



Report on existing training resources for taxonomy in Europe

EDIT Workpackage 8 - Training and Public Awareness

Component 8.1.1

Report on existing training resources for taxonomy in Europe.

This survey was carried out between 15 December 2006 and 30 September 2007.

The present listing is the compilation of the results obtained for Europe.

Austria

Title: Chironomidae Identification courses (advanced level) on: Ephemeroptera, Plecoptera, aquatic Heteroptera, Trichoptera, Chironomidae, Tipuloidea, Simuliidae, aquatic Coleoptera

Organising institution(s)/organisation(s): University of Vienna in cooperation with: Natural History Museum Vienna, University of Natural Resources and Applied Life Sciences Vienna, Austrian Environmental Agency, University of Lüneburg
Host organisation(s)/institution(s), if different from organiser:

Language: German

Content: morphology, taxonomy, identification, conservation, preservation, collecting, rearing, biology, ecology, relevant literature

Target level: high school students, master level, PhD level

Periodicity: on demand

Duration: 1 week

Main person responsible for the training: Ao. Univ.Prof. Dr. Johann Waringer

Department of Freshwater Ecology, Althanstraße 14, A-1090 Vienna, Austria

E-mail of contact person: johann.waringer@univie.ac.at

URL:

Title: Identification of protists used for evaluation of water quality

Organising institution(s)/organisation(s): University of Salzburg, Dept. of Organismal Biology

Host organisation(s)/institution(s), if different from organiser:

Language: English

Content: identification of ciliates, flagellates and amoeba used as bioindicators in water quality evaluation

Target level: amateur taxonomists, master level, PhD level, postgraduates, specialists / professionals

Periodicity:

Duration: 2 weeks (8 hrs per day)

Main person responsible for the training: Dr. Wilhelm Foissner

University of Salzburg Department of Organismal Biology, Hellbrunner Straße 34, 5020 Salzburg, Austria

E-mail of contact person: wilhelm.foissner@sbg.ac.at

URL:

Title: Wassermilben. Systematik und biologie - Water mites. Systematics and biology

Organising institution(s)/organisation(s): University of Innsbruck

Host organisation(s)/institution(s), if different from organiser:

Language: German (English/Italian possible)

Content: Genus and species discrimination, life cycle stages, parasitism, groundwater biology

Target level: amateur taxonomists, undergraduates, master level, PhD level

Periodicity: on demand

Duration: 1 week

Main person responsible for the training: Dr. Reinhard Gerecke

Free-lance researcher with teaching contract at the Zoological Institute, University of Tübingen (Germany), Biesingerstr. 11, D-72070 Tübingen, Germany

E-mail of contact person: reinhard.gerecke@uni-tuebingen.de

URL:

Title: Molecular Parasitology
Organising institution(s)/organisation(s): Medical University of Vienna
Host organisation(s)/institution(s), if different from organiser:
Language: German/English
Content: DNA isolation, PCR, DNA sequencing, computer assisted sequence analysis, multiple alignment, tree building methods
Target level: master level, PhD level
Periodicity: on a regular basis
Duration: 4 days
Main person responsible for the training: Julia Walochnik
Medical University of Vienna, Department of Medical Parasitologie, Kinderspitalgasse 15, 1095 Vienna, Austria
E-mail of contact person: julia.walochnik@meduniwien.ac.at
URL:

Title: Techniques for plant determination (for advanced students)
Organising institution(s)/organisation(s): University of Natural Resources and Applied Life Sciences of Vienna, Dept. of Integrative Biology and Biodiversity Research, Inst. of Botany
Host organisation(s)/institution(s), if different from organiser:
Language: German
Content: Evaluation of the main character sets for determination of plants at different organisational level (algae, mosses, lichens, ferns, seed plants). Evaluation of available determination keys and floras from Europe, inclusively special keys for critical taxa (grasses, sedges, mosses, umbellifers, composites, etc.). Exercises in sampling techniques (floristic, herbaria) and determination of plants in the lab and field. Determination of plants at vegetative states.
Target level: master level, PhD level, postgraduates, specialists / professionals
Periodicity: on a regular basis
Duration: 4 ECTS (4 months)
Main person responsible for the training: Prof. Mag. Dr. Gerhard Karrer
University of Natural Resources and Applied Life Sciences, Department of Integrative Biology and Biodiversity Research, Institute of Botany, Working group Ecomorphology and Systematics, Gregor Mendel Street 33, A-1180 Vienna, Austria
E-mail of contact person: gerhard.karrer@boku.ac.at
URL:

Title: Systematics, biology and ecology of middle European limnetic copepods
Organising institution(s)/organisation(s): University of Vienna, Dept. of Aquatic Sciences
Host organisation(s)/institution(s), if different from organiser:
Language: German
Content: morphology, anatomy, physiology, ecology, biogeography, taxonomy, bibliography used in taxonomy, techniques used for identification
Target level: undergraduates, master level, PhD level
Periodicity: on a regular basis
Duration: 3 ECTS
Main person responsible for the training: Dr. Santiago Gaviria-Melo
University of Vienna, Althanstrasse 19, A-1090 Vienna, Austria
E-mail of contact person: santiago.gaviria@gmx.at
URL:

Title: Water beetles of Austria
Organising institution(s)/organisation(s): University of Vienna
Host organisation(s)/institution(s), if different from organiser:
Language: German
Content:
Target level: high school students, master level, PhD level, specialists / professionals, technicians
Periodicity: on demand
Duration: 1 week
Main person responsible for the training: Manfred Jäch
Natural History Museum Vienna, Burgring 7, 1010 Wien, Austria
E-mail of contact person: manfred.jaech@nhm-wien.ac.at
URL:

Belgium

Title: Taxonomy of free-living marine nematodes
Organising institution(s)/organisation(s): Royal Belgian Institute of Natural Sciences
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content:
Target level: master level
Periodicity: on demand
Duration: 1 month
Main person responsible for the training: W. Decraemer
Royal Belgian Institute of Natural Sciences, Vautierstraat 29, 1000 Brussels, Belgium
E-mail of contact person: Yves.Samyn@naturalsciences.be
URL:

Title: Taxonomy of Dolichopodidae (Insecta, Diptera)
Organising institution(s)/organisation(s): Royal Belgian Institute of Natural Sciences (RBINS), Dept. of Entomology
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content:
Target level:
Periodicity: on demand
Duration:
Main person responsible for the training: Dr. Marc Pollet
(i) Institute for the Promotion of Innovation through Science and Technology (IWT-Vlaanderen), (ii) Ghent University (UGent), Dept Biology, Research Group Terrestrial Ecology, (iii) Royal Belgian Institute of Natural Sciences, Dept Entomology (KBIN), (i) Bischoffsheimlaan 25, B-1000 Brussels (Belgium) (ii) K.L.Ledeganckstraat 35, B-9000 Ghent (iii) Vautierstraat 29, B-1000 Brussels, Belgium
E-mail of contact person: patrick.grootaert@naturalsciences.be
URL:

Title: Taxonomy and identification of the Rotifera
Organising institution(s)/organisation(s): Royal Belgian Institute of Natural Sciences, Belgian Biodiversity Platform, Freshwater Laboratory
Host organisation(s)/institution(s), if different from organiser:
Language: English/Dutch/(French)
Content: identification, taxonomy of Rotifera (per taxon), methods and practices in rotifer taxonomy, nomenclature (general)
Target level: master level, PhD level, postgraduates, specialists / professionals
Periodicity: one time in the framework of a special occasion and on demand
Duration: 1 week
Main person responsible for the training: Hendrik Segers
Royal Belgian Institute of Natural Sciences, Belgian Biodiversity Platform, Freshwater Laboratory, Vautierstraat 29, B - 1000 Brussels, Belgium
E-mail of contact person: hendrik.segers@naturalsciences.be
URL:

Title: Theoretical training course in contemporary taxonomy
Organising institution(s)/organisation(s): Royal Belgian Institute of Natural Sciences
Host organisation(s)/institution(s), if different from organiser: The course is organised on a demand-driven basis. Previous courses have been held in Cuba and Thailand. Upcoming course in Morocco. It can be complemented by practical training on taxon-specific subjects (pending the demand of the country).
Language: French/English
Content: Module 1 Introduction to the Global Taxonomy Initiative (GTI), Module 2 Biodiversity, the Tapestry of Life, Module 2 bis Introduction to the Convention on Biological Diversity and its Allies, Module 3 Meaning and Value of Species Concepts, Module 4 Schools of Classification, Module 5 Practical Exercise - Classification of Caminalcules, Module 6 Introduction to Cladistic Analysis, Module 7 Introduction to the History of Evolutionary Thought, Module 8 Introduction to Zoological Nomenclature, Module 9 Funding Sources for Taxonomy (hands on), Module 10 Introduction to Taxonomic Publication
Target level: PhD level, postgraduates, specialists / professionals

Periodicity: on demand
Duration: 1 week
Main person responsible for the training: Dr. Yves Samyn
Royal Belgian Institute of Natural Sciences, Belgian National Focal Point to the GTI, Vautierstraat 29, 1000 Brussels, Belgium
E-mail of contact person: yves.samyn@naturalsciences.be
URL:

Title: Morphology and systematics of the Chordata
Organising institution(s)/organisation(s): Katholieke Universiteit Leuven
Host organisation(s)/institution(s), if different from organiser:
Language: Dutch (& partly in English)
Content: Introduction to systematics: examples, definitions, categories and methods of classification - Morphology and systematics of Fishes: classification of groups and general characters for each group - Systematics of the Tetrapoda
Target level: master level
Periodicity: on a regular basis
Duration: 39 hrs in one semester
Main person responsible for the training: Jos Snoeks
Royal Museum for Central Africa (RMCA), Leuvensesteenweg 13, B-3080 Tervuren, Belgium
E-mail of contact person: jos.snoeks@africamuseum.be; jos.snoeks@bio.kuleuven.be
URL: <http://www.kuleuven.be/onderwijs/aanbod/syllabi/G0269AN.htm>

Title: Introductory workshop in Geometric Morphometrics
Organising institution(s)/organisation(s): Ghent University
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: landmarkbased GMM
Target level: master level, PhD level
Periodicity: on demand
Duration: 3 days
Main person responsible for the training: Andrea Cardini
E-mail of contact person: dominique.adriaens@ugent.be
URL:

Title: FishBase and fish taxonomy training
Organising institution(s)/organisation(s): Royal Museum for Central Africa (RMCA)
Host organisation(s)/institution(s), if different from organiser:
Language: alternately English/French
Content: 3 main parts: lectures and exercises on the detailed use of FishBase, lectures covering different ichthyological subjects (taxonomy, feeding ecology, reproduction,...), case study of a taxonomic problem
Target level: master level, PhD level, specialists / professionals
Periodicity: on a regular basis
Duration: 3 months
Main person responsible for the training: Jos Snoeks Royal Museum for Central Africa Leuvensesteenweg 13 B-3080 Tervuren Belgium
E-mail of contact person: jos.snoeks@africamuseum.be; jos.snoeks@bio.kuleuven.be
URL: <http://www.africamuseum.be/research/cooperation/research/cooperation/developcooperation/stages/stagegroup>

Title: Microbial diversity and taxonomy (Prokaryotes)
Organising institution(s)/organisation(s): Ghent University
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: Bacteria, Archaea, prokaryotic diversity, classification
Target level: master level
Periodicity: on a regular basis
Duration: 27 hrs, 5 ECTS
Main person responsible for the training: Paul De Vos
E-mail of contact person: anne.willems@ugent.be
URL: <http://www.opleidingen.ugent.be/studiegids/2007/EN/FACULTY/WE/COURSE/CHBIOL/00000009/INDEX.HTM>

Title: Capacity building for the Global Taxonomy Initiative
Organising institution(s)/organisation(s): Belgian Consortium of Taxonomic Institutions, Royal Belgian Institute of Natural Sciences / Royal Museum for Central Africa / National Botanical Garden of Belgium
Host organisation(s)/institution(s), if different from organiser:
Language: English/French
Content: seed money is available for institutions or individuals from developing countries in need of taxonomic and curatorial training.
Target level: PhD level, postgraduates, specialists / professionals
Periodicity: call open one to twice a year
Duration: 2 weeks to 2 months (training)
Main person responsible for the training: Dr. Yves Samyn
E-mail of contact person: Yves.Samyn@naturalsciences.be
Royal Belgian Institute of Natural Sciences, Belgian National Focal Point to the GTI, Vautierstraat 29, 1000 Brussels, Belgium
URL: <http://bch-cbd.naturalsciences.be/belgium/cooperation/projects/gti/eligible.htm>

Title: Systématique et évolution des plantes
Organising institution(s)/organisation(s): Université Libre de Bruxelles
Host organisation(s)/institution(s), if different from organiser:
Language: French
Content: speciation mechanisms in plants, angiosperm phylogeny, evolutionary genetics, floristics, use of standard floras
Target level: master level
Periodicity: on a regular basis
Duration: 6 ECTS
Main person responsible for the training: Prof. Jean Lejoly
E-mail of contact person: jlejoly@ulb.ac.be
URL:

Title: Plant taxonomy
Organising institution(s)/organisation(s):
Host organisation(s)/institution(s), if different from organiser:
Language: Dutch
Content: plant taxonomy, plant families, ethnobotany, taxonomy of useful plants
Target level: master level
Periodicity: on a regular basis
Duration: 10 days
Main person responsible for the training: Prof. Dr. Ir. Patrick Van Damme
Ghent University, Faculty of Bio-Science Engineering, Lab. of Tropical and Subtropical Agricultura and Ethnobotany, Coupure Links 653, B-9000 Gent, Belgium
E-mail of contact person: Patrick.VanDamme@ugent.be
URL:

Title: Les abeilles (Apoidea) en Afrique tropicale et relations avec la flore
Organising institution(s)/organisation(s): Royal Belgian Institute of Natural Sciences
Host organisation(s)/institution(s), if different from organiser:
Language: French
Content: bees Apoidea pollination decline
Target level: master level, PhD level, postgraduates, specialists / professionals, technicians
Periodicity: one time in the framework of a special occasion
Duration: 1 week
Main person responsible for the training: Pauly Alain
Institut royal des Sciences naturelles de Belgique, Département Entomologie, Rue Vautier 29, B-1000 Bruxelles, Belgium
E-mail of contact person: alain.pauly@brutele.be
URL:

Title: Individual and institutional capacity building in taxonomy and collection management
Organising institution(s)/organisation(s): Royal Belgian Institute of Natural Sciences
Host organisation(s)/institution(s), if different from organiser:
Language: French/English

Content: Global Taxonomy Initiative, biodiversity, species concepts, classification schools, cladistics, nomenclature, evolution, writing a taxonomic paper, taxonomic tools, financing, databases, convention on biological diversity, clearing-house mechanism

Target level: PhD level, postgraduates, specialists / professionals, technicians, occasionally parataxonomists

Periodicity: on a regular basis

Duration: 1 week theoretical course + 1 to 5 weeks practical training

Main person responsible for the training: Dr. Yves Samyn

Royal Belgian Institute of Natural Sciences, Vautierstraat 29, 1000 Brussels, Belgium

E-mail of contact person: yves.samyn@naturalsciences.be

URL:

Title: General entomology

Organising institution(s)/organisation(s): University of Liège

Host organisation(s)/institution(s), if different from organiser: University of Liège, Zoological Institute, Quai Van Beneden 22 B-4020 Liège

Language: French

Content: Taxa specially addressed in the courses are arthropods in human settlements, Hymenoptera, Diptera, Odonata, Coleoptera, Lepidoptera, + diverse subjects pending of timing

Target level: amateur taxonomists, high school students, undergraduates, master level

Periodicity: when at least two students are registered

Duration: Theory is 2,5 hrs a week for 6 weeks, and practice is 3 hrs a week for 5 weeks.

Main person responsible for the training: Michèle Loneux

University of Liège, Zoological Institute, Quai Van Beneden 22, B-4020 Liège, Belgium

E-mail of contact person: loneuxmichele@skynet.be

URL:

Title: Biology and identification of household pests

Organising institution(s)/organisation(s): Pest Control Training Association vzw

Host organisation(s)/institution(s), if different from organiser:

Language: Dutch/French/English

Content: identification of taxa (order, species)

Target level: specialists / professionals

Periodicity: on demand

Duration: 32 hrs

Main person responsible for the training: P. Grootaert

Royal Belgian Institute of Natural Sciences, Vautierstraat 29, B-1000 Brussels, Belgium

E-mail of contact person: Patrick.Grootaert@naturalsciences.be

URL:

Title: Biodiversity data management training course

Organising institution(s)/organisation(s): Marine Biodiversity and Ecosystem Functioning (MarBEF) EU Network of Excellence;

International Oceanographic Data and Information Exchange (IODE) programme of IOC/UNESCO

Host organisation(s)/institution(s), if different from organiser: Project office of IOC in Oostende

Language: English

Content: general principles of relational database management, general principles of data management, nomenclature, georeferencing, quality control, tracing and assessing information in publications and on the web

Target level: specialists / professionals

Periodicity: on a regular basis

Duration: 1 week

Main person responsible for the training: Edward Vanden Berghe

E-mail of contact person: wardvdb@vliz.be

URL: http://www.marbef.org/training/docs/marbef_T07_5_biodiversity_data_management.pdf

Title: Evolutie en fylogenie

Organising institution(s)/organisation(s): Hasselt University

Host organisation(s)/institution(s), if different from organiser:

Language: Dutch

Content: evolution, population genetics, phylogenetics, nomenclature, tree of life

Target level: undergraduates

Periodicity: on a regular basis

Duration: 8 weeks, 1 day a week
Main person responsible for the training: Tom Artois
Dept. SBG, Agoralaan Gebouw D, 3590 Diepenbeek, Belgium
E-mail of contact person: tom.artois@uhasselt.be
URL: <http://www.uhasselt.be/stGids/default.aspx?a=2006&i=0257&n=4&t=01>

Title: Introduction to genetics and population genetics
Organising institution(s)/organisation(s): University of Antwerp, Dept. of Biology
Host organisation(s)/institution(s), if different from organiser:
Language: Dutch
Content: (1) Mendelian inheritance (+ taxonomic relevance thereof), (2) deviations from Mendelian inheritance such as pleiotropy, epistasis, multiple alleles, lethal alleles, extranuclear inheritance (mtDNA, cpDNA, Wolbachia, plasmids), maternal effect genes, genomic imprinting, environmental effects and plasticity, (3) Chromosomal theory of inheritance, (4) Linkage (5) developmental genetics, (6) sex determination, (7) molecular basis of inheritance, (8) genes in populations (Hardy-Weinberg, Linkage disequilibrium, inbreeding, drift, mutation, migration, selection), (8) polygenic traits and inheritance (heritability, genetic correlations, reaction norms, maternal effects)
Target level: undergraduates
Periodicity: on a regular basis
Duration: 40 hrs
Main person responsible for the training: Thierry Backeljau
Vautierstraat 29, B-1000 Brussels, Belgium
E-mail of contact person: Thierry.Backeljau@naturalsciences.be
URL:

Title: Behoud en beheer van collecties / Conservation et gestion des collections
Organising institution(s)/organisation(s): OFO/IFA, Brussels
Host organisation(s)/institution(s), if different from organiser:
Language: Dutch/French
Content: Preventive conservation of collections: collection environment/storage/IPM/registration/documentation/handling/distaster planning/security. Collections: all type of collections (zoological collections, geology, books, photographical material, textile, paintings,...).
Target level: technicians
Periodicity: on a regular basis
Duration: 3.5-4.5 days
Main person responsible for the training: I. Van de Velde
Royal Belgian Institute of Natural Sciences, Vautierstraat 29 B-Brussel, Belgium
E-mail of contact person: Isa.Vandevelde@naturalsciences.be
URL:

Title: Afrotropical Lepidoptera
Organising institution(s)/organisation(s): Royal Museum for Central Africa (RMCA)
Host organisation(s)/institution(s), if different from organiser:
Language: English/French/Dutch
Content: Lepidoptera, Africa, identification
Target level: specialists / professionals, technicians
Periodicity: on demand
Duration: 2 weeks
Main person responsible for the training: Dall'Asta, Ugo
Royal Museum for Central Africa, Leuvensesteenweg 13, B-3080 Tervuren, Belgium
E-mail of contact person: dallasta@africamuseum.be
URL:

Title: African biodiversity information center
Organising institution(s)/organisation(s): Royal Museum for Central Africa, African Zoology, Dept. Wood Biology
Host organisation(s)/institution(s), if different from organiser:
Language: French/English
Content:
Target level: PhD level, specialists / professionals, technicians, based on quality of the project submitted
Periodicity: according to answers from a yearly call
Duration: max 2 months

Main person responsible for the training: Mylène De Scheemaeker
E-mail of contact person: muriel.van.nuffel@africamuseum.be
URL: <http://www.africamuseum.be/research/cooperation/research/cooperation/developcooperation/stages/visits>

Title: African Biodiversity Centre Grants for scientific study visits
Organising institution(s)/organisation(s): Belgian Consortium of Taxonomic Institutions, Royal Museum for Central Africa
Host organisation(s)/institution(s), if different from organiser:
Language: English/French
Content: focussed mostly on research and additional training where required: study of the RMCA collections and/or having access to the expertise of RMCA scientists.
Target level: PhD level, postgraduates, specialists / professionals
Periodicity: call open twice a year
Duration: 3-8 weeks
Main person responsible for the training:
E-mail of contact person:
URL: <http://www.africamuseum.be/research/cooperation>

Title: African arachnids
Organising institution(s)/organisation(s): African Biodiversity Information Centre (ABIC)
Host organisation(s)/institution(s), if different from organiser: Royal Museum for Central Africa
Language: English/French/Dutch
Content: arachnology, collecting, distance sampling, density
Target level: master level, PhD level, postgraduates, specialists / professionals
Periodicity: according to answers from a yearly call
Duration: 3-4 weeks
Main person responsible for the training: Rudy Jocqué
Royal Museum for Central Africa, Leuvensteenweg 13, B-3080 Tervuren, Belgium
E-mail of contact person: jocque@africamuseum.be
URL:

Title: Systematics of fishes (part of course 'Biology of Aquatic Organisms')
Organising institution(s)/organisation(s): Universiteit Gent - Ghent University, Faculty of Bioscience Engineering, Dept. of Animal Production, Laboratory of Aquaculture & Artemia Reference Center
Host organisation(s)/institution(s), if different from organiser: Catholic University Leuven, Laboratory of Aquatic Ecology
Language: English
Content: Fish (teleosts), biology, systematics, cladistics, evolution, anatomy
Target level: master level, postgraduates
Periodicity: on a regular basis
Duration: 4 days
Main person responsible for the training: Jos Snoeks (for the part 'Systematics of Fishes')
Royal Museum for Central Africa (RMCA), Leuvensteenweg 13, B-3080 Tervuren, Belgium
E-mail of contact person: jos.snoeks@africamuseum.be; jos.snoeks@bio.kuleuven.be
URL: <http://www.aquaculture.ugent.be//et/et.htm>

Title: (1) General systematics and molecular phylogeny (2) Identification of plant-parasitic nematodes
Organising institution(s)/organisation(s): Ghent University
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content:
Target level: master level
Periodicity: on a regular basis
Duration: resp. 3 ECTS and 6 ECTS
Main person responsible for the training: W. Decraemer
Ghent University, Ledeganckstraat 29, B-9000 Gent, Belgium
E-mail of contact person: Nic.Smol@Ugent.be
URL:

Title: DNA barcoding, use of DNA in taxonomy, molecular phylogenetic analysis
Organising institution(s)/organisation(s): Royal Belgian Institute of Natural Sciences, Vertebrate Dept.
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content:
Target level: master level, PhD level, specialists / professionals, technicians
Periodicity: one time in the framework of a special occasion
Duration: 4-6 weeks
Main person responsible for the training: Erik Verheyen
Royal Belgian Institute of Natural Sciences, Vautierstraat 29, 1000 Brussels, Belgium
E-mail of contact person: erik.verheyen@naturalsciences.be
URL:

Title: MSc in ecological marine management
Organising institution(s)/organisation(s): Vrije Universiteit Brussels
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: ECOMAMA is an inter-university programme in ecological marine management.
Target level: undergraduates
Periodicity: yearly
Duration: 2 years
Main person responsible for the training:
E-mail of contact person: ecomama@vub.ac.be
URL: <http://www.ecomama.be/>

Title: Postgraduate international nematology course
Organising institution(s)/organisation(s): Ghent University
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: The course is designed to give participants a thorough basis, practical skill and updated knowledge in all aspects of plant parasitic, insect parasitic, as well as free living soil and aquatic nematodes.
Target level: undergraduates
Periodicity: yearly
Duration: 1 year
Main person responsible for the training: Nic Smol (Nematology Course Coordinator), Prof. Dr. E. Geraert (Nematology Course Director)
E-mail of contact person: nic.smol@rug.ac.be, etienne.geraert@rug.ac.be
URL: <http://www.pinc.ugent.be/>

Title: Introduction in tropical mycology (macromycetes), essentials in collecting, description, photography, taxonomy, identification and herbarium techniques. Field training.
Organising institution(s)/organisation(s): National Botanic Garden of Belgium
Host organisation(s)/institution(s), if different from organiser:
Language: Dutch/French/English
Content: African Fungi, macromycetes, taxonomy & identification, collecting & herbarium techniques, description & photography, microscopy & drawing, conservation & collection management
Target level: master level, technicians but adaptable
Periodicity: on demand
Duration: 2-3 weeks
Main person responsible for the training: Dr. Andre De Kesel, Dr. Jérôme Degreef
E-mail of contact person: adk@br.fgov.be, degreef@br.fgov.be
Domein van Bouchout, B-1860 Meise, Belgium
URL:

Title: Introduction to wood biology
Organising institution(s)/organisation(s): Royal Museum for Central Africa, Laboratory for Wood Biology and Xylarium
Host organisation(s)/institution(s), if different from organiser: variable
Language: English/French/Dutch

Content: wood anatomy, cambial activity, tree growth, carbon sequestration, sustainable development, sustained yield of forest products, timber quality

Target level: specialists / professionals

Periodicity: on demand

Duration: at least 2 days

Main person responsible for the training: Hans Beeckman

E-mail of contact person: hans.beeckman@africamuseum.be

Royal Museum for Central Africa, Laboratory for Wood Biology and Xylarium, Leuvense steenweg 13, B-3080 Tervuren, Belgium

URL:

Bulgaria

Title: Plant evolution and taxonomy

Organising institution(s)/organisation(s): Sofia University, Faculty of Biology

Host organisation(s)/institution(s), if different from organiser:

Language: Bulgarian

Content: systematics, phytocenology, floristics, florogenetic, analysis

Target level: amateur taxonomists, undergraduates, master level, PhD level, postgraduates, specialists / professionals

Periodicity: on a regular basis

Duration: 3 months

Main person responsible for the training: Assoc. Prof. Dolya Pavlova

E-mail of contact person: pavlova@biofac.uni-sofia.bg

URL:

Title: Taxonomy, morphology, ecology and biogeography of Myriapoda (Chilopoda, Diplopoda) with emphasis on the orders Callipodida and Lithobiomorpha

Organising institution(s)/organisation(s): National Museum of Natural History

Host organisation(s)/institution(s), if different from organiser:

Language: Bulgarian/English

Content:

Target level: master level, PhD level

Periodicity: on demand

Duration: 1 month

Main person responsible for the training: Pavel Stoev

National Museum of Natural History, Tsar Osvoboditel Blvd. 1, 1000 Sofia, Bulgaria

E-mail of contact person:

URL:

Title: Taxonomical problems of spiders of Bulgaria and Balkan Peninsula (Araneae)

Organising institution(s)/organisation(s): Bulgarian Academy of Sciences, Inst. of Zoology

Host organisation(s)/institution(s), if different from organiser:

Language: Bulgarian

Content: Arachnida: Araneae, Balkan Peninsula, Cave spiders

Target level: master level, PhD level, postgraduates

Periodicity: organised for PhD students

Duration: 1 month

Main person responsible for the training: Christo Deltchev

Institute of Zoology - Bulgarian Academy of Sciences, 1 Tsar Osvoboditel blvd, 1000 Sofia, Bulgaria

E-mail of contact person: cdeltchev@zoology.bas.bg

URL:

Czech Republic

Title: Taxonomy and nomenclature in palaeobotany

Organising institution(s)/organisation(s): Charles University, Faculty of Sciences and National Museum, Prague

Host organisation(s)/institution(s), if different from organiser: Faculty of Sciences, Charles University
Language: Czech, may be in English
Content: palaeobotany, fossil plants, morphology, morphotaxa, nomenclature of fossil plants
Target level: high school students, undergraduates, master level, PhD level
Periodicity: on demand
Duration: 3 days
Main person responsible for the training: Jiri Kvacek
National Museum, Prague, Vaclavske nam. 68 115 79 Praha 1,, Czech republic
E-mail of contact person: jiri.kvacek@nm.cz
URL:

Title: Molecular taxonomy
Organising institution(s)/organisation(s): Charles University, Faculty of Sciences
Host organisation(s)/institution(s), if different from organiser:
Language: Czech
Content: molecular taxonomy techniques, molecular distances, tree constructions methods (distances, characters), evaluation of trees, concordance with other characters
Target level: undergraduates, master level
Periodicity: on a regular basis
Duration: 35 hrs
Main person responsible for the training: Prof. Jaroslav Flegr
Fac. Sciences Charles University, Vinicna 7, Prague 2 128 44, Czech Republic
E-mail of contact person:
URL: <http://natur.cuni.cz/flegr/TEACHING/moltaxmater.htm>

Title: Determination course of Cyanobacteria
Organising institution(s)/organisation(s): University of South Bohemia, Faculty of Biological Sciences
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: Cyanobacteria from freshwater plankton, periphyton, aeral, soil and extreme biotopes
Target level: PhD level, postgraduates, specialists / professionals
Periodicity: on a regular basis
Duration: five days
Main person responsible for the training: Prof. Jiří Komárek, Dr.Sc.
University of South Bohemia, Faculty of Biological Sciences, Branišovská 31, Ěeské Budějovice, 37005, Czech Republic
E-mail of contact person: hanys@bf.jcu.cz
URL: <http://www.phycology.cz/DCC>

Denmark

Title: Entomology
Organising institution(s)/organisation(s): University of Copenhagen
Host organisation(s)/institution(s), if different from organiser:
Language: Danish/English (if just one non-Scandinavian student attends)
Content: Introduction & generalities about arthropods. What is systematic/evolutionary entomology about? An outline of arthropod structure and diversity. The tools of the trade. HEXAPODA, general morphology: integument & associated structures, head & thor. How the machinery of the hexapod body ticks: sensing, feeding and moving HEXAPODA, general morphology: abdomen and internal organ. How the machinery of the hexapod body ticks: fuelling and reproducing. SPRINGTAILS, SILVERFISH etc. (apterygote hexapods). Evolution of structural and life-history traits associated with being a 'soil arthropod'. Pterygota, generalities; MAYFLIES (Ephemeroptera), DRAGONFLIES (Odonata). The development of wings and its far-reaching evolutionary consequences. Divergent habitat invasion of immatures and adults. Hexapods adapting to the aquatic environment. Fossil evidence on early evolution of winged insects 'Lower Neoptera': STONEFLIES (Plecoptera), GRASHOPPERS (Orthoptera), STICK INSECTS (Phasmatode, MANTIDS-COCKROACHES-TERMITES, (Dictyoptera s.lat. Diversification of insect terrestrial life-styles. Evolution of the first major lineages of insect herbivores, of the first major lineages with diverse sound signalling - and of the first eusocial lineage. Small orders of lower Neoptera: WEBSPINNERS (Embioptera), EARWIGS (Dermaptera), Grylloblattode Mantophasmatodea, Zoraptera; Paraneoptera: generes and PSOCIDS/LICE (Psocodea), THIRIPS (Thysanoptera). A multitude of evolutionary pathways that led to only limited species diversification - including the evolution of intimate hexapod associations with warm-blooded vertebrates. PLANT LICE, LEAFHOPPERS, TRUE BUGS etc. (Hemiptera). The first insect lineage we encounter that approaches being 'mega-diverse' in terms of species numbers, and surely is so in terms of life-styles and reproduction strategies - which range from 'normal' to bizarre. Endopterygota, generalities. Strepsiptera, LACE WINGS, SNAKE FLIES etc (Neuropterida). Mecoptera, generalities and SCORPION FLIES (Mecoptera), FLEAS (Siphonaptera). 'Complete metamorphosis', its meaning and consequences. Insect

lineages with this developmental mode but with modest or small species numbers. WASPS (Hymenoptera). The evolution and diversification of the most successful parasitoid lineage among insects. Evolution of eusociality and its possible genetic background. BEETLES (Coleoptera). The group of living organisms for which the Creator allegedly had "an inordinate fondness". What promoted their success? And are the numbers behind the anecdote at all meaningful? CADDISFLIES (Trichoptera), MOTHS & BUTTERFLIES (Lepidoptera). The best corroborated 'sister-group' relation between two insect 'orders' - and two contrasting diversification modes. Evolution of the largest lineage of herbivorous animals. Moths and bats: a predator-prey 'arms race'. FLIES (Diptera). The 'maggot miracle' and the ecologically most diverse of the insect 'orders'. CENTIPEDES, MILLIPEDES etc (Myriapoda). From six to 750 legs - development and locomotion. Chemical defense. SCORPIONS (Scorpiones), HARVESTMEN (Opiliones), HOODED TICKSPIDERS (Ricinulei), PSEUDOSCORPIONS (Pseudoscorpiones), SUN SPIDERS (Solifugae), MICRO WHIPSCORPIONS (Palpigradi), TAILLESS WHIPSCORPIONS (Amblypygi), WHIPSCORPIONS (Uropygi). The minor arachnid orders - including representatives that are bizarre, deadly and with highly developed parental care. SPIDERS (Araneae). Megadiverse group of organisms with a complete dependence on predation as a trophic strategy. MITES & TICKS (Acari). Mites are the 'go anywhere, do anything' arachnids that occur on every continent, including Antarctica, and in freshwater as well as marine systems. Demonstration of Entomological collections of the Zoological Museum.

Target level: master level

Periodicity: on a regular basis

Duration: 7.5 ECTS

Main person responsible for the training: Niels P. Kristensen

Natural History Museum of Denmark (Zoology), Universitetsparken 15, DK-2100 Copenhagen Ø, Denmark

E-mail of contact person: npkristensen@snm.ku.dk

URL: <http://www.zmuc.dk/EntoWeb/entomologi.htm>

Title: Biogeography and macroecology

Organising institution(s)/organisation(s): University of Aarhus, Inst. of Biological Sciences

Host organisation(s)/institution(s), if different from organiser:

Language: English

Content: distribution patterns of plants and animals, global change ecology, plate tectonics, island biogeography, biodiversity patterns, biomes of the world

Target level: undergraduates, master level

Periodicity: on a regular basis

Duration: 5 hrs/week during 14 weeks, 10 ECTS

Main person responsible for the training: Jens-Christian Svenning

E-mail of contact person: svenning@biology.au.dk

URL:

Title: Zoological taxonomy

Organising institution(s)/organisation(s): The Royal Danish Academy of fine Arts, School of Conservation

Host organisation(s)/institution(s), if different from organiser:

Language: Danish

Content: Higher taxonomic levels in animals using morphological and DNA characters. Cladistic methods are used to define the groups.

Target level: undergraduates

Periodicity: on a regular basis

Duration: 90 hrs

Main person responsible for the training: Arne Redsted Rasmussen

The Royal Danish Academy of fine Arts School of Conservation, Esplanaden 34, DK-1263 Copenhagen K, Denmark

E-mail of contact person: arr@kons.dk

URL:

Title: Identification of ectomycorrhizal fungi - from environmental samples to DNA sequences

Organising institution(s)/organisation(s): University of Copenhagen, Biological Institute (main organiser). Additional organisers: Swedish Agricultural University in Uppsala, Sweden - University of Aberdeen, Scotland - University of Tartu, Estonia

Host organisation(s)/institution(s), if different from organiser:

Language: English

Content: 1) Collection, morphological identification, preservation and taking samples for molecular analysis from fungal sporocarps and ectomycorrhizal root tips. 2) DNA extraction, PCR, sequencing, sequence analysis 3) Using DNA sequences for identification using sequence databases.

Target level: master level, PhD level, postgraduates

Periodicity: in connection with Norforsk network grants

Duration: 12 days

Main person responsible for the training: Rasmus Kjoller

Biological Institute, University of Copenhagen, Oster Farimagsgade 2D, DK-1353, Denmark

E-mail of contact person: rasmusk@bi.ku.dk
URL: <http://www.bi.ku.dk/microbiology/ectofungi/>

Title: (1) Diversity of animals and plants (2) Botany of cultivated plants (3) Cultivated plants: diversity and phylogeny (4) Botany project (5) Herbarium
Organising institution(s)/organisation(s): University of Copagen, Faculty of Life Sciences, Dept. of Ecology
Host organisation(s)/institution(s), if different from organiser:
Language: Danish (may change to English)
Content: morphology, diversity, classification, characters, species recognition, collection
Target level: undergraduates, master level
Periodicity: on a regular basis
Duration: each course is 7.5 ECTS
Main person responsible for the training: Conny B. Asmussen-Lange
University of Copagen, Faculty of Life Sciences, Dept. of Ecology, Rolighedsvej 21, DK-1958 Frederiksberg C, Denmark
E-mail of contact person: con@kvl.dk
URL:

Title: Plantdiversity
Organising institution(s)/organisation(s): Aarhus University, Dept. of Biological Sciences
Host organisation(s)/institution(s), if different from organiser:
Language: English (or Danish if only Danish participants)
Content:
Target level: master level, PhD level
Periodicity: on a regular basis
Duration: 6 hrs/week during 14 weeks, 10 ECTS
Main person responsible for the training: Henrik Balslev
Aarhus University, Department of Biological Sciences, Building 1540, Ny Munkegade, 8000 Aarhus C, Denmark
E-mail of contact person: henrik.balslev@biology.au.dk
URL:

Title: Phylogenetic systematics and alignment (the last subject changes. Last time the course was given it was Phylogenetic systematics and historical biogeography)
Organising institution(s)/organisation(s): Natural History Museum of Denmark
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: phylogenetic theory, characters and character coding, tree building techniques, tree statistics and tree support, character tracing and character manipulation, character weighting, partitioned versus combined analysis, bayesian inference, alignment
Target level: PhD level
Periodicity: on a regular basis
Duration: 2 weeks full time
Main person responsible for the training: Ole Seberg
University of Copenhagen, Natural History Museum of Denmark, Sølvgade 83, opg. S, 1307 København K, Denmark
E-mail of contact person: oles@snm.ku.dk
URL: <http://www.bi.ku.dk/coursedocs/phylo/index.asp>

Title: Phylogenetic and molecular methods
Organising institution(s)/organisation(s): University of Copenhagen
Host organisation(s)/institution(s), if different from organiser:
Language: Danish/English
Content:
Target level: master level
Periodicity: on a regular basis
Duration: 7.5 ECTS
Main person responsible for the training: Gitte Petersen
University of Copenhagen, The Natural History Museum, Sølvgade 83, Opg. S, DK-1307 Copenhagen K, Denmark
E-mail of contact person:
URL:

Title: Marine phytoplankton, with reference to toxic species
Organising institution(s)/organisation(s): Phycology Group, Dept. of Biology in collaboration with IOC/UNESCO science and Communication Centre of Harmful Algae located at the premises of the group
Host organisation(s)/institution(s), if different from organiser:
Language: Danish/English
Content: taxonomy, ecology, biogeography, toxicity, spreading
Target level: master level, PhD level, postgraduates, specialists / professionals
Periodicity: on a regular basis and on demand
Duration: often 7,5 ECTS
Main person responsible for the training: Øjvind Moestrup together with the staff at the IOC Centre and the Phycology Group
University of Copenhagen, Dept of Biology, Øster Farimagsgade 2D, 1353 Copenhagen, Denmark
E-mail of contact person: moestrup@bi.ku.dk
URL:

Title: PhD School of Biodiversity sciences
Organising institution(s)/organisation(s): Natural History Museum of Denmark
Host organisation(s)/institution(s), if different from organiser:
Language: Danish/English
Content:
Target level: PhD level
Periodicity:
Duration:
Main person responsible for the training:
E-mail of contact person: isobis@biology.au.dk
URL: <http://www.isobis.org/>

Title: Dansk floristik - Danish floristics
Organising institution(s)/organisation(s): University of Copenhagen, Dept. of Biology, Section of Evolutionary Biology
Host organisation(s)/institution(s), if different from organiser:
Language: Danish
Content: plant identification incl. vegetative identification, nomenclature, labelling collections
Target level: undergraduates, master level
Periodicity: on a regular basis
Duration: 7.5 ECTS
Main person responsible for the training: Bo Johansen
University of Copenhagen, Dept. of Biology, Section of Evolutionary Biology, Gothersgade 140, DK-1123 Copenhagen K, Denmark
E-mail of contact person: Boj@bi.ku.dk
URL:

Title: Comparative evolutionary zoology (Zoomorphology)
Organising institution(s)/organisation(s): University of Copenhagen, Biological Institute, Dept. of Cell Biology and Comparative Zoology
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: metazoan morphology, metazoan phylogeny, comparative physiology, functional morphology, phylogenetic techniques, relation between taxonomy and phylogeny
Target level: master level, PhD level
Periodicity: on a regular basis
Duration: 2 months - 7,5 ECTS
Main person responsible for the training: Jens T. Høeg
University of Copenhagen, Biological Institute, Department of Cell Biology and Comparative Zoology, Universitetsparken 15, Building 3, DK-2100 Copenhagen, Denmark
E-mail of contact person: jthoeg@bi.ku.dk
URL: <http://www.sis.ku.dk/lp/VisKursus.asp?Knr=82588&Sprog=DK&InFrame=0>

Title: Applied biodiversity

Organising institution(s)/organisation(s): Technical University of Denmark
Host organisation(s)/institution(s), if different from organiser:
Language: Danish
Content: classification and cladification, nomenclature, identification (keys and DNA sequence methods), biodiversity of bacteria, archaea and fungi, the Rio Convention, intellectual properties etc., extremophiles and ecology, biotechnological applications
Target level: undergraduates
Periodicity: on a regular basis
Duration: 5 ECTS
Main person responsible for the training: Jens C. Frisvad
Technical University of Denmark, BioCentrum-DTU, Center for Microbial Biotechnology, Building 221 Søltofts Plads DTU, DK-2800 Kgs. Lyngby, Denmark
E-mail of contact person: jcf@biocentrum.dtu.dk
URL:

Title: Metagenomics using bioinformatics to explore microbial communities
Organising institution(s)/organisation(s): The Technical University of Denmark, Bio-Centrum
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: phylogeny, 16s diversity analysis, marker genes, biodiversity
Target level: master level, PhD level
Periodicity: on a regular basis
Duration: 4 hrs/week during 13 weeks
Main person responsible for the training: Thomas Sicheritz-Ponten
Center for Biological Sequence Analysis, Department of Biotechnology The Technical University of Denmark, Building 208, DK-2800 Lyngby, Denmark
E-mail of contact person: thomas@cbs.dtu.dk
URL: <http://www.cbs.dtu.dk/dtu/course/metagenomics/>

Title: Systematic entomology
Organising institution(s)/organisation(s): Natural History Museum of Denmark
Host organisation(s)/institution(s), if different from organiser:
Language: Danish
Content:
Target level: undergraduates
Periodicity:
Duration:
Main person responsible for the training: Niels P. Kristensen
E-mail of contact person: npkristensen@snm.ku.dk
URL: <http://www.zmuc.dk/EntoWeb/entomologi.htm>

Title: Field course in Arctic biology, Arctic Station, Greenland
Organising institution(s)/organisation(s): Natural History Museum of Denmark
Host organisation(s)/institution(s), if different from organiser:
Language:
Content:
Target level: PhD level
Periodicity: every even year
Duration: 28 days
Main person responsible for the training: Prof. Reinhardt Møbjerg Kristensen
E-mail of contact person: rmkristensen@snm.ku.dk
URL:

Title: variable
Organising institution(s)/organisation(s): International School of Biodiversity Studies (ISOBIS) participating institutions
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: course program for PhD students within the field of biodiversity sciences (also includes basic taxonomy courses)
Target level: master level
Periodicity: variable

Duration: variable
Main person responsible for the training:
E-mail of contact person:
URL: <http://www.isobis.org>

Title: Mycological field course - identification, ecology and communication
Organising institution(s)/organisation(s): University of Copenhagen, Dept. of Biology, Section of Microbiology
Host organisation(s)/institution(s), if different from organiser:
Language: English/Danish
Content: identification, taxonomy, autecology, communication
Target level: master level, PhD level
Periodicity: on a regular basis
Duration: 1 week
Main person responsible for the training: Ulrik Søchting
University of Copenhagen, Department of Biology, Section of Microbiology, Farimagsgade 2D, DK-1353 Copenhagen K, Denmark
E-mail of contact person: ulriks@bi.ku.dk
URL: <http://sis.ku.dk/lp/viskursus.asp?knr=75925&inframe=0&sprog=ects>

Title: Vertebrate palaeontology
Organising institution(s)/organisation(s): University of Copenhagen, Natural History Museum of Denmark, Geological Museum
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: evolution of vertebrates
Target level: undergraduates, master level
Periodicity: held last year, but not renewed
Duration: 9 hrs
Main person responsible for the training: Gilles Cuny
University of Copenhagen, Natural History Museum of Denmark, Geological Museum, Øster Voldgade 5-7, 1350 Copenhagen K, Denmark
E-mail of contact person: gilles@snm.ku.dk
URL:

Finland

Title: Essential cladistics
Organising institution(s)/organisation(s): University of Helsinki
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: phylogeny parsimony
Target level: undergraduates, master level, PhD level
Periodicity: on average every other year
Duration: 3-5 ECTS
Main person responsible for the training: Jaakko Hyvönen
University of Helsinki, Plant Biology, PO Box 65, FIN-00014 UNIV. Helsinki, Finland
E-mail of contact person: jaakko.hyvonen@helsinki.fi
URL: <http://www.helsinki.fi/~jhyvonen/ec05>

Title: (1) Lichen and bryophyte biology (2) Lichen and moss taxonomy, floristics and systematics (3) Herbarium taxonomy
Organising institution(s)/organisation(s): University of Helsinki, Dept. of Biological and Environmental Sciences
Host organisation(s)/institution(s), if different from organiser:
Language: Finnish/English
Content: cryptogam taxonomy, herbarium practices, nomenclature, floristics
Target level: undergraduates, master level
Periodicity: on a regular basis
Duration: 2 weeks
Main person responsible for the training: Dr. Johannes Enroth (bryophytes)

Department of Biological and Environmental Sciences University of Helsinki, P.O. Box 65 FI-00014 University of Helsinki, Finland

E-mail of contact person: johannes.enroth@helsinki.fi

URL:

Title: Insect taxonomy, especially Coleoptera. Insect pests in museums. Presentation of different insect groups (orders, important smaller insect groups, species level).

Organising institution(s)/organisation(s): Zoological museum, University of Helsinki. Some training has been given in cooperation with other institutions.

Host organisation(s)/institution(s), if different from organiser: Besides own institution training has been provided in collaborative institutions.

Language: Finnish/Swedish/English

Content: Insects, Coleoptera, Museum pests, taxonomy, faunistics

Target level: general public, amateur taxonomists, high school students, undergraduates, master level, specialists / professionals, technicians

Periodicity: one time in the framework of a special occasion and on demand

Duration: 26, 13, 1-2 hrs depending on item

Main person responsible for the training: Olof Biström

Zoological museum, PB 26 (Teollisuuskatu 23) FI-00014 University of Helsinki, Finland

E-mail of contact person: olof.bistrom@helsinki.fi

URL:

France

Title: Systématique et évolution (SE), Spécialité "Systématique, évolution et paléontologie (SEP)", MSc Evolution, Patrimoine Naturel et Sociétés

Organising institution(s)/organisation(s): Muséum national d'Histoire naturelle, Université Pierre-et-Marie Curie (Paris 6)

Host organisation(s)/institution(s), if different from organiser:

Language: French

Content:

Target level: master level

Periodicity: on a regular basis

Duration: 1 year, 60 ECTS

Main person responsible for the training: Pascal Tassy (MNHN), Jean Broutin (UPMC Paris 6)

Museum national d'Histoire naturelle, 57 rue Cuvier, 75 231 Paris cedex 05, France

E-mail of contact person: ptassy@mnhn.fr, Jean.Broutin@snv.jussieu.fr

URL: [click here](#)

Title: Acarological cursus

Organising institution(s)/organisation(s): Société des Acarologues de Langue Française (SIALF), Paris

Host organisation(s)/institution(s), if different from organiser: Variable (e.g. University of Louvain-la-Neuve [Belgium], University of Rennes [France], etc.) Note: last cursus organised in Rennes in September 1966

Language: French (sometimes English)

Content: morphology, (micro)evolution, ecology, applied aspects (e.g. mites of economic importance)

Target level: PhD level, postgraduates, specialists / professionals

Periodicity: on demand, usually every two years

Duration: usually 2 weeks

Main person responsible for the training: Variable according to the place (e.g. Prof. J Deunff, University of Rennes, current president of SIALF)

E-mail of contact person: jean.deunff@univ-rennes1.fr

URL:

Title: Structure et histoire paléontologique des grands clades de Métazoaires (PALEOMET). MSc Systématique, paléontologie et évolution

Organising institution(s)/organisation(s): Muséum national d'Histoire naturelle, Université Pierre-et-Marie Curie (Paris 6)

Host organisation(s)/institution(s), if different from organiser:

Language: French

Content: phylogeny, systematics, evolution, history of life, palaeobiogeography, anatomy

Target level: master level

Periodicity: on a regular basis

Duration: 3 ECTS

Main person responsible for the training: Dr. Pascal Tassy

E-mail of contact person: ptassy@mnhn.fr

URL: <http://www.mnhn.fr/museum/foffice/science/science/Enseignement/rubmastere/sspresentmaster.xsp>

Title: Analyse à trois éléments : systématique et biogéographie

Organising institution(s)/organisation(s): Muséum national d'Histoire naturelle, Université Pierre-et-Marie Curie (Paris 6)

Host organisation(s)/institution(s), if different from organiser:

Language: French/English

Content: cladistics, three-item analysis, area cladistics, formalization of knowledge

Target level: master level, PhD level

Periodicity: on a regular basis

Duration: 1 week, 35 hrs

Main person responsible for the training: René Zaragüeta

Université Pierre et Marie Curie, Laboratoire Informatique et Systématique (LIS), UMR 5143, Paléobiodiversité et Paléoenvironnements Équipe Systématique, Recherche Informatique et Structuration des Cladogrammes, 12 rue Cuvier, 75005 Paris (France), France

E-mail of contact person: rbz@ccr.jussieu.fr

URL:

Title: Expertise faune flore, inventaires et indicateurs de la biodiversité (E2F), Spécialité "Systématique, Evolution et Paléontologie (SEP)", Master " Evolution, Patrimoine Naturel et Sociétés"

Organising institution(s)/organisation(s): Muséum national d'Histoire naturelle, Université Pierre-et-Marie Curie (Paris 6)

Host organisation(s)/institution(s), if different from organiser:

Language: French

Content: project management, legal aspects, stakeholders, GIS, private consultancy, sampling methods, ecology and conservation, communication, inventories & monitoring, taxonomy

Target level: master level

Periodicity: on a regular basis

Duration: 1 year, 60 ECTS

Main person responsible for the training: Jacques Bardat

E-mail of contact person: bardat@mnhn.fr

URL: http://www.mnhn.fr/museum/front/medias/enSup/8070_plaquette_parcours_e2f.pdf

Title: Paléontologie et évolution (PE), Spécialité "Systématique, évolution et paléontologie (SEP)", MSc Evolution, patrimoine naturel et sociétés

Organising institution(s)/organisation(s): Muséum national d'Histoire naturelle, Université Pierre-et-Marie Curie (Paris 6)

Host organisation(s)/institution(s), if different from organiser:

Language: French

Content:

Target level: master level

Periodicity: on a regular basis

Duration: 1 year, 60 ECTS

Main person responsible for the training: Pascal Tassy (MNHN), Jean Broutin (UPMC Paris 6)

Museum national d'Histoire naturelle, 57 rue Cuvier, 75 231 Paris cedex 05, France

E-mail of contact person: ptassy@mnhn.fr, Jean.Broutin@snv.jussieu.fr

URL: [click here](#)

Title: Informatique appliquée à la Biodiversité (IAB), Spécialité "Systématique, évolution et paléontologie (SEP)", MSc Evolution, Patrimoine Naturel et Sociétés

Organising institution(s)/organisation(s): Muséum national d'Histoire naturelle, Université Pierre-et-Marie Curie (Paris 6)

Host organisation(s)/institution(s), if different from organiser:

Language: French

Content:

Target level: master level

Periodicity: on a regular basis

Duration: 1 year, 60 ECTS

Main person responsible for the training: Régine Vignes Lebbe

Museum national d'Histoire naturelle, 57 rue Cuvier, 75 231 Paris cedex 05, France

E-mail of contact person: nadia.foka@upmc.fr
URL: [click here](#)

Title: Phylogenie informatisée. Analyse des données morphologiques
Organising institution(s)/organisation(s): Muséum national d'Histoire naturelle, Université Pierre-et-Marie Curie (Paris 6)
Host organisation(s)/institution(s), if different from organiser:
Language: French
Content: systematic, cladistic, parcimonious software, amniotes, morphology, hierarchical methodology
Target level: master level
Periodicity: on a regular basis
Duration: 30 ECTS, 1 full week
Main person responsible for the training: M. Hervé Lelièvre
Museum national d'Histoire naturelle, 8 rue Buffon, CP 38 -75231 Paris cedex 05, France
E-mail of contact person: lelievre@mnhn.fr
URL:

Title: Taphonomie
Organising institution(s)/organisation(s): Muséum national d'Histoire naturelle
Host organisation(s)/institution(s), if different from organiser:
Language: French
Content: taphonomy, palaeoecology, owl pellets assemblages, archaeology, archaeozoology, diagenesis, fossilisation, anthropisation
Target level: high school students, master level, PhD level
Periodicity: on a regular basis
Duration: 30 ECTS,
Main person responsible for the training: Christiane Denys
Muséum national d'Histoire naturelle, Department Systematics & Evolution USM601 - CP51 UMR5202 Origin, structure and evolution of Biodiversity, 55 rue Buffon, 75005 Paris cedex 05, France
E-mail of contact person:
URL:

Title: (1) Biodiversité et zoologie marines (BioZoom) (UE 406) (2) Stage interuniversitaire d'écologie et de zoologie marine (SIZEM= UE 406+412)
Organising institution(s)/organisation(s): Université Pierre-et-Marie Curie (Paris 6)
Host organisation(s)/institution(s), if different from organiser: Station Biologique de Roscoff
Language: French
Content: biology and ecology of the species
Target level: master level, specialists / professionals, for any workers that need this knowledge
Periodicity: on a regular basis
Duration: (1) 2 weeks, 60 ECTS (Biozoom); (2) 4 weeks, 120 ECTS (SIZEM)
Main person responsible for the training: Ann Andersen (BioZoom), Franck gentil (SIZEM)
Observatoire Oceanologique de l'Université Paris 6, Station Biologique de Roscoff, Station Biologique de Roscoff, Place Georges Teissier, BP 74 F 29682 Roscoff, France
E-mail of contact person: andersen@sb-roscoff.fr
URL: <http://www.sb-roscoff.fr>

Title: Diversity of marine algae
Organising institution(s)/organisation(s): University Pierre et Marie Curie, Station Biologique de Roscoff
Host organisation(s)/institution(s), if different from organiser:
Language: French
Content: diversity of macroalgae, hands-on work on macroalgae samples, elements of ecology of macroalgae, elements of phylogeny of algae, identification of algae
Target level: undergraduates, master level, PhD level, postgraduates, specialists / professionals, technicians
Periodicity: on a regular basis
Duration: 12 days
Main person responsible for the training: Nathalie Simon
University Pierre et Marie Curie (Paris 6), Station Biologique de Roscoff, Place Georges Teissier, BP 74 29682 Roscoff cedex, France
E-mail of contact person: simon@sb-roscoff.fr

Germany

Title: Invertebrate systematics

Organising institution(s)/organisation(s): Museum Koenig, Bonn

Host organisation(s)/institution(s), if different from organiser:

Language: German/ English

Content: beta and gamma taxonomy, determination of species collected in the field, basic nomenclature rules

Target level: high school students, master level

Periodicity: once a year

Duration: 1 month

Main person responsible for the training: J. W. Waegele

Museum Alexander Koenig and University Bonn, Zoologisches Forschungsmuseum Alexander Koenig, Adenauerallee 160, 53113 Bonn, Germany

E-mail of contact person:

URL:

Title: Workshop- workshop on Indian Ocean zooplankton

Organising institution(s)/organisation(s): Universities and research Organizations

Host organisation(s)/institution(s), if different from organizer: Alfred Weigner Institute, Bremerhaven

Language: English

Content: general lectures on zooplankton collection and analyses, identification of important taxa, species identification of selected taxa

Target level: undergraduates, postgraduates, technicians

Periodicity: on demand

Duration: 2 weeks

Main person responsible for the training: Dr. Vijayalakshmi R. Nair, Retired Senior Scientist, National Institute Oceanography, Consultant in Marine Biology

E-mail of contact person: jhugget@deat.gov.za

URL:

Title: Die Methoden-Vielfalt der molekularen Systematik vorgestellt

Organising institution(s)/organisation(s): Botanischer Garten und Botanisches Museum Berlin -Dahlem

Host organisation(s)/institution(s), if different from organiser:

Language: German

Content: workshop der AG Junge Systematiker - "Methoden-Vielfalt in der molekularen Systematik: Einführung und Überblick

Target level:

Periodicity: yearly

Duration: 1 month

Main person responsible for the training:

E-mail of contact person:

URL: <http://biosys-serv.biologie.uni-ulm.de/gfbs/Fachgruppen/Jungesystem/3werkstattVeran.html>

Title: Biological resource management and training

Organising institution(s)/organisation(s): German Resource Centre for Biological Material (DSMZ)

Host organisation(s)/institution(s), if different from organiser:

Language: English

Content: Most applicants are seeking information on modern prokaryote systematics, coming with their own unidentified material, leaving with the assessment of phylogenetic relatedness and (in many cases) a description suitable for publication

Target level: master level, PhD level, postgraduates, specialists / professionals, technicians

Periodicity: on demand

Duration: between 2 days and several months

Main person responsible for the training: Dr. Erko Stackebrandt

German Resource Centre for Biological Material (DSMZ), German Collection of Microorganisms and Cell Cultured, Inhoffenstr. 7B, 38124 Braunschweig, Germany

E-mail of contact person: erko@dsmz.de

URL:

Title: Botanical identification using keys

Organising institution(s)/organisation(s): Freie Universität Berlin, Botanischer Garten und Botanisches Museum Berlin-Dahlem

Host organisation(s)/institution(s), if different from organiser:

Language: German

Content: botany, morphology, field work

Target level: undergraduates

Periodicity: on a regular basis

Duration: 2 hrs/week

Main person responsible for the training: Birgit Gemeinhlozer

Freie Universität Berlin, Botanischer Garten und Botanisches Museum Berlin-Dahlem, Königin-Luise-Straße 6-8, D-14195 Berlin, Germany

E-mail of contact person:

URL:

Title: Botanische bestimmungsübungen - Practicals of botanic determination

Organising institution(s)/organisation(s): Freie Universität Berlin, Institut für Biologie, Systematische Botanik und Pflanzengeographie

Host organisation(s)/institution(s), if different from organiser:

Language: German

Content:

Target level: undergraduates

Periodicity: on a regular basis

Duration: 30 hrs, 60 hrs preparation + learning

Main person responsible for the training: Prof. Dr. Hartmut Hilger

Freie Universität Berlin, Institut für Biologie, Systematische Botanik und Pflanzengeographie, Altensteinstr. 6, D-14195 Berlin, Germany

E-mail of contact person:

URL:

Title: Einführung in die spinnenbestimmung - Introduction to the spider determination

Organising institution(s)/organisation(s): AraDet, Office of arachnological determination

Host organisation(s)/institution(s), if different from organiser: Naturschutzgebiet Heiliges Meer, Naturschutzgebiet Rieselfelder Münster

Language: German

Content:

Target level: general public, amateur taxonomists, high school students, undergraduates, specialists / professionals

Periodicity: on demand

Duration: 1-4 days

Main person responsible for the training: Dr. Martin Kreuels

AraDet, Office of arachnological determination, Alexander-Hammer-Weg 9, 48161 D-Muenster, Germany

E-mail of contact person: kreuels@bionetworx.de

URL: <http://www.aradet.de>

Title: Digital inking. Use of computers for perfect taxonomic illustrations.

Organising institution(s)/organisation(s): Museum für Naturkunde Berlin

Host organisation(s)/institution(s), if different from organiser:

Language: English

Content: illustration technique, digital drawing

Target level: amateur taxonomists, master level, PhD level, postgraduates, specialists / professionals, technicians

Periodicity: on demand

Duration: 2 days

Main person responsible for the training: Charles Oliver Coleman

Museum für Naturkunde (Museum of Natural History), Invalidenstraße 43, D-10115 Berlin, Germany

E-mail of contact person: oliver.coleman@museum.hu-berlin.de

URL:

Title: Chironomid larvae and pupal exuviae. Identification and ecology.
Organising institution(s)/organisation(s): OrendtHydrobiologie, WaterBioAssessment
Host organisation(s)/institution(s), if different from organiser: inviting institution
Language: English/German
Content: taxonomy, morphology, identification and identification techniques, taxonomic forms, first steps
Target level: amateur taxonomists, high school students, PhD level, postgraduates, specialists / professionals, technicians
Periodicity: on demand
Duration: 3-5 days
Main person responsible for the training: Dr. Claus Orendt
OrendtHydrobiologie WaterBioAssessment, Arndtstraße 63 HHS, 04275 Leipzig, Germany
E-mail of contact person: orendt@hydro-bio.de
URL:

Title: Taxonomy of recent Dinophyta
Organising institution(s)/organisation(s): Forschungsinstitut Senckenberg, Deutsches Zentrum für marine Biodiversitätsforschung, Wattenmeerstation Sylt des Alfred-Wegener-Instituts für Polar- und Meeresforschung
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: taxonomy of recent dinophytes, morphology, life cycle, sexual reproduction, classification, nomenclature
Target level: high school students, PhD level, postgraduates, specialists / professionals, technicians
Periodicity: yearly
Duration: 7 days
Main person responsible for the training: Dr. Malte Elbrächter
Forschungsinstitut Senckenberg Deutsches Zentrum für marine Biodiversitätsforschung Wattenmeerstation Sylt des Alfred-Wegener-Instituts für Polar- und Meeresforschung, Wattenmeerstation Sylt Hafentr. 43, D- 25992 List/Sylt, Germany
E-mail of contact person: melbraechter@awi-bremerhaven.de
URL:

Title: (1) Research into the evolution, phylogeny, systematics, and taxonomy of microalgae (this is for students wishing to obtain an academic degree in the biological sciences) (2) Field Courses "Diversity and Evolution of Algae" (separate courses for freshwater or marine algae)
Organising institution(s)/organisation(s): University of Cologne, Botany Dept.
Host organisation(s)/institution(s), if different from organiser:
Language: German/English
Content: phylogenetic analysis, knowledge of the diversity of algae, ecology of algae, conservation, culture collections, evolution and systematics, species concepts, etc.
Target level: undergraduates, master level
Periodicity: on a regular basis
Duration: 5-14 days (full day)
Main person responsible for the training: Prof. Melkonian
Universität zu Köln (University of Cologne), Botanisches Institut Lehrstuhl, Gyrhofstr. 15, D-50931 Köln, Germany
E-mail of contact person: michael.melkonian@uni-koeln.de
URL:

Title: Taxonomischer kurs - Taxonomy
Organising institution(s)/organisation(s): Freie Universität Berlin, Botanischer Garten und Botanisches Museum Berlin-Dahlem
Host organisation(s)/institution(s), if different from organiser:
Language: German/English
Content:
Target level: master level
Periodicity: on a regular basis
Duration: 2 weeks
Main person responsible for the training: Walter Berendsohn, Norbert Kilian
Freie Universität Berlin, BGBM Berlin-Dahlem, Königin-Luise-Str. 6-8, 14191 Berlin, Germany
E-mail of contact person:
URL:

Title: (1) Modern and fossil Foraminifera (2) Applied micropaleontology
Organising institution(s)/organisation(s): University of Bonn, Micropaleontology Research Group, Inst. of Paleontology
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: biogeography, applied micropaleontology, biostratigraphy, biodiversity
Target level: master level, PhD level, postgraduates, specialists / professionals
Periodicity: on a regular basis and on demand
Duration: 1-2 weeks
Main person responsible for the training: Prof. Dr. Martin Langer
Institute of Paleontology, Nussallee 8, University of Bonn, 53115 Bonn, Germany
E-mail of contact person: martin.langer@uni-bonn.de
URL: <http://www.paleontology.uni-bonn.de/frame02.htm>

Greece

Title: Investigation of the taxonomy, zoogeography and phylogeny of the circum-Mediterranean fresh water shrimps of the genera *Atyaephyra*, *Caridina* and *Dugastella*
Organising institution(s)/organisation(s): Aristotle University of Thessaloniki
Host organisation(s)/institution(s), if different from organiser:
Language: Greek
Content:
Target level:
Periodicity:
Duration:
Main person responsible for the training:
E-mail of contact person:
URL:

Hungary

Title: Systematic zoology
Organising institution(s)/organisation(s): Eötvös University, Biological Institute, Dept. of Systematic Zoology
Host organisation(s)/institution(s), if different from organiser:
Language: Hungarian
Content: Classification and phylogeny of animals. Theories of taxonomy; phenetic, numerical, cladistical and evolutionary taxonomy. Relationship between Taxonomy and Systematics. Molecular biology methods in taxonomy. Mass extinctions. Characteristics of the kingdom Protista; classification of protozoan phyla; evolutionary relationships among the various protists, life cycles of some parasitic protists. Theories of origin of metazoans. Characteristics, phylogeny, adaptive radiation and classification of the Phylum Porifera, Placozoa, Cnidaria, Ctenophora, Platyhelminthes, Nemertini, Kamptozoa, Nematoda, Gastrotricha, Rotatoria, Nematomorpha, Kinorhyncha, Acanthocephala, Priapulida, Mollusca, Gephyrea, Annelida, Onychophora, Tardigrada, Arthropoda, Tentaculata, Brachiata, Homalopterygia, Hemichordata, Echinodermata phyla. General characteristics of Chordates. Main division of the Phylum Chordata. Characteristics, phylogeny, adaptive radiation and classification of the Subphylum Urochordata. Characteristics, phylogeny, adaptive radiation and classification of the Subphylum Cephalochordata. Origin of the Early Vertebrates. Characteristics, phylogeny, adaptive radiation and classification of the Classes Myxini, Cephalaspidimorphi, Chondrichthyes, Actinopterygii, Sarcopterygii. Early evolution of terrestrial vertebrates. Characteristics, phylogeny, adaptive radiation and classification of the Class Amphibia. Evolution of amniotes. Extinct reptilian groups. Characteristics, phylogeny, adaptive radiation and classification of the Class Anapsida. Characteristics, phylogeny, adaptive radiation and classification of the Class Diapsida. Origin of modern birds, adaptation to the flight, extinct species. Characteristics, phylogeny, adaptive radiation and classification of the Class Aves. Origin and evolution of mammals. Characteristics and classification of the Class Mammals. Adaptations and specialisations among mammals
Target level: undergraduates
Periodicity: on a regular basis
Duration: 60 ECTS lecture, and 90 ECTS practical course
Main person responsible for the training: Klára Dózsa-Farkas
E-mail of contact person: dfk66@freemail.hu
URL:

Iceland

Title: B.Sc. degree in Biology M.Sc. or Ph.D. degree in botany/plant ecology
Organising institution(s)/organisation(s): University of Iceland, Dept. of Biology
Host organisation(s)/institution(s), if different from organiser:
Language: Icelandic/English
Content:
Target level: undergraduates, master level
Periodicity: on demand
Duration: 6 ECTS
Main person responsible for the training: Thora Ellen Thorhallsdottir
Institute of Biology, University of Iceland, Askja Natural Sciences Building, Sturlugata 7, IS-101 Reykjavik, Iceland
E-mail of contact person: theth@hi.is
URL:

Ireland

Title: (1) MSc in Biodiversity and conservation (2) PhD in Plant systematics
Organising institution(s)/organisation(s): University of Dublin, Trinity College of Dublin, School of Botany
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content:
Target level: master level, PhD level, postgraduates
Periodicity: on a regular basis and on demand
Duration: 60 ECTS for MSc, not specified for PhD
Main person responsible for the training: Prof. J. Parnell
Trinity College Dublin, School of Botany, School of Botany, Trinity College Dublin, University of Dublin Dublin 2, Ireland
E-mail of contact person: jparnell@tcd.ie
URL:

Title: CoBiD - Collections based biology in Dublin
Organising institution(s)/organisation(s): National Museum of Ireland, Natural History in partnership with University College Dublin, School of Biology and Environmental Science
Host organisation(s)/institution(s), if different from organiser: UCD School of Biology and Environmental Science (lectures) and National Museum of Ireland - Natural History (practicals)
Language: English
Content:
Target level:
Periodicity:
Duration:
Main person responsible for the training: Ms. Julia Sigwart
E-mail of contact person: julia.sigwart@ucd.ie
URL: <http://www.ucd.ie/zoology/museum/>

Italy

Title: Principles and Methods of Phylogenetic Systematics
Organising institution(s)/organisation(s): Faculty of Science Degree ("Laurea") in Evolutionary Biology
Host organisation(s)/institution(s), if different from organiser:
Language: Italian
Content: the course is focused on systematics and phylogenetics
Target level: undergraduates, master level
Periodicity: on a regular basis
Duration: 50 hours, 25 lessons
Main person responsible for the training: Marco Oliverio

La Sapienza Rome University, Dept. of Animal and Human Biology, Viale dell'Università 32, 00185 Roma, Italy
E-mail of contact person: marco.oliverio@uniroma1.it
URL:

Title: 9th Advanced Phytoplankton Course- Taxonomy and Systematics
Organising institution(s)/organisation(s): Stazione Zoologica 'A. Dohrn'
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: marine phytoplankton, Bacillariophyceae, Dinophyceae, Prymensiophyceae, Prasinophyceae, Chrysophyceae, Cryptophyceae, cultivation, light microscopy, electron microscopy, phylogeny, molecular methods
Target level: PhD level, postgraduates, specialists / professionals
Periodicity: every 3-4 years, depending on time, space and money resources
Duration: 2 weeks
Main person responsible for the training: Adriana Zingone, Diana Sarno
Stazione Zoologica 'A. Dohrn', Villa Comunale, 80121 Napoli, Italy
E-mail of contact person: zingone@szn.it, diana@szn.it
URL: <http://www.szn.it/apc9>

Title: Courses on the taxonomic identification of terrestrial invertebrates
Organising institution(s)/organisation(s): Museo Civico di Storia Naturale di Ferrara, Stazione di Ecologia
Host organisation(s)/institution(s), if different from organiser: Stazione di Ecologia, Museo Civico di Storia Naturale di Ferrara
Language: Italian
Content: general systematic background, anatomy and external morphology of each group of invertebrates, main diagnostic features, collecting, mounting and preparing techniques, observation at the stereomicroscope
Target level: amateur taxonomists, undergraduates, master level, PhD level, postgraduates, specialists / professionals, technicians
Periodicity: every two-three years
Duration: 40 hrs, 1 week
Main person responsible for the training: Carla Corazza
Museo Civico di Storia Naturale di Ferrara, Stazione di Ecologia, Via De Pisis 24, 44100 Ferrara, Italy
E-mail of contact person: c.corazza@comune.fe.it
URL: <http://www.comune.fe.it/storianaturale>

Title: The orthopteroid insects
Organising institution(s)/organisation(s): Not a fixed training but on demand by University, museums, public institutions
Host organisation(s)/institution(s), if different from organiser:
Language: Italian/Spanish
Content: orthopteroid insects, ecology, biology, ethology, bioacoustics, collection, preservation, identification, conservations
Target level: amateur taxonomists, PhD level, technicians
Periodicity: on demand
Duration: 20 hrs
Main person responsible for the training: Dr. Paolo Fontana
Entomologist Università di Padova Dipartimento Agronomia Ambientale e Produzioni Vegetali - Entomologia, AGRIPOLIS, Viale dell'Università 16, 35020 Legnaro (Padova), Italy
E-mail of contact person: paolo.fontana@unipd.it
URL:

Lithuania

Title: Principles of zoological systematics
Organising institution(s)/organisation(s): Vilnius university, Dept. of Zoology
Host organisation(s)/institution(s), if different from organiser:
Language:
Content:
Target level: master level
Periodicity: on a regular basis

Duration: 6 ECTS

Main person responsible for the training: Rimantas Rakauskas

Vilnius university, Department of Zoology, Vilnius university, Ciurlionio str. 21/27, Vilnius, LT 03101, Lithuania

E-mail of contact person: rimantas.rakauskas@gf.vu.lt

URL:

Title: Taxonomy of Pemphredoninae wasps

Organising institution(s)/organisation(s): Vilnius University, Inst. of Ecology

Host organisation(s)/institution(s), if different from organiser:

Language: English/Russian/Lithuanian

Content: taxonomy, identification, Pemphredoninae

Target level: specialists / professionals

Periodicity: on demand

Duration: 1 day

Main person responsible for the training: E. Budrys

Vilnius University, Institute of Ecology, Akademijos 2, Vilnius LT-08412, Lithuania

E-mail of contact person: ebudrys@ekoi.lt

URL:

Netherlands

Title: Biodiversity and pattern analysis

Organising institution(s)/organisation(s): Universiteit Leiden

Host organisation(s)/institution(s), if different from organiser:

Language: Dutch

Content: Systematic research and its applications, like biodiversity analysis on taxonomic level. Describing organisms scientifically, character analysis, making determination keys, interpreting classifications, making classifications with the aid of cladistic computer programmes.

Target level: undergraduates

Periodicity: yearly

Duration: 12 ECTS

Main person responsible for the training: Dr. M. Roos, Dr. P. van Welzen

E-mail of contact person: roos@nhn.leidenuniv.nl, welzen@nhn.leidenuniv.nl

URL: <http://www.studiegids.leidenuniv.nl/index.php3?m=1&c=17&t=3&v=&k=13047&oc=982&garb=0.9161316066731258>

Title: Excursie marien-litoraal

Organising institution(s)/organisation(s): Universiteit Leiden

Host organisation(s)/institution(s), if different from organiser:

Language: Dutch

Content: Field trip of one week to a station in the North of France. Focus on the mutual relations of plants and animals and their abiotic environment.

Target level: undergraduates

Periodicity: yearly

Duration: 1 week (2 ECTS)

Main person responsible for the training: Dr. R. Kooi

E-mail of contact person: r.e.kooi@biology.leidenuniv.nl

URL: <http://www.studiegids.leidenuniv.nl/index.php3?m=1250&c=17&t=3&v=&k=13051&oc=982&garb=0.18169745330233727>

Title: Collections and research

Organising institution(s)/organisation(s): Universiteit Leiden

Host organisation(s)/institution(s), if different from organiser:

Language: English

Content:

Target level: undergraduates

Periodicity: yearly

Duration: 3 ECTS

Main person responsible for the training: Dr. M. Roos

E-mail of contact person: roos@nhn.leidenuniv.nl

URL: <http://www.studiegids.leidenuniv.nl/index.php3?c=17&t=3&q=aWQ9MTQ4ODA=&v=&k=14880>

Title: Tropical plant families

Organising institution(s)/organisation(s): Universiteit Leiden

Host organisation(s)/institution(s), if different from organiser:

Language: English

Content: The course gives a foundation in the characteristics and recognition of a selection of economically and ecologically important tropical plant families. The students will learn and practice how to make good plant collections, how to describe field characters (generative - flower and fruit and vegetative - leaf and bark) and how to recognise selected important plant families. The students will themselves identify material using traditional and electronic / interactive keys. Using the recent so-called APG-II (Angiosperm Phylogeny Group system II), modern and traditional views on the classification of plants will be discussed, especially in relation to the morphological recognition of taxa.

Target level: undergraduates

Periodicity: yearly

Duration: 1 term (4 ECTS)

Main person responsible for the training: Dr. M. Roos

E-mail of contact person: roos@nhn.leidenuniv.nl

URL: <http://www.studiegids.leidenuniv.nl/index.php3?c=17&t=3&q=aWQ9NzUxNQ==&v=&k=7515>

Title: Pollen

Organising institution(s)/organisation(s): Universiteit Leiden

Host organisation(s)/institution(s), if different from organiser:

Language: English

Content: This course of lectures, demonstrations and practicals gives an introduction into the study of pollen morphology and some of its applications. In the first week attention is paid to structural diversity, functional and evolutionary aspects, and the identification of pollen types. Different aperture systems and wall structures will be examined with light microscopy and scanning electron microscopy. The acquired knowledge is applied in the second week in identifying and counting pollen grains in soil samples from an archaeological context. The results are used to construct pollen diagrams, which should be interpreted in view of the observed changes in the vegetation in the area and its surroundings due to climate changes and human activities.

Target level: undergraduates

Periodicity: yearly

Duration: 2 weeks (2 ECTS)

Main person responsible for the training: Dr. R. van der Ham

E-mail of contact person: ham@nhn.leidenuniv.nl

URL:

<http://www.studiegids.leidenuniv.nl/index.php3?m=1250&c=17&t=3&v=&k=13083&oc=4497&garb=0.48196607930594604>

Title: Angiosperm phylogeny

Organising institution(s)/organisation(s): Universiteit Leiden

Host organisation(s)/institution(s), if different from organiser:

Language: Dutch

Content: phylogeny of flowering plants and the major evolutionary developments, changing views on phylogenetic relations within the angiosperms, morphological characterisation of the presently accepted main clades, overview of morphological diversity in flowers, present insights in and disputes over the evolution of flowers

Target level: undergraduates

Periodicity: yearly

Duration: 1 term (1 ECTS)

Main person responsible for the training: Dr. M. Roos

E-mail of contact person: roos@nhn.leidenuniv.nl

URL: <http://www.studiegids.leidenuniv.nl/index.php3?m=1250&c=17&t=3&v=&k=14821&oc=4497&garb=0.5689757237582178>

Title: Economic botany

Organising institution(s)/organisation(s): Universiteit Leiden

Host organisation(s)/institution(s), if different from organiser:

Language: English

Content: This course, of lecture and demonstrations (1st week) and one written assignment (2nd week), gives a foundation in the genetic principles underlying domestication and the systematics of the major groups of crop and plants, with particular emphasis on tropical examples. The course will thereby allow students to appreciate not only the botany of

cultivated plants, their structure, evolution, and systematics, but also the relevance of these studies to the economies of both temperate and tropical countries. Specific topics include e.g. origins of agriculture, food and other economic crops arranged to commodity groups (like roots, cereals, pulses, fruits, beverages, oils & fats, timbers & firewood crops, fibres & latex, pharmaceuticals, herbs & spices, and ornamentals). In the second week comprises a literature study in couples on a chosen objective, the results of which are orally presented on the last day and in a written assignment afterwards.

Target level: undergraduates, master level, PhD level

Periodicity: yearly

Duration: 2 weeks (4 ECTS)

Main person responsible for the training: Dr. N. Raes

E-mail of contact person: raes@nhn.leidenuniv.nl

URL: <http://www.nationaalherbarium.nl/EconomicBotany/home.htm>

Title: Course Systematics of Neotropical Plant Families

Organising institution(s)/organisation(s): Netherland Consortium of Taxonomic Institutions, Nationaal Herbarium Nederland

Host organisation(s)/institution(s), if different from organiser:

Language: English

Content: Course concerning the recognition of plant families in Tropical America. The course is primarily intended for students who are planning to conduct taxonomical or ecological field work in the Neotropics.

Target level: undergraduates, master level, PhD level

Periodicity: yearly

Duration: 8 weeks in May and June (12 ECTS)

Main person responsible for the training: Dr. Lars Chatrou

E-mail of contact person: l.w.chatrou@bio.uu.nl

URL: <http://www.bio.uu.nl/~herba/course.html>

Title: MSc in Biodiversity and systematics

Organising institution(s)/organisation(s): Netherland Consortium of Taxonomic Institutions, Nationaal Herbarium Nederland

Host organisation(s)/institution(s), if different from organiser:

Language: English

Content: The programme is linked to the specialisation courses on "Systematics and Evolution" and/or "Biology and the Environment". It provides basic knowledge on the theory, methodology and practice of systematics and taxic biodiversity studies.

Target level: undergraduates

Periodicity: yearly

Duration: 18 months (6 for courses, 12 for practical work)

Main person responsible for the training: P. de Graaf (Secretary)

E-mail of contact person: p.degraaf@lacdr.leidenuniv.nl

URL: http://www.nationaalherbarium.nl/rhb/msc_program.htm

Title: International MSc in Natural products and biodiversity

Organising institution(s)/organisation(s): Netherland Consortium of Taxonomic Institutions, Nationaal Herbarium Nederland

Host organisation(s)/institution(s), if different from organiser:

Language: English

Content: different aspects of the exploration and sustainable exploitation of biodiversity, methods for phytochemical screening and testing of biological activity of plant extracts, isolation and identification of natural products, chemotaxonomy and the role of secondary metabolism

Target level: undergraduates

Periodicity: yearly

Duration: 18 months (6 for courses, 12 for practical work)

Main person responsible for the training: P. de Graaf (Secretary)

E-mail of contact person: p.degraaf@lacdr.leidenuniv.nl

URL: http://www.nationaalherbarium.nl/rhb/msc_program.htm

Title: Seminar biodiversity

Organising institution(s)/organisation(s): Universiteit Leiden

Host organisation(s)/institution(s), if different from organiser:

Language: English

Content: The seminar provides insight in the scientific debate about the definition and interpretation of the concept, in the state of the art in biodiversity research and in the application of the concept in actual policy making and management. A broad spectrum of aspects of biodiversity is discussed. The biodiversity of the world is believed to decrease at such a speed

that one speaks of a “biodiversity crisis”. By ratifying the Convention of Biological Diversity (UNEP, 1992), many governments have agreed to “develop national strategies, plans or programmes for the conservation and sustainable use of biological diversity”. But what exactly is ‘biodiversity’? And what do we know about it? How important is it and for whom? Is it possible to set attainable goals for biodiversity? When should these goals be reached? How should priorities be set? Can existing policy, of the Netherlands as well as of international institutions, be considered as ‘biodiversity friendly’? These and related questions will be discussed based on both scientific papers and policy documents.

Target level: undergraduates

Periodicity: yearly

Duration: 12 meetings of 2 hrs (4 ECTS)

Main person responsible for the training: Dr. C. Musters

E-mail of contact person: musters@cml.leidenuniv.nl

URL: <http://www.studiegids.leidenuniv.nl/index.php3?m=1250&c=17&t=3&v=&k=13091&oc=2875&garb=0.9132551527025693>

Title: Phycology

Organising institution(s)/organisation(s): Universiteit Leiden branch, Nationaal Herbarium Nederland

Host organisation(s)/institution(s), if different from organiser:

Language: Dutch/English

Content: Algae, Chlorophyta, Rhodophyta, Phaeophyceae, seaweeds, taxonomy

Target level: master level

Periodicity: on a regular basis

Duration: 1 week (phycology)

Main person responsible for the training: Stefano Draisma

Universiteit Leiden, Nationaal Herbarium Nederland, P.O. Box 9514, 2300 RA, Leiden Einsteinweg 2, 2333 CC, Leiden, Netherlands

E-mail of contact person: roos@nhn.leidenuniv.nl

URL:

Title: Excursie (Flora) Zuid-Limburg

Organising institution(s)/organisation(s): Universiteit Leiden

Host organisation(s)/institution(s), if different from organiser:

Language: Dutch

Content: Diversity of the wild flora in the Netherlands. Focus on the relation organism-environment, evolution, collecting methods, knowledge of forms, determination. Course in the form of field trips with lectures and practicals, one-week stay in the Zuid-Limburg.

Target level: undergraduates

Periodicity: yearly

Duration: 1 term (2 ECTS)

Main person responsible for the training: Dr. B. Graveldeel, R. van der Meijden

E-mail of contact person: barbaragraveldeel@hotmail.com, ruud.meijden@planet.nl

URL: <http://www.studiegids.leidenuniv.nl/index.php3?m=1250&c=17&t=3&v=&k=13194&oc=982&garb=0.6038110691449717>

Title: Mycology

Organising institution(s)/organisation(s): Universiteit Leiden

Host organisation(s)/institution(s), if different from organiser:

Language: Dutch

Content: diversity of the fungal kingdom (Ascomycota and Basidiomycota) and the various uses of fungi by mankind

Target level: undergraduates

Periodicity: yearly

Duration: 1 term (2 ECTS)

Main person responsible for the training: Dr. M. Nauta

E-mail of contact person: nauta@nhn.leidenuniv.nl

URL: <http://www.studiegids.leidenuniv.nl/index.php3?m=1250&c=17&t=3&v=&k=14800&oc=4497&garb=0.9287650406653158>

Title: Applied taxonomy

Organising institution(s)/organisation(s): Zoological Museum of the University of Amsterdam

Host organisation(s)/institution(s), if different from organiser:

Language: English/Dutch/German/Bahasa Indonesia/reporting in English

Content: applied taxonomy, evolutionary biology, conservation, biogeography, writing scientific paper, presenting data orally

Target level: undergraduates, master level

Periodicity: on demand
Duration: 10-60 ECTS
Main person responsible for the training: Vincent Nijman
Zoological Museum of the University of Amsterdam, Mauritskade 61, 1092 AD Amsterdam, Netherlands
E-mail of contact person: nijman@science.uva.nl
URL:

Title: Floragebruik
Organising institution(s)/organisation(s): Universiteit Leiden
Host organisation(s)/institution(s), if different from organiser:
Language: Dutch
Content: training in the use of Heukels' Flora
Target level: undergraduates
Periodicity: yearly
Duration: 1 term (1 ECTS)
Main person responsible for the training: Dr. M. Nauta
E-mail of contact person: nauta@nhn.leidenuniv.nl
URL: <http://www.studiegids.leidenuniv.nl/index.php3?m=1257&c=17&t=3&v=&k=13038&oc=981&garb=0.4977267790414981>

Title: Systematics and population genetics
Organising institution(s)/organisation(s): University of Amsterdam, Inst. for Biodiversity and Ecosystem Dynamics
Host organisation(s)/institution(s), if different from organiser:
Language: Dutch, partly English
Content: characters, character types, character weighting, variation, nomenclature, macrotaxonomy, historical development of macrotaxonomy, importance of museum collections, phenetics, cladistics, species concepts, distance measures, molecular characters, inferring phylogenies, parsimony, support values, tree construction, physical geography, biogeography, historical biogeography, dispersal, vicariance, panbiogeography, cladistic biogeography, phylogeography, island biogeography, molecular clock
Target level: undergraduates
Periodicity: on a regular basis
Duration: 12 weeks
Main person responsible for the training: Dr. Ronald Sluys
University of Amsterdam, Zoological Museum, Mauritskade 57, 1092 AD Amsterdam, The Netherlands
E-mail of contact person: sluys@science.uva.nl
URL:

Title: Systematic and evolutionary biology (SEB)
Organising institution(s)/organisation(s): Inst. of Biodiversity and Ecosystem Dynamics (IBED)
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: phylogeography, biogeography, genetics, phylogenetics
Target level: master level
Periodicity: on a regular basis
Duration: 120 ECTS
Main person responsible for the training: Prof. Dr. Steph Menken
E-mail of contact person: vonk@science.uva.nl
URL: http://www.studeren.uva.nl/msc_ecology_and_evolution/

Title: Web-based taxonomy and biodiversity information management
Organising institution(s)/organisation(s): University of Amsterdam, ETI Bioinformatics
Host organisation(s)/institution(s), if different from organiser: ETI Bioinformatics University of Amsterdam Mauritskade 61 1092 AD Amsterdam The Netherlands Phone: +31 20 5257239 Fax: +31 20 5257238 Web: www.eti.uva.nl
Language: English/Dutch
Content: The course focuses on web-based taxonomy, biodiversity information processing, electronic data sharing, and interoperability in the context of the Global Biodiversity Information Facility (GBIF) in support of the Convention on Biological Diversity (CBD). In addition to overview lectures there are presentations of practical use cases, and a hands-on session using an information management tool to create taxonomic and biodiversity information systems. The exercise encompasses building taxonomic (multimedia) databases, computer-aided-identification systems, and an interactive geographic information system. Glossaries, literature reference, methodology data are integrated in the system. The software for web-based-taxonomy supports GBIF SpeciesBanks and is used for treating plants, animals and fungi. This course

encompasses: - Overview of recent bio-informatics developments with respect to biodiversity data management innovations (e.g. EU-EDIT, Species2000 and Catalogue of Life, GBIF); collection and observation databases; 3D imaging for types - Practical introduction to interoperability principles; DiGIR, BioCASE, TAPIR protocols; EBCD, Darwin Core, SPICE, SpeciesPage schemas; demonstration cases and web portals - Work program and function of the National GBIF Node (NLBIF) web portal - Information management, web-based taxonomy, and SpeciesBank systems - Hands-on training session in digitizing data, applying data standards, creating multimedia taxonomic databases, assembling computer aided keys and interactive geographic information systems. Includes 3D imaging. The courses take place in ETI's MultiMediaLab where the trainees have access to multimedia computer workstations, fast Internet connectivity, and guidance of specialist

Target level: master level, PhD level, postgraduates, specialists / professionals, technicians
Periodicity: on a regular basis and on demand
Duration: 2 to 4 days depending on level
Main person responsible for the training: Huub Velthuisen (data processing)
E-mail of contact person: huub@eti.uva.nl
URL: http://www.science.uva.nl/ibed/biodiversity/Education/taxdataprocedure/doc_en.html

Title: Plant families of Southeast Asia
Organising institution(s)/organisation(s): Nationaal Herbarium Nederland
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: identification of various plant families, uses of taxonomy nomenclature terminology, recognition in the field as well as in the herbarium, keys
Target level: master level, PhD level, postgraduates, specialists / professionals, technicians
Periodicity: on a regular basis and on demand
Duration: 3 weeks fulltime
Main person responsible for the training: Dr. Paul J.A. Keßler
Universiteit Leiden, Nationaal Herbarium Nederland, P.O. Box 9514, 2300 RA Leiden, The Netherlands
E-mail of contact person: Kessler@nhn.leidenuniv.nl
URL:

Title: Entomology course at Leiden University
Organising institution(s)/organisation(s): Nationaal Natuurhistorisch Museum Naturalis & Leiden University
Host organisation(s)/institution(s), if different from organiser: Leiden University
Language: English/Dutch
Content: taxonomy, evolution of some main groups, phylogeny, collecting, preparation, making descriptions and illustrations (including digital ones)
Target level: undergraduates, master level
Periodicity: on a regular basis
Duration: 1 week
Main person responsible for the training: Jan van Tol
E-mail of contact person: tol@naturalis.nnm.nl
URL:

Title: CBS Course of mycology
Organising institution(s)/organisation(s): Centraalbureau voor Schimmelcultures (CBS)
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: culture work, isolation, microscopy, morphological and molecular identification, nomenclature, ecology, classification, survey of main groups of fungi
Target level: master level, PhD level, postgraduates, specialists / professionals, technicians
Periodicity: on a regular basis
Duration: 10 working days
Main person responsible for the training: Gerard J. M. Verkley, Pedro W. Crous (Course Leaders)
Centraalbureau voor Schimmelcultures (CBS), Fungal Biodiversity Centre, P. O. Box 8517, 3508 AD Utrecht,, The Netherlands
E-mail of contact person: verkley@cbs.knaw.nl
URL: <http://www.cbs.knaw.nl/courses>

Title: Erasmus course in systematic biology
Organising institution(s)/organisation(s): Several: European network of Institutes and Universities
Host organisation(s)/institution(s), if different from organiser: Zoological Museum of the University of Amsterdam
Language: English

Content:
Target level: master level
Periodicity:
Duration: 1 week
Main person responsible for the training: Prof. Dr. F.R. Schram (has retired and is now in the USA)
E-mail of contact person:
URL:

Title: Paleobiology
Organising institution(s)/organisation(s): Universiteit Leiden
Host organisation(s)/institution(s), if different from organiser:
Language: Dutch
Content: The goal is to obtain a better understanding of the time dimension in the development of the present biodiversity. The following aspects will be discussed: What is time? (basal stratigraphic principles), development of the flora, development of the vertebrates, recognition/identification of fossils, fossils and nomenclature, diversity assessment.
Target level: undergraduates
Periodicity: yearly
Duration: 1 term (1 ECTS)
Main person responsible for the training: Dr. L. van den Hoek Ostende
E-mail of contact person: hoek@naturalis.nl
URL: <http://www.studiegids.leidenuniv.nl/index.php3?m=1&c=17&t=3&v=&k=14818&oc=983&garb=0.41433079536709827>

Title: (1) Introduction to phylogenetic analysis (2) Advanced topics in phylogenetic analysis
Organising institution(s)/organisation(s): Nationaal Herbarium Nederland
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: phylogenetic analysis
Target level: PhD level
Periodicity: on demand
Duration: 1 week
Main person responsible for the training: Peter Hovenkamp
Universiteit Leiden, Nationaal Herbarium Nederland, PO Box 9514, 2300 RA Leiden, Netherlands
E-mail of contact person:
URL:

Norway

Title: Advanced course with title "Biodiversity of northeast Atlantic macroalgae"
Organising institution(s)/organisation(s): Nordic Marine Academy
Host organisation(s)/institution(s), if different from organiser: University of Bergen
Language: English
Content: taxonomy, systematics, species identification, species interactions, marine community structure
Target level: PhD level
Periodicity: one time in the framework of a special occasion
Duration: 9 days, 4 ECTS
Main person responsible for the training: Kjersti Sjøtun
University of Bergen, Department of Biology, PO Box 7800, 5020 Bergen, Norway
E-mail of contact person: kjersti.sjotun@bio.uib.no
URL: <http://armauer.uib.no/nma/>

Title: (1) Biosystematic and nomenclature (2) MSc and PhD in biosystematics
Organising institution(s)/organisation(s): Norwegian university of Science and Technology, The Museum of natural history Dept.
Host organisation(s)/institution(s), if different from organiser:
Language: Norwegian/English
Content:
Target level: undergraduates, master level, PhD level, postgraduates, specialists / professionals
Periodicity: on a regular basis

Duration: 30 hrs

Main person responsible for the training:

Norwegian university of science and technology, The Museum of natural history and archaeology, Erlings Skakkest 47, 7491 Trondheim, Norway

E-mail of contact person: kaare.aagaard@vm.ntnu.no

URL:

Title: Workshop: training in fish taxonomy

Organising institution(s)/organisation(s): Institute of Marine Research (IMR)

Host organisation(s)/institution(s), if different from organiser:

Language: Norwegian

Content: identification of freshly thawed material from IMR-based Fish Reference Collection, collected material from cruises (simulation of fish work on IMR cruises), identification key testing and preparation, special fish groups difficult to identify

Target level: specialists / professionals, technicians

Periodicity: on a regular basis

Duration: 3 days +

Main person responsible for the training: Franz Uiblein

Institute of Marine Research, Norway

E-mail of contact person: franz@imr.no

URL:

Not established but previously in Estonia

Title: Identification of freshwater Oligochaeta

Organising institution(s)/organisation(s): Not established, ready to lead the training when organised by somebody anywhere

Host organisation(s)/institution(s), if different from organiser: Not established this moment. Formerly, has been organised and held by the Swedish Agricultural University (Uppsala, Sweden), BioConsult (Aarhus, Denmark), Moscow University (Russia)

Language: English/Russian/Estonian/German

Content: freshwater Oligochaeta

Target level: master level, specialists / professionals

Periodicity: on demand

Duration: 1 week

Main person responsible for the training: Tarmo Timm

Estonian University of Life Sciences, Institute of Agricultural and Environmental Sciences, Centre for Limnology, 61117

Rannu, Tartumaa, Estonia

E-mail of contact person:

URL:

Poland

Title: DNA sequencing and microsatellite analysis

Organising institution(s)/organisation(s): Polish Academy of Sciences, Museum and Inst. of Zoology, Service of Molecular Biology

Host organisation(s)/institution(s), if different from organiser: Museum and Institute of Zoology Polish Academy of Sciences

Language: Polish/English

Content: the history of DNA sequencing, how properly determine DNA sequence?, mitochondrial genome - an overview, characterisation and methods of microsatellite's analysis, microsatellite markers in population genetics and taxonomy

Target level: master level, PhD level, postgraduates, specialists / professionals, technicians

Periodicity: on a regular basis

Duration: 3 days (approx. 6 hrs/day)

Main person responsible for the training: Robert Rutkowski

Museum and Institute of Zoology, Polish Academy of Sciences, Wilcza 64, 00-679 Warsaw, Poland

E-mail of contact person: robertrut@miiz.waw.pl

URL:

Title: International doctoral studies in natural sciences

Organising institution(s)/organisation(s): Wladyslaw Szafer Institute of Botany, Polish Academy of Sciences, IB PAS
Host organisation(s)/institution(s), if different from organiser:
Language: Polish/English
Content:
Target level: master level
Periodicity: yearly
Duration: 4 years
Main person responsible for the training: Ewa Zastawniak
E-mail of contact person: e.zastaw@ib-pan.krakow.pl
URL: <http://bobas.ib-pan.krakow.pl/Institute/Nowosci/doc-ang.htm>

Title: Doctoral School
Organising institution(s)/organisation(s): Museum and Institute of Zoology, Polish Academy of Sciences, MIZ PAS
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: The School offers a high level education and scientific training to PhD students in biological sciences, in specialties of zoology, ecology and paleobiology. It includes obligatory and supplementary courses, other organised educational activities and research work under the guidance of a supervisor. Educational program of the School includes: (1) obligatory subjects: evolution, molecular methods in biological research, biodiversity conservation, statistics - 60h (2) supplementary subjects chosen by students at an advise of his/her supervisor form the courses offered by different institutes of Polish Academy of Sciences, University of Warsaw, Warsaw Agricultural University [for foreign students the offer is limited to those lectured in English] - min 60h (3) doctoral seminars (4) individual preparation to three doctoral exams (philosophy, foreign language and the main discipline of the thesis) required by the ministerial regulations on PhD degree.
Target level: master level
Periodicity: yearly
Duration: 4 years
Main person responsible for the training: Prof. Dr. Joanna Gliwicz
E-mail of contact person: gliwicz@miiz.waw.pl
URL: <http://www.miiz.waw.pl/index2.php?lk=studium/studium&jk=en>

Title: Current methods in taxonomy researches
Organising institution(s)/organisation(s): University of Rzeszow, Dept. of Biochemistry and Cell Biology
Host organisation(s)/institution(s), if different from organiser:
Language: English/Polish
Content:
Target level: high school students, master level, PhD level, postgraduates
Periodicity:
Duration: 2 weeks
Main person responsible for the training: Dr. Izabela Sadowska-Woda
Department Biochemistry and Cell Biology University of Rzeszow, ul. Cegielniana 12, 35-959 Rzeszow, Poland
E-mail of contact person: isadowska@poczta.fm
URL:

Title: Methods of modern taxonomy
Organising institution(s)/organisation(s): University of Warsaw
Host organisation(s)/institution(s), if different from organiser:
Language: Polish
Content: species concept, phenetics, phylogenetics, parsimony, maximum likelihood, molecular markers, nucleotide substitution models, distance methods, bootstrap, phylogenetic tree, reticulate evolution, historical biogeography, phylogeography, comparative methods, molecular ecology, conservation
Target level: undergraduates, master level
Periodicity: on a regular basis
Duration: 30 hrs (2 ECTS)
Main person responsible for the training: Krzysztof Spalik
University of Warsaw, Aleje Ujazdowskie 4, 00-478 Warszawa, Poland
E-mail of contact person: spalik@biol.uw.edu.pl
URL: [https://usosweb.dak.uw.edu.pl/kontroler.php?action=actionx:katalog2/przedmioty/pokazPrzedmiot\(prz_kod:1400-215MTAKS\)&lang=2](https://usosweb.dak.uw.edu.pl/kontroler.php?action=actionx:katalog2/przedmioty/pokazPrzedmiot(prz_kod:1400-215MTAKS)&lang=2)

Portugal

Title: Curso de botânica: Flora e vegetação Mediterrânica - Botanical course: Mediterranean flora and vegetation
Organising institution(s)/organisation(s): University of Lisbon, Faculty of Sciences, Center for Ecology and Plant Biology (CEBV)
Host organisation(s)/institution(s), if different from organiser:
Language: Portuguese
Content: plant identification, practical field observation of plant communities, characterisation of Mediterranean vegetation, ecological adaptations, Portuguese habitats characterisation
Target level: amateur taxonomists, postgraduates, technicians, high school professors
Periodicity: on a regular basis
Duration: 7 days, 8 hrs/day
Main person responsible for the training: Prof. Maria Amélia Martins-Loução
E-mail of contact person: ajpereira@fc.ul.pt
URL: <http://cebv.fc.ul.pt/botanica>

Title: Mycology
Organising institution(s)/organisation(s): University of Trás-os-Montes e Alto Douro
Host organisation(s)/institution(s), if different from organiser:
Language: Portuguese
Content: main characteristics of fungi, nutritional types, biodiversity, identification using morphological and molecular tools, ecology
Target level: high school students, postgraduates
Periodicity: yearly
Duration: 2 months
Main person responsible for the training: Guilhermina Marques
University of Trás-os-Montes e Alto Douro, Apartado 1013 5000-811 Vila Real, Portugal
E-mail of contact person: gmarques@utad.pt
URL:

Title: MSc in Biodiversity and conservation
Organising institution(s)/organisation(s): University of Madeira, Dept. of Biology and Centre for Macaronesian Studies
Host organisation(s)/institution(s), if different from organiser:
Language: Portuguese/English
Content: conservation genetics, policy and legislation of biodiversity, systematics and taxonomy, ecology of populations and communities, biological data bases and gis, man and biodiversity, management and conservation of biodiversity
Target level: undergraduates, specialists / professionals
Periodicity: on a regular basis
Duration: 120 ECTS
Main person responsible for the training: Thomas Dellinger Graça Costa
CEM, University of Madeira, Campus da Penteada, 9000-390 Funchal, Portugal
E-mail of contact person: g.costa@sapo.pt
URL: <http://www.uma.pt/biologia>

Slovakia

Title: (1) Plant taxonomy (2) Experimental taxonomy
Organising institution(s)/organisation(s): Comenius University in Bratislava, Faculty of Sciences, Dept. of Botany
Host organisation(s)/institution(s), if different from organiser:
Language: Slovak
Content:
Target level: undergraduates
Periodicity: yearly
Duration:
Main person responsible for the training: Prof. Ján Miškovic
E-mail of contact person:
URL:

Title: Application of molecular methods in taxonomy
Organising institution(s)/organisation(s): Slovak Academy of Sciences, Inst. of Botany
Host organisation(s)/institution(s), if different from organiser:
Language: Slovak
Content:
Target level: PhD level
Periodicity: yearly
Duration: 1 term
Main person responsible for the training: Dr. Karol Marhold, Prof. Dr. Judita Lihová
E-mail of contact person: karol.marhold@savba.sk , judita.lihova@savba.sk
URL:

Title: Plant system and evolution
Organising institution(s)/organisation(s): Slovak Academy of Sciences, Inst. of Botany
Host organisation(s)/institution(s), if different from organiser:
Language: Slovak
Content:
Target level: PhD level
Periodicity: yearly
Duration: 1 term
Main person responsible for the training: Dr. Pavol Martónfi
E-mail of contact person: pavol.martonfi@upjs.sk
URL:

Title: (1) Zoology of Invertebrates (2) Zoology of Vertebrates
Organising institution(s)/organisation(s): Comenius University in Bratislava, Faculty of Natural Sciences, Dept. of Zoology
Host organisation(s)/institution(s), if different from organiser:
Language: Slovak
Content:
Target level:
Periodicity: yearly
Duration:
Main person responsible for the training: Dr. Eduard Stloukal, Prof. Krolína Sobeková
E-mail of contact person: stloukal@fns.uniba.sk, sobekova@fns.uniba.sk
URL:

Title: Principles and methods in plant taxonomy
Organising institution(s)/organisation(s): Slovak Academy of Sciences, Inst. of Botany
Host organisation(s)/institution(s), if different from organiser:
Language: Slovak
Content:
Target level: PhD level
Periodicity: yearly
Duration: 1 term
Main person responsible for the training: Dr. Karol Marhold
E-mail of contact person: karol.marhold@savba.sk
URL:

Title: (1) Medical herbs (2) Plant systematics (3) Training course in the field
Organising institution(s)/organisation(s): Constantine the Philosopher University in Nitra, Faculty of Natural Sciences, Dept. of Botany and Genetic
Host organisation(s)/institution(s), if different from organiser:
Language: Slovak
Content:
Target level:
Periodicity:
Duration:

Main person responsible for the training: Dr. Roman Kuna
E-mail of contact person:
URL:

Title: Taxonomical and syntaxonomical nomenclature
Organising institution(s)/organisation(s): Slovak Academy of Sciences, Inst. of Botany
Host organisation(s)/institution(s), if different from organiser:
Language: Slovak
Content:
Target level: PhD level
Periodicity: yearly
Duration: 1 term
Main person responsible for the training: Dr. Karol Marhold
E-mail of contact person: karol.marhold@savba.sk
URL:

Title: Animal taxonomy
Organising institution(s)/organisation(s): Comenius University in Bratislava, Faculty of Natural Sciences, Dept. of Zoology
Host organisation(s)/institution(s), if different from organiser:
Language: Slovak
Content:
Target level: undergraduates
Periodicity: yearly
Duration:
Main person responsible for the training: Dr. Eduard Stloukal, Prof. Krolína Sobeková
E-mail of contact person: stloukal@fns.uniba.sk, sobekova@fns.uniba.sk
URL:

Title: Systematic botany: higher plants
Organising institution(s)/organisation(s): Technical University in Zvolen, Faculty of Forestry, Dept. of phytology
Host organisation(s)/institution(s), if different from organiser:
Language: Slovak
Content:
Target level: undergraduate
Periodicity: yearly
Duration: 1 term
Main person responsible for the training: Prof. Dr Jaroslav Kontriš
E-mail of contact person: kontris@is.tuzvo.sk
URL:

Title: (1) Systematical botany (2) Plants pooling expeditions
Organising institution(s)/organisation(s): Slovak University of Agriculture in Nitra, Faculty of Agrobiological and Food Resources, Dept. of Botany
Host organisation(s)/institution(s), if different from organiser:
Language: Slovak
Content:
Target level: undergraduate
Periodicity: yearly
Duration:
Main person responsible for the training: Dr. Tibor Baranec
E-mail of contact person: baranec@afnet.uniag.sk
URL:

Title: (1) Systematics and ecology of algae and fungi (2) Systematics and ecology of higher plants
Organising institution(s)/organisation(s): Matej Bel University in Banská Bystrica, Faculty of Natural Sciences, Dept. of Biology
Host organisation(s)/institution(s), if different from organiser:
EDIT - WP 8. Report on existing training resources for taxonomy in Europe.

Language: Slovak
Content:
Target level: undergraduate
Periodicity: yearly
Duration: each 1 term
Main person responsible for the training: Dr. Zuzana Zupková
E-mail of contact person:
URL:

Title: (1) Systematics and ecology of invertebrates (2) Systematics and ecology of vertebrates
Organising institution(s)/organisation(s): Matej Bel University in Banská Bystrica, Faculty of Natural Sciences, Dept. of Biology
Host organisation(s)/institution(s), if different from organiser:
Language: Slovak
Content:
Target level: undergraduate
Periodicity: yearly
Duration: each 1 term
Main person responsible for the training: Dr. Zuzana Zupková
E-mail of contact person:
URL:

Title: (1) Botany I (2) Botany II (3) Training in field
Organising institution(s)/organisation(s): Univerzita Pavla Jozefa Šafárika v Košiciach, Prírodovedecká fakulta, Katedra botaniky
Host organisation(s)/institution(s), if different from organiser:
Language: Slovak
Content:
Target level: undergraduate
Periodicity: yearly
Duration: each 1 term
Main person responsible for the training: Dr. Martin Bačkor, Dr. Pavol Martónfi
E-mail of contact person:
URL:

Title: (1) Zoology I (2) Zoology II (3) Training in field
Organising institution(s)/organisation(s): P. J. Šafárik University in Košice, Faculty of Natural Sciences
Host organisation(s)/institution(s), if different from organiser:
Language: Slovak
Content:
Target level: undergraduate
Periodicity: yearly
Duration: each 1 term
Main person responsible for the training: Dr. Igor Hudec
E-mail of contact person:
URL:

Title: (1) Zoology (2) Systematics
Organising institution(s)/organisation(s): Univerzita Konštantína Filozofa v Nitre, Fakulta prírodných vied, Katedra zoológie a antropológie
Host organisation(s)/institution(s), if different from organiser:
Language:
Content:
Target level:
Periodicity:
Duration:
Main person responsible for the training: Dr. Mária Vondráková
E-mail of contact person:
URL:

Title: Botany of forestry
Organising institution(s)/organisation(s): Technical University in Zvolen, Faculty of Forestry, Dept. of phytology
Host organisation(s)/institution(s), if different from organiser:
Language: Slovak
Content:
Target level:
Periodicity: yearly
Duration: 1 term
Main person responsible for the training: Dr. Jaroslav Kontriš

E-mail of contact person: kontris@is.tuzvo.sk
URL:

Title: Phylogenetics and systematics of higher plants
Organising institution(s)/organisation(s): University of Nitra (Constantine the Philosopher), Faculty of Natural Science
Host organisation(s)/institution(s), if different from organiser:
Language: Slovak
Content:
Target level: master level
Periodicity: on a regular basis
Duration: 1 term
Main person responsible for the training: Dr. Peter Štrba
University of Nitra (Constantine the Philosopher), Faculty of Natural Science, Department of Botany and Genetics, Trieda Andreja Hlinku 1, 949 74 Nitra, Slovakia
E-mail of contact person: pstrba@ukf.sk
URL:

Title: Systematic botany: lower plants
Organising institution(s)/organisation(s): Technical University in Zvolen, Faculty of Forestry, Dept. of phytology
Host organisation(s)/institution(s), if different from organiser:
Language: Slovak
Content:
Target level: undergraduate
Periodicity: yearly
Duration: 1 term
Main person responsible for the training: Prof. Dr. Jaroslav Kontriš
E-mail of contact person: kontris@is.tuzvo.sk
URL:

Title: Plant taxonomy
Organising institution(s)/organisation(s): P.J.Šafárik University Institute of Biology and Ecology, Dept. of Botany Košice
Host organisation(s)/institution(s), if different from organiser:
Language: Slovak
Content: sources data, history of plant taxonomy, botanical classification, phenetics, cladistics, plant evolution, cytometry, molecular approaches, botanical nomenclature
Target level: master level
Periodicity: on a regular basis
Duration: 53 hrs in 3 months
Main person responsible for the training: Assoc. Prof. Pavol Mártonfi
P.J. Šafárik University, Institute of Biology and Ecology, Department of Botany Institute of Biology and Ecology, Mánesova 23, Košice SK - 043 52, Slovakia
E-mail of contact person: pavol.martonfi@upjs.sk
URL:
http://ais.upjs.sk/servlet/javanet/Report?_template=st/sp/studijne_programy.free&idR=250545&idF=350001&idO=551&idP=0

Title: Systematic of bacteria
Organising institution(s)/organisation(s): Slovak University of Agriculture in Nitra

Host organisation(s)/institution(s), if different from organiser: Slovak academy of sciences
Language: Slovak/English
Content:
Target level: undergraduates
Periodicity: on demand
Duration: 2 days
Main person responsible for the training:
E-mail of contact person:
URL:

Title: Mycology
Organising institution(s)/organisation(s): Slovak University of Agriculture, Dept. of Microbiology
Host organisation(s)/institution(s), if different from organiser: -
Language: Slovak
Content: Zygomycota, Ascomycota, Basidiomycota
Target level: high school students
Periodicity: on a regular basis
Duration: 13 weeks
Main person responsible for the training: Dr. Ir. Dana Tancinova
Slovak University of Agriculture, Department of Microbiology, 949 11 Nitra, Slovakia
E-mail of contact person: roman.labuda@uniag.sk
URL:

Title: Phylogenetic and systematic of lower plants
Organising institution(s)/organisation(s): University of Nitra (Constantine the Philosopher), Faculty of Natural Science, Dept. of Botany and Genetics
Host organisation(s)/institution(s), if different from organiser:
Language: Slovak
Content:
Target level: master level
Periodicity: on a regular basis
Duration: 1 term
Main person responsible for the training: Dr. Peter štrba
University of Nitra (Constantine the Philosopher), Faculty of Natural Sciences, Trieda Andreja Hlinku 1, 949 74 Nitra, Slovakia
E-mail of contact person: pstrba@ukf.sk
URL:

Slovenia

Title: Plant taxonomy
Organising institution(s)/organisation(s): University of Ljubljana, Biotechnicalo Faculty, Dept. of Biology
Host organisation(s)/institution(s), if different from organiser: University of Ljubljana, Biotechnicalo Faculty, Dept. of Biology
Language: Slovenian
Content:
Target level: undergraduates
Periodicity: on a regular basis
Duration: 1 year, 90hrs+90hrs+6 days
Main person responsible for the training: Nejc Jogan
University of Ljubljana, Biotechnicalo Faculty, Dept. of Biology, Vecna pot 111, SI-1000 Ljubljana, Slovenia
E-mail of contact person: nejc.jogan@bf.uni-lj.si
URL:

Title: Methods in plant taxonomy and floristics
Organising institution(s)/organisation(s): University of Ljubljana, Biotechnicalo Faculty, Dept. of Biology
Host organisation(s)/institution(s), if different from organiser: University of Ljubljana, Biotechnicalo Faculty, Dept. of Biology
Language: Slovenian
Content:

Target level: master level
Periodicity: on a regular basis
Duration: 30 hrs of lectures/individual consultations
Main person responsible for the training: Nejc Jogan
University of Ljubljana, Biotechnical Faculty, Dept. of Biology, Vecna pot 111, SI-1000 Ljubljana, Slovenia
E-mail of contact person: nejc.jogan@bf.uni-lj.si
URL:

Spain

Title: 2nd SYNTHESYS Course in management, conservation and care of natural history collections
Organising institution(s)/organisation(s): SYNTHESYS European project Network Activities C and Museo Nacional de Ciencias Naturales (CSIC)
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: challenges facing collections in the 21st century, legal and convention issues, collection management, development of collections care: strategy conservation management plans, collection assessment (practical exercise), collection documentation (data bases), coordination and communication of data, museum environment, storage, handling and control, loans
Target level: master level, specialists / professionals
Periodicity: as result of SYNTHESYS Project; during 2007 and 2008; we are trying to get fundings for organised on a regular basis
Duration: 5 days (40 hrs)
Main person responsible for the training: Dr. Simon Owens and Dr. Robert Huxley
E-mail of contact person: jbarreiro@mncn.csic.es
URL: <http://www.mncn.csic.es> , Synthesys collection course.

Title: Field identification of Mediterranean decapod crustaceans on board fishery research vessels
Organising institution(s)/organisation(s): Institut de Ciències del Mar (CSIC)
Host organisation(s)/institution(s), if different from organiser: Sometimes training is provided on board vessels belonging to the Instituto Español de Oceanografía
Language: Spanish/Catalan
Content:
Target level: postgraduates, specialists / professionals
Periodicity: provided to scientific participants in fishery research surveys
Duration:
Main person responsible for the training: Pere Abelló
Institut de Ciències del Mar (CSIC), Passeig Marítim 37-49, 08003 Barcelona, Spain
E-mail of contact person: pabello@icm.csic.es
URL:

Title: IBERFAUNA. El banco de datos de la fauna Ibérica - The Iberian fauna databank.
Organising institution(s)/organisation(s): Museo Nacional de Ciencias Naturales (CSIC)
Host organisation(s)/institution(s), if different from organiser:
Language: Spanish
Content:
Target level:
Periodicity:
Duration:
Main person responsible for the training:
E-mail of contact person:
URL: <http://iberfauna.mncn.csic.es>

Title: Curso teórico-práctico de nomenclatura zoológica
Organising institution(s)/organisation(s): Sociedad de Amigos del Museo Nacional de Ciencias Naturales
Host organisation(s)/institution(s), if different from organiser: Museo Nacional de Ciencias Naturales (CSIC)
Language: Spanish
Content: 1. Historia de la Nomenclatura Zoológica (2 horas). 2. Principios del Código. Estudio detenido de su articulado (12

horas). 3. Conocimientos básicos de latín y de griego para uso nomenclatural (2 horas). 4. Recomendaciones para una correcta praxis nomenclatural (1 hora). 5. Un ejemplo real de la aplicación del Código y de la praxis correcta (1 hora). 6. Temas prácticos (2 horas)

Target level: amateur taxonomists, undergraduates, master level, PhD level, postgraduates, specialists / professionals, technicians

Periodicity: on a regular basis

Duration: 4 hrs/day during 5 days

Main person responsible for the training: Miguel A. Alonso-Zarazaga (Commissioner, ICZN)

CSIC (Spanish High Council for Scientific Research), Depto. de Biodiversidad y Biología Evolutiva Museo Nacional de Ciencias Naturales (CSIC) C/. José Gutiérrez Abascal 2, E-28006 Madrid, Spain

E-mail of contact person: zarazaga@mncn.csic.es

URL: http://www.sam.mncn.csic.es/cursos_seminarios1.php?idcursosimi=21

Sweden

Title: Research Master in Evolutionary biology

Organising institution(s)/organisation(s): Uppsala University, Evolutionary Biology Centre

Host organisation(s)/institution(s), if different from organiser:

Language: English

Content: evolutionary processes, evolutionary patterns, independent research projects

Target level: master level

Periodicity: on a regular basis

Duration: 2 years

Main person responsible for the training: Prof. Jacob Höglund, Dr. Mikael Thollesson

Uppsala University, Population Biology and Conservation Biology, Dept. of Ecology & Evolution, Evolutionary Biology Centre, Norbyv. 18D, SE-752 36, Uppsala, Sweden

E-mail of contact person:

URL: <http://www.ibg.uu.se/en/master/index.html>

Title: MSc programme in Biology - Systematics and biodiversity

Organising institution(s)/organisation(s): Uppsala University, Biology Education Centre (IBG)

Host organisation(s)/institution(s), if different from organiser:

Language: English

Content:

Target level: master level

Periodicity: yearly

Duration: 120 ECTS

Main person responsible for the training:

E-mail of contact person: mikael.thollesson@ebc.uu.se

URL:

Title: Taxonomic Theory. An advanced undergraduate course, for studies leading to a Degree of Bachelor or Master

Organising institution(s)/organisation(s): Göteborg University, Systematics and Biodiversity, Joint course by two Depts.:

Dept. of Plant and Environmental Sciences & Dept. of Zoology

Host organisation(s)/institution(s), if different from organiser:

Language: English if needed (otherwise Swedish)

Content: biodiversity, species description, nomenclature, phylogenetics, cladistics, molecular systematics, dna sequences

Target level: undergraduates, master level

Periodicity: on a regular basis

Duration: 2.5 months, 15 ECTS

Main person responsible for the training: Prof. Bengt Oxelman

E-mail of contact person: bengt.oxelman@dpes.gu.se

URL: [click here](#)

Title: Biology and evolution of insects

Organising institution(s)/organisation(s): Uppsala University, Biology Education Centre

Host organisation(s)/institution(s), if different from organiser:

Language: Swedish/English

Content: systematics, morphology
Target level: undergraduates
Periodicity: on a regular basis
Duration: 15 ECTS
Main person responsible for the training: Marita Wigren
E-mail of contact person: Marita.Wigren@uadm.uu.se
URL: <http://www.inter.uadm.uu.se/pdf/Courses-Taught-in-English-2006-2007.pdf>

Title: Analyzing biodiversity and life history
Organising institution(s)/organisation(s): Marine Genomics (network of excellence)
Host organisation(s)/institution(s), if different from organiser: Kristineberg Marine Research Station
Language: English
Content: diversity of meiofauna, phylogenomics and metazoan systematics, phylogeography of marine species, DNA barcoding and modern taxonomy, marine life cycles and larval diversity, reproductive systems in marine invertebrates, biodiversity indices and marine communities
Target level: PhD level, specialists / professionals
Periodicity: on a regular basis
Duration: 2 weeks intense course (11 days, 8.30-18.00)
Main person responsible for the training: Matthias Obst
Kristineberg Marine Research Station, Kristineberg 566, 450 34 Fiskebäckskil, Sweden
E-mail of contact person: matthias.obst@kmf.gu.se
URL: <http://www.marine-genomics-europe.org/index2.php?ppid=53&mode=libre&rub=b>

Switzerland

Title: Konzepte und methoden der taxonomie - Concepts and methods in taxonomy
Organising institution(s)/organisation(s): University of Zürich, Inst. of Systematic Botany
Host organisation(s)/institution(s), if different from organiser:
Language: German
Content: phytographie (describing plant taxa), nomenclature, identification (traditional keys, multi-entry identification tools), phenetics, DELTA, NTSYS-pc
Target level: master level, PhD level
Periodicity: on a regular basis
Duration: 14 days, 6 ECTS
Main person responsible for the training: Reto Nyffeler
University of Zürich, Institute of Systematic Botany, Zollikerstrasse 107, CH-8008 Zürich, Switzerland
E-mail of contact person: reto.nyffeler@systbot.unizh.ch
URL: http://www.systbot.unizh.ch/studium/kurse/bio_223.php

United Kingdom

Title: BIOL1406 Natural history - year 1 undergraduate course
Organising institution(s)/organisation(s): University of Plymouth
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: natural history, phylogeny, taxonomy, major discriminatory features of use in identification, and identification of organisms using standard taxonomic resources
Target level: undergraduates
Periodicity: on a regular basis
Duration: 75 hrs
Main person responsible for the training: A. Foggo
School of Biological Sciences University of Plymouth UK, Drake Circus, Plymouth PL4 8AA, UK
E-mail of contact person: AFoggo@Plymouth.ac.uk
URL:

Title: MSc in Biodiversity and taxonomy of plants

Organising institution(s)/organisation(s): Royal Botanic Garden Edinburgh, University of Edinburgh

Host organisation(s)/institution(s), if different from organiser:

Language: English

Content: functions and philosophy of taxonomy, evolution and biodiversity of the major plant groups, fungi, and lichens, plant geography, conservation strategies, surveys and monitoring, production and use of floras and monographs, biodiversity databases, phylogenetic analysis, population and conservation genetics, field research and plant collecting, curation of living collections, herbaria and libraries, plant morphology, anatomy and development, molecular systematics

Target level: master level

Periodicity: on a regular basis

Duration: 1 year

Main person responsible for the training: Louis Ronse De Craene

Royal Botanic Garden Edinburgh, 20A Inverleith Row, Edinburgh EH3 5LR, UK

E-mail of contact person: l.ronsedecraene@rbge.ac.uk

URL: http://www.rbge.org.uk/rbge/web/edu/msc_course.jsp

Title: (1) MSc in Micropalaeontology (2) two week specialist training modules in microfossil groups from the MSc

Organising institution(s)/organisation(s): Natural History Museum, Imperial College London

Host organisation(s)/institution(s), if different from organiser: University College London

Language: English

Content: taxonomy of major microfossil groups, biostratigraphy, palaeoecology, Eukaryote biology

Target level: master level, specialists / professionals

Periodicity: on a regular basis

Duration: 1 year - or 2 week modules

Main person responsible for the training:

E-mail of contact person:

URL: http://www.es.ucl.ac.uk/graduate/micropal/UCL-NHM_Msc.html

Title: MSc/Diploma in Biodiversity and taxonomy of plants

Organising institution(s)/organisation(s): University of Edinburgh

Host organisation(s)/institution(s), if different from organiser: Royal Botanic Garden Edinburgh

Language: English

Content: plants and people, plant geography, cladistics, angiosperm biodiversity, herbarium taxonomy, evolution of plants and fungi, biodiversity of cryptogams and fungi, phylogeny, population genetics, molecular systematics, algae, diatoms, cytology, cytogenetics, tropical botany

Target level: postgraduates

Periodicity: on a regular basis

Duration: 1 year, full-time

Main person responsible for the training: Dr. Louis Ronse de Craene

E-mail of contact person: l.ronsedecraene@rbge.ac.uk

URL: http://www.rbge.org.uk/rbge/web/edu/msc_course.jsp

Title: MSc / Mres in Biodiversity and conservation

Organising institution(s)/organisation(s): University of Leeds, with Natural England

Host organisation(s)/institution(s), if different from organiser:

Language: English

Content:

Target level: master level

Periodicity: on a regular basis

Duration: 1 year

Main person responsible for the training: Steve Compton

Faculty of biological sciences University of Leeds, Leeds LS2 9JT, UK

E-mail of contact person:

URL: <http://www.fbs.leeds.ac.uk/gradschool/BCMSc/>

Title: Taxonomy and identification - a component of MSc Conservation ecology

Organising institution(s)/organisation(s): Oxford Brookes University

Host organisation(s)/institution(s), if different from organiser:

Language: English

Content:

Target level: master level

Periodicity: on a regular basis
Duration: 20 CAT
Main person responsible for the training: Dr. T Shreeve
School of Life Sciences Oxford Brookes University, Headington Oxford, OX3 0BP, UK
E-mail of contact person: tgshreeve@brookes.ac.uk
URL:

Title: MSc in Biological recording: collection and management
Organising institution(s)/organisation(s): University of Birmingham
Host organisation(s)/institution(s), if different from organiser: Field Studies Council
Language: English
Content: record management, vascular plant identification, invertebrate identification, Bryophyte identification
Target level: postgraduates
Periodicity: on a regular basis
Duration: 2 years
Main person responsible for the training: Sarah Whild
University of Birmingham School of Biosciences, The Gateway, Chester St shrewsbury, SY1 1NB, UK
E-mail of contact person: S.J.Whild@bham.ac.uk
URL:

Title: Biological identification and taxonomy
Organising institution(s)/organisation(s): Swansea University, Dept. of Adult Continuing Education
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: identification and taxonomic rules evidence used to distinguish organisms, cladistics, phenology
Target level: general public, amateur taxonomists
Periodicity: usually every four years or so
Duration: 10 hrs, 2½ ECTS
Main person responsible for the training: Dr. Michael Isaac
Department of Adult Continuing Education, Swansea University, Singleton Park, Swansea, SA2 8PP, UK
E-mail of contact person: m.isaac@swansea.ac.uk
URL:

Title: MSc/Diploma in Ecological management and biological conservation
Organising institution(s)/organisation(s): Queen's University Belfast
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: introduction, community ecology, rapid biodiversity assessment, invasion biology, case studies, interpretation and critique of genetically-based information, environmental economics, biodiversity action plans, principles of environmental modeling, environmental impact assessments and legislation, databases, role of museums, reference/voucher collections, species identification projects, literature review, research project
Target level: master level
Periodicity: on a regular basis
Duration: 1 year
Main person responsible for the training: M.P. Johnson
Queen's University Belfast, Ecology and Evolutionary Biology Research Group, School of Biological Sciences, 97 Lisburn Road, Belfast BT9 7BL, UK
E-mail of contact person: m.johnson@qub.ac.uk
URL: <http://www.qub.ac.uk/bb/research/ecology.html>

Title: Freshwater algae course 2006
Organising institution(s)/organisation(s): The Natural History Museum, London, Dept. of Botany
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: freshwater algae, identification, algal morphology and structure, algal reproduction
Target level: PhD level, postgraduates, specialists / professionals, technicians
Periodicity: on a regular basis
Duration: 7 days
Main person responsible for the training: Prof Elliot Shubert
E-mail of contact person: e.shubert@nhm.ac.uk

URL:

Title: Biological identification courses of various freshwater organisms
Organising institution(s)/organisation(s): Freshwater Biological Association
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content:
Target level: general public, amateur taxonomists, high school students, undergraduates, master level, PhD level, postgraduates, specialists / professionals, Biological recorders and naturalists
Periodicity: on a regular basis
Duration: variable depending on the course
Main person responsible for the training: variable depending on the course
E-mail of contact person:
URL:

Title: International Diploma in Botanic garden management
Organising institution(s)/organisation(s): Royal Botanic Gardens, Kew
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: The course will cover the following topics: the role of educators in botanic gardens, overview of conservation practices, principles of plant biology, identification of target groups, basic principles of learning and teaching, planning and designing educational materials, outreach programmes, interpretation, marketing, fund-raising, monitoring and evaluation, networking, partnership and collaboration.
Target level: specialists / professionals
Periodicity: every two years
Duration: 8 weeks
Main person responsible for the training:
E-mail of contact person: courses@kew.org
URL: <http://www.kew.org/education/highered/index.html>

Title: Identification qualification
Organising institution(s)/organisation(s): Natural History Museum, London
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: The IdQ scheme aims to improve standards in environmental monitoring, impact assessment and conservation work by awarding certificates in competence in animal and plant identification to biologists and ecologists.
Target level: undergraduates, master level, PhD level
Periodicity: pending on suitable number of candidates
Duration:
Main person responsible for the training: The Research and Consulting Office
E-mail of contact person: idq@nhm.ac.uk
URL: <http://www.nhm.ac.uk/research-curation/postgraduate/idq/index.html>

Title: 7 interdisciplinary PhD research themes
Organising institution(s)/organisation(s): Natural History Museum, London
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: Doctoral students at the Museum are all jointly supervised in collaboration with both British and universities overseas
Target level: PhD level
Periodicity:
Duration: 3 years
Main person responsible for the training:
E-mail of contact person:
URL: <http://www.nhm.ac.uk/research-curation/postgraduate/phd/research-themes/index.html>

Title: PhD Research Programmes

Organising institution(s)/organisation(s): Royal Botanic Gardens, Kew
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content:
Target level: master level
Periodicity:
Duration: 3 years
Main person responsible for the training:
E-mail of contact person:
URL: <http://www.rbgkew.org.uk/education/phd.html>

Title: MSc Ethnobotany
Organising institution(s)/organisation(s): Royal Botanic Gardens, Kew
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: anthropological studies of human-environment interaction and of socio-cultural knowledge of plants in different parts of world, ecology, conservation science, environmental law and biodiversity management, plant conservation and sustainable management practices, taxonomy, and economic botany
Target level: undergraduates
Periodicity: yearly
Duration: 1 year
Main person responsible for the training: Prof. Roy Ellen, Department of Anthropology
E-mail of contact person: r.f.ellen@kent.ac.uk
URL: http://www.kent.ac.uk/anthropology/prospective_students/courses/pgethno.html

Title: MSc Plant conservation (with Seed Banking)
Organising institution(s)/organisation(s): Royal Botanic Gardens, Kew
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: The Programmes offer postgraduate training in restoration ecology, seed physiology, plant genetics and molecular biology, and plant tissue culture.
Target level: undergraduates
Periodicity: yearly
Duration: 1 year
Main person responsible for the training: Dr. Peter Scott
E-mail of contact person: p.b.scott@sussex.ac.uk
URL: http://www.biols.susx.ac.uk/home/Peter_Scott/PC/PC.html

Title: MRes Biosystematics
Organising institution(s)/organisation(s): Natural History Museum, London
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: Students on the MRes course are trained in research techniques in systematics, taxonomy, evolutionary biology and bioinformatics, as a stepping-stone to a PhD or other research-related career.
Target level: undergraduates
Periodicity: yearly
Duration: 1 year
Main person responsible for the training:
E-mail of contact person:
URL: <http://www.nhm.ac.uk/research-curation/postgraduate/mres/index.html>

Title: Identification Masterclasses in Aquatic macrophytes or Bryophytes
Organising institution(s)/organisation(s): Natural History Museum, London
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: The Identification Masterclasses in Bryophytes and Aquatic plants are four day, residential courses led by national experts in their fields. There will be site visits, formal lectures, and identification of fresh and preserved material. Participants have the opportunity to prepare for an IdQ.
Target level: undergraduates, master level, PhD level
Periodicity: yearly

Duration: 4 days

Main person responsible for the training: Linda Marsh, Sarah Whild, Training and Professional Development Team

E-mail of contact person: l.marsh@bham.ac.uk, s.j.whild@bham.ac.uk

URL: <http://www.biosciences.bham.ac.uk/tpd/masterclasses/>

Title: Conservation and utilisation of plant genetic resources (Applied taxonomy)

Organising institution(s)/organisation(s): University of Birmingham

Host organisation(s)/institution(s), if different from organiser: Royal Botanic Gardens, Kew

Language: English

Content: taxonomic diversity, history of taxonomy, revision methodology, experimental taxonomy, taxonomic collections and management, operational taxonomic units, characters, taxonomic data analysis, biosystematics, phenetics, phylogenetics, cladistics, classification, taxonomic hierarchy, species concepts, nomenclature and citation, taxonomic databases, taxonomic database management systems, identification and field guide

Target level: master level, PhD level, postgraduates, specialists / professionals, technicians

Periodicity: on a regular basis and on demand

Duration: 1 month (though flexible)

Main person responsible for the training: Nigel Maxted

University of Birmingham, School of Biosciences, Edgbaston, Birmingham B15 2TT, UK

E-mail of contact person: n.maxted@bham.ac.uk

URL: <http://www.biosciences.bham.ac.uk/prospective/postgraduate/msccupr.htm>

Title: Intensive course in vector biology and identification

Organising institution(s)/organisation(s): Natural History Museum, London

Host organisation(s)/institution(s), if different from organiser:

Language: English

Content: This short course covers the fundamentals of vector biology & identification for entomologists, parasitologists and epidemiologists.

Target level: undergraduates, master level, PhD level, technicians

Periodicity: yearly

Duration: 6 weeks

Main person responsible for the training: Dr. Clive Davies, Dr. Mary Cameron

E-mail of contact person: clive.davies@lshtm.ac.uk, mary.cameron@lshtm.ac.uk

URL: <http://www.lshtm.ac.uk/prospectus/short/sicvbi.html>

Title: Marine nematode taxonomy, identification and ecology

Organising institution(s)/organisation(s): Plymouth Marine Laboratory

Host organisation(s)/institution(s), if different from organiser:

Language: English

Content: nematode sample collection, processing, morphology, taxonomy, databases, electronic identification keys, virtual taxonomy

Target level: specialists / professionals

Periodicity: on demand

Duration: 1 week

Main person responsible for the training: Dr. Melanie Austen

Plymouth Marine Laboratory, Prospect Place West Hoe Plymouth PL1 3DH, UK

E-mail of contact person: mcva@pml.ac.uk

URL:

Title: International Diploma Course in herbarium techniques

Organising institution(s)/organisation(s): Royal Botanic Gardens, Kew

Host organisation(s)/institution(s), if different from organiser:

Language: English

Content: The course offers two major elements: a structured course in herbarium techniques and management; an optional component relating to herbarium curation, plant identification, simple library management, devising of checklists, or plant illustration.

Target level: specialists / professionals, technicians

Periodicity: every two years

Duration: 8 weeks

Main person responsible for the training:

E-mail of contact person: courses@kew.org
URL: <http://www.kew.org/education/highered/index.html>

Title: International Diploma Course in Plant conservation strategies
Organising institution(s)/organisation(s): Royal Botanic Gardens, Kew
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: This course reviews the options open to the plant conservationist by assessing the techniques available - from protected area management, through to botanic gardens, seed banking and cryopreservation. Takes full account of all the provisions of the UN Convention on Biological Diversity.
Target level: specialists / professionals
Periodicity: every two years
Duration: 8 weeks
Main person responsible for the training:
E-mail of contact person: courses@kew.org
URL: <http://www.kew.org/education/highered/index.html>

Title: International Diploma Course in Botanic garden education
Organising institution(s)/organisation(s): Royal Botanic Gardens, Kew
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: The course will cover the following topics: the role of educators in botanic gardens, overview of conservation practices, principles of plant biology, identification of target groups, basic principles of learning and teaching, planning and designing educational materials, outreach programmes, interpretation, marketing, fund-raising, monitoring and evaluation, networking, partnership and collaboration.
Target level: specialists / professionals
Periodicity: currently under review
Duration: 4 weeks
Main person responsible for the training:
E-mail of contact person: courses@kew.org
URL: <http://www.kew.org/education/highered/index.html>

Title: Tropical plant identification course
Organising institution(s)/organisation(s): Royal Botanic Gardens, Kew
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: the morphology of the 50 most commonly collected plant families
Target level: specialists / professionals, technicians
Periodicity: on a regular basis
Duration: 2 weeks
Main person responsible for the training: Tim Utteridge
Royal Botanic Gardens, Kew, Herbarium, Kew Richmond Surrey TW9 3AE, UK
E-mail of contact person: t.utteridge@kew.org
URL:

Title: Plant taxonomy module in BSc Biology degree programme
Organising institution(s)/organisation(s): Edge Hill University
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: use of keys family identification focus on difficult families, Cyperaceae, Poaceae, Bryophyte identification, herbarium specimen preparation, field work to a variety of habitats, woodlands, grasslands, heathlands etc, phytosociology (The National Vegetation Classification)
Target level: undergraduates
Periodicity: on a regular basis
Duration: 10 days
Main person responsible for the training: Dr. Paul Ashton
Edge Hill University, NGAS St. Helens Rd. Ormskirk Lancs, L39 4QP, UK
E-mail of contact person: ashtonp@edgehill.ac.uk
URL: http://info.edgehill.ac.uk/EHU_eprospectus/leaflet/BS0040.asp

Title: Plant identification (of the British flora) basic course and extension courses
Organising institution(s)/organisation(s): Ashmolean Natural History Society of Oxfordshire, Education Group
Host organisation(s)/institution(s), if different from organiser: Hill End Field Centre, Oxford
Language: English
Content: In the Basic Course, Clive Stace's British Flora is used to key out living plants from three families each week. Extension courses deal similarly with critical groups, vegetative identification, survey of habitats, photography, preparing herbarium specimens, using appropriate floras and manuals in addition to Stace. The aim is to enable amateurs and professionals from all areas of Biology and Conservation to identify plants encountered during their work or leisure time.
Target level: general public, amateur taxonomists, specialists / professionals
Periodicity: on a regular basis
Duration: average 6 hrs/month during 6 months
Main person responsible for the training: Frances Watkins
E-mail of contact person: caroline.pannell@plants.ox.ac.uk
URL:

Title: MSc in Plant diversity
Organising institution(s)/organisation(s): The University of Reading
Host organisation(s)/institution(s), if different from organiser: The University of Reading, The Natural History Museum, The Royal Botanic Gardens (Kew)
Language: English
Content: available on the website
Target level: master level, postgraduates
Periodicity: on a regular basis
Duration: 1 year
Main person responsible for the training: Dr. Alastair Culham
University of reading, School of Biological Sciences, Plant Science Laboratories, Whiteknights, Reading RG6 6AS U.K., UK
E-mail of contact person: a.culham@reading.ac.uk
URL: <http://www.biosci.rdg.ac.uk/Teaching/MscPlantDiversity.htm>

Title: MSc in Advanced methods in taxonomy and biodiversity
Organising institution(s)/organisation(s): Natural History Museum, Imperial College London
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content:
Target level: undergraduates
Periodicity: on a regular basis
Duration: 1 year
Main person responsible for the training: Donald Quicke, Alfried Vogler
E-mail of contact person: amob@nhm.ac.uk
URL: <http://www.nhm.ac.uk/research-curation/postgraduate/msc/index.html>

Title: Taxonomy and biology of parasitic Hymenoptera
Organising institution(s)/organisation(s): Natural History Museum, London
Host organisation(s)/institution(s), if different from organiser:
Language: English
Content: The course is designed to give participants a broad overview of the parasitic Hymenoptera and a practical understanding of their biology and systematics, as well as to provide an authoritative instruction in the handling and identification of the groups of parasitic Hymenoptera.
Target level: undergraduates, master level, PhD level
Periodicity: yearly
Duration: 2 weeks
Main person responsible for the training: Dr. Mike Fitton
E-mail of contact person:
URL: <http://www.nhm.ac.uk/entomology/hymcours/index.html>
