Who is going to read my (NSF) proposal?

brief remarks to the WHOI Postdoctoral Association

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Writing a better proposal is a skill that you can improve with experience and by understanding the context of proposal review.

You will probably notice that a successful proposal is one that

- 1) has a significant, attractive science idea. This is most important, but this you would have guessed.
- 2) and that is also clear, concise and rewarding.
 This is less obvious, and so is the aspect of proposal writing that will be considered here.

This and other aspects are taken up also in the workshop,

Writing a better science proposal: a workshop for Postdocs and Assistant Scientists

offered next in June '06

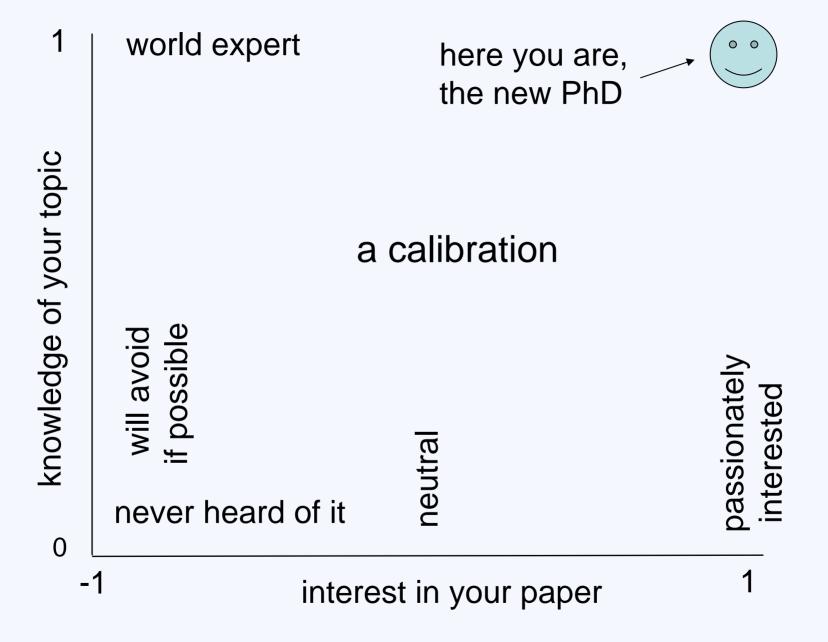
To begin planning your proposal, think of it as a form of (scientific) communication, of which we might recognize three varieties:

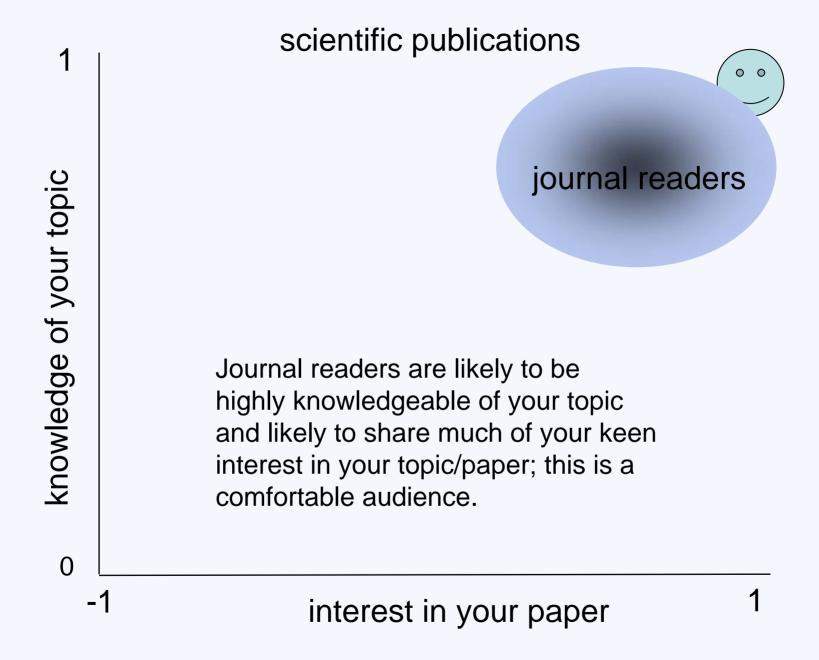
1) scientific publications,2) seminars, and3) proposals.

How are proposals different from scientific papers and seminars with regards to their audience, and especially their knowledge of your topic and interest in your paper?

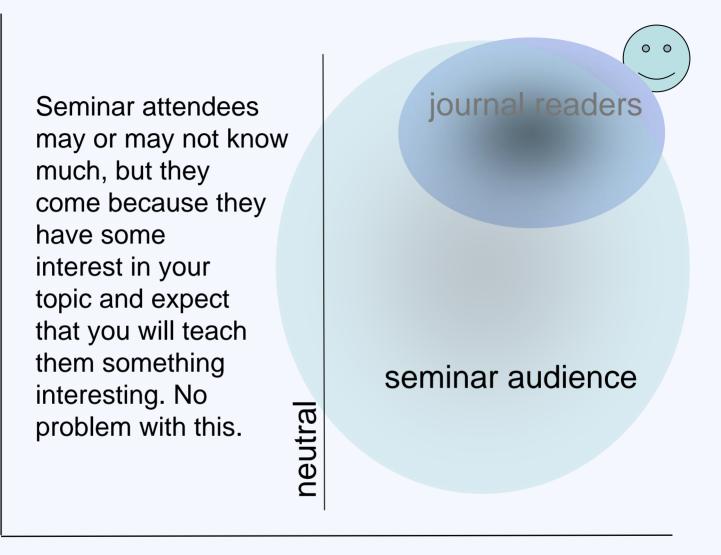
By 'knowledge' I mean experience, *not* intelligence.

By 'interest' I mean would they actively seek it out?



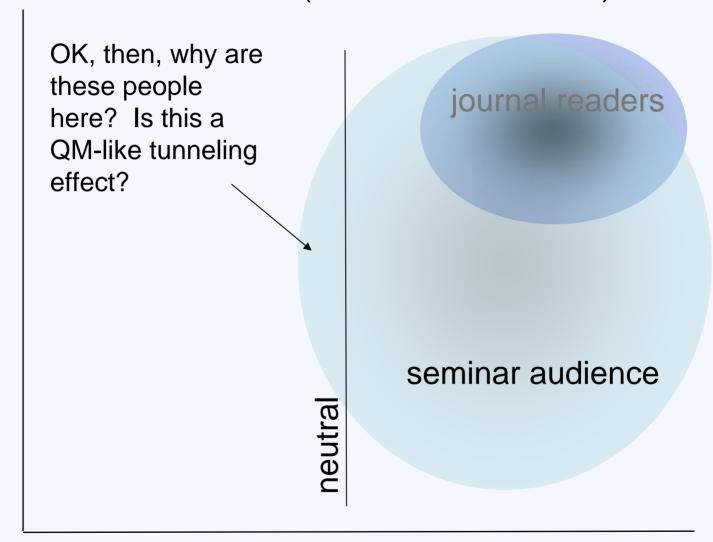


seminar (with cookies and tea)



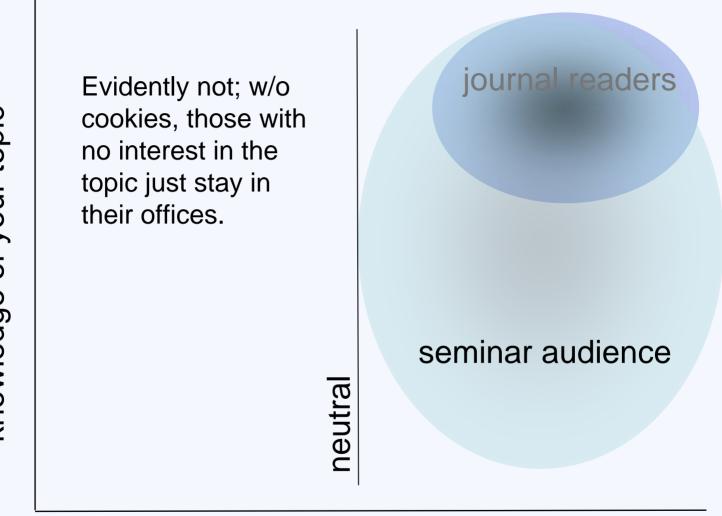
interest in your paper/talk

seminar (with cookies and tea)



interest in your paper/talk

seminar (without cookies)



interest in your paper/talk

what may happen on a first proposal

0 0

mail reviewers

and

panel members

This looks like trouble some of these reviewers and panel members appear to have little interest in my topic and seem unwilling to dig hard enough to figure out what I am trying to say. True, but it's the same for all of the other proposals.

interest in your paper/proposal

The audience for an NSF proposal:

- 1) About 6 mail reviewers, chosen by the program manager because they have at least some connection to or experience with your topic.
- 2) About 8 panel members, who are accomplished, mostly mid-career scientists whose interests span the full range of the panel, i.e., chemical oceanography, physical oceanography, etc. They interpret the mail review and make their rankings that they pass along to:
- 3) Two or three program managers who make the final funding decisions.

NSF panels are thorough and scrupulously fair. But they are also seriously overworked because of the shear number or proposals they must evaluate, often > 100, and because the requested funds greatly exceed the funds available. Panel members thus have a very time-consuming and stressful task that they did not volunteer for. It is only sensible to be at least as sympathetic and helpful to this audience as you would be to any other audience that you hope will understand and appreciate your work.

your proposal, now in sympathy with its audience

mail reviewers



panel members

a successful proposal is likely to be one that is clear, concise and rewarding

to the accomplished, conscientious but overworked audience that has to decide the winners and losers.

interest in your paper/proposal

- 1) Clear: Make it easy for your proposal audience to understand what you want to do, and why it is timely and important to do it now. Don't talk down to your reader, but also do not assume that they have the extensive, special knowledge that you have. Be straightforward and explicit at every step.
- 2) Concise: The crush of proposal numbers makes it essential that you make your case in the first few pages; the summary page is extremely important. If you find that you are bumping into the page limit and going to single space with smaller and smaller fonts then stop, and ask yourself --- who is going to read this?
- 3) Rewarding: Scientists enjoy learning, above all, and a research proposal is a promise that you will learn something significant that you will teach your colleagues in the future. Take the opportunity to show your reader that you can do that in your proposal. Reward your reader with some new insight or knowledge so that they will feel enriched for having read your proposal.

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Scientific communication and audiences come in varieties:

- 1 & 2) journal readers, and seminar audiences who more or less actively seek out your paper or seminar;
- 3) mail reviewers & panel members who are *assigned* your proposal, along with far too many others.

What has this got to do with my proposal?
A successful proposal is likely to be one that has a significant and attractive science idea and that is also clear, concise and rewarding to the mail reviewers and overworked panel members.

Make it easy for your proposal audience to understand what you want to do and why you want to do it, and then reward them with some new knowledge or insight.