

### **4:141 Organic Chemistry Laboratory**

**Instructor:** Professor Len MacGillivray  
Office 423B Chemistry Building  
Phone 335-3504  
email: len-macgillivray@uiowa.edu  
web: <http://www.uiowa.edu/%7ec004141a/>

**Office Hours:** T 11:00 AM – 12:00 PM  
W 11:00 AM – 12:00 PM

\* office hours of TAs will be announced in the coming week \*

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### **Experiment #1: Literature**

#### **Some Useful Information**

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### **Other Secondary Sources**

#### **Handbooks**

1. *The Handbook of Chemistry and Physics*
2. *The Merck Index of Chemicals and Drugs*
3. *Catalog Handbook of Fine Chemicals*

#### **Review Article Journals**

1. *Accounts of Chemical Research*
2. *Journal of Chemical Education*
3. *Chemistry and Industry (London)*
4. *Discover Magazine*
5. *Today's Chemist at Work*
6. *Chemistry in Britain*
7. *Scientific American*
8. *Chemical and Engineering News*

#### **Internet**

ChemFinder: <http://www.chemfinder.camsoft.com>

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## Citing

See: *The ACS Style Guide: A Manual for Authors and Editors*, Janet S. Dodd, editor; American Chemical Society: Washington, DC, 1986; pp. 106-114.

**Text:** superscript or reference number in (parenthesis)

**Books:** Doo, S.; Shaggy. In *How to Catch a Thief and a Sandwich*; Fred and Velma, Ed.; Cartoon Network: Hollywood, CA, 1998.

**Journals:** Dauben, W.G.; Thiessen, W.E.; Resnick, P.R. *J. Am. Chem. Soc.* **1962**, *84*, 2015

**Theses:** Bravo, J. Ph.D. Dissertation, University of Iowa, 1992

**Personal Communication:**

Sam, Y. Ohio State University, personal communication, 1998

**4:141 Coursepack:** Cannon, L. *Organic Chemistry Laboratory* (Coursepack); Department of Chemistry, University of Iowa: Fall 1999.

**World Wide Web:** American Psychological Association. *How to Cite Information From the Internet and the World Wide Web*. Retrieved May 30, 1998 from the World Wide Web: <http://www.apa.org/journals/webref.html>.

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## Assignment

**Part 1:** Chemical Table

- you will be provided with a list of three chemicals
- obtain information and organize into table (see Course Pack)
- sources: handbooks + ChemFinder

**Part 2:** Author Search and Summary

- search UI chemistry professor (according to your last name)
- include at least one chemical structure or reaction sequence
- provide one page summary (see Course Pack)
- sources: *SciFinder* + journals (not chemical abstracts)

\* note: only need to cite paper \*

**Part 3:** Review/Popular Article Summary

- summarize a review article of choice (see Course Pack)
- staple the *first page* to the end of your assignment
- sources: *SciFinder* + review article journals

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## SciFinder (Author) Search

- 1) From the 'Start' menu of Microsoft Windows, run 'SciFinder Scholar'.
- 2) The beginning of the program starts with a disclaimer, click 'Accept'.
- 3) A 'Message of the Day' appears, click 'OK'.
- 4) An '**Explore**' window will appear, click '**Author Name**'.

You will then be asked to type in the author name for your search:  
Last Name, First name or initial, Middle name or initial (**of UI Professor**)

- 5) A list of '**Author Candidates**' will appear. Select the candidate(s) that most closely match your author by clicking on the white box next to the name.
- 6) Once all probable candidates have been selected, click 'Get References'

References will appear with either one or two small icons to the right. The icon that looks like a microscope provides detailed information about the paper (e.g. abstract). **The icon that appears as a small computer provides a link to the paper.**

- 7) Select the paper that most interests you (**and contains the small computer icon**) and click on the link to that paper.
- 8) A new window, called 'Chempart', will appear with links to the paper. A copy of your paper can be obtained by **clicking on the 'PDF' box** (note: if the PDF option is not available, you should select another paper).
- 9) **Note:** you can **Explore** research topics and tables of contents in same way (step 4).

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