



CURRICULUM VITAE

Louise Scally Ph.D., M.Sc., Dip., Cert.

EDUCATION

Ph.D (Molecular and morphological systematics) 2001
Title: Morphological and molecular systematics of the genus *Miscanthus* L.
Department of Botany, Trinity College, Dublin 2

Certificate in taxonomy and systematics. 1994.
Department of Zoology, University of Amsterdam, the Netherlands

M.Sc (Plant ecology and systematics) 1989.
Title: Chemical, cytological and morphological analysis of *Saxifraga spathularis*, *S. hirsuta* and their hybrid
Department of Botany, Trinity College, Dublin 2

Diploma in Applied Biology 1984.
Dublin Institute of Technology, Kevin St. Dublin 8

CAREER HISTORY

1986-1989: Department of Botany, Trinity College, Dublin 2
Position: Research Assistant
Researching chemical, morphological and cytological techniques to examine the hybridisation and ecology of two species of native Irish plants (*Saxifraga spathularis* and *S. hirsuta*) and their hybrid. Preparation of M.Sc. thesis

June 1990-Dec 1990: National Parks and Wildlife, Department of the Environment, Heritage and Local Government.
Habitat assessment of the peatlands of Co. Donegal, Ireland. Working as part of a research team. Extensive mapping, field surveys, identification of higher plants, mosses and lichens associated with peat land ecosystems. Culminating in a report outlining sensitive areas of surveyed peat lands and recommendations as to areas in need of further protection and investigation.

1991-1996 & 2001-2004: Centre for the Environment, Trinity College, Dublin 2
Position: Senior Technician
Teaching and assisting postgraduate research students in the use of laboratory analytical methods for the analysis of water and ecological materials and assisting with student field work. The laboratory at the Centre for the Environment is primarily concerned with the analysis of freshwaters, marine sediments and soils for nutrients, heavy metals and cation analysis. It also specialises in air pollution monitoring and wastewater systems. I have considerable experience in all of these areas and with the instrumentation required for the analysis of such samples. This includes Ion Chromatography, Atomic Absorption Spectrophotometry, Flow injection Analysis, Auto Analysis, Total Organic Carbon Analysis, Colorimetry and Elemental analysis (CNS). I was responsible for all analysis carried out at the laboratory including quality control and health and safety.

1996-2000: Department of Botany Trinity College, Dublin (Part time)
Position: Research Assistant
Researching the morphological and molecular systematics of the grass genus *Miscanthus*, as an aid to the utilisation of this species for biomass production in temperate climates. Molecular research included the setting up of a molecular analysis facility at the Department

of Botany, Trinity College. Analysis included Restriction Fragment Length Polymorphism (RFLP) analysis, Random Amplified Fragment Length Polymorphism (RAPD) analysis, Amplified Fragment Length Polymorphism (AFLP) Analysis and DNA sequencing. Field trials for Biomass production estimates were conducted using different genotypes, nutrients and light regimes. Statistical analysis of data yielded from the above analysis included the use of a number of Multivariate statistical analysis packages. Preparation of Ph.D. thesis.

September 2003-July 2004: National Parks and Wildlife, Department of the Environment, Heritage and Local Government.

To fulfill their obligations to the EU Habitats directive the above department is currently preparing management plans for areas designated as candidate Special Areas of Conservation (cSAC). I have been employed on two 3 month contracts to prepare four such plans for marine cSAC's

June 2004-September 2005: National Parks and Wildlife, Department of the Environment, Heritage and Local Government.

Development and population of a database related to Site Inventory and Reporting of Irish Special Areas of Conservation and Special Protection Areas and the design of a second database for the recording and querying of peat land and coastal survey work for the above department.

April 2003-August 2005: BEC Consultants Ltd. 26 Fitzwilliam St. Upper Dublin 2.

Project Manager for the National Platform for Biodiversity Research. This is a forum set up under the auspices of the Environmental Protection Agency and the National Parks and Wildlife Service. This forum aims to identify biodiversity research needs in Ireland and use this information to fulfill Ireland's legal obligation to implement the Convention on Biodiversity, as ratified by Ireland at the Rio de Janeiro summit meeting in 1992.

July 2004-October 2004 and June 2005: BEC Consultants Ltd. 26 Fitzwilliam St. Upper Dublin 2.

I was employed as a field based botanist by BEC Consultants Ltd. to carry out a field survey of Native Irish Woodlands. This survey examined the structural, relational and floristic composition of native Irish woodlands.

July-October 2005/2006/2007: MERC Consultants/National Parks and Wildlife, Department of the Environment, Heritage and Local Government/

I was employed on contract to survey, map and photograph areas of maërl, sea grass beds and other sensitive subtidal communities within selected SAC's off Irish coast.

June-August 2005: Ulster Museum, Environment and Heritage Service of N. Ireland.

Survey and photography of deep water sponge species off Rathlin Island, N. Ireland.

October-January 2006: Environment and Heritage Service of Northern Ireland/ MERC Consultants.

Survey, mapping and photography of maërl beds off the east Antrim coast of Northern Ireland.

January 2006-Present: BEC Consultants Ltd. 26 Fitzwilliam St. Upper Dublin 2.

Project manager for the Irish BioChange Project. This is a 1.6 million euro project funded by the Environmental Protection Agency. The project "Biodiversity and Environmental Change" is an integrated study encompassing a range of scales, taxa and habitats of biodiversity value centered within the Burren and the Aran Islands in west Clare and Galway.

June-October 2006/2007: Local authorities/ MERC Consultants

Design and construction of databases to hold information on biological datasets for Counties Cork, Kerry, Cavan, Meath, Roscommon, Monaghan and West Meath and the sourcing of data related to the natural heritage of these counties.

January 2006-Present: BEC Consultants Ltd. 26 Fitzwilliam St. Upper Dublin 2.

Irish representative for the EU BioStrat project. This is a thematic project designed to support National Biodiversity Platforms and to provide advice and support on biodiversity research needs to the European Platform for Biodiversity Research Strategy (EPBRS)

SKILLS & ADDITIONAL INFORMATION

- Full driving licence
- Professional scuba diving certification to HSE Part IV.
- Qualified Royal Yachting Association (RYA) Advanced Power boat handler.
- Current short-range/GMDSS Module 1 radio licence held.
- Qualified and current in First Aid (Red Cross) and Emergency Rescue Management.
- HSE First Aid at work qualification.
- Extensive report writing experience
- Experienced database designer and developer (Microsoft Access).
- Experienced under water digital SLR and videographic photographer.

PUBLICATIONS

Scally, L. Waldren, S. Hodkinson, T.R and Jones M.B. (2000). Morphological and Molecular Systematics of the genus *Miscanthus*. *Aspects of Applied Biology. Biomass and energy crops* II. (65) 321-237.

Scally, L. and Jones, M.B. (2000). Origins and taxonomy of *Miscanthus* **in:** *Miscanthus for Energy and Fibre* (Eds. Jones, M.B. & Walsh, M.) James and James, London.

Waldren, S and **Scally L.** (1993). Ecological factors controlling the distribution of *Saxifraga spathularis* Brot. and *S. hirsuta* L. in Ireland. In: M.J. Costello and K.S. Kelly (eds) *Biogeography of Ireland: past, present and future*. Occasional publication of the Irish Biogeographical Society.

Young, J., Bolger, T., Tinch, R., **Scally, L.** and Watt, A.D. (eds). 2004. *Sustaining livelihoods and biodiversity- attaining the 2010 target in the European Biodiversity Strategy*, Report of an electronic conference.

The following reports:

Report on the EPBRS meeting held under the Irish Presidency of the EU. (2004).

Framework for a Biodiversity Research Strategy for Ireland (2005)

Management Plan for Kilkieran Bay and Islands cSAC

Management Plan for Kingstown cSAC

Management Plan for Wicklow reef cSAC

Management Plan for Hook head cSAC