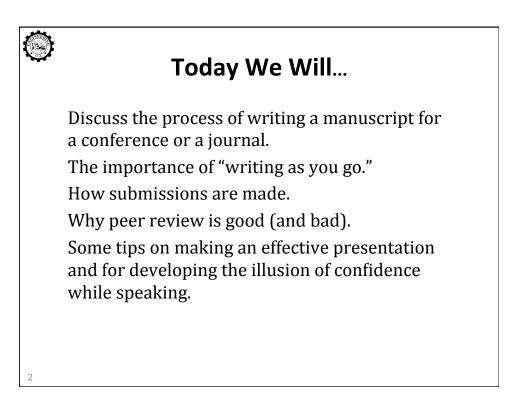
Graduate Student Professional Development Seminar "My conference abstract was accepted, now what?" Publishing Your Work

There is nothing to writing. All you do is sit down at a typewriter and bleed.

Ernest Hemingway

M.G. Lipsett Department of Mechanical Engineering University of Alberta February 6, 2019 http://www.mlipsett.com/teaching/

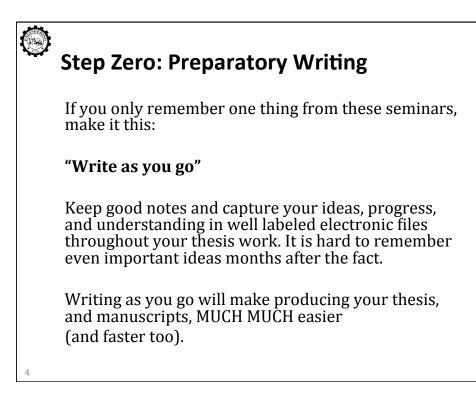


The Publishing Process

Scientific and engineering conferences and archival journals all have a similar publishing process. Specific ones will vary from this generic description, of course.

Conferences may have a two-part submission process, an abstract first, which, if accepted, leads to invitation for the full paper, or perhaps a poster.

Journals only accept submissions of complete manuscripts. The expectation is that the work is ready to publish.



Step One: Planning

- Choose the publishing venue carefully
- Make sure that it is relevant and has the right audience for your work
- Be clear right up front about who is an author (or not), order of authorship, who writes the main manuscript, and who is corresponding author
- Have a schedule for writing
- Set clear expectations on tasks

Step Two: Find the Journal Website

Register as an author

Go to the author section of the site

Create a new submission

Use the style guide to create your manuscript

Submit on time (for a conference or a special issue)

Follow the Rules!!!

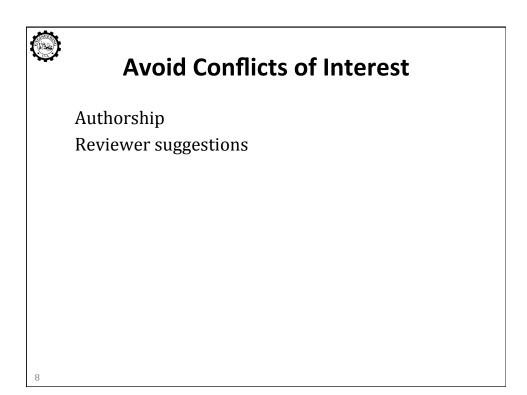
Submissions generally go into a review process Reviewers get a lot of requests to examine manuscripts

The assessment of the manuscript will result in acceptance or rejection.

Make sure that the submission is appropriate for the venue

Make sure that the submission makes an original contribution and its importance (and limitations!) are described clearly

Make sure that the manuscript is ready. Sloppy, error-filled submissions are usually rejected ,even if the actual work is good.



Step Three: Submit the Manuscript

- Once the manuscript is ready (including all image content), create a submission, follow the directions, and upload the material, including the additional material required by the editors (copyright forms, reviewer suggestions, etc.)
- DO NOT expect the reviews to be done in two weeks
- It is okay after a reasonable amount of time to contact the editor to ask how the process is going.
- Some top journals can take a longgggg time.

Manuscript Submission & Revision Tips

Be courteous when responding to reviewer comments!

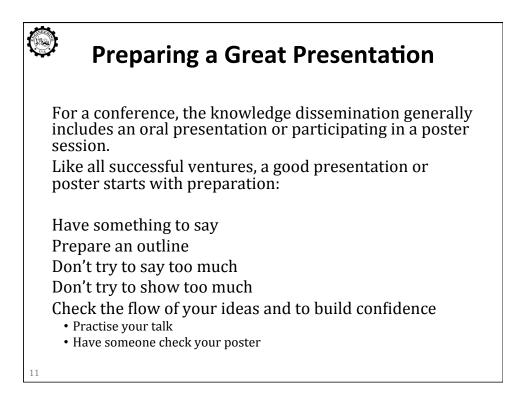
Take the comments seriously. Respond to them all (with input from your co-authors), even if the response simply clarifies why your work is correct.

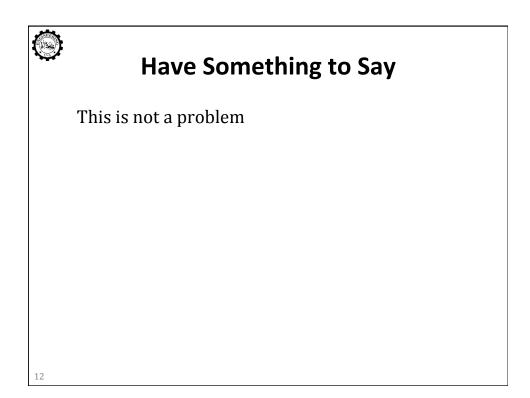
The response should be a document that quotes each reviewer item in term that needs to be addressed, followed by the response.

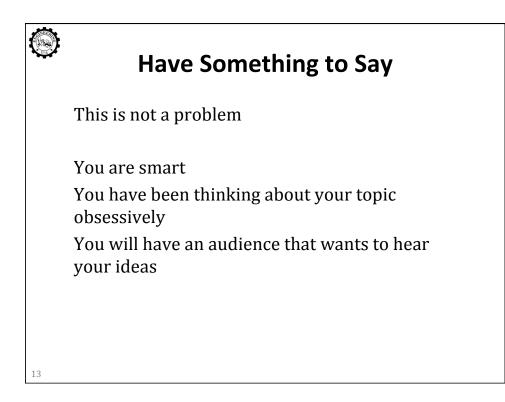
Do not automatically assume that a request for additional work much be followed. If the work is complete, then a restriction of claims may be all that is needed to avoid that extra work. Usually minor edits are suggested that improve the writing. Learn from that.

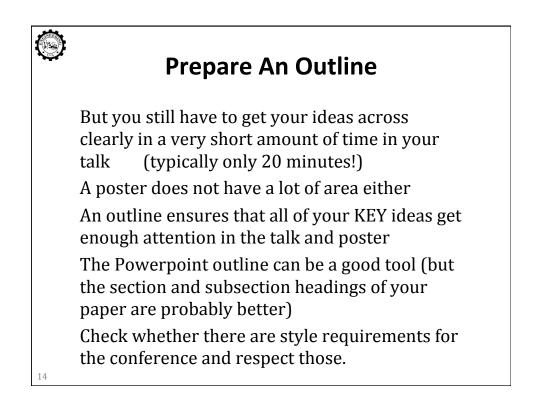
Did I mention that you should be courteous?

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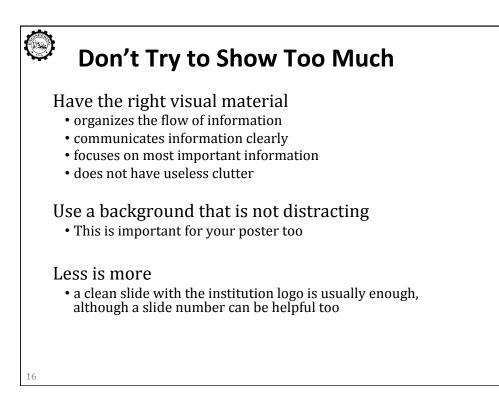


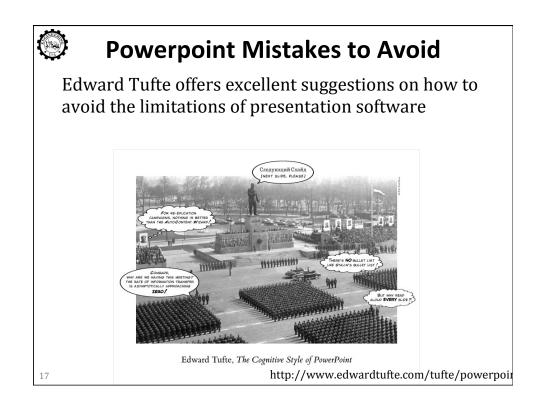
Don't Try to Say Too Much

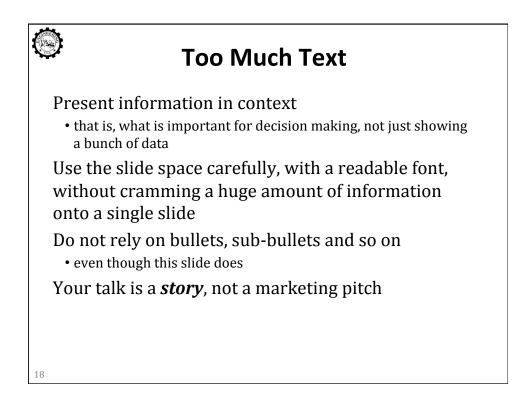
In a 20 minute talk, you can convey 3 ideas That's it

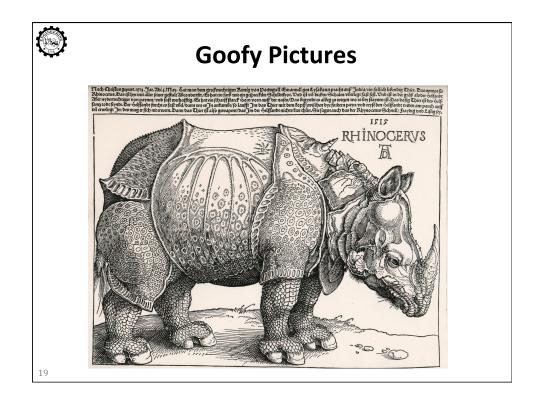
Most people speak for at least two minutes per slide, so you should not have more than 15 slides total, unless you intentionally show some slides for only a few seconds to illustrate a point (this does not apply to professors) Keep text to a minimum. Try not to have more than 5 bullet points per slide and if you can keep them to one core idea-that's better. Most people will tend to read stuff on the slide and will not pay attention to what you're saying (see, you're doing that now, aren't you?) Help the audience to break that habit by not dominating a slide with text Check the font size and make sure that people can read it (can you read this?) Have simple to follow notes to go along with your slides and major talking points. They should serve as a reminder, <u>not</u> something for you to read from. Prepare more than you can speak to, but also be prepared to be cut short.

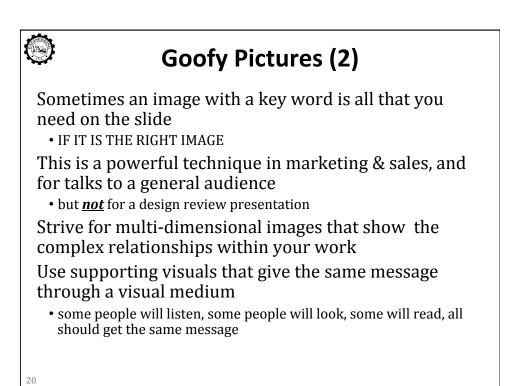


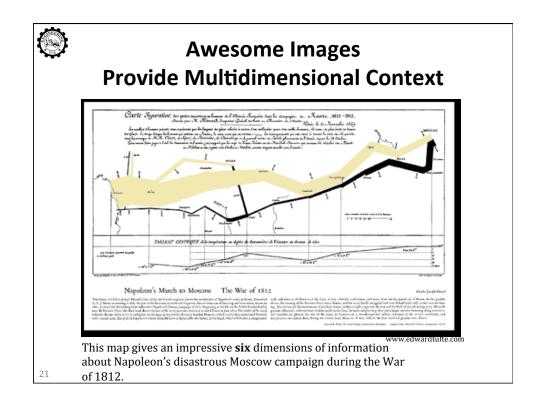


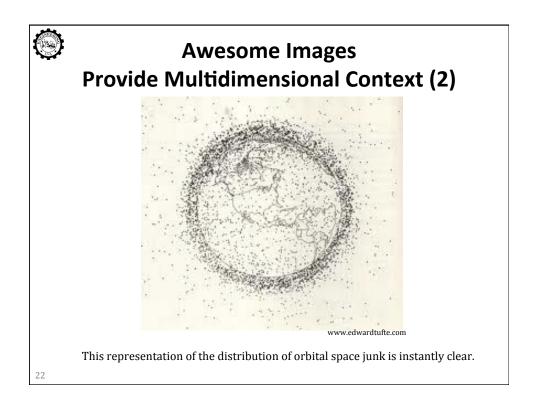


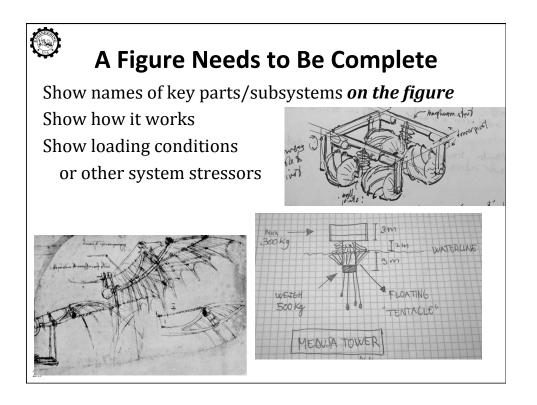














Give the Data!

If you show an analysis, provide enough detail that the audience member can understand

For analytical solutions, show the governing equation and what the variable symbols mean

For numerical solution, explain the choice of method and how it was applied

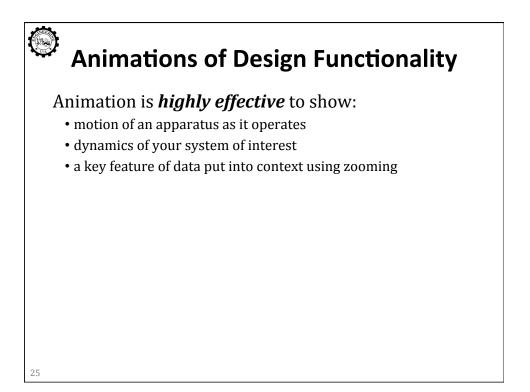
• for example, in FEA, show boundary conditions & loading, explain element type (& why selected), how mesh was refined, and highlight key result (factor of safety)

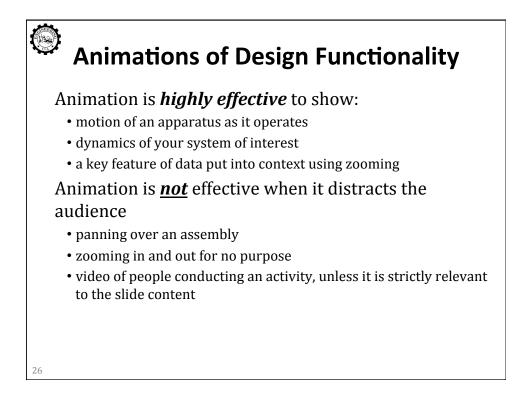
For experiments, show all the data, or at least error bars

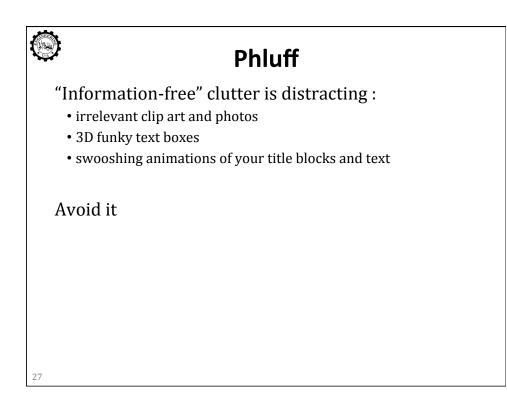
Give a graphical representation of results, clearly showing the range (and a readable scale of what the colours mean)

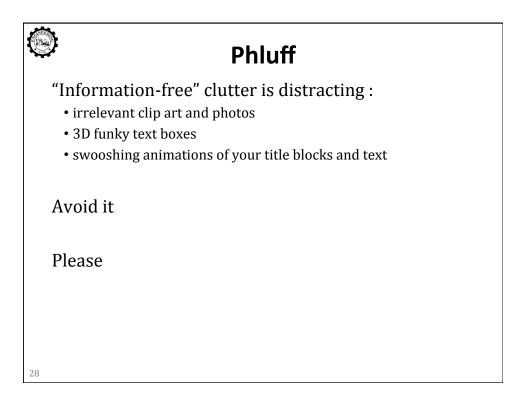
Explain *verbally* the key aspects of the analysis that ensures your design avoids some failure mode

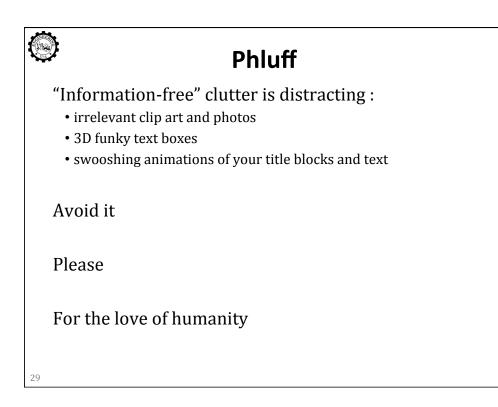
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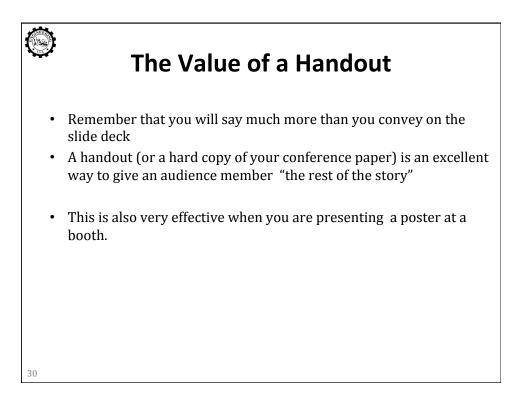












A Few Presentation Tips If you do not have a lot of experience at public speaking, practice in front of a mirror, or video yourself (the camera doesn't lie – ouch!) Better yet, practice your presentation to friendly peers (your team mates, your peers), and ask for their constructive criticism Have someone check the slidez four spelin erors Consider using automatic slide timing Practice techniques to reduce nervousness (e.g. imagining everyone in the audience wearing ridiculous clothing)

Tips When Presenting as a Team

When there is a team of presenters, preparation and practice is even more important

Typically this is not done at conferences – this slide is for other situations

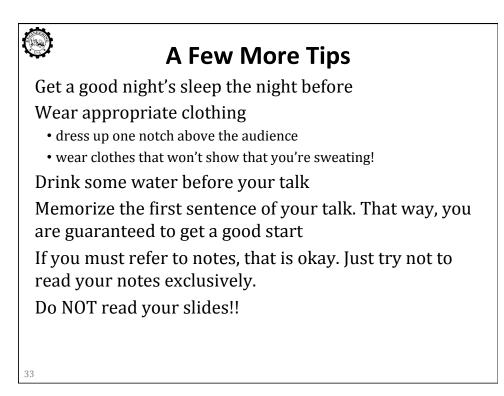
Introduce yourselves in the order of speaking

Transitions between speakers must be smooth <u>"Um, now over to Joe..."</u>

Try to practice in the room in which you will speak Avoid moving around the podium too much Your clothing should not be noticeable, other than telling the audience that you are professionals

• Please don't wear a cringe-worthy matched set of outfits

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And A Few More Tips

Try to speak a bit more slowly than normal conversational pace

If you can, look at and talk to individuals

Use your hands for emphasis (but not too much)

• It's amazing how much this engages the audience

Think before you speak & pause after a key point

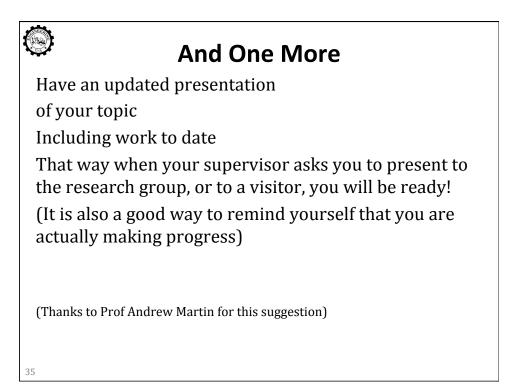
• give the audience time to catch up

If you start to feel stressed, take a moment to breathe, and visualize a positive outcome

Use a little humour

• it is powerful, if used sparingly and carefully

Try to give a strong final sentence to finish well





Expectations

Dress for success!

Be ready to present!

Show up for the other presentations!

When you are at a conference, be an active participant:

- Go to all the sessions!
- Ask a question!
- Explain your poster!
- Do some networking!
- It might lead to the next stage of your career!



Summary

- Publication is critical to expose our ideas to critique and to archive the knowledge that we create
- Choose publishing venues carefully.
- Be clear right up front about who is an author (or not), order of authorship, who writes the main manuscript, and who is corresponding author
- Have a schedule for writing
- Set clear expectations on tasks
- Follow the rules for the journal (or conference)
- Peer review can be harsh. Don't lose sleep over a poor review.
- Presentations are difficult. Like any skill, it improves with practice.
- This presentation is available online at http://www.mlipsett.com/teaching/
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