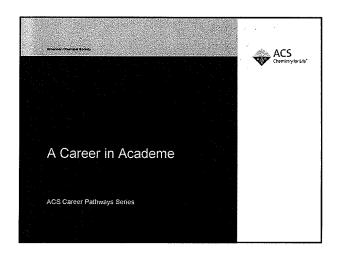
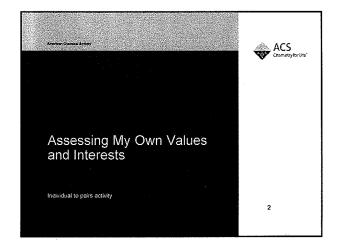
I what is this?





1 where does this fit in?

A Career in Academe: Agenda

- · The Academic Career Pathway
- · Crafting a Curriculum Vita

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areer in Academe: Agenda

The Academic Career Pathway
Crafting a Curriculum Vita
Making Myself More Competitive
Getting Hired for an Academic Position
Being Successful: Your First Year on the Job

ACS
Chemistryfortillo

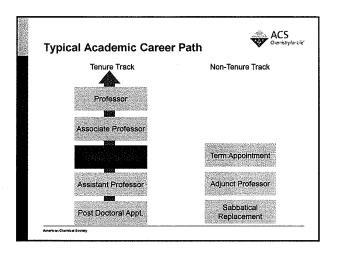
ACS
Chemi

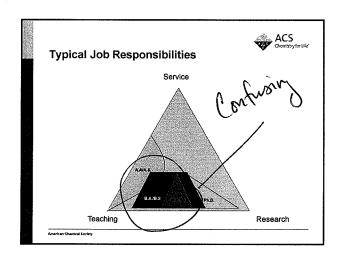
Trends and Outlook for Academic Jobs

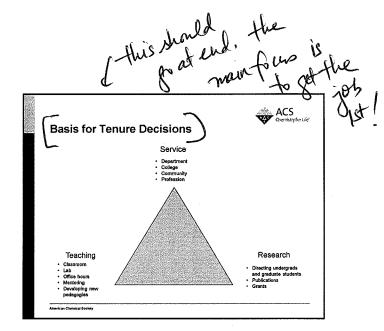


- · Growing or shrinking?
- · Which segments are most promising (community colleges?)
- · More use of non-tenured faculty?

ACS Overnistry for Life* Types of Academic Institutions Type of Institution Number Doctoral Universities Master's Colleges and Universities Baccalaureate Colleges 1669 Associate Colleges 766 85 Source: Carnegle Foundation American Chamical Society







ACS
Chemistry for Life Job Responsibilities and Type of Institution Teaching Research Service Ph.D. granting 3 to 6 hours per 6 to 10 pubs in 6 week (lecture) \$100K+ in grants 10 to 15 hours 2 to 3 pubs in 6 Baccalaureate per week (lecture and lab) years \$20 to 60K grants Associate 20 plus hours •0 to 2 publications per week (lecture and lab) American Chemical Society

ACS Committee for Professional Training

Develops and administers the guidelines for defining high-quality undergraduate chemistry programs

Approves departments meeting guidelines

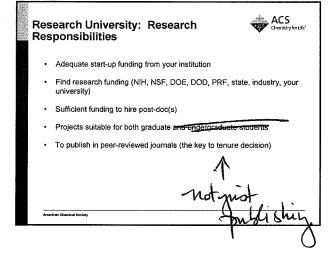
CPT reviews approved schools on a five-year cycle

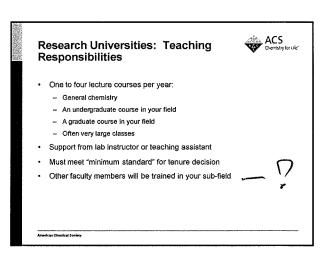
Approval based on chemistry program's faculty, facilities, and curriculum.

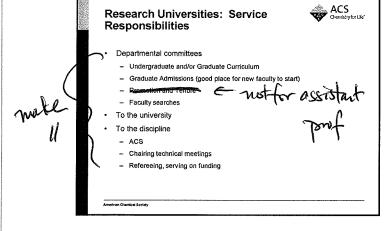
CPT requirements include:

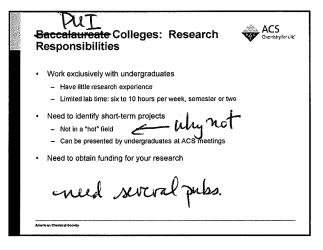
What?

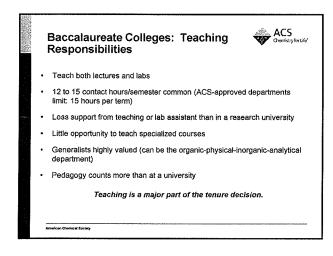
What?

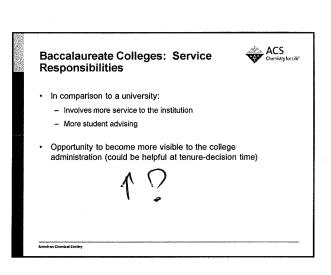


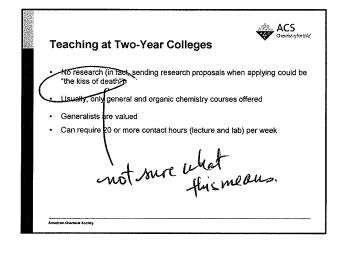


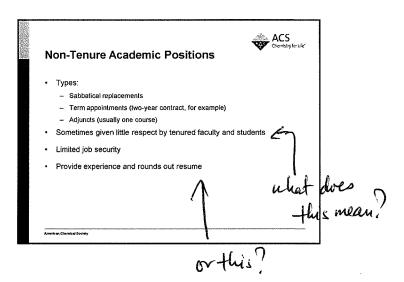




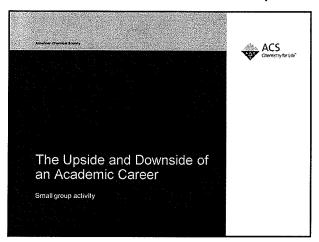


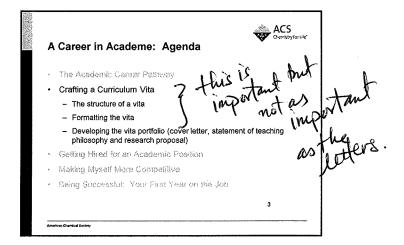


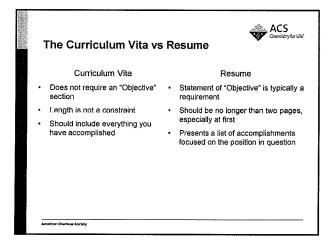


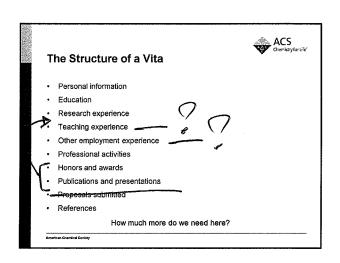


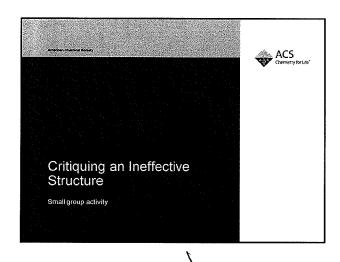
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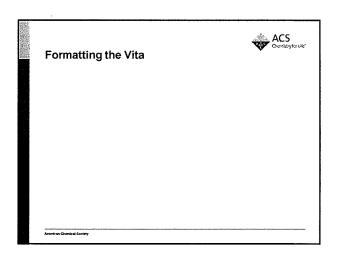




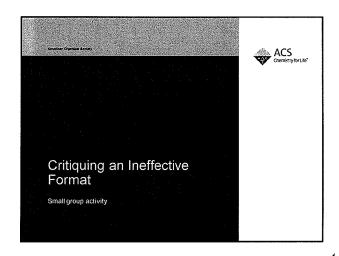


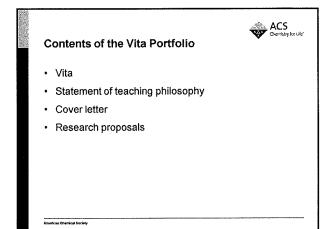


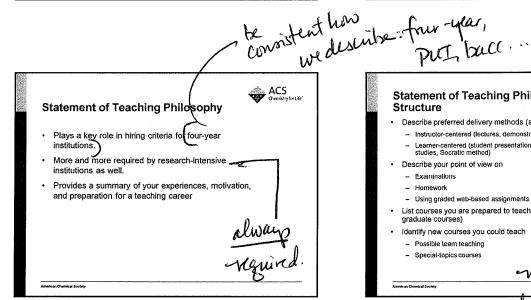


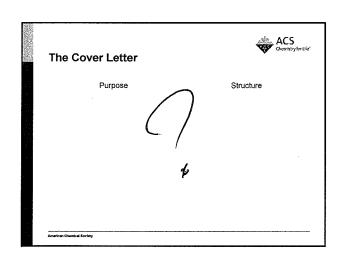


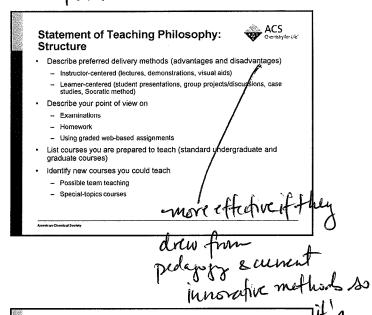
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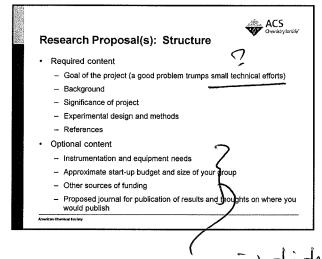
Research Proposal(s): Purpose

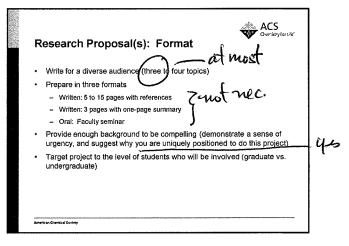
Demonstrate your creativity and independence as an investigator

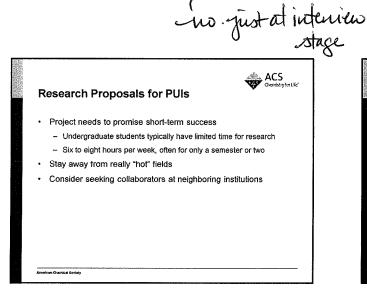
Can build on your doctoral or post-doctoral work
Differentiate your ideas from those of your advisor

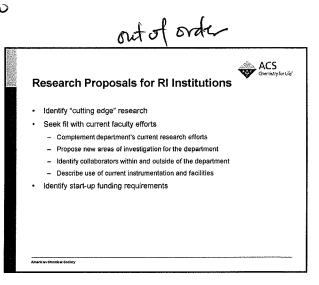
Seek feedback about alternative approaches
Send proposals to your references as basis for their comments in their letters of recommendation

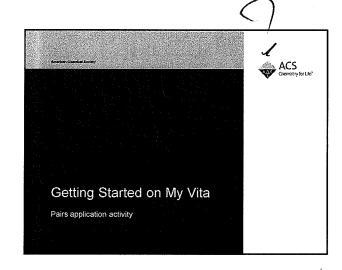
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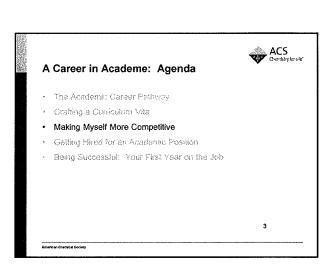












what there wear?

What Counts in Academe?



	A.A.	B.A./B.S	Ph.D.
Teaching experience	2.88	2.52	1.73
Research proposals	1.12	2.18	2.67
Publications (quality and quantity)	1.32	2.34	2.84
Reputation of advisor(s)	1.17	1.94	2.61
Prestige of Ph.D. institution	1.54	2.14	2.37
Campus interview	2,92	2.98	2.91

Tactic 1: Gain Teaching Experience



- · Get a position as a teaching assistant
 - Recitation vs. laboratory
 - Construct exam questions/quizzes
 - Conduct problem solving sessions
- Offer to teach a regular class lecture or an evening class (consider a nearby two- or four-year college.)

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this is a given. Maybethe I service should focus on strategies on such position.

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Tactic 2: Do a Post-Doc

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- About half of chemistry Ph.D.s do a post-doc.
- Post-docs are typically required for a position at a doctoral research institution
 - Broadens your expertise and interests
- Allows you time to develop independent research proposals
- A post-doc also makes you more competitive for a position in a top fouryear college.

Cheaching postdoes are important also for 4-year

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Reasons Why Chemists Do Post-Docs

Training outside Ph.D. field	27%	
Post-doc expected in field	22%	
Additional training in Ph.D. field	22%	
Work with a particular person or in a particular place	17%	
Other employment not available	11%	
Other	2%	

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Types of Post-Docs



- "Traditional"
 - Research done in sub-field or aligned field
 - In a chemistry department at R1 institution
 - At a medical school
- · Teaching (research coupled with major teaching responsibilities)
- · Government (major federal research labs)
- Industry (pharma and major chemical companies)

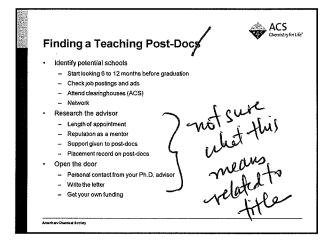
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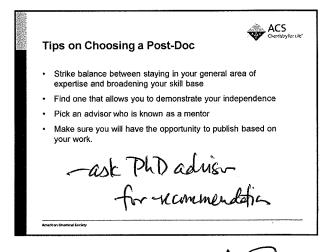
What a Post-Doc Does

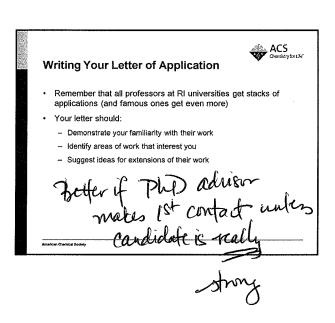


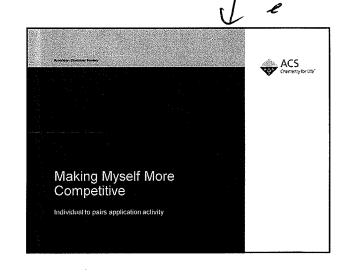
- Design and conduct experiments (demonstrate independence)
- · Start new projects
- Manage the lab
- Share expertise with group members
- · Mentor graduate and undergraduate students

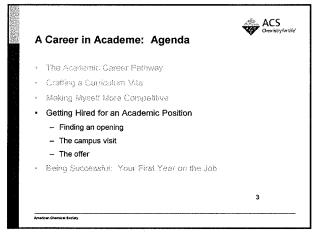
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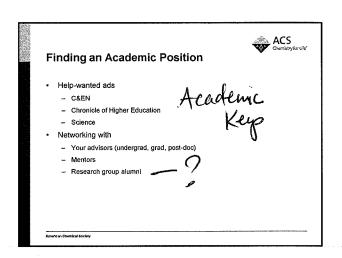












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Assessing a Potential Opening

- Identify institutions of interest (via websites and conversations with current faculty, postdocs, students)
- Determine requirements for a faculty position;
 - Normal teaching load
 - _ Class size
 - Research facilities
 - Start-up money
 - Expectations for tenure (teaching, research, service)
 - Library facilities
 - Available instrumentation
- · Assess your fit with the department's value system

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- · Individual and group interviews
- The research presentation
- The research proposal presentation
- Teaching a sample class
- · Exit interviews and after the visit

Note: I need to fill out this section.

made as Countried Course

Presenting Your Research Proposal



ACS Chemistry for Life*

- · Commonly done after the seminar
- Include "preface points" in your seminar
- Typically a one-hour presentation
 - Expect many interruptions
 - Expect many interruptions
 Less formal style than seminar
 - Use PowerPoint format
- Try to deliver your entire proposal
- Tip: Capture the essence of your proposal using a key phrase in the

need unified theme

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The Offer



Aconform Chambra & Gooley

Finding an Academic Job: Summary

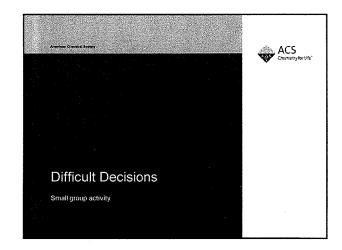


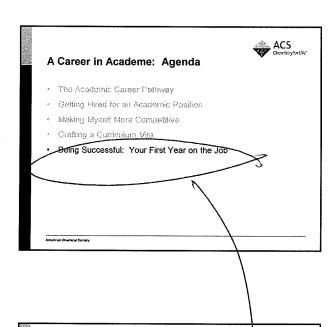
- Identify the type of institution that best fits your research and teaching load expectations
- Investigate your "fit" with the institutions
- Prepare and seek feedback on your
 - CV
 - Statement of teaching philosophy
 - Research proposals
- Consider
 - The availability of students to carry out your research
 - Instrumentation requirements

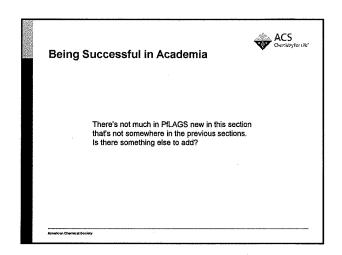
Be prepared to give an oral presentation of your proposal(s)

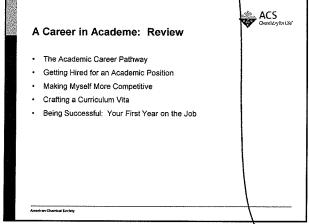
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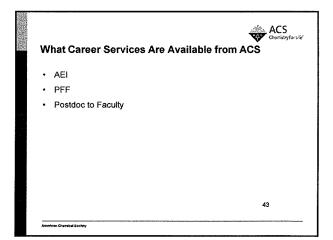
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