



Institute of Ecology and
Environmental Management

2009 Professional Development Programme



Bryophyte (Moss and Liverwort) Identification

Monday 19 – Tuesday 20 January 2009

Location: Bath Area

Tutor: Justin Smith MIEEM

Level: Beginner

A workshop about getting started on bryophyte identification using guides and keys. Participants will also learn about bryophyte ecology, how to assess for bryophyte diversity and how to manage sites for bryophytes. The workshop will (i) include a visit to a suitable bryophyte rich site; (ii) explain differences between mosses and liverworts; (iii) explain using keys for identification; (iv) provide a guide to commonly encountered species; and (v) look at ecological requirements and management for bryophyte diversity.

NB. Accommodation is not included in the workshop fee.

Cost: £120 (IEEM members), £240 (non-members).

Making the most of BREEAM and the Code for Sustainable Homes

Thursday 19 February 2009

Location: London Area

**Tutor(s): Nick Betson MIEEM; and
Max Wade CEnv FIEEM**

Level: Beginner

An introduction to the ecological component of BREEAM and how to get the most from it. This workshop will cover all types of BREEAM/Code for Sustainable Homes and include worked examples of how the BREEAM/Code criteria can be used for maximum ecological benefit. Each of the ecology credits will be discussed individually, including the use of BRE's ecology calculator. The aim of the workshop is for ecologists to be able to achieve maximum ecological benefit from BREEAM and the Code.

Cost: £60 (IEEM members), £120 (non-members).

Native Tree Species in Winter

Wednesday 25 February 2009

Location: Edinburgh

Tutor: Barbra Harvie MIEEM

Level: Beginner

This workshop will cover the identification of tree species from their buds, bark, general form and by using keys. There will be a combination of classroom and field work (weather and day light permitting) and practical identification of tree species from their characteristics will be carried out at local sites using specimen trees.

Cost: £60 (IEEM members), £120 (non-members).

Surveying for Bats and Development: The Consultants Approach

March 2009 (date tbc)

Location: Beckenham, Kent

**Tutor(s): Richard Graves CEnv MIEEM; and
Steve Markham**

Level: Beginner – Intermediate

This workshop is aimed at those who would like to undertake, or advance their expertise in consultancy for developers with respect to bats. It will include an overview of bat ecology and the law, appropriate survey techniques, the survey effort required, methods of data analysis, how to deal with that missed bat and how to meet the client's requirements. There will be worked examples explaining why working for developers is good for bats.

Cost: £60 (IEEM members), £120 (non-members).

Lichen Identification

Monday 2 – Tuesday 3 March 2009

Location: Bath Area

Tutor: Justin Smith MIEEM

Level: Beginner

A workshop about getting started on lichen identification using identification guides, keys and chemicals. Participants will learn about lichen ecology, how to assess for lichen diversity, pollution monitoring with lichens and how to manage sites for lichens. The workshop will (i) include a visit to a suitable site with a range of lichen species; (ii) explain differences between macro- and micro-lichens; (iii) explain using keys to identification; (iv) provide a guide to commonly encountered species; and (v) look at ecological requirements and management for lichen diversity.

NB. Accommodation is not included in the workshop fee.

Cost: £120 (IEEM members), £240 (non-members).

Further workshops are normally added to the programme throughout the year. Please check the website for programme updates:

www.ieem.net/workshops.asp



Photo credit: Nick Jackson

Outdoor First Aid and Incident Management

Saturday 7 – Sunday 8 March 2009

Location: Blencathra Field Centre, Cumbria

Tutor: Cory Jones

Level: Beginner – Intermediate

A two-day first aid workshop for those working out on site, carrying out surveys on land, on ladders or in water. The workshop will give participants the skills to give first aid to colleagues if the worst happens away from the road, or a working site or away from help on the moors. Part of the course will explain how to manage first aid incidents safely and effectively.

NB. Accommodation is not included in the workshop fee.

Cost: £120 (IEEM members), £240 (non-members).

Water Vole Ecology

Monday 9 March 2009

Location: Near Lifton, Devon

Tutor: Derek Gow AIEEM

Level: Beginner

This workshop will give a basic overview of water vole ecology. The focus will be on water vole habitat requirements, biology, field signs and life cycle. Comparisons between water voles other native vole species will be discussed. The workshop will include practical handling using live animals, food plant identification and field sign sessions for water voles, brown rats, otters and North American mink.

Cost: £60 IEEM members, £120 non-members.

Water Vole Conservation and Development

Tuesday 10 – Wednesday 11 March 2009

Location: Near Lifton, Devon

Tutor: Derek Gow AIEEM

Level: Intermediate – Advanced

The first day will cover an updated review of water vole conservation nationally. This workshop will focus on current knowledge of best practice regarding a range of recovery strategies for water voles. The workshop incorporates the standards outlined in the newly revised species handbook and will include field sessions on habitat management for water voles, mink raft management and captive breeding. It will include a site visit to a European beaver dammed site where water voles have been reintroduced. The second day will cover a practical overview of commonly encountered development based mitigation issues for those working with water voles. This workshop will include practical handling using live animals, receptor habitat construction and field sign sessions.

NB: Accommodation is not included in the workshop fee.

Cost: £120 IEEM members, £240 non-members.

Water Vole Conservation and Development

Thursday 12 – Friday 13 March 2009

Location: Near Lifton, Devon

Tutor: Derek Gow AIEEM

Level: Intermediate – Advanced

Details the same as for Tuesday 10 - Wednesday 11 March workshop.

Cost: £120 IEEM members, £240 non-members.

Introduction to Phase 1 Habitat Survey

Wednesday 1 - Thursday 2 April 2009

Location: Newcastle, Tyne and Wear

Tutor: Clare O'Reilly MIEEM

Level: Beginner

This workshop will enable participants to conduct a Phase 1 Habitat Survey, including scoping to identify sites where further botanical survey should be recommended. There will be some assistance with plant identification (mostly vegetative due to the time of year) but the focus of the workshop is on survey methodology. Day one will cover survey methodology, mapping techniques and fieldwork to identify habitats and on day two participants will conduct their own survey of an urban-fringe 'development' site and report the results.

NB. Accommodation is not included in the workshop fee.

Cost: £120 (IEEM members), £240 (non-members).

Photo credit: www.wildstock.co.uk



How to Complete a Farm Environment Plan and Higher Level Stewardship Scheme Application: 1 of 4 - Preliminary Data Collection and Farm Environment Record

Thursday 2 April 2009

Location: Netherstreet Farm, Bromham, Wiltshire

Tutor: Jemma Batten MIEEM

Level: Beginner - Intermediate

A series of four workshops. Workshops one to three will cover the Farm Environment Plan (FEP) process including preliminary data collection and consultations, identifying gaps in knowledge and how to fill them, fieldwork, and filling in maps and forms. Workshop four will cover how the FEP relates to the Environmental Stewardship Scheme (ESS) application and how to complete options maps and forms. The workshops will be farm-based and result in a completed FEP for future reference. Though there will be continuity through the four sessions, participants may attend one, two, three or all four sessions.

Workshop Two: Thursday 23 April 2009.

Workshop Three: Thursday 14 May 2009.

Workshop Four: Thursday 4 June 2009.

Cost: £60 (IEEM members), £120 (non-members).

Great Crested Newt Survey and Evaluation

Saturday 4 April 2009

Location: Brockenhurst, Hampshire

Tutor: Liam Russell MIEEM

Level: Beginner – Intermediate

This workshop will cover everything you need to be able to plan and carry out a survey for great crested newts (GCN) (and other amphibians) and fully evaluate your results. Topics covered will include risk assessment, legislation, habitat assessment, amphibian identification, survey standards and techniques and evaluation of survey results. The workshop will include classroom sessions and practical field sessions on habitat assessment and GCN survey.

Cost: £60 IEEM members, £120 non-members.



Photo credit: Nick Jackson

Reptile Survey (Best Practice)

Wednesday 8 – Thursday 9 April 2009

Location: Alresford and North Baddesley, Hampshire

Tutor: Jon Cranfield MIEEM

Level: Beginner – Intermediate

A two-day workshop involving a theory, classroom session relating to best practice in planning and implementing a reptile survey. The techniques used to sample the widespread reptiles will be covered through the first classroom session with case studies. The workshop will involve practical demonstrations of survey techniques, recording and handling of reptiles at local field sites. The current best practice for reptile surveys will be discussed at the second classroom session.

NB. Accommodation is not included in the workshop fee.

Cost: £120 (IEEM members), £240 (non-members).

Freshwater Invertebrates Identification and Survey Skills

Wednesday 15 April 2009

Location: Castle Head Field Centre, Cumbria

Tutor: Cory Jones

Level: Beginner

This workshop offers an introduction to freshwater invertebrate identification and survey techniques. Participants will gain knowledge of key indicator organisms and be introduced to skills in survey techniques for freshwater habitats. The workshop deals with recognising signs of freshwater pollution, equipment and procedures required to carry out freshwater invertebrate surveys and how to structure a research report based on fieldwork information gathered.

Cost: £60 (IEEM members), £120 (non-members).

Reptile Mitigation (Best Practice)

Wednesday 15 – Thursday 16 April 2009

Location: Alresford and North Baddesley, Hampshire

Tutor: Jon Cranfield MIEEM

Level: Beginner – Intermediate

A two-day workshop involving a theory classroom session relating to best practice in planning and implementing a reptile mitigation strategy. The techniques used within mitigation strategies will be illustrated using case studies in the classroom and field visits. The workshop will involve practical demonstrations of techniques employed within reptile mitigation projects. Case studies will be given and this will be followed up with field visits to active reptile mitigation sites (live or demonstrations).

NB. Accommodation is not included in the workshop fee.

Cost: £120 (IEEM members), £240 (non-members).

More detailed information about each workshop can be found on the website: www.ieem.net/workshops.asp

Introduction to Bryophytes and the new British Bryological Society Field Key

Wednesday 15 - Thursday 16 April 2009

Location: Lambley, Near Haltwhistle, Northumberland

Tutor(s): John O'Reilly CEnv MIEEM; and
Clare O'Reilly MIEEM

Level: Beginner

This basic introduction to bryophyte identification and ecology will include (i) the differences between mosses and liverworts; (ii) how to observe plant parts using a x20 hand lens; (iii) the top 10 field characters; and (iv) how to use the new British Bryological Society Field Key. Day one will focus on terminology, observation skills using a x20 hand lens and very common species of woodland and upland heath. Day two will focus on consolidation, additional common species of woodland and grasslands, including the UK BAP priority habitat Calaminarian grasslands and using the Field Key.

NB. Accommodation is not included in the workshop fee.

Cost: £120 (IEEM members), £240 (non-members).

How to Complete a Farm Environment Plan and Higher Level Stewardship Scheme Application: 2 of 4 - Fieldwork

Thursday 23 April 2009

Location: Netherstreet Farm, Bromham, Wiltshire

Tutor: Jemma Batten MIEEM

Level: Beginner - Intermediate

Details the same as for Thursday 2 April workshop.

Cost: £60 (IEEM members), £120 (non-members).

Bird Surveys for Beginners

Thursday 23 April 2009

Location: London Area

Tutor: David Darrell-Lambert

Level: Beginner

The workshop will cover the basic skills required for fieldwork, what equipment to use, how to research a site, determining what survey to use, planning and undertaking a survey, analysing data and what to include in your final report.

Cost: £60 (IEEM members), £120 (non-members).

Grass, Sedge and Rush Identification for Phase 1 Habitat Survey

Monday 27 - Tuesday 28 April 2009

Location: Hamsterley Forest Visitor Centre, Near Bishop Auckland, County Durham.

Tutor: Clare O'Reilly MIEEM

Level: Beginner

Phase 1 Habitat Survey work requires identification of certain plant species as key habitat indicators, especially grasses. This workshop covers the differences between the three groups, parts of the grass, sedge and rush flowers and vegetative features to identify grasses (due to the time of year, few grasses will be flowering). There will be fieldwork to identify common grasses, sedges and rushes in a range of Phase 1 habitats, particularly on distinguishing unimproved, semi-improved and improved grasslands. The workshop will particularly focus on indicator species essential for Phase 1 Habitat Survey and on using vegetative keys for grasses. It will not cover identification of Carex species as Phase 1 methodology does not require this.

NB. Accommodation is not included in the workshop fee.

Cost: £120 (IEEM members), £240 (non-members).

Woodland Management and Wildlife

Friday 1 May 2009

Location: Corby, Northamptonshire

Tutor: James Patmore MIEEM

Level: Intermediate

Anyone planning, permitting or carrying out woodland management and forestry operations needs to be aware of their responsibilities with regard to wildlife protection. This workshop provides a brief introduction to woodland management and sets out the main species protection requirements (including the recent amendment to the Habitats Directive) and general good practice to minimise disturbance and damage. The workshop will also provide a more detailed review of bird species (e.g. Schedule 1 species) and woodland management for bats, great crested newts and dormouse.

Cost: £60 (IEEM members), £120 (non-members).

Photo credit: Claire Hopkins



Further workshops are normally added to the programme throughout the year. Please check the website for programme updates:

www.ieem.net/workshops.asp

Dragonfly and Damselfly Identification

Thursday 7 May 2009

Location: Gartcosh LNR, Near Glasgow, Scotland

Tutor: Jonathan Willet

Level: Beginner - Intermediate

The workshop will have an indoor morning session focusing on ecology, distribution and identification. The afternoon session will focus on gaining as much practical field experience as possible. By the end of the day those attending should be able to tell the difference between dragonflies and damselflies and know how to identify all adult and larval Odonata found locally.

Cost: £60 (IEEM members), £120 (non-members).

Identifying Hedgerow Plants and Trees and Carrying Out Hedgerow Assessments

Monday 11 May 2009

Location: Exeter, Devon

Tutor: Sue Searle MIEEM

Level: Beginner

Spend a day in the field learning to identify common hedgerow flowering plants and trees. Try your hand at assessing hedges against the Hedgerow Regulations criteria to help you recognise protected and important hedges. The workshop will take place in a location with a variety of hedges including species rich ancient hedges.

Cost: £60 (IEEM members), £120 (non-members).

Woodland National Vegetation Classification Survey for Beginners

Tuesday 12 May 2009

Location: Otley, West Yorkshire

Tutor: Gordon Haycock CEnv MIEEM

Level: Beginner

This introductory workshop entails introduction to the National Vegetation Classification (NVC) system, identification of essential woodland ground flora (including common bryophytes), NVC field

survey in a variety of woodland situations and basic interpretation of data to assign communities. The workshop also covers the theory behind NVC and a step-wise approach to applying field skills necessary to make an assessment of woodland NVC communities.

Cost: £60 (IEEM members), £120 (non-members).

Woodland NVC Survey for Practitioners

Wednesday 13 May 2009

Location: Otley, West Yorkshire

Tutor: Gordon Haycock CEnv MIEEM

Level: Intermediate

This workshop entails an overview of the National Vegetation Classification (NVC) system in practice, identification of common woodland bryophytes, NVC field survey in a variety of woodland situations, a critical look at woodland NVC and its application and reporting NVC survey. Following a brief overview of woodland NVC, we will undertake field survey, gathering data to allow Community descriptions to be assigned. Participants will analyse the data to assign Communities and examine the challenges presented when interpreting data and mapping communities.

Cost: £60 (IEEM members), £120 (non-members).

An Introduction to Phase 1 Habitat Survey

Wednesday 13 – Thursday 14 May 2009

Location: Oatridge College, near Edinburgh

Tutor: Bruce Lumsden

Level: Beginner

Participants will learn about the range of skills necessary to conduct a Phase 1 Habitat Survey including office and fieldwork skills; mapping, habitat recognition and plant identification. Day one will concentrate on introducing participants to the methodology, first in the classroom and then demonstrated in the field. Day two will see the participants carry out a survey within a SSSI and write up a report on their findings.

NB. Accommodation is not included in the workshop fee.

Cost: £120 (IEEM members), £240 (non-members).

How to Complete a Farm Environment Plan and Higher Level Stewardship Scheme Application: 3 of 4 - FEP Maps and Forms

Thursday 14 May 2009

Location: Netherstreet Farm, Bromham, Wiltshire

Tutor: Jemma Batten MIEEM

Level: Beginner - Intermediate

Details the same as for Thursday 2 April workshop.

Cost: £60 (IEEM members), £120 (non-members).



Photo credit: Nick Jackson

Introduction to Plant Identification and Phase 1 Habitat Survey

Thursday 14 – Friday 15 May 2009

Location: Bathley, Nottinghamshire

Tutor: Jane Southey CEnv MIEEM

Level: Beginner

The first day of this two-day workshop will be spent looking at common plant families, concentrating on widespread species and use of plant keys. Day two will reinforce the first day and will cover the introduction to Phase 1 Habitat Survey methodology and its applications.

NB. Accommodation is not included in the workshop fee.

Cost: £120 (IEEM members), £240 (non-members).

Field Ornithology: Improving Your Skills

Tuesday 19 May 2009

Location: London Area

Tutor: David Darrell-Lambert

Level: Beginner – Intermediate

This workshop covers the specialist skills required to become a successful field ornithological surveyor. This workshop will include a three hour practical where the skills learnt during the workshop can be put to test in the field. The workshop will review the five key elements of successful field ornithology – the importance of clothing, selecting the right equipment, making sense of reference material, perfecting your field craft and nailing bird identification.

Cost: £60 (IEEM members), £120 (non-members).

Introduction to Grasses

Wednesday 20 May 2009

Location: Settle, Yorkshire

Tutor: Judith Allinson

Level: Beginner

Survey work often includes the requirement to identify grasses, a group which many find difficult. Some basic plant identification skills will be assumed, but no previous knowledge of grasses is required. By the end of the workshop, participants should be familiar with parts of the grass flower, types of grass inflorescence and vegetative features helpful in keying out grasses. There will be practice in keying out grasses in calcareous and neutral grassland habitats. We will look at the distribution of the different species of grass found in relation to rock and soil type and farm management.

Cost: £60 (IEEM members), £120 (non-members).

Watch out for three NBN courses which will be added to the programme shortly:
(i) Introduction to the NBN Gateway; (ii) Biological Data Use; and (iii) Data Sharing.
www.ieem.net/workshops.asp

Beginning Professional Bat Work

Wednesday 20 – Thursday 21 May 2009

Location: Burnley, Lancashire

Tutor(s): Roger Martindale CEnv MIEEM; and Pat Waring CEnv MIEEM

Level: Beginner

A workshop for aspiring professionals and people new to professional bat work. This workshop will help you to build a strong foundation and to gain experience and confidence in bat surveys, bat identification and site assessments. The workshop venue, Gawthorpe Hall, is a site of county importance for bats, with a number of roosts and important foraging areas.

NB: Accommodation is not included in the workshop fee.

Cost: £120 (IEEM members), £240 (non-members).

Dragonfly and Damselfly Identification

Thursday 21 May 2009

Location: Shapwick Heath NNR, Near Glastonbury, Somerset

Tutor: Jonathan Willet

Level: Beginner - Intermediate

Details the same as for Thursday 7 May workshop.

Cost: £60 (IEEM members), £120 (non-members).

Dragonfly and Damselfly Identification

Friday 22 May 2009

Location: Shapwick Heath NNR, near Glastonbury, Somerset

Tutor: Jonathan Willet

Level: Beginner - Intermediate

Details the same as for Thursday 7 May workshop.

Cost: £60 (IEEM members), £120 (non-members).

Photo credit: English Nature



Using a Vegetative Key

Tuesday 2 June 2009

Location: Testwood Lakes Visitor Centre, Southampton, Hampshire

Tutor: John Poland CEnv MIEEM

Level: Beginner – Advanced

This practical workshop is aimed at new users of the 'Vegetative Key to the British Flora' (available March 2009) and will teach plant identification by vegetative characters. The classroom session will be supplemented by fieldwork in the immediate vicinity.

Cost: £60 (IEEM members), £120 (non-members).

How to Complete a Farm Environment Plan and Higher Level Stewardship Scheme Application: 4 of 4 - Application Maps and Form

Thursday 4 June 2009

Location: Buckleaze Farm, Pewsey, Wiltshire

Tutor: Jemma Batten MIEEM

Level: Beginner - Intermediate

Details the same as for Thursday 2 April workshop.

Cost: £60 (IEEM members), £120 (non-members).

Introduction to Sedges

Sunday 7 (evening) – Tuesday 9 June 2009

Location: Malham Tarn Field Centre, Yorkshire

Tutor: Judith Allinson

Level: Beginner - Intermediate

Sedges are at their best in June. Participants will learn about the flowering and vegetative parts of a sedge, how to use sedge keys and how to recognise different species in their habitats. Malham Tarn is a superb area - one third of the British *Carices* (24 species) plus nine other *Cyperaceae* can be found within two miles of the Tarn, in calcareous flushes, calcareous grassland, fen and

acid habitats. The workshop fee includes two nights full board accommodation, including lunch on both days and an evening lab session with microscopes.

Cost: £250 (IEEM members), £370 (non-members).

Otter Survey and Mitigation

Tuesday 9 (mid-afternoon) – Wednesday 10 June 2009

Location: Melrose, Scotland

Tutor: Emma Roper MIEEM

Level: Beginner

This workshop will discuss otter ecology, survey techniques and mitigation. Participants will visit different types of sites supporting otter populations which will provide an excellent opportunity to understand their ecology and behaviour. Participants will learn how to survey for evidence of otters and be introduced to interpretation of field signs. From this, they will be able to determine the likely impact of a development, requirement for appropriate European Protected Species licensing and the application of suitable mitigation.

NB: Accommodation is not included in the workshop fee.

Cost: £90 (IEEM members), £180 (non-members).

Flowering Plant Identification

Wednesday 10 – Thursday 11 June 2009

Location: Redhill, Surrey

Tutor: Heloise Collier MIEEM

Level: Beginner – Intermediate

The first day will be indoors looking firstly at plant structure and botanical terms used. With the help of fresh specimens, the characteristics of the major plant families and other common genera will be studied. Participants will also look at various types of plant guides and try out different identification keys. The second day participants will visit two or three different habitats, see the flowers associated with them and practise identification skills.

NB. Accommodation is not included in the workshop fee.

Cost: £120 (IEEM members), £240 (non-members).

Coastal Vegetated Shingle: Nature Conservation Value, Management and Mitigation for Developments

Thursday 11 June 2009

Location: Dungeness, Kent

Tutor: Brian Banks MIEEM

Level: Beginner

Coastal vegetated shingle is a globally rare feature, listed on the Habitats Directive, a UK BAP habitat, and supports many rare species. This workshop introduces the variety of biological and geomorphological features associated with this habitat, their sensitivity and mitigation during development. Participants will have the opportunity to work on the Dungeness SAC, Britain's most diverse shingle beach.

Cost: £60 (IEEM members), £120 (non-members).

Photo credit: Scottish Natural Heritage



Introduction to Grasses

Tuesday 16 June 2009

Location: Settle, Yorkshire

Tutor: Judith Allinson

Level: Beginner

Details the same as for Wednesday 20 May workshop.

Cost: £60 (IEEM members), £120 (non-members).

Freshwater Pearl Mussels: Ecology and Survey Techniques

Wednesday 17 June 2009

Location: Golspie, Scotland

Tutor: Iain Sime MIEEM

Level: Beginner - Intermediate

This workshop aims to introduce the ecology of the freshwater pearl mussel and the species' conservation. The workshop will also introduce participants to the technique used to survey for the species in shallow water in Scottish rivers (this may not be applicable to rivers in the rest of the UK). This will be followed up with a field visit to undertake a survey in a nearby river.

Cost: £60 (IEEM members), £120 (non-members).

Identification of Common Plant Species

Wednesday 17 June 2009

Location: Edinburgh

Tutor: Barbra Harvie MIEEM

Level: Beginner

A classroom introduction to the morphology of flowering plants and the characteristics of the main plant families, followed by field identification of common species. Participants will then return to the classroom to demonstrate the ways that floras can be used as a further aid to identification by identifying some additional species using keys.

Cost: £60 (IEEM members), £120 (non-members).

Invertebrate Survey and Site Assessment

Saturday 20 - Sunday 21 June 2009

Location: Deepcar, Sheffield

Tutor: Jim Flanagan AIEEM

Level: Beginner

This workshop is targeted at ecologists with limited experience or knowledge of invertebrate survey techniques, but who need to be able to quickly assess sites for their invertebrate potential and periodically commission specialist surveys, prior to impact assessment. This workshop will provide guidance on assessing sites for their invertebrate potential; developing basic identification skills for key groups; and field survey techniques. Some local field trips will be undertaken.

NB: Accommodation is not included in the workshop fee.

Cost: £120 (IEEM members), £240 (non-members).

Reptile Identification, Surveys and Handling

Monday 22 June 2009

Location: Exeter, Devon

Tutor: Sue Searle MIEEM

Level: Beginner

This workshop will cover identification of UK reptile species, handling of reptiles (including slow worms and non-native snakes) and a field visit to survey a 'development site'. Participants will also learn about surveying and mitigation strategies.

Cost: £60 (IEEM members), £120 (non-members).

Using a Key to Identify Flowering Plants

Wednesday 24 June 2009

Location: Redhill, Surrey

Tutor: Heloise Collier MIEEM

Level: Intermediate

This course is for those who wish to know how to use a dichotomous key when identifying flowering plants. Participants will look at plant structure, botanical terms, the layout of floras and how dichotomous keys work. With the help of fresh specimens, participants will work through increasingly difficult examples. Finally, participants will practise by identifying other flowers themselves.

Cost: £60 (IEEM members), £120 (non-members).

More detailed information about each workshop can be found on the website:
www.ieem.net/workshops.asp



Bumblebee Identification and Ecology

Wednesday 24 June 2009

Location: Colchester, Essex

Tutor: Adrian Knowles MIEEM

Level: Beginner

Bumblebee diversity can be used as a crude measure of the condition of an individual site or the wider countryside. This beginner's workshop will look at the equipment, field guides and skills needed to identify bumblebees in the field. Work will be split between indoor tutorial work with reference to specimen collections and exploring the Abbots Hall Farm (which has records for 12 species of bumblebee) to experience active survey work. During the afternoon, fieldwork and habitat requirements will be discussed.

Cost: £60 (IEEM members), £120 (non-members).

Identification of Grasses

Wednesday 24 June 2009

Location: Edinburgh

Tutor: Barbra Harvie MIEEM

Level: Beginner

A classroom introduction to the morphology of grasses, followed by field identification of common species using flowering specimens, leaf only and grazed/mown examples. Participants will return to the classroom to identify some additional species using a range of keys.

Cost: £60 (IEEM members), £120 (non-members).

Field Craft for Bats

Wednesday 24 – Thursday 25 June 2009

Location: Lacock, Wiltshire

Tutor(s): Roger Martindale CEnv MIEEM; and Pat Waring CEnv MIEEM

Level: Intermediate

The workshop aims to give people with some experience of bat surveying an opportunity to enhance their skills over a range of different species and habitats. The emphasis of the workshop is to fine tune skills in field sign identification and show how the results

can be used to inform decision making on site. This workshop will be based at Lacock Abbey, a nationally important site for British Bats.

NB. Accommodation is not included in the workshop fee.

Cost: £120 (IEEM members), £240 (non-members).

Lake Survey Techniques

Wednesday 1 July 2009

Location: Glasgow, Scotland

Tutor: Kathy Dale CEnv FIEEM

Level: Intermediate

This course will be aimed at surveyors wishing to undertake lake surveys for Water Framework Directive or Habitats Directive monitoring purposes. A number of methods will be covered, including Lake Habitat Survey (LHS), shoreline walks, wading, using a boat and snorkelling/sub-aqua diving. Field demonstrations will be given for LHS and the shoreline and wading surveys. A good knowledge of aquatic plants will be required. Accreditation will not be provided.

Cost: £60 (IEEM members), £120 (non-members).

Native Tree Species, an Introduction

Wednesday 1 July 2009

Location: Edinburgh

Tutor: Barbra Harvie MIEEM

Level: Beginner

This workshop will introduce, in both the classroom and in the field, the native trees of Scotland and their ecology, habitats and uses. Participants will learn to identify the species from their leaves, flowers and bark.

Cost: £60 (IEEM members), £120 (non-members).

Invasive and Non Native Plants

Wednesday 8 July 2009

Location: Swansea, Wales

Tutor: Sean Hathaway MIEEM

Level: Intermediate

Learn about the invasive and non native plants that you are most likely to come across and deal with when managing sites and carrying out surveys. The workshop will cover an introduction to the invasive problem and the legislation, identification, problems and treatment of the following plants: giant hogweed, Himalyan balsam, Japanese knotweed, parrots feather, Australian stonecrop, water primrose, floating pennywort, water fern and cotoneaster.

Cost: £60 (IEEM members), £120 (non-members).

Further workshops are normally added to the programme throughout the year. Please check the website for programme updates:

www.ieem.net/workshops.asp

Photo credit: www.wildstock.co.uk



Rare Arable Flora – Their History, Reasons for Decline and how to Find and Conserve them within an Intensive Farming Regime

Thursday 9 July 2009

Location: Yorkshire Area

Tutor: Peter Thompson

Level: Beginner – Intermediate

The workshop will cover the history, ecology and distribution of these rare plants, including reasons behind the big declines that they have suffered and where you might still locate them. Participants will look at practical ways to manage areas where these flowers exist, including potential problems from aggressive weed species. A close look at current funding opportunities under the Stewardship schemes will be key to all the discussions.

Cost: £60 (IEEM members), £120 (non-members).

The History, Ecology and Management of the European beaver

Thursday 16 – Friday 17 July 2009

Location: Near Lifton, Devon

Tutor: Derek Gow AIEEM

Level: Intermediate

This workshop will give a basic overview of the ecology, history and contemporary management of the European beaver. There is now considerable interest in the reintroduction of this species as a keystone wetland manager into UK habitats. This workshop will focus on the history, ecology, life cycle and potential management requirements of the beaver in human generated environments. A single evening will be spent beaver watching in a large on site enclosure which will also be utilised for field sign observation. A site visit on the second day to an ideal beaver reintroduction site will consider the implications and potentialities of beaver restoration.

NB: Accommodation is not included in the workshop fee.

Cost: £120 IEEM members, £240 non-members.

Working with Crayfish – Stage 1: Ecology, Survey and Conservation

Friday 17 (evening) – Sunday 19 July 2009

Location: Malham Tarn Field Centre, North Yorkshire

Tutor: Paul Bradley MIEEM

Level: Beginner – Intermediate

White-clawed crayfish are rapidly disappearing throughout much of the country. This residential workshop provides a field-based introduction to working with crayfish in a range of situations. An authoritative review of crayfish ecology and field methods is presented, including fieldwork at a variety of standing and flowing water sites. A packed agenda also includes conservation issues, licensing, biosecurity and welfare. The workshop fee includes two nights full-board accommodation, at a classic field centre location, and transport to field sites throughout the Yorkshire Dales.

Cost: £256 (IEEM members), £376 (non-members).

Working with Crayfish Stage 2: Development Works, Crayfish Plague and Non-Natives

Monday 20 (evening) – Wednesday 22 July 2009

Location: Malham Tarn Field Centre, North Yorkshire

Tutor: Paul Bradley MIEEM

Level: Intermediate – Advanced

This residential workshop provides advanced training in aspects of working with both native and non-native crayfish, and particularly suits those who have attended the Stage 1 workshop, or have equivalent experience. The workshop presents a variety of practical mitigation techniques, applied to a range of development types. A packed agenda also includes 'crayfish plague', captive breeding of white-clawed crayfish, control and exploitation of non-native crayfish. The workshop fee includes two nights full-board accommodation, at a classic field centre location, and transport to case study sites throughout the region.

Cost: £256 (IEEM members), £376 (non-members).

Sedges for NVC in the Field

Tuesday 4 August 2009

Location: Bull Crag Peninsula, Kielder Water, Northumberland

Tutor: Clare O'Reilly MIEEM

Level: Beginner – Intermediate

This entirely field-based workshop focuses on identification of key species in the sedge family, which are important indicators for National Vegetation Classification (NVC) communities. Participants will learn about the flowering and vegetative parts of a sedge, be introduced to keys to sedges and conduct fieldwork to identify a range of common sedges in acid grassland and heath, swamp, mires and calcareous flushes.

Cost: £60 (IEEM members), £120 (non-members).

Photo credit: Duncan Revell



Working with Crayfish – Stage 1: Ecology, Survey and Conservation

Friday 7 (evening) – Sunday 9 August 2009

Location: Malham Tarn Field Centre, North Yorkshire

Tutor: Paul Bradley MIEEM

Level: Beginner – Intermediate

Details the same as for Friday 17 - Sunday 19 July workshop.

Cost: £256 (IEEM members), £376 (non-members).

Using a Vegetative Key

Tuesday 1 September 2009

**Location: Testwood Lakes Visitor Centre, Southampton,
Hampshire**

Tutor: John Poland CEnv MIEEM

Level: Beginner – Advanced

Details the same as for Tuesday 2 June workshop.

Cost: £60 (IEEM members), £120 (non-members).

Working with Crayfish Stage 2: Development Works, Crayfish Plague and Non-Natives

Wednesday 2 (evening) – Friday 4 September 2009

Location: Malham Tarn Field Centre, North Yorkshire

Tutor: Paul Bradley MIEEM

Level: Intermediate – Advanced

Details the same as for Monday 20 - Wednesday 22 July workshop.

Cost: £256 (IEEM members), £376 (non-members).

Freshwater Invertebrates Identification and Survey Skills

Thursday 3 September 2009

**Location: Preston Montford Field Centre, Shrewsbury,
Shropshire**

Tutor: Cory Jones

Level: Beginner

This workshop offers an introduction to freshwater invertebrate identification and survey techniques. Participants will gain knowledge of key indicator organisms and be introduced to skills in survey techniques for freshwater habitats. The workshop deals with recognising signs of freshwater pollution, equipment and procedures required to carry out freshwater invertebrate surveys and how to structure a research report based on fieldwork information gathered.

Cost: £60 (IEEM members), £120 (non-members).

Identifying Fungi

Tuesday 8 September 2009

Location: Near Gorebridge, Midlothian, Scotland

Tutor: Neville Kilkenny

Level: Beginner

This workshop is an introduction to the identification of fungi. Participants will learn the different field characteristics of each of the families and their genera, how to apply these to identification keys, and good practice for collection. Conservation, site diversity assessment and management will also be discussed.

Cost: £60 (IEEM members), £120 (non-members).

Farmland Birds: Can Modern Intensive Farming and Farmland Birds Co-exist?

Tuesday 8 September 2009

Location: Suffolk Area

Tutor: Peter Thompson

Level: Intermediate

This workshop will look at the identification of individual species, including song, what their round-the-year food and habitat requirements are and how to meet those needs by using options within current Agri-environment schemes. Participants will look in detail at how to manage existing habitats and create new ones within an intensive farming regime, and discuss problems that may arise, such as weed control.

Cost: £60 (IEEM members), £120 (non-members).



Photo credit: Reg Locock

Further workshops are normally added to the programme throughout the year. Please check the website for programme updates: www.ieem.net/workshops.asp

Practical Action for Water Voles

Wednesday 9 September 2009

Location: Rye Meads Nature Reserve Visitor Centre, Hoddesdon, Hertfordshire

Tutor(s): Alison Washbrook and Louise Wells

Level: Beginner – Intermediate

This workshop will provide participants with an introduction to the biology and ecology of water voles through classroom and fieldwork sessions. The workshop will also provide practical site-based advice on how to manage and enhance habitats for water voles. There will be the opportunity to discuss the use of heavy plant being used for habitat management with an experienced contractor and to view habitat works that have been designed to benefit water voles.

Cost: £60 (IEEM members), £120 (non-members).

Macro-fungi Identification

Monday 14 September 2009 (including follow-up day on Monday 2 November 2009)

Location: Bath Area

Tutor: Justin Smith MIEEM

Level: Beginner

This workshop will cover getting started on fungus identification; how to use keys and identification guides; identify orders and families; collect specimens in the field; and assess and manage sites for macrofungal diversity. There will be an emphasis on groups, genera and species of fungi that are important in survey work, such as waxcaps (*Hygrocybe*), CHEG species and woodland mycorrhizals. The workshop can also be geared towards general fungal identification: sporeprinting, describing features and keying out to genera/species. A preliminary key to gill fungi will also be provided.

Cost: £120 (IEEM members), £240 (non-members).

Hazel Dormouse Ecology and Conservation

Tuesday 15 September 2009

Location: Hallsannery Field Centre, Bideford, Devon

Tutor: Janice Whittington AIEEM

Level: Beginner – Intermediate

A classroom-based morning session includes an introduction to dormouse ecology, habitat, diet, monitoring and mitigation. Participants will go outdoors in the afternoon and will look at nest boxes which are included in the National Dormouse Monitoring Programme.

Cost: £60 (IEEM members), £120 (non-members).

Are you Compliant with the NERC Biodiversity Duty?

Tuesday 15 September 2009

Location: Derbyshire Area

Tutor: Debbie Alston MIEEM

Level: Beginner – Intermediate

All public bodies, including local authorities, utility companies, and statutory agencies, have a biodiversity duty under the Natural Environment and Rural Communities (NERC) Act 2006. This workshop will explore what the duty entails and suggests ways that compliance and performance can be assessed. Examples of good practice will be discussed. By the end of the workshop participants will have compiled a checklist to be able to assess their organisation's performance.

Cost: £60 (IEEM members), £120 (non-members).

Phase 1 Habitat Survey

Wednesday 16 September 2009

Location: Bury St Edmunds, Suffolk

Tutor: Nick Sibbett CEnv MIEEM

Location: Beginner

A workshop to give participants the confidence to carry out their own Phase 1 Habitat Surveys. This simple technique is essential for describing and mapping vegetation in a standard way, recognised by ecologists throughout the country. Basic plant identification knowledge is helpful for this workshop.

Cost: £60 (IEEM members), £120 (non-members).

Photo credit: Ryan Mellor



More detailed information about each workshop can be found on the website: www.ieem.net/workshops.asp

Pipelines and Ecological Issues

Thursday 17 September 2009

Location: York, Yorkshire

Tutor: Martin Fuller MIEEM

Level: Beginner

Pipelines are an increasing feature of the landscape carrying gas, water or chemicals below the land surface. They can have considerable impact during their construction and operational phases involving river crossings, cutting through hedgerows and tree belts and creating corridors across great swathes of countryside. This workshop aims to consider ecological factors to take into account during scoping for an environmental impact assessment and looks at construction and operational issues.

Cost: £60 (IEEM members), £120 (non-members).

Identifying Fungi

Tuesday 22 September 2009

Location: Near Gorebridge, Midlothian, Scotland

Tutor: Neville Kilkenny

Level: Intermediate

Building on the previous course's introduction to the identification of fungi (8 Sept). Participants will be introduced to the many microscopic characteristics of each of the families, genera and their species groups, learn how to examine these under the microscope, and how to apply them to identification keys. Conservation, survey techniques, site diversity assessment and management will also be discussed.

Cost: £60 (IEEM members), £120 (non-members).

Otter Survey and Mitigation

Tuesday 22 (mid-afternoon) – Wednesday 23 September 2009

Location: Huntingdon and Peterborough, Cambridgeshire

Tutor: Emma Roper MIEEM

Level: Beginner

Details the same as for Tuesday 9 - Wednesday 10 June workshop.

Cost: £90 (IEEM members), £180 (non-members).

An Introduction to Bat Survey, Impacts and Mitigation

Monday 28 September 2009

Location: Dunblane Area, Scotland

Tutor: Beccy Osborn MIEEM

Level: Beginner

This workshop will provide an introduction to bat legislation, survey, roost identification, impacts and mitigation measures with examples of case studies. Reference will be made to the more common bat species only, primarily pipistrelles, brown long-eared and Daubenton's bats. The workshop will primarily be classroom based, but field signs will be on display in the classroom and weather permitting there will be a brief look at some potential roost sites. Opportunity will be given for questions and discussion of survey queries and experiences. Advice on further reading and key references will be given.

Cost: £60 (IEEM members), £120 (non-members).

Tree Identification

Wednesday 7 October 2009

Location: Redhill, Surrey

Tutor: Heloise Collier MIEEM

Level: Beginner

Learn to identify the trees commonly found in the British countryside, both broadleaves and conifers, at all times of year. We study the features and characteristics to look for in identifying species in all the different seasons. We also look at different tree identification books and how to use them as aids to identification. Practical work and a short walk will be included.

Cost: £60 (IEEM members), £120 (non-members).

Introduction to the National Vegetation Classification

Friday 9 October 2009

Location: Guildford, Surrey

Tutor: Richard Arnold CEnv MIEEM

Level: Beginner

The morning will be classroom based and provide an introduction to the National Vegetation Classification (NVC) project and British plant communities. The late morning and early afternoon will be spent collecting data in the field, at a local heathland site. The remainder of the afternoon will be spent identifying NVC communities from field data.

Cost: £60 (IEEM members), £120 (non-members).



Photo credit: Nick Jackson

Further workshops are normally added to the programme throughout the year. Please check the website for programme updates:

www.ieem.net/workshops.asp

Water Vole Ecology

Monday 12 October 2009

Location: Near Lifton, Devon

Tutor: Derek Gow AIEEM

Level: Beginner

Details the same as for Monday 9 March workshop.

Cost: £60 IEEM members, £120 non-members.

Water Vole Conservation and Development

Tuesday 13 – Wednesday 14 October 2009

Location: Near Lifton, Devon

Tutor: Derek Gow AIEEM

Level: Intermediate – Advanced

Details the same as for Tuesday 10 - Wednesday 11 March workshop.

Cost: £120 IEEM members, £240 non-members.

Water Vole Conservation and Development

Thursday 15 – Friday 16 October 2009

Location: Near Lifton, Devon

Tutor: Derek Gow AIEEM

Level: Intermediate – Advanced

Details the same as for Thursday 12 - Friday 13 March workshop.

Cost: £120 IEEM members, £240 non-members.

Surveying for Bats and Development: The Consultants Approach

November 2009 (date tbc)

Location: Beckenham, Kent

Tutor(s): Richard Graves CEnv MIEEM; and Steve Markham

Level: Beginner – Intermediate

Details the same as for March (date tbc) workshop.

Cost: £60 (IEEM members), £120 (non-members).

The Role of Biodiversity Action Plans in Local Development Frameworks and Site Specific Development Proposals

Wednesday 4 November 2009

Location: Derbyshire Area

Tutor: Debbie Alston MIEEM

Level: Beginner - Intermediate

This workshop will look at the global and local objectives of Biodiversity Action Plans (BAPs) and their role within the ecological and planning framework. We will look at the process of applying Local BAP habitat and species priorities and targets to site assessments. The planning process, through PPS9, presents a big opportunity to build biodiversity enhancements into good design. We will be looking at examples of how these can help achieve BAP actions and targets.

Cost: £60 (IEEM members), £120 (non-members).

Outdoor First Aid and Incident Management

Thursday 19 - Friday 20 November 2009

Location: Juniper Hall Field Centre, Dorking, Surrey

Tutor: Cory Jones

Level: Beginner – Advanced

Details the same as for Saturday 7 - Sunday 8 March workshop.

Cost: £120 (IEEM members), £240 (non-members).

Winning Approaches - What do you need to do to convince a planning inspector?

Wednesday 25 November 2009

Location: Basingstoke, Hampshire

Tutor: Jo Hughes CEnv MIEEM

Level: Beginner

Being a good Expert Witness demands much more than being an expert in your field. This workshop is most suitable for people with limited experience in this field and will focus on practical demonstration of the skills required to be an effective and relaxed Expert Witness. Tips presented come from all sides: expert witnesses, lawyers and planning inspectors!

Cost: £60 (IEEM members), £120 (non-members).

Further Information

- * Workshops usually accept between 15 – 20 participants but some identification courses may take less. Places will be allocated on a first-come first-served basis.
- * Workshops will usually start at 10:00 and finish at 16:00 (unless otherwise advised).
- * Bring a packed lunch. Tea and coffee will be provided for most classroom-based sessions but please bring a drink for the field sessions.
- * To keep costs down, participants are asked to share vehicles when travelling to and/or between study sites.



2009 WORKSHOP BOOKING FORM

PERSONAL DETAILS:

IEEM Member (or Applicant)

IEEM non-member

Where did you hear about these workshops?

Surname:

Forename(s):

Company:

Address:

Postcode:

Tel:

E-mail Address:
**THIS MUST BE FILLED OUT AS ALL WORKSHOP
DETAILS ARE SENT OUT ELECTRONICALLY**

WORKSHOP CHOICES: Bookings MUST be received 4 weeks in advance of the workshop. Availability can be checked on the website www.ieem.net/workshops.asp but a place cannot be guaranteed until your booking form is received.

Workshop Date & Title:

Workshop Date & Title:

Workshop Date & Title:

Workshop Date & Title:

Workshop Date & Title:

PAYMENT DETAILS: Workshops are exempt from VAT (apart from admin charges). VAT Registration Number 880 8426 00.

I enclose a cheque (made payable to IEEM)

Please send an invoice (£10.00 administration charge applicable, excluding VAT). IF YOU REQUIRE A REFERENCE ON YOUR INVOICE, PLEASE SEND A PURCHASE ORDER FORM/NUMBER ALONG WITH THIS FORM

I wish to pay by Visa/Mastercard/Maestro

Card number:

Start date: Expiry date: Issue number: Security number:

CANCELLATION POLICY

In the event of cancellation, a 50% refund will be issued up to one month before the workshop. An 80% refund will be issued for cancellations two calendar months or more before the workshop. All cancellations must be received in writing. No refunds will be made for cancellations made within one month of the appropriate event. If you have booked and are unable to attend please let us know as there may be someone else who could take your place. Substitutes can be made at any time. The IEEM reserves the right to alter or cancel any of the courses for whatever reason. Where a course is cancelled by IEEM, those enrolled will receive a full refund of the course fee.

Please return this form to:

IEEM, 43 Southgate Street, Winchester, Hampshire, SO23 9EH, UK

Tel: 01962 868626 Fax: 01962 868625 E-mail: workshops@ieem.net Web: www.ieem.net

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