## CHEM 5336 - ELECTROANALYTICAL CHEMISTRY

Term project: Due April 17, 2012

1. a critical analysis of a recent high profile research paper in electrochemistry)

Format: Send to me by email as a PDF file.

1. Three to five (5) pages (absolute maximum, single space) including your own diagrams if necessary
2. Describe the goals and findings of the paper in your own words, using your own diagrams if necessary
3. ***Do not copy graphs or diagrams from papers*** – this is illegal without the author’s and copyright holders written permission. Do not copy text unless it is put in quotation marks and referenced. It is better to paraphrase the discussion in your own words, and use the reference.
4. Your paper should present a *critical discussion*, and begin with an overview putting the topic into a general scientific context.
5. If you choose to report on results of simulations, your project should have a goal, e.g. to observe the influence of coupled chemical reactions or to demonstrate how to experimentally estimate a rate constant.
6. Papers not following these rules will be downgraded or not be accepted

**A typical critical review should be organized as follows:**

1. Overview paragraph, then a short presentation of the goals, findings and novelty of the paper.
2. What electrochemical methods similar to those discussed in class are used to do this research, and how do they support the conclusions? Comment of whether you think the experiments were well planned and performed, and if the methods have been used correctly.
3. Are there experiments that could have been used to provide additional essential information? Are there control experiments missing?
4. Are the final conclusions of the paper well supported by the data.
5. Comment on whether you think the findings are highly significant, moderately significant, or of low significance.