

University of Windsor
Chemistry and Biochemistry
Chemistry 59-450, Winter Term 2017

Papers: Due on Wednesday March 22th

Presentations: Friday March 24th to Wednesday March 29th (in class)

The topic is of your choosing and may include anything that involves main group chemistry in some form or another (please confirm your subject with me as soon as you can). The paper and presentation will be on the same subject and you will pass in your paper prior to your presentation - this format should help you to become familiar with your subject prior to your presentation.

The paper should be roughly 10 pages in length including pictures and diagrams etc. The paper should be written in the style of a small review (for example, like the one I have provided for you) and the material you cover should tell the reader a) some background to the subject to provide some context for your paper; b) the specific information that you want to convey about the topic (this will include chemical drawings of reactions or structures, diagrams, etc.); c) some concluding remarks about the topic.

The presentation will be of the "3 Minute Thesis" variety so you have to be brief! In this time, you will need to provide necessary background to your subject (e.g. what is it), tell us something interesting about it (e.g. why do you or others find it neat), and draw some conclusions (e.g. what does the research tell us, or what might it be used for, or what's next, etc.).

YOU MUST REFERENCE ALL OF YOUR SOURCES ADEQUATELY! You should use a citation/reference style like the one that is found in the Mini-Review I have provided you (Angew. Chem., RSC or ACS are good). Make sure to indicate the source of any pictures that you scan/clip from other sources.

You should make all of your chemical drawings etc. using chemical drawing software (e.g. ChemDraw) – we have a site licence for ChemDraw and it is available as a free download from the University of Windsor IT Services software (<https://apps.uwindsor.ca/sd/login?session=sfa>).

If you haven't chosen a topic yet, a good place to start is by looking through, e.g. the Encyclopedia of Inorganic Chemistry or some of the Main Group Textbooks for things that we haven't covered in detail. To find out more about the topic, the best chemical search methods are probably SciFinder Scholar and the Web of Science (access either through the Chemistry subject site from the Library: <http://leddy.uwindsor.ca/chemistry>)

When you have found your subject (and confirmed it with me) you will then want to find some papers containing general information about the subject. In particular, the journals that will be helpful are those containing Reviews of various topics, some journals that include reviews of main group chemistry include:

Angewandte Chemie International Edition (some reviews and mini-reviews and highlight articles)

Accounts of Chemical Research

Chemical Reviews

Chemical Society Reviews

Coordination Chemistry Reviews

More detailed primary information is available in the references found in those review articles. A list of online Inorganic journals available to University of Windsor students can be found on my web-site at: <http://cmacd.myweb.cs.uwindsor.ca/InorganicJournals.htm>