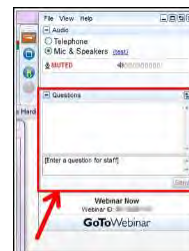
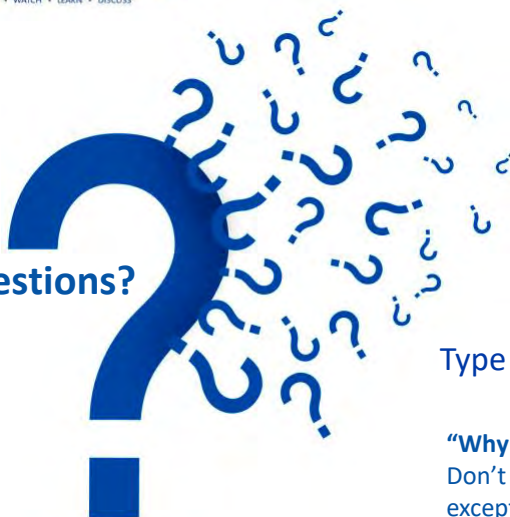




Have Questions?



Type them into questions box!

“Why am I muted?”

Don't worry. Everyone is muted except the presenter and host. Thank you and enjoy the show.

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1



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Why does food taste better when it is grilled or what molecular compounds make a great wine? Discover the delectable science of your favorite food and drink and don't forget to come back for a second helping.

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<https://www.acs.org/content/acs/en/acs-webinars/videos.html>

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ACS Member-only weekly newsletter with exclusive interviews with industry leaders and insights to advance your career.

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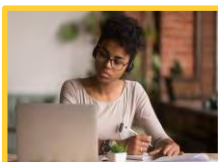
Join: bit.ly/ACSinnovationhub

ACS Career Navigator: Your Home for Career Services



Whether you are just starting your journey, transitioning jobs, or looking to brush up or learn new skills, the **ACS Career Navigator** has the resources to point you in the right direction.

We have a collection of career resources to support you during this global pandemic:



Professional
Education



Virtual Career
Consultants



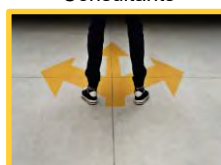
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<https://chemidp.acs.org>

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ACS Department of Diversity Programs

Advancing ACS's Core Value of Diversity, Inclusion & Respect



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Skin-Inspired Organic Electronics

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Date: Friday, May 28, 2021 @ 1-2pm ET

Speakers: Zhenan Bao, Stanford University and H.N. Cheng, ACS President
Moderator: Young-Shin Jun, Washington University in St. Louis

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- A macro examination of the state of the global economy and the implications for the US and other countries

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How to Win Funding: Compelling Grant and Fellowship Applications



NANCY JENSEN
Assistant Director and Program Manager,
Office of Research Grants and ACS Petroleum Research Fund



JOERG SCHLATTERER
Manager, Graduate & Postdoctoral Scholars Office,
American Chemical Society

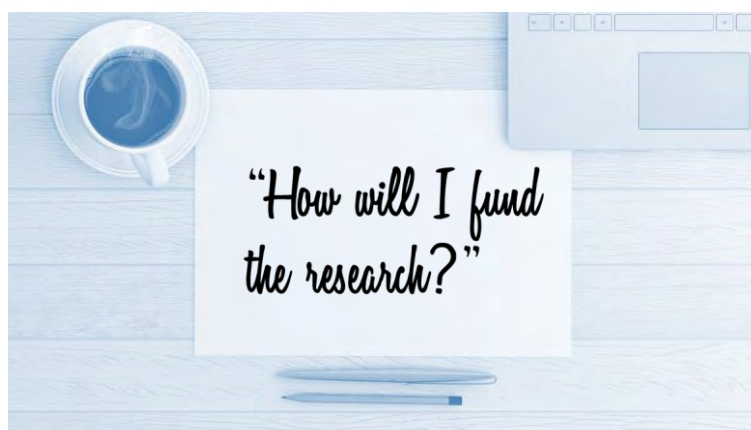
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www.acs.org/acswebinars

This ACS Webinar is co-produced with ACS Graduate & Postdoctoral Scholars Office and Petroleum Research Fund.

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The Greatest Pragmatic Question in All Science is...



16

Audience Survey Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT



For a successful proposal all I need is a great idea

- True
- False



17

The Two Essential Elements of a Successful Grant Application



- A Great Research Idea
- Effective Presentation of the Idea

18

Outline of Topics

- Basic Guidelines and Resources
- Funding Sources and Agency Information
- Specific Writing Pointers
- Common Pitfalls
- Facing Rejecting
- Final Thoughts



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#6 Demonstrate Managerial Skills



- Set forth a clear pragmatic research plan
- Show wise use of resources – **people, money, and facilities**
- Be well organized



21

#5: Know the Agency's Mission

- Every funding agency has ideas and rules about what it wants to fund.
- A proposal for one agency typically is not suitable to send to other agencies, because the overall goals are different.
- Don't attempt to contort the agency's mission to fit your research project.



22

#4: Read All Instructions Carefully

Be sure to follow the instructions.

A Common Reviewer's View:

If the PI can't follow instructions for the proposal, then the PI probably can't follow instructions to do elaborate research.

Be sure that you have the current version of agency guidelines



23

#3: Write with Confidence, But Don't Disregard Other Ideas

Your proposal should convey the attitude that:

- You have identified an important problem, and you are the right person to do the work and find the answers.
- You are aware of previous relevant studies.



24

#2: Have A Great Scientific Idea

One that is novel, has relevance to an identified target and can be investigated thoroughly, within the context of the institutional resources available to the PI, and within a reasonable time-frame.

- Novelty often derives from **detailed study** or **observation** and understanding of a problem or challenge.



25

#1: If in Doubt, Contact the Program Officer

Preferably, **before** you spend the time writing an uncompetitive or non-compliant proposal.

- Always be **polite, respectful,** and **honest** when communicating with a program officer



26

Still Have Questions?



- **Contact the Program Officer – by email or phone**
- **Be Ready to Answer:**
 - *What is your research objective?*
 - *How does this meet the agency's mission?*



27

Framing Your Questions

Questions NOT to Ask a Program Officer:

- *Will you fund my research?*
- *Is this a good research topic?*
- *What research topic should I work on?*
- *What are my odds of being funded?*
- *Who are the reviewers?*



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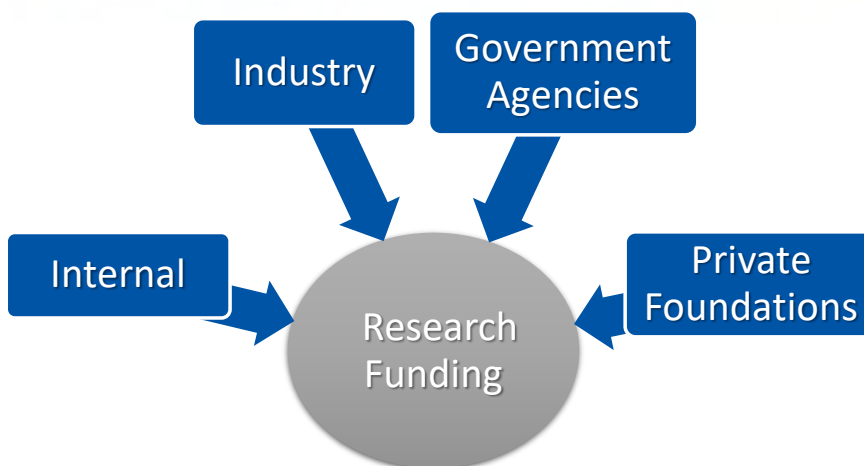
Outline of Topics

- ✓ Basic Guidelines and Resources
- ✓ **Funding Sources and Agency Information**
- Specific Writing Pointers
- Common Pitfalls
- Facing Rejecting
- Final Thoughts



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Funding Resources



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Finding the Right Agency



Make sure that your research fits the mission of the funding agency!



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Information on Federal Grants

Federal funding sources, and application procedures at “grants.gov”:



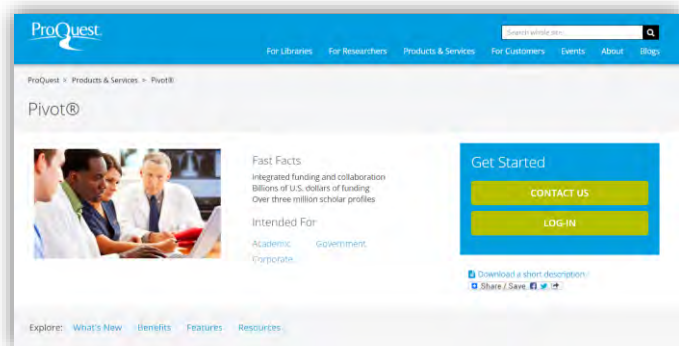
<http://www.grants.gov>



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Information on Other Funding Sources

PIVOT – Web based subscription service with extensive information on funding sources.



<http://www.proquest.com/products-services/Pivot.html>



General Internet Searches



33

Information on other Funding

Funding sources available for Students and Post Docs

www.acs.org/GradFunding



34

Sources of Information on Successful Topics



For Petroleum Research Fund (see Annual Reports):

<https://www.acs.org/content/acs/en/funding-and-awards/grants/prf.html>



For Research Corporation for Scientific Advancement
(see Awards Database): <http://rescorp.org/awards-database>



35

Sources of Information on Successful Topics



Awards Simple Search

Overview of Award Search Entries

Search award form:

Use double quotes for exact search. For example, "water vapor".

Active Awards Expired Awards

For NSF (search for funded projects):

<https://www.nsf.gov/awardsearch>

NSF Award Search Guide:

<https://www.nsf.gov/awards/award-search-guide.jsp>

Publications

NSF Merit Review Reports

These annual reports to the National Science Board include data on proposals and awards and other pertinent information, as well as descriptions of special activities that NSF has undertaken in support of the merit review process. Completed data are given to provide a long-term perspective. The current funding cycle is a significant decrease from the FY 2000 funding rate of 33 percent but the current rate has been approximately unchanged over the last five years.

The Foundation continues to meet its "time to decision" goal of informing at least 75 percent of Principal Investigators (PIs) of funding decisions within six months of receipt of the proposal. The National Science Board conducted a review of the NSF merit review process and concluded that the NSF merit review process is fair and effective. It remains an international gold standard for review of academic and engineering research proposals.

The same publication of the report is the first of the following:

For NSF also see NSF Merit Review Report to the National Science Board (NSB):

<https://www.nsf.gov/nsb/publications/pubmeritreview.jsp>



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Sources of Information on Successful Topics

The screenshot shows the NIH RePORTER website interface. At the top, there is a search bar and navigation links for HOME, ABOUT REPORT, FAQs, GLOSSARY, and CONTACT US. Below this is a menu with categories: QUICK LINKS, RESEARCH, ORGANIZATIONS, WORKFORCE, FUNDING, REPORTS, and LINKS & DATA. The main content area is titled 'NIH RePORTER' and includes a 'FIND PROGRAM OFFICIALS FOR YOUR PROJECTS' button. There are several search filters and options, including 'SUBMIT QUERY', 'CLEAR QUERY', 'FISCAL YEAR (FY)', and 'Active Projects'. The 'RESEARCHER AND ORGANIZATION' section has fields for Principal Investigator (PI) / Project Leader, Organization, Department Type, and Organization Type. There are also fields for City, State, Country, Congressional District, and DUNS Number. A 'TEXT SEARCH' section is at the bottom with a search box and options for 'Search in' (Projects, Publications, News) and 'Limit Project search to' (Project Date, Project Status, Project Abstracts).

For National Institutes of Health

(see Research Portfolio Online Reporting Tool - RePORTER):

<https://projectreporter.nih.gov/reporter.cfm>



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Outline of Topics

- ✓ Basic Guidelines and Resources
- ✓ Funding Sources and Agency Information
- ✓ **Specific Writing Pointers**
- ❑ Common Pitfalls
- ❑ Facing Rejecting
- ❑ Final Thoughts



38

Now that you have an idea...



...how do you go about writing the proposal?



39

Clear Presentation

- **State:**
 - the problem or hypothesis.
 - why the issue is significant.
 - what you are going to do.
- **Explain how you will carry out the proposed work.**
- **Address relevant potential challenges and alternatives.**
- **Address relevant literature**



40

State Your Research Objective

- Make clear in the **first paragraph** exactly what your proposal is about.
- The statement of your **research objective** should lead you directly to your **methodology**.



41



Audience Survey Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT



Which of the following do you think is the best way to convey the overarching general nature of your research?

- A) The proposed research is directed to the synthesis of analogs of dimethyl chicken wire a natural product known to have antimicrobial properties.
- B) The proposed research includes building a library of compounds and testing them for antibiotic activity and cancer prevention properties.
- C) The proposed research is directed to the synthesis of fluorinated analogs of dimethyl chicken wire a natural product known to have antimicrobial properties. The analogs are projected to have better bioavailability and accordingly higher potency than the natural product.

42



Audience Survey Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT



Which of the following do you think is the best way to convey the “newness” of your idea to reviewers?

- A) The proposed research has never been done before and will revolutionize organic synthesis.
- B) The proposed research provides a new method for functionalization of heterocyclic compounds in a one-pot synthesis using an iron catalyst.
- C) The proposed research provides a novel approach to functionalization of heterocyclic rings.

43



Audience Survey Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT



Which of the following do you think is the best way to start the proposal section on experimental plan?

- A) In this project, we will study the functionalization of hydrocarbons and aromatic compounds and test their physical properties, bioactivity and shelf stability by a variety of methods.
- B) In this project, we will study the functionalization of sp^3 carbon atoms of aliphatic alkanes, cyclic alkanes and alkenes.
- C) In this project, we will initially focus on the functionalization of sp^3 carbon atoms in hexane molecules with an iron catalyst.

44

Exemplary Hypothesis

- *The proposed research will test the hypothesis that a new xyz catalyst will oxidize compounds having AB functionalization.*

OR

- *We hypothesize that.....*



45

Exemplary Objectives

- *The first objective of the research is to construct the new catalyst xyz from metal x and ligands y and z.*
- *The second objective is to use the new xyz catalyst to oxidize compounds having AB functionalization including AB substituted aromatic compounds and AB substituted cyclohexene compounds.*



46

Exemplary Proposal Writing Process

- **Create a topical outline.**
- Develop subtopics and expand the outline.
- **Draft main graphics.**
- Develop the first draft of the text.
- Review, revise, and complete the draft.
- **Submit a copy to administrators for approval.**
- Critical review of graphics and text.
- Finalize text and graphics.
- Complete and submit to agency significantly ahead of the deadline.



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Outline of Topics

- ✓ Basic Guidelines and Resources
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Proposal Guidelines

Carefully follow all instructions provided by the funding agency

- Page Limit
- Word Limit
- Budget Limit
- Abstract Format
- Reference Format
- PI (Co-PI) Eligibility
- Font Size
- Minimum Resolution
- Table of Contents
- Research Objectives
- Tables/Figures
- Submission Method (file types, size, etc.)



49

Audience Survey Question

ANSWER THE QUESTION ON BLUE SCREEN IN ONE MOMENT



Plagiarism only applies to literature articles authored by other researchers

- True
- False



50

Avoid Plagiarism



- Cut and paste copying from published work
- Copying from your own published work
- ✓ Properly note and credit copied passages



51

Review Bibliography

- Did you used the required form?
- Age of References
- Number of Different Research Groups cited



52

Major Pitfall

Typographical Errors are a Big Problem

53

Reviews of Uncompetitive Proposals



"The PI has failed to refer to important studies published in the past 2-3 years."



"Much important information on experimental procedures, and equipment for measurements is omitted. I can't really tell what is going to be done and how."



"This proposal is a simple extension of the PI's Ph.D. thesis."

54

Reviews of Uncompetitive Proposals



“The PI seems to feel only one outcome of these studies is possible and fails to consider others. If that were true, the studies would be unnecessary.”



“This work can certainly be carried out, but it does not address any topic of broad current interest. I would probably not read a paper describing the results.”



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Facing Rejection

Rejected Proposals are Inevitable

Number of Applications > Available funding

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Facing Rejection

Responding to Rejection as a Learning Experience

- Don't be overcome by emotions
- Get Feedback
- Mind the details

Article: "After the Fall: What to Do when your Grant is Rejected"
Nature, February 20, 2020 Vol578, p 477—479.

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Facing Rejection

Learn about Writing Proposals by becoming a reviewer

*Be a
Reviewer!*

- No better way to see how the system works.
- Not a major time commitment.
- **Web-based *FREE* training with focus on publication reviews at: acsreviewerlab.org**



59

Agency Expectations for Grantees

- Follow the experimental plan and budget set out in your approved proposal
- If changes are needed work with your program officer before making changes
- Make all required reports in a timely fashion
- Publish results

60

Questions



61

A Career Planning Tool For Chemical Scientists



ChemIDP is an Individual Development Plan designed specifically for graduate students and postdoctoral scholars in the chemical sciences. Through immersive, self-paced activities, users explore potential careers, determine specific skills needed for success, and develop plans to achieve professional goals. **ChemIDP** tracks user progress and input, providing tips and strategies to complete goals and guide career exploration.

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Assistant Director and Program Manager,
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JOERG SCHLATTERER
Manager, Graduate & Postdoctoral Scholars Office,
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ACS Office of Research Grants: Additional Resources



Nancy J. Jensen:
n_jensen@acs.org
 Phone 202-872-6186



ACS Petroleum Research Fund
www.acsprf.org
 Inquiries: prfinfo@acs.org

Additional Contact Information



- **Dean Dunn:** d_dunn@acs.org
 Geochemistry, Geology, geophysics



- **Thomas C. Clancy:** t_clancy@acs.org
 Polymer Science and Chemical and Petroleum Engineering



- **Askar Fahr:** a_fahr@acs.org
 Physical Organic Chemistry and Physical Chemistry/Chemical Physics



- **Burt Lee:** b_lee@acs.org
 Surface and Materials Science

66



Skin-Inspired Organic Electronics

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Date: Friday, May 28, 2021 @ 1-2pm ET

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Moderator: Bill Carroll, Caroll Applied Science

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What You Will Learn:

- How businesses can be more successful by taking a more holistic view of the environment in which they operate
- How companies are refocusing due to the shifts in consumer demand and the need to work towards a greener economy
- A macro examination of the state of the global economy and the implications for the US and other countries

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