
ACS-Style Presentation

The goal of the following exercise is to give you practice at organizing, preparing, and delivering an oral presentation in the 15/5 minute presentation/discussion format commonly used at regional and national meetings of the American Chemical Society. Additionally, you will gain experience working with a partner and all of us, your audience, will learn from what your team teaches us in your presentations.

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- **Presentations** will be given on **Saturdays, November 11** and **November 18** (from ca. 9:00 am to ca. 3:00 pm) in Smith 117/119.
 - There are 33 8321 students and each of you will make a presentation. I expect and collectively we will appreciate your full attendance at all of the presentations, unless you have a pre-existing conflict.
 - **Abstracts** for all presentations will be due by class time on **Monday, November 6**.

Katharine and I have identified 16 publications; each reporting a natural product total synthesis. Each contains full details of experimental protocols. You should begin by digesting the information in the paper we have assigned to you. Each team of two will then need to decide how to logically present that body of work. You do not have to be comprehensive in your coverage of the work in that primary publication. You should consult leading references within your assigned paper and/or other resources to complete your understanding of the reactions used and to present some of that information and insight if it is essential or pedagogically enlightening for your audience's understanding. Your *team* should submit two abstracts, one for each of your intended presentations, using a standard ACS abstract format. For an example of an effective abstract, see the one pasted at the bottom of the next page. The pair of you will present the content of the publication in a pair of back-to-back presentations. Make sure that you work *together* to prepare each of the abstracts and each of the two oral presentations. Each abstract should *clearly reflect the content and clearly specify the order* in which each of the presentations will be given. Each presentation should be carefully planned for effective delivery in 15 minutes. This will be followed by an ~5 minute question, answer, and discussion period with your audience (i.e., the rest of us). This process will be repeated for the following presentation(s).

Here are leads to good guidelines (“Ten Simple Rules for Making Good Oral Presentations” and “Effective Presentations—A Must”) to keep in mind as you are preparing your presentation:

<http://www.ploscompbiol.org/article/info:doi/10.1371/journal.pcbi.0030077>

<https://onlinelibrary.wiley.com/doi/full/10.1002/anie.201209795>

You will not learn which member of your team is giving which presentation until just prior to your start. Thus, you *must* work in cooperation with your colleague to understand all aspects of your assigned synthesis and to prepare the abstracts and presentations. You should also coach and critique one another on the delivery of the presentations themselves. In other words, each member of each pair will need to be prepared to give either of the presentations and to field relevant questions. You should prepare a set of PowerPoint slides (typically, ~20-30) for use during each of the presentations. Schemes published in papers contain too dense of a set of information for effective delivery in an oral presentation. You should prepare your slides "from scratch" using ChemDraw and PowerPoint. Again, let me emphasize: *Do not plan a pair of presentations that can be delivered in either order—you will be downgraded for that approach. I want both team members to work together and each person to be prepared to give either talk.*

Each **presentation** will be evaluated by Katharine and me as follows:

- the abstracts 20 %*
- the presentation (clarity, understanding, delivery, pedagogy, enthusiasm) 50 %**
- the fielding of relevant questions 10 %**
- the slide quality (layout, clarity, effectiveness, consistency) 20 %*

* one grade per team

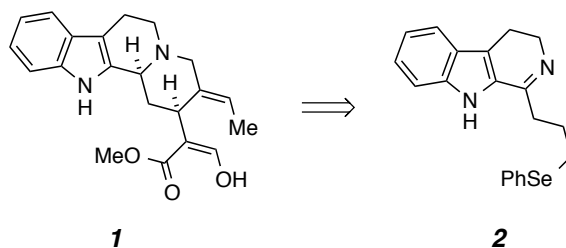
** one grade per delivering co-author

Below is an example of an abstract you can use as a model (use a field of 6" wide by 4" high and Arial 11 point font with fixed 14 pt line spacing). For printed Word documents use the ChemDraw settings found in the "ACS Document" ChemDraw stationary file and reduce the size of that graphic to 80% *after* you have imported it into the Word document. The title of each pair of abstracts from each team should have the form: "1. Description of Content of the First Presentation" and "2. Description of Content of the Second Presentation." For the purpose of this presentation exercise, enter your own names [both on each abstract] and local affiliations here at the UMN even though you didn't actually do the research. Include the citation to the primary article(s) on which you are reporting at the bottom of one each abstract and, again, early in your set of presentation #1 slides. Submit your team's two Abstracts, each as a one-page **Word** document via an email attachment to Katharine (toll0166@umn.edu) by 11 am, Monday November 6.

1. Catalytic Asymmetric Synthesis of (+)-Geissoschizine: Support Studies and the Early Phase of the Total Synthesis

Coauthor A. Name and Coauthor B. Name. Department of X, University of Y, City, State, ZIP

The major alkaloid constituent of *Geissospermum vellosii*, geissoschizine (**1**) occupies a unique position among monoterpene indole alkaloids, serving as the biogenetic progenitor to most of them. Our interest in accomplishing biomimetic syntheses of certain families of these alkaloids motivated us to develop an efficient synthesis of geissoschizine. In this talk, we will describe a concise, ... A key chemoselective Noyori asymmetric transfer hydrogenation of 1-(3-phenylselenopropyl)-dihydro- β -carboline (**2**) has proven central to the success of our studies.



2. Catalytic Asymmetric Synthesis of (+)-Geissoschizine: Completion of the Total Synthesis

Coauthor A. Name and Coauthor B. Name. Department of X, University of Y, City, State, ZIP

Blah, blah, blah. (ACS permits a maximum of 2500 characters and a graphic counts as 560)

A second relevant graphic.