

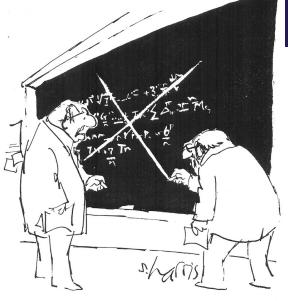
## The Review Process

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"THAT'S IT? THAT'S PEER REVIEW?"

## Outline



The review process

Structuring reviews

Poster design

### From last time ...



#### Publication procedure:

- 1. Scientific work according to proper methods
- 2. Document your methods and results in paper
- 3. Submit paper to a relevant conference (or journal)
- 4. Receive reviews and revise your papers accordingly
- 5. Re-submit revised paper
- 6. Publication

### Also from last time ...



- 1. Do your scientific work
- 2. Write a paper on it by November 28
- 3. Read your fellow students' papers and write reviews by December 6
- 4. Receive the reviews and revise your papers accordingly
- 5. SEMCON December 20
- 6. Exam in January poster, paper AND reviews!

#### **Timeline**



- ► November 28: Submit draft papers to your fellow groups
- ▶ December 6: Return reviews to authors
- ▶ December 15: Submit poster file to printer
- ▶ December 15: Submit title and 400-word abstract of revised paper
- ► December 18: Upload project to Digital Exam (article+worksheets)
- ► December 20: SEMCON
- ► Exam in January poster, paper AND reviews!

### Timeline





# Why Should You be a Reviewer?



#### Moral obligation (Kant's categoric imperative):

► When you wish your papers to be reviewed, you should also be willing to do reviews yourself

#### Give yourself insight in 'hot' subjects:

 You see papers possibly several years before their publication (although you can not use this directly in your own research)

#### Broaden your mind:

Most likely, you will be reading papers that are slightly outside your main field. This might give 'bridging' ideas

## Are You an Appropriate Reviewer?



When you receive a manuscript, ask yourself immediately:

- ► Are you reasonably familiar with the subject?
- ▶ Do you know the references that provide the background?

If you know some parts of the subject, you might restrict attention to these parts, but this should be mentioned in the review (or in comments to the editor)

If you are not familiar with the subject at all, you should return the manuscript immediately, possibly with suggestions for better qualified reviewers.

## What Are the Objectives of Your Review?



The objectives of a peer reviewer is mainly to determine:

- novelty
- correctness
- significance

of the manuscript submitted.

## How is Novelty Determined



A manuscript is not publishable if its results are already published, but

- this only concerns research papers; survey or overview papers has the 'opposite' objective
- usually, the author and/or reviewer can be held responsible only for results published in peer reviewed journals and conference proceedings, and not for e.g. doctoral dissertations published several years prior to present manuscript
- it is fair to judge the paper relative to papers published at submission time

### How is Correctness Determined



Standards of correctness vary highly within different fields of science; hence the assessment on correctness should be carried out relative to the scientific tradition in the relevant field/journal/conference.

For 'theorem/proof' papers:

► check the proof!

For papers with simulation studies:

► check if data are provided that facilitate reproduction of results It is usually not expected from the reviewer to redo the simulations.

For papers based on experimental studies:

▶ check if data are provided that allow experiments to be reproduced

It might be necessary to assess correctness of references!

## How is Significance Determined



#### On one hand consider

- ► Does the paper contain original concepts?
- ▶ Does the paper contain creative concepts?
- ► Does the paper contain unusual concepts?

#### On the other hand consider

- ► Are the results just minor extensions of existing results?
- ▶ Do you anticipate that the results could lead to further research and/or applications?

As a rule of thumb, it is dangerous to reject a paper for lack of significance only, if there are no hard, objective arguments for this.

## Be Specific and Helpful



Substantiate your claims in a useful way! Whenever possible, you should provide examples for your claims, to demonstrate to the editor that you are impartial and objective.

If you claim lack of clarity:

▶ give example of unclear paragraphs in the manuscript

If you claim lack of rigor:

▶ give examples for technical improvements

If you claim lack of novelty:

provide references that overlap with the manuscript

If you claim lack of correctness:

▶ find a counter example!

## Respect Confidentiality



As a reviewer you are anonymous. The peer reviewing system relies on the assumptions that you:

- ▶ do not use the results in your own research (before publication)
- ▶ do not disclose the results to other colleagues
- resist any temptation to push a unjustified reference to your own work on the author(s)

If you wish to use or cite the results before publication, you have to reveal your identity to the authors and ask their permission after the review process has been completed. The authors are not obliged to accept your plea.

## Be Objective and Fair



You are anonymous, but you should

- ▶ formulate criticism as you would to the authors' face
- only exert criticism to a standard you fulfill in your own work (Kant)
- respect different points of view on how to approach a class of problems!

In practice, a review will often convey all the weak points of a paper. However, the review will be received by an author who struggled to present her/his research result in the hope that it would be well received and appreciated. To that end, you could also consider to include positive comments!

#### Beware of Conflicts of Interest



A reviewer is supposed to be impartial. This can be compromised when:

- ► a reviewer is assessing the work of competitors
- ▶ a reviewer is assessing the work of former students or close colleagues

Obviously, if you find yourself in a potential conflict of interests, where you might not be able to be objective, you should return the manuscript. Many researchers in active fields experience to receive papers for review that presents the very results they were pursuing themselves. Needless to say, this should NOT influence the assessment.

### Outline



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#### Structure of reviews

Overall assessment: In this part (typically one or two paragraphs) you can give an overview of what you considered strong and weak points, and what you considered to be the main message(s).

General comments: Here you can give comments on the structural level, either with respect to contents or paper structure. You can use a numbering scheme, e.g.:

GC1: ... GC2: ...

Specific comments: This part typically would contain rather detailed comments, such as minor mistakes, missing explanation of terminology, etc., often referring to specific lines in the paper. Again, it could be a good idea to use a numbering scheme:

SC1: ...

## Revision Report

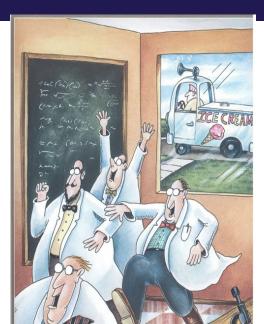


If a revision report is required or in place:

- ► If the editor gives specific instructions, one section should be dedicated to a response to these.
- ► For each suggestion of the reviewers, a response must be given. A good structure is to cite the suggestion followed by your response.
- ► As a general rule, try to follow the advice of the reviewers as much as possible and probably a bit more . . .
- ► Try to argue with the reviewers only if you honestly believe that your arguments will convince the editor and the reviewers.

### Time for a short break ...





### Outline



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#### Poster



## Title, formatted in sentence case (Not Title Case and NOT ALL CAPS), that hints at an interesting issue and/or methodology, doesn't spill onto a third line (ideally), and isn't hot pink

### Colin Purrington 666 Teipai Street, Posterville, PA 19801, USA

#### . .

Introduction
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Figure 1. A catchy photograph can help lure people to your otherwise boring poster. Yes, I risked my life getting this shot.

#### .....

Materials and methods

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#### Literature cited

Bonder, D.J., E.M. Bayne, and R.M. Brigham. 1996. Lunar condition influences coyote (Cants Intrans) howling. American Midland Naturalist 136:413-417.

Brooks, L.D. 1988. The evolution of recombination rates. Pages 87-10 in The Evolution of Sex. edited by R.E. Miched and B.R. Levin. Straues, Senderland, MA.
Scott, E.C. 2005. Evolution vs. Occutenture: an Introduction.

#### Results

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University of California Press, Berkeley.
Society for the Study of Dvolution. 2005. Statement on teaching evolution. 4 http://www.avolutionsociety.org/statements.html >.
Accessed 2005 Aug 9.

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We thank I. Gior for laboratory assistance, Mary Juana for

Acknowledgments

omitted...titles are TML1

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If you have a graphical way to express the next iteration of your hyperbosis, by all means include as. For example, you might make a graph of hyperbosical does that shows an expected result in a future experiment. That's something you couldn't do in a studitional manuscript, but it's tetally fine for a poster.

If you're curious, this poster has 876 words (just look in File Properties to get this statistic). Aim for 500 words. If you are above 1000 words, your poster will be avoided.

#### Further information

More tips can be found on "Designing conference posters," at http://celinpurington.com/tips/ecademic/posterdesign. Note that URLs should always be stripped of any automatic.

File and contents copyright Colin Purington. May be printed as handout for non-quodit use. Plagintizing, adapting, and hosting elsewhere prohibitod.

## Elements on a poster



- ► (Short) title and authors
- ► An introduction to your burning question
- ► An overview of your novel approach
- ► Your amazing results in graphical form
- ► Some insightful discussion of aforementioned results
- ► A *brief* listing of important literature
- ► A *brief* acknowledgement of the tremendous assistance and financial support conned from others

## Readability!



- ► Not too much text
- ► Follow the IMRAD structure
- ► Consistent color scheme
- ► Use figures as much as possible
- ▶ Print the poster in A4; you should be able to read it at arm's length

## Bad example



## Horrible posters are?



- unorganized
- cluttered
- extremely confusing to those outside your field of study
- ▶ filled with superfluous text
- picture-less
- embarrassing to your colleagues, your university, and yourselves.

http://http://justinlmatthews.com/posterhelp/posterguide/

## Presenting the poster



- ► Do not chew tobacco; do not chew gum
- ► Keep your hands out of your pockets
- ▶ Do not wear Axe Body Spray
- ▶ Do not wear sunglasses indoors
- ▶ Do not refer to notes when explaining your poster
- Speak to your viewers as you explain your poster. I.e., do not talk to your poster
- Avoid vagueness such as "this figure shows our main result." Explain your points concisely and in the necessary detail

http://colinpurrington.com/tips/academic/posterdesign

### And the final word on SEMCON



- ► Two presentation sessions run in parallel in the morning
- ➤ You will have **15 minutes** for the presentation followed by 5 minutes for questions
- ► Send your presentations in PDF or PowerPoint by email to Tatiana the day before SEMCON state the name of the presenter
- ► Similarly, there will be two parallel poster sessions in the afternoon
- ► Poster speeches must be given in **three minutes**

### ... And remember!

