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Beyond the Chemistry Web

Bob Buchanan

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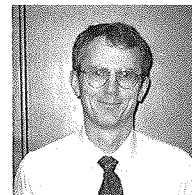
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Beyond the Chemistry Web ...

Bob Buchanan, Physical Sciences Librarian, Auburn University

Feel free to send recommendations to me at buchara@auburn.edu. Thanks to Dana Roth for suggesting websites.

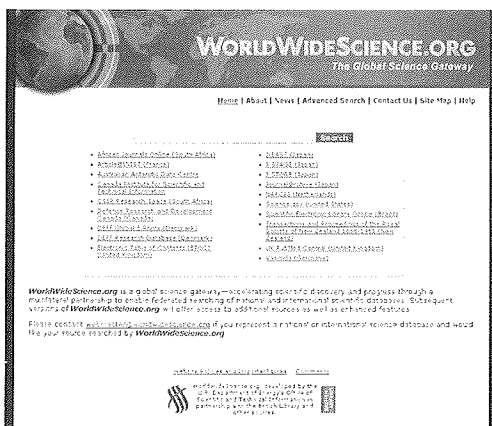


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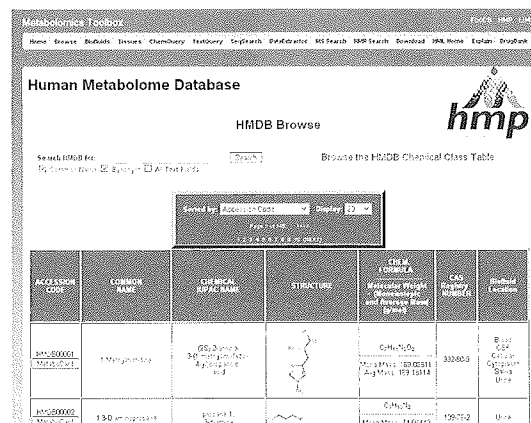
GENERAL SCIENCE

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- Search across the science portals of twelve countries via **WorldWideScience.org**. Sponsored by the U.S. Department of Energy, this federated search engine is surprisingly fast. The search default is the Google "AND" but Boolean operators and truncation are also supported. <http://www.worldwidescience.org>



- The **Human Metabolome Project** provides extensive curated data for about 2,500 human metabolites – molecules smaller than 1,500 amu produced by metabolic reactions.

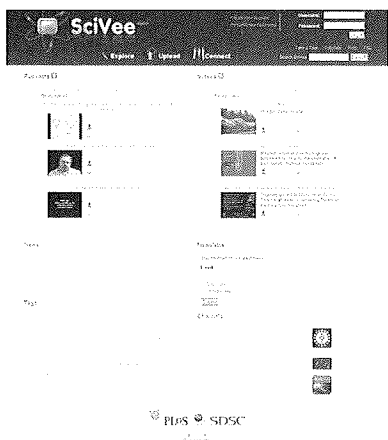
Records compile data from many sources, including experimental concentration, NMR and MS spectra, and point to related data in other online databases. <http://www.hmdb.ca>



- If you teach about patent information, recent real-life examples can be found at **Patent Docs: Biotech & Pharma Patent Law News Blog** under the subcategories Novelty, Obviousness, and Utility. http://patentdocs.typepad.com/patent_docs
- **Scitalks: Smart people on cool topics** is a rapidly growing science video database. Combining an active collection of video links with visitor uploads, Scitalks makes science more accessible. Be careful; it is easy to lose track of time watching the fascinating science videos found here. <http://scitalks.com>



- Sponsored by the NSF and the Public Library of Science, **SciVee** provides a venue for scientists to post publications along with a video presentation. The goal is to help make science articles more accessible to the scientific community and the general public.
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- Aimed at the biosciences, **JoVE: Journal of Visualized Experiments** aims to "increase reproducibility and transparency in biological sciences." Although there are only 114 articles, the quality is impressive.



In contrast, and tending towards YouTube meets the biology lab, **LabAction.com** is a biology video-sharing website.

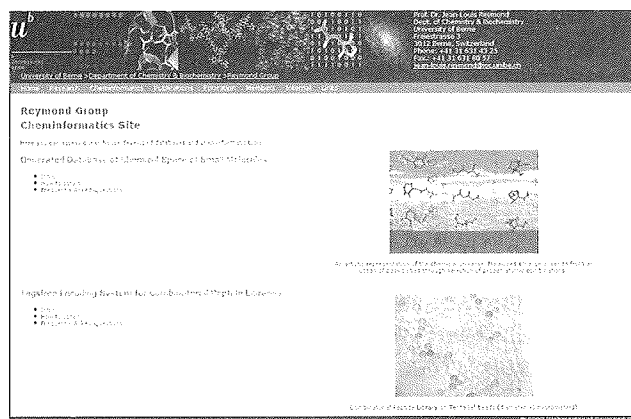
<http://www.jove.com>
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CHEMISTRY

- The National Library of Medicine's **ToxSeek** searches the ToxNet databases and (optionally) other toxicological and environmental health databases from NLM, NIH, the U.S. government, and international sources. Relying on natural language, this fast federated search engine clusters results and sorts by relevance.
<http://toxseek.nlm.nih.gov>

- Finding information in your print Gmelin collection became easier with the **Gmelin-Complete-Catalog** which is an online version of Springer's Complete Catalog of 1997/98. Thanks to Ben Wagner for providing this document as a searchable PDF.
<http://ublib.buffalo.edu/libraries/asl/guides/Gmelin-Complete-Catalog.pdf>

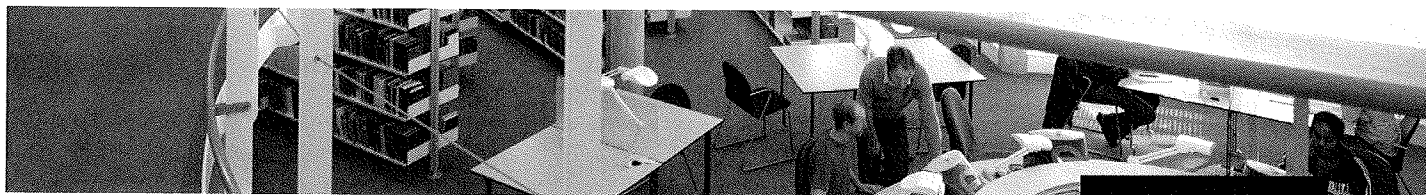
- Nan Butkovich has put together **A Quick Guide to Citing Using the ACS Style Guide, 3rd Ed.** that summarizes key points in just four pages. Students will appreciate its brevity.



<http://www.libraries.psu.edu/pams/Quick%20Guide%20ACS.pdf>

- You can download the **Generated Database of Chemical Universe of Small Molecules** which contains 26.4 million compounds of known, and not-yet-known, molecules that consist of 11 atoms (or fewer) of C, N, O, or F. Structures must meet constraints of chemical stability and synthetic feasibility.
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Journal of Plastic Film and Sheeting	0.711	15/16 in Materials Science, Coatings and Films
Journal of Sandwich Structures & Materials	0.261	81/106 in Engineering, Mechanical
Journal of Reinforced Plastics and Composites	0.427	13/21 in Materials Science, Composites 59/75 in Polymer Science
Journal of Thermoplastic Composite Materials	0.466	12/21 in Materials Science, Composites
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