WEB SITES



A Bug's Web

Hidden behind hundreds of dubious sites about pheromones on the web, there is the chemical ecology site by John Byers of the Swedish Agricultural University in Alnarp. The entry page (Figure 1) displays general information and a short introduction to chemical ecology, a search engine for the site and the group's home page. The rest of the site is divided into five sections: free

Chemical Ecology of Insects - John Byers ■ What is it? ■ Search site? ■ Group's site ■ Employee information ■ Map of area Fire Software: ■ Scientific **■** Education **■** General ■ SLU Research on Insects: ■ Spence forests: Victolisad, Sweden **■** Chemical EFine focusts: H(I, a)Ecology papers Skins, Sweden research Interactive Learning: ■Educational ■Statistics, Sampling and M General Scientific and Calrulators Comerca ■ Chemical Ecology Quiz W Semischemicals Outs M Insect Oxio III English Swedish #Libraria ■ World Distances Databases and Information: #4700 Black W.Burk Beeds ■ Facout Post ■ Electronic ■3175 Z. Choss. ■ Trends in Z Images for 3D Ecol. Papers Chem. Ecol. Volutility H Moth H.Flast ■11,448 Insect **W.Ecological** Phenomona Analoga Pretection Course еговнови Рарент Methods ■ 1,492 Jeansal III Curver Output Publication Rating Altern - Chemical Ecology Plant Protection TOP Science Web Sites ! International Society of Chemical Ecology Links to Science, Biology, Entomology, etc.

Figure 1. Entry page: chemical ecology in Alnarp (Sweden)

software, research on insects, interactive learning, databases and information, and links. These are potentially valuable for chemists and biologists in the field.

The last two sections are the most interesting ones. In "Databases and Information" there is a continuously updated database of publications on semiochemicals with a total of 11448 entries.

This database actually consists of four subdatabases of publications on semiochemicals of butterflies, beetles and membrane-winged insects. The forth one covers insects which do not belong to one of these groups. You can search by au-

thor or your own keywords. The provided keywords are not very useful as far as chemistry is concerned: They are simply too general. Would you volunteer to look for all pheromones that contain an

acetate group? The sectioning of the database is quite inconvenient, because you have to search in all of them if you are looking for a structural detail or an author. Furthermore, you will find information on ecological methods, important forest pests and taxonomic descriptions of European

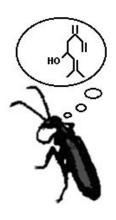
beetles. The site is focused on bark beetles, which may be the reason why there is also a specialized database on bark beetle publications.

In the links sec-

tion, you will find
the International
Society of Chemical Ecology and
the Journal of
Chemical Ecology, but also
less well-known institutes
and research groups. The links
are not restricted to chemical
ecology but extend to neighboring disciplines such as statistics, ecology, and diversity.

Not all of them are up to date, however.

The other sections are more interesting for biologists. The section "Research on Insects" is an extensive presentation of research topics and methods of the chemical ecology group in Alnarp.

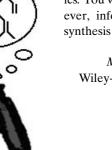


Clicking on "Interactive Learning" you will find a variety of quizzes, unit converters, some statistics programs, and a program to calculate molality, molarity, and vapor pressure of some common pheromones at variable temperatures as well as an English–Swedish dictionary. In the software section, there are numerous free statistics, taxonomy, and systematics programs.

Suggest a web site or submit a review angewandte@wiley-vch.de

The site is a must for bark beetle researchers, but it is also interesting for chemists who wish to gain an insight into important methods of ecological research such as biotests and their evaluation. You will also find links to publications in biology journals, and to other biology sites, especially on entomology. The information on the site can also help

to solve questions on taxonomy and systematics. You will not find, however, information on the synthesis of pheromones.



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For further information visit

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