

This programme is brought to you with the support of the Department of Culture, Heritage and the Gaeltacht; the Heritage Council; National Parks and Wildlife Service; Botanical Society of Britain and Ireland; the Ellen Hutchins Festival, the Irish Ramsar Wetland's Committee, the Environmental Protection Agency, Birdwatch Ireland and Bord na Móna.

Workshop fees

Professional workshops:	€50
Standard workshops:	€30
Student participants:	€20

Book online at:

www.biodiversityireland.ie/events/ or contact info@biodiversityireland.ie for further information.

NB: Booking fees are non-transferable and non-refundable

**The National Biodiversity Data Centre,
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Department of
Culture, Heritage and the Gaeltacht

Photos generously provided by:

Paul Whelan, Joanne Denyer, Paul Green, Tomás Murray, Liam Lysaght and Andrew Malcolm.

National Biodiversity Data Centre
Documenting Ireland's Wildlife

The National Biodiversity Data Centre is an initiative of the Heritage Council and is operated under a service level agreement by Compass Informatics. The Centre is funded by the Department of Culture, Heritage and the Gaeltacht.

OTHER EVENTS

Please book the events below online at: www.biodiversityireland.ie/events or contact info@biodiversityireland.ie for more information.

Save the date - 18th October 2018!

To coincide with the 25th meeting of the Governing Board of the Global Biodiversity Information Facility (GBIF) being held in Kilkenny in October 2018, the National Biodiversity Data Centre is delighted to be hosting a public symposium on:

Biodiversity loss in a changing world: local data, global action

Invited international speakers include:

- **Donald Hobern**, of the Global Biodiversity Information Facility, Denmark
- **Thomas M. Orrell** of the Smithsonian Institute in Washington, U.S.A.
- **Eugenio Gervasini** of the European Commission Joint Research Centre in Varese, Italy
- **Jeffrey Manuel** of the South African National Biodiversity Institute (SANBI), South Africa

The full programme, due to be released in the near future, will also include speakers from Ireland, talking about the work they are doing to support biodiversity research and implement biodiversity policy.

Where: Kilkenny Ormonde Hotel
Time: 09:15hrs – 17:15hrs
Fee: €20.00

Technical Workshop - 19th & 20th October 2018

Interested participants are welcome to a two-day technical workshop on:

Biodiversity informatics and species distribution modelling

Through R, this hands-on two-day course will cover best practice approaches to utilising biodiversity data and species distribution modelling.

Where: Kilkenny Ormonde Hotel
Time: 09:30hrs – 17:30hrs (each day)
Fee: €100.00

National Biodiversity Data Centre
Documenting Ireland's Wildlife

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GBIF
www.gbif.org
Ireland's National Node

Ireland's National Node

IDENTIFYING & RECORDING Ireland's Biodiversity



Autumn Workshop Programme 2018

One of the National Biodiversity Data Centre's main objectives is to strengthen the recording base of Ireland, and thereby increase the quantity and quality of biodiversity data generated across the island of Ireland. In partnership with a diverse range of public and private bodies, and various NGOs, this Autumn's workshop programme brings with it a selection of 8 workshops to choose from spanning a suite of interesting and engaging topics.

National Biodiversity Data Centre
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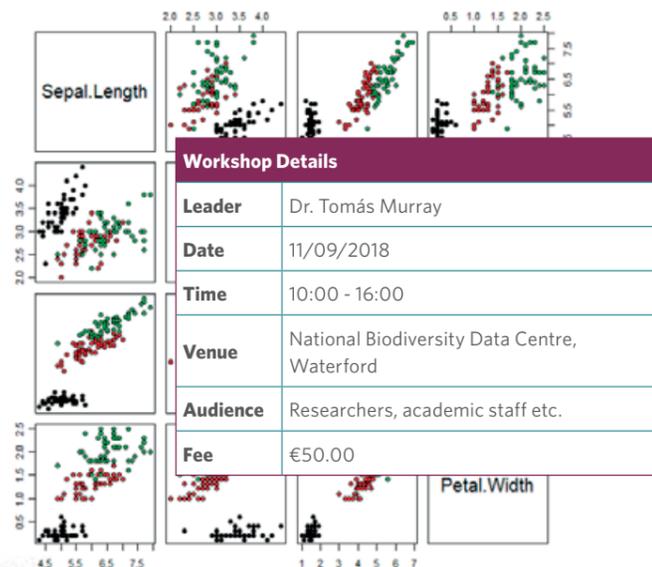
AUTUMN 2018 WORKSHOP PROGRAMME

Workshop Details

Leader	Richard McMullen
Date	04/08/2018
Time	10:00 - 16:00
Venue	National Biodiversity Data Centre, Waterford
Audience	Improving botanists
Fee	€30.00

1 An introduction to botanical keys (in conjunction with the Botanical Society of Britain and Ireland)

When one becomes familiar with a relatively small number of botanical structures it is possible, by using botanical keys, to identify any wild or naturalised flowering plant in Ireland. This workshop will introduce you to these structures and we will then use this knowledge to key out an array of wild plants using the 8th edition of Webb's 'An Irish Flora'.



Workshop Details

Leader	Dr. Tomás Murray
Date	11/09/2018
Time	10:00 - 16:00
Venue	National Biodiversity Data Centre, Waterford
Audience	Researchers, academic staff etc.
Fee	€50.00

5 Ecological data analysis through R

R is a powerful, open source statistical programming language that is quickly becoming the most popular and routinely employed in a range of ecological analyses, as well as more broadly in the field of data science. Aimed at beginners, workshop participants will be shown how to setup the R environment and introduced to the R statistical programming language, including inputting and manipulating ecological data. We'll cover typical tasks like exploring data with graphs and calculating biodiversity indices, before moving onto more involved analyses such as rarefaction and diversity partitioning.

2 Anatomy and ecology of Ireland's lichens (in conjunction with the Ellen Hutchins Festival)

One group of organisms Ellen Hutchins had a special affinity for was lichens, several of which were some of her rarest finds. The workshop will help you look at lichens, one of the longest living organisms on the planet, and understand how nature has put them together. With over 1,100 species in Ireland, you will attain an insight into how they reproduce, how they live on rocks and trees and the important role they play in an ecosystem.



Workshop Details

Leader	Paul Whelan
Date	19/08/2018
Time	10:00 - 16:00 (field work included)
Venue	Glengarriff, Cork
Audience	Beginner to advanced recorders
Fee	€30.00



6 New Wetlands Manual for Ireland: Putting it to good use in identifying Ireland's wetland types



Ireland hosts a magnificent diversity of wetlands and being able to identify them is all-important, especially since several are of national or international conservation value. The *Irish Ramsar Wetlands Committee (IRWC)* recently launched *Irish Wetland Types – An Identification Guide and Field Survey Manual* which is adapted for the Irish context to facilitate the identification of wetlands in Ireland by non-specialists. During this workshop you will learn more about the different types of wetlands in Ireland, and how to use this guide to identify them.



Workshop Details

Leader	Faith Wilson
Date	25/09/2018
Time	10:00 - 16:00 (field work included)
Venue	Cabragh Wetlands Centre, Tipperary
Audience	Improving ecologists, local authority staff, landowners etc.
Fee	€50.00



Workshop Details

Leader	Dr. Joanne Denyer
Date	20/08/2018
Time	10:00 - 16:00 (field work included)
Venue	Glengarriff, Cork
Audience	Improving botanists, professional ecologists etc.
Fee	€50.00

3 Bryophytes as indicators of Annex I habitats: Old oak woodlands (in conjunction with the Ellen Hutchins Festival)

This workshop will introduce participants to the use of bryophytes in the identification and ecological assessment of the Annex I habitat 'Old sessile oak woods with *Ilex* and *Blechnum* in the British Isles' [91A0]. There will be an indoor session in the morning, where participants will be introduced to key field identification features of bryophytes (using collected specimens) and use of bryophytes in ecological assessment. In the afternoon participants will practice bryophyte identification (using keys) in the field in Glengarriff Woods Nature Reserve, which supports high quality Annex I old oak woodland.



Workshop Details

Leader	Andrew Malcolm
Date	13/10/2018
Time	10:00 - 16:00 (All outdoor)
Venue	Glengarra Woods, Tipperary
Audience	Beginner recorders, foragers etc.
Fee	€30.00



7 Identifying autumnal edible plants and mushrooms

Foraging is a very rewarding activity but one which is best advised to be undertaken only when you are confident enough in your identification skills. Thus, this workshop will help participants hone that skill with seasoned forager Andrew Malcolm who will guide people through the minefield of what is safe and what is not safe to eat in the forest. He will also explain how to collect things in a sustainable manner and will share some ways to preserve some of what is found over the winter months.

4 The identification of *Salix* (Willow) species.

Willow species are one such plant group whose identification to species level is a quite a challenge. During this particular workshop participants will thus take a look at all willow species and a few of their hybrids that grow in the southern half of the island of Ireland. The morning will be spent learning what you have to look at in each species to be able to identify them, from the colour of the hairs on the underside of the leaf to the ridges on the bare wood. The afternoon will be spent looking at and practicing identification of willows along the River Blackwater.

Workshop Details

Leader	Paul Green
Date	28/08/2018
Time	10:00 - 16:00 (field work included)
Venue	Community Centre, Cappoquin, Waterford
Audience	Improving botanists
Fee	€30.00



8 Identifying Ireland's wetland birds (in conjunction with Birdwatch Ireland & Bord na Móna)

Participants will be welcomed to this workshop with an introduction to our winter wetland birds in Ireland. You will take home insights into the biology of various species, aspects of wetland bird ecology and their conservation threats. The talk will however focus on identification in the field, looking at wetland bird plumages and how and where to find and observe these animals in Ireland. Following this theoretical introduction in the morning, we will make the short journey into Lough Boora Discovery Park which contains rich wetland habitat, perfect for exercising one's avian identification skills.



Workshop Details

Leader	Dick Coombes
Date	10/11/2018
Time	10:00 - 16:00 (field work included)
Venue	Kilcormac Killoughy GAA Club, Offaly
Audience	Beginner & intermediate recorders; birdwatchers
Fee	€30.00

