

Internet Connection

The following review is the third in a series of articles surveying free online resources of potential interest to chemists. The first article appeared in the July-Aug 2006 CI, p. 26, and the second in the Sep-Oct 2006 CI, p. 29.

Free Information Resources for Chemists—Part 3

by Leslie Glasser

Chemical Journals

While subscriptions are generally required to access the chemical literature, many journals permit free Internet access after a period. For example, all reports and recommendations in IUPAC's *Pure and Applied Chemistry* <www.iupac.org/publications/pac> are available immediately upon publication, while the remaining material is available for free a year after the complete publication of a volume.

IUPAC's news magazine *Chemistry International*, <www.iupac.org/publications/ci> offers free access from the time it is published.

Currently, the Open Access Publishing movement is urging a move towards free public access to publicly funded, original research publications <<http://bmj.bmjournals.com/cgi/content/full/328/7430/1>>, with the author paying the publication costs. An important new site for this movement is "Open Access Central" <www.openaccesscentral.com>, which is the portal for three open-access sites: the well-established "BioMed Central," which lists over 150 peer-reviewed open access journals covering all of biology and medicine; "Chemistry Central" <www.chemistrycentral.com>, which currently features chemistry-related articles from BioMed Central, including the new online *Beilstein Journal of Organic Chemistry* <<http://bjoc.beilstein-journals.org>>; and the forthcoming "PhysMath Central" <www.physmathcentral.com>. Links to the many current or recent journals that offer free full-text articles appear in English on the Belorussian site <www.abc.chemistry.bsu.by/current/fulltext.htm>. The U.S. National Science Digital Library provides links to a wide range of resources <www.nsd.org>.

General Software

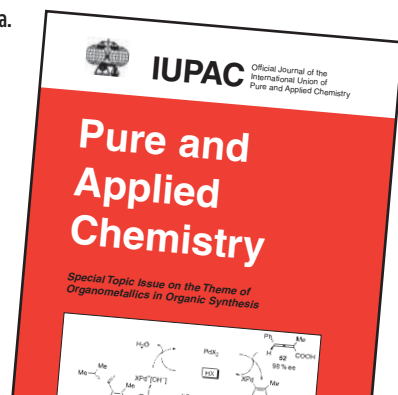
Application software (which must be installed in your computer system) when mentioned below is for the widely-used commercial Windows operating system (in its various guises); no effort has been made to include Linux-based software, although this free operating system is of growing importance.

Free software of a general nature is available from many sites—for example, tu cows <www.tucows.com/downloads/Windows>, Download.com <www.download.com>, ZDNet <downloads-zdnet.com.com/2001-20-0.html?legacy=cnet>, and so on. A useful chemical application is a Java-based checker for consistency in experimental data, as is typically presented in an article for publication <www.rsc.org/Publishing/ReSource/AuthorGuidelines/AuthoringTools/ExperimentalDataChecker/index.asp>.

Update (to part 1)

eMolecules, <www.emolecules.com>, is the new incarnation of the chemical search engine Choogle, which had to alter its name for legal reasons (see *Chemistry World*, July 2006, p.10).

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The image is a screenshot of the Chemistry Central website. The top of the page features the 'Chemistry Central' logo, which is a stylized 'C' inside a circle. Below the logo, there are several sections. On the left, there is a vertical navigation menu with orange and blue buttons for 'Home', 'About Chemistry Central', 'Contact us', 'Submit a manuscript', 'Sign up for alerts', 'Institutional membership scheme', 'Starting a journal', 'New and updates', 'Sign up for updates', and 'Register here to receive reader updates about Chemistry Central'. The main content area is divided into 'Research highlights' and 'Welcome to Chemistry Central'. The 'Research highlights' section includes three articles: 'New microbial community compartments found', 'Navigating metabolomics data', and 'Directing trafficking to control axon growth'. The 'Welcome to Chemistry Central' section contains text about the service and a 'Contact us' link. At the bottom, there is a 'Journals' section listing 'Beilstein Journal of Organic Chemistry', 'IUPAC Biochemistry', and 'IUPAC Chemical Biology'.