



We will start momentarily at 2pm ET



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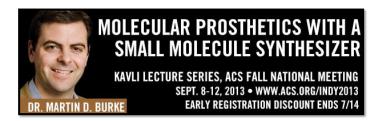
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Thursday, August 15, 2013

Intellectual Property Today and the America Invents Act

Marc Morley, Patent Attorney at Foley & Lardner LLP Stephen Flaim, Ph.D., F.A.C.C., Deputy Director, von Liebig Center Jacobs School of Engineering, UCSD



Thursday, August 22, 2013

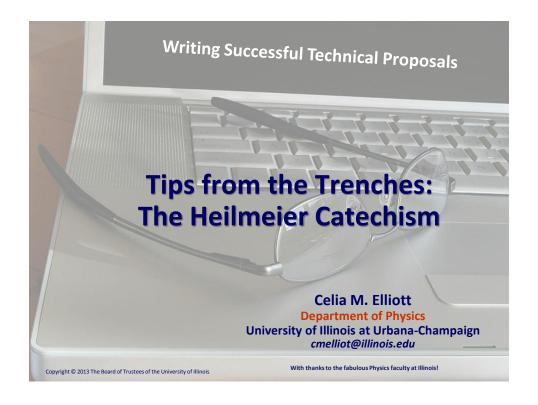
ACS Fellows Series: Keys to a Successful Career

Dr. Dwaine Eubanks, Professor Emeritus of Chemistry, Clemson University.

Dr. Amina K. El-Ashmawy, Professor of Chemistry, Collin College

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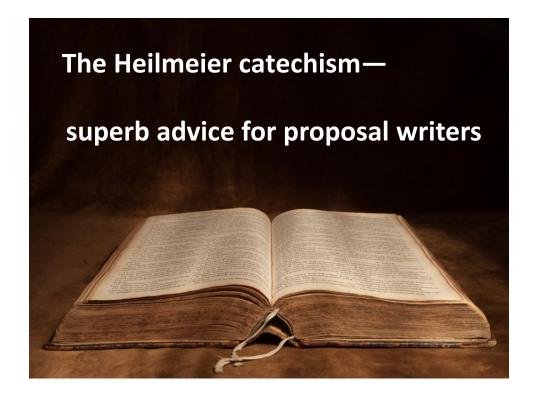
Meet George Heilmeier: scientist, inventor, industry leader, government official

PhD in solid-state materials
Inventor of the LCD
Member of the National
Academy of Engineering

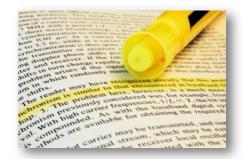
National Medal of Science, IEEE Medal of Honor, Kyoto Prize

White House Fellow, assistant to Secretary of Defense, director of DARPA

VP & CTO, Texas Instruments; Pres & CEO, Bellcore; Chairman & CEO, SAIC



1. What are you trying to do?



State the goal of your project using absolutely no jargon.

2. How is it done today, and what are the limits of current practice?



Why are improvements needed?
What are the consequences of doing nothing?

3. What's new in your approach, and why do you think it will be successful?





What preliminary work have you done? How have you tested your assumptions on a small scale?

Poll Question #1:

How hard is it for a novice (not previously funded) investigator to receive an NSF grant?

- a) Harder than for someone who has had previous support
- b) Easier than for someone who has had previous support
- c) The same—it's what you're proposing *now* that's important

Answer:

Harder than for someone who has a) had previous support

The success rate in FY12 for novice PIs was 17%, vs. 28% for PIs who had at least one previously funded project. The numbers are virtually the same for NIH proposals.

"Report to the National Science Board on the National Science Foundation's Merit Review Process, Fiscal Year 2012," May 2013 (http://www.nsf.gov/nsb/publications/2013/nsb1333.pdf).

Success Rates—NIH Research Portfolio Online Reporting Tools, http://report.nih.gov/success_rates/,

4. Who cares?



Identify your "stakeholders." Who will benefit from your successful project?

[&]quot;Research Project Grants: Success rates by type, activity, and Institute/Center"; accessed 07/08/13.

5. If you're successful, what difference will it make?



What will your successful project mean for your research?
For the infrastructure of your institution and future capabilities?
For your discipline? related disciplines?
For society? for the funding agency??

6. What are the risks and the payoffs?



Why are the potential rewards worth the risk?

What have you done to mitigate risk?

What's Plan B?

Poll Question #2:

What is the most common mistake novice NIH proposal writers make?

- a) Having too many collaborators
- b) Requesting too big a budget
- c) Proposing too much work
- d) Being overly concise

Answer:

c) Proposing too much
According to Sally Rockey,
Deputy for Extramural Research, NIH:

"So, often times, new investigators have so many great ideas that they come in with ten or twelve objectives and that really would not be accomplishable in a three to four year time frame. And reviewers pick up on that. So, first and foremost, you want to try to <u>put some boundaries</u> around your objectives...Usually we say <u>no more than four objectives or specific aims</u> in an application for a new investigator."

NIH, "Grant Writing for New Investigators," interview with Dr. Sally Rockey, April 30, 2010, http://grants.nih.gov/podcasts/All_About_Grants/episodes/Grant_Writing_April_2010.htm

7. How much will it cost?



In money?
In time?
In people?
In institutional
resources?
In "opportunity costs"?

8. How long will it take?



Match your project with the funding agency's "boundary conditions."

9. What are the midterm and final "exams" for your project?



How will you assess progress and make midcourse corrections? What are the metrics for success? How will you know you're "done"?

To recap...

Answer every question of the catechism in your project description.

Make it easy for a reviewer to pick out your answers and quote them in the review.

Make your answers as specific, quantitative, and jargon-free as possible.

Provide a summary at the end of your project description that recaps the catechism.

Other sources of good advice:



Making the Right Moves: A Practical Guide to Scientific Management for Postdocs and New Faculty http://www.hhmi.org/educational-materials/labmanagement/for-early-career-scientists

NIH Grant Process YouTube Videos (includes tips)
http://public.csr.nih.gov/aboutcsr/contactcsr/pages/contactor
visitcsrpages/nih-grant-review-process-youtube-videos.aspx

NIH "All About Grants" Podcasts
http://grants.nih.gov/podcasts/All_About_Grants/index.htm

NSF Regional Grants Conference Presentations,
March 2013, http://www.nsf.gov/bfa/dias/policy/outreach.jsp

Questions and feedback: cmelliot@illinois.edu

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