grassland Survey, EU Annex I Woodland Habitat Monitoring, Ancient and Long-established Woodlands of Co. Cork, Marsh Fritillary Survey of Louth, Meath and Monaghan.

**Ecological Consultant** Aug 2006 - Oct 2008 (freelance, part-time)

- “*New Sites - New Fields*” Exhibition (Leitrim Sculpture Centre): Habitat surveys and relevé recording in Manorhamilton, Co. Leitrim, in collaboration with the artist Andrew Dodds.
- *Limerick Tunnel Rare Plant Translocation Project (BEC Consultants)*: Translocation and monitoring of Meadow Barley (*Hordeum secalinum*) to mitigate the impacts of development.

**Demonstrator, University of Dublin, Trinity College** Jan 2006 - Oct 2009 (part-time)

Teaching field, laboratory and statistical techniques to undergraduate students of Biology and Botany.

**Assistant Ecologist, BEC Consultants** June 2004 - Oct 2005 (full-time)

I worked primarily on the National Survey of Native Woodlands. My duties included site selection, landowner liaison, relevé and structural data recording, soil sampling and analysis, bryophyte identification, data entry, data analysis and report writing. I also contributed to a Study of the Flora and Fauna of Dunderry, Co. Meath, Study of the Royal Canal Vascular Plant Flora, Rare Vascular Plant Records Database and Ecological Impact Assessment of the Balgriffin Bypass.

**Guide/Information Officer, National Botanic Gardens** Apr - June 2004 (full-time)

Leading guided walks and providing environmental education and visitor information to the public.

**Researcher, National Parks & Wildlife Service, Burren National Park** June - Sept 2003 (full-time)

Student bursary involving vegetation surveys of grassland, scrub and limestone pavement, data entry, data analysis, report writing and accompanying conservation officers on site monitoring duties.

**Researcher, Dúchas, Connemara National Park** June - Sept 2002 (full-time)

Student bursary involving field research for B.A. Mod. Thesis and leading guided walks.

**Researcher, Environmental Protection Agency, Integrated Pollution Prevention and Control Division** June - Sept 2001 (full-time)

Student placement involving data entry, data analysis and report writing. Attended site inspections.

## SKILLS

- Experienced field ecologist with excellent habitat mapping and species identification skills, particularly vascular plants, bryophytes and lichens
- Full driving license and own vehicle
- Highly experienced user of Microsoft Office, ArcGIS, Turboveg and data analysis software such as PC-ORD, DataDesk and SPSS
- Experienced in writing reports, articles and peer-reviewed scientific publications
- Proficient public speaker, having delivered guided walks, workshops, lectures, seminars and oral and poster presentations at national and international conferences

## TRAINING

- Analysis of phytosociological data using the JUICE program, International Association for Vegetation Science, Masaryk University, Czech Republic
- Lichen Identification, Field Studies Council, Kindrogan, Scottish Highlands
- Lichen Identification, LichenIreland
- Mountain Skills 1 & 2, Footfalls
- Occupational First Aid, St John Ambulance Brigade
- Recording high impact invasive species, National Biodiversity Data Centre

- Restoration of peat forming vegetation, Irish Peatland Conservation Council
- Safe Pass, Safecon
- *Sphagnum* Identification, Denyer Ecology

#### ADDITIONAL INFORMATION

- Member of the Chartered Institute of Ecology and Environmental Management, British Lichen Society and Quaternary Research Association
- Member of the Irish National Platform for Biodiversity Research working group on uplands, peatlands and wetlands
- Member of the Mountaineering Ireland consultation group on future national upland rural development measures
- Chairperson of the Organising Committee of the Postgraduate Ecology Forum 2008
- Reviewer of textbooks for Taylor & Francis and Routledge
- Grants, awards and scholarships: Quaternary Research Fund Grant; Irish Quaternary Association Postgraduate Prize (2010); BES Student Conference Grant (2008); Environmental Sciences Association of Ireland Photography Competition Winner; Prof. D.A. Webb Memorial Travel Scholarship, BES Meeting Sponsorship (2007); Trinity Trust Travel Grant (2006, 2008); Irish Research Council for Science, Engineering and Technology Postgraduate Scholarship (2005); Trinity College Entrance Exhibition (1999)

#### SELECTED REPORTS & PUBLICATIONS

- Hodd, R.L. & **Roche, J.R.** *Diphasiastrum alpinum* (L.) Holub (Alpine Clubmoss) rediscovered in Co. Kerry (H1). *Irish Naturalists' Journal* (in press).
- Muldoon, C., Hodd, R., Douglas, C., Lockhart, N. & **Roche, J.** New county record for *Saxifraga hirculus* (Marsh Saxifrage), Sligo. *Irish Naturalists' Journal* **33** (2) 130-131.
- Perrin, P.M., Barron, S.J., **Roche, J.R.** & O'Hanrahan, B. (2014) Guidelines for a national survey and conservation assessment of upland vegetation and habitats in Ireland. Version 2.0. Irish Wildlife Manuals, No. 48. National Parks & Wildlife Service, Dublin.
- Perrin, P.M., Martin, J.R., Barron, S.J. & **Roche, J.R.** (2006) A cluster analysis approach to classifying Irish native woodlands. *Biology and Environment: Proceedings of the Royal Irish Academy* **106B** (3) 261-275.
- Perrin, P.M., **Roche, J.R.**, Daly, O.H. & Douglas, C. (2011) The National Survey of Upland Habitats. In: Ó hUallacháin, D. & Finn, J. (eds.) Teagasc Biodiversity Conference Proceedings. Conserving Farmland Biodiversity: Lessons Learned & Future Prospects. pp. 88-89. Teagasc, Carlow.
- Roche, J.** & Scally, L. (2014) BOGLAND Action Plan Review. Report prepared for the Environmental Protection Agency and National Parks & Wildlife Service, Dublin.
- Roche, J.** (2013) The Scots pines of The Scalp. *Woodland Summer 2013* 17-19.
- Roche, J.R.** & Perrin, P.M. (2010) A new county record for alpine clubmoss (*Diphasiastrum alpinum*) from the Comeragh Mountains, Co. Waterford (H6). *Irish Naturalists' Journal* **31** (2) 149-150.
- Roche, J.R.** (2011) New records for *Diphasiastrum alpinum* L. (Holub) and their implications for the species' conservation status in Ireland. *Irish Botanical News* **No. 21** 16-20.
- Roche, J.R.**, Mitchell, F.J.G. & Waldren, S. (2009) Plant community ecology of *Pinus sylvestris*, an extirpated species reintroduced to Ireland. *Biodiversity and Conservation* **18** (8) 2185-2203.
- Roche, J.R.**, Perrin, P.M. Barron, S.J. & Daly O.H. (2014) National Survey of Upland Habitats Site Report No. 1: Mweelrea, Sheeffry, Erriff Complex cSAC (001932), Co. Mayo. National Parks & Wildlife Service, Dublin.