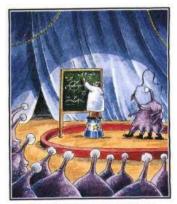
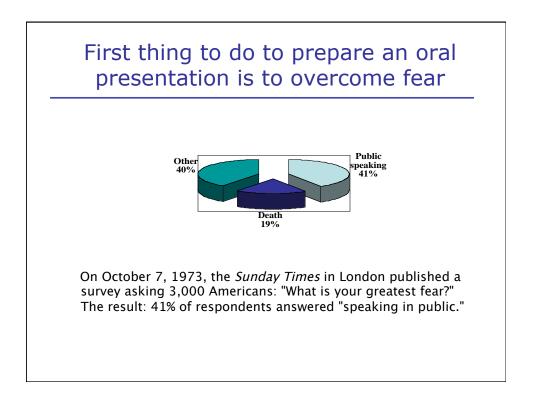
Giving technical presentations: Do's, Don'ts, and Why Nots?



Abducted by an alien circus company, Professor Doyle is forced to write calculus equations in center ring.

Neal Lerner, Northeastern Writing Program n.lerner@neu.edu; 617-373-2451



An oral presentation to evaluate

http://www.youtube.com/watch? v=tyzKrQv9zFI&feature=related

Five Canons of Classical Rhetoric or the art of persuasive speech

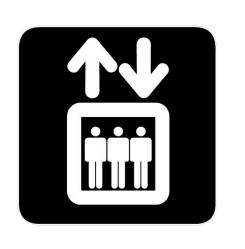
- 1. Invention: Generating content and honing your message
- 2. Arrangement. Organizing the material
- 3. Style: Using "proper words in proper places" (J. Swift).
- 4. Memory: Speaking without notes.
- 5. Delivery: Controlling voice, gesture, expression--and graphics!



Invention: What's your essential message?

Prepare an **elevator speech** or a concise summary of your project in spoken language.

Practice your elevator speech.





Arrangement: Control the story that you want to tell about your content (in three parts).

1. Develop a general goal.

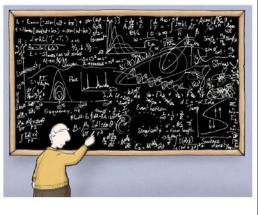
- Inform? Persuade? Brainstorm?
- 2. Develop a precise objective.
 - e.g., After my presentation, the listeners will be able to identify my three major conclusions and their implications.
- 3. Consider the questions your presentation will answer for your audience.



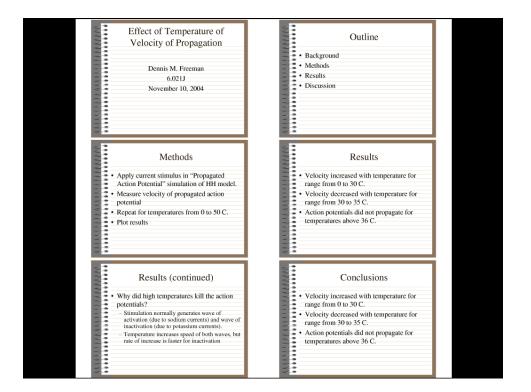
Arrangement Step 1: Organize your data & assemble a storyboard

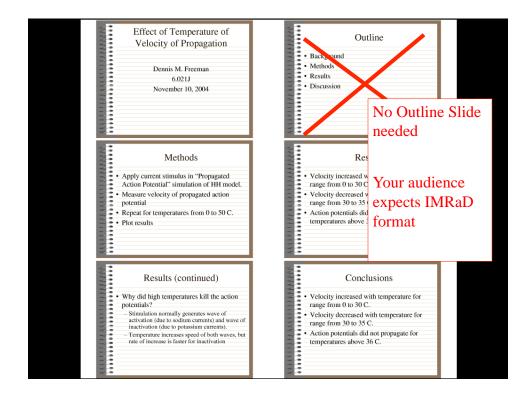
Start with figures:

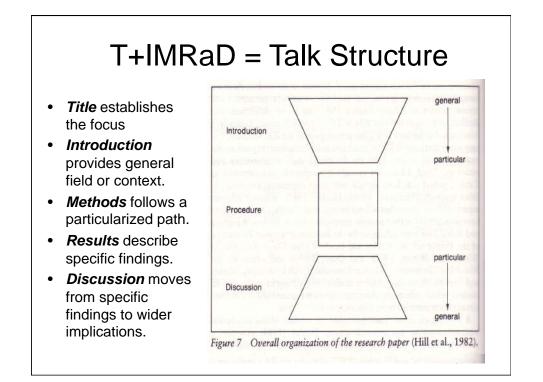
- Assemble hard copies of your figures in a "storyboard."
- Figure out the major technical theme of your presentation.
- Assess how each figure contributes to the major theme.
- REVISE figures to focus on the major theme (develop figures that summarize that major theme).

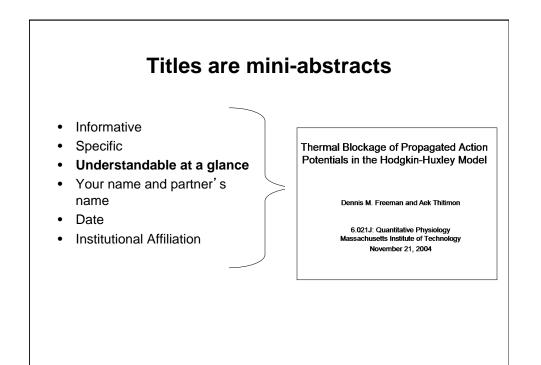


http://www.nearingzero.net/index2.html



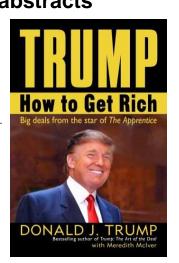






Titles are mini-abstracts

- Informative
- Specific
- Understandable at a glance
- Your name and partner's name
- Date
- Institutional Affiliation



Introduction provides context & purpose of research

• If you wish, you may have a background slide.

Purpose slide

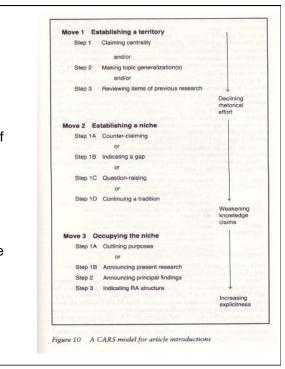
- Explains the *purpose of the project* (aims?)
 - Relate to Results + Discussion points
- Show logic of ideas in words or text
- Meaningful graphic OK; bullet points OK

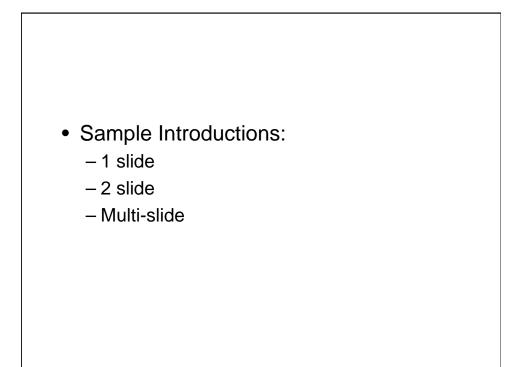
The "ideal" introduction follows . . .

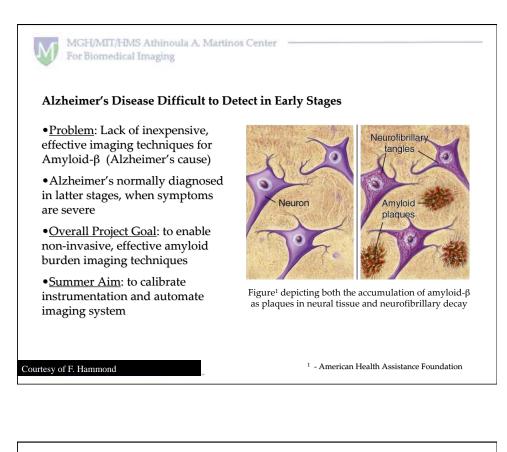
Create a Research Space

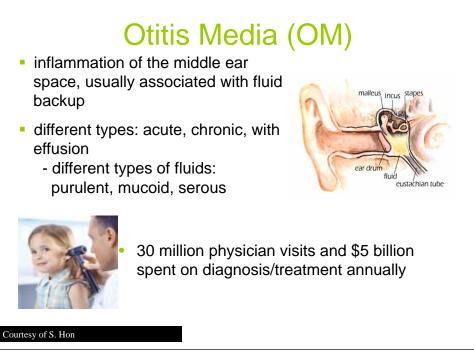
- 1. Re-establish significance of research field.
- 2. Situate actual research in these terms.
- 3. Show how this niche will be occupied and defended.

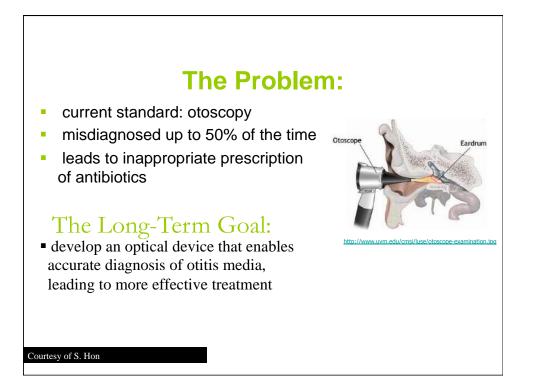
Swales (1990)

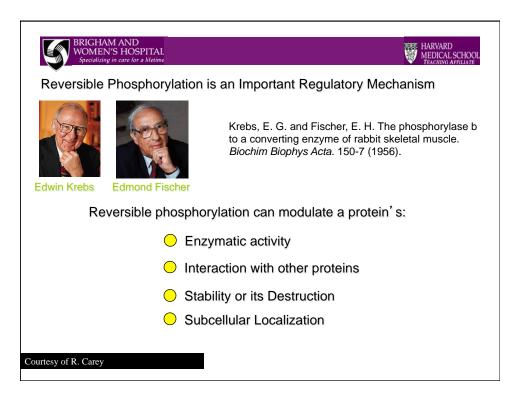


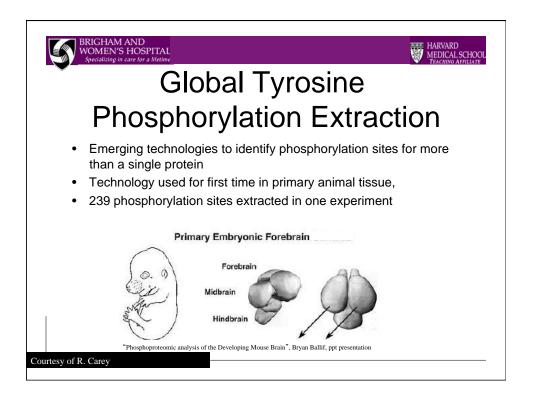


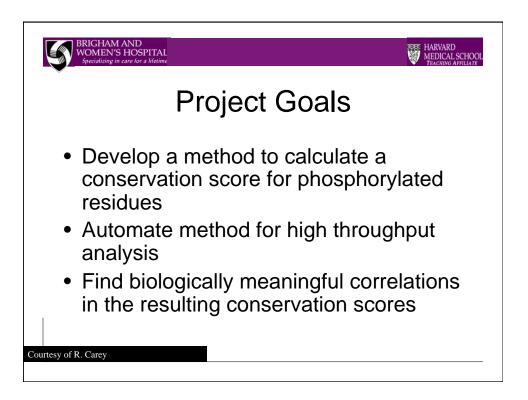










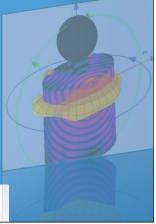




Joan Sebastia Pujol Gunar Schirner Kaushik R. Chowdhury

Courtesy of M. Swaminathan

Courtesy of M. Swaminathan



Northeastern

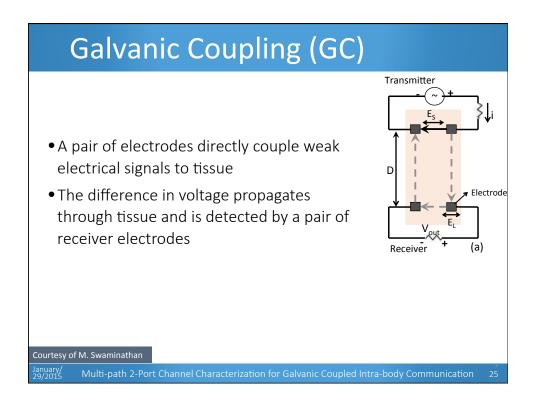
Intra-body Network (IBN)

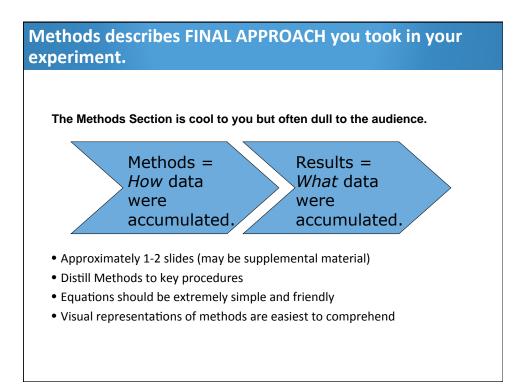
- IBN allows implanted sensor to actuator communication
- High frequency signals (Eg. RF signals)
 - Get absorbed by wet tissues
 - $_{\rm o}\, {\rm Requires}$ high transmission power
 - $_{\rm o}\operatorname{Propagates}$ through air and not secured

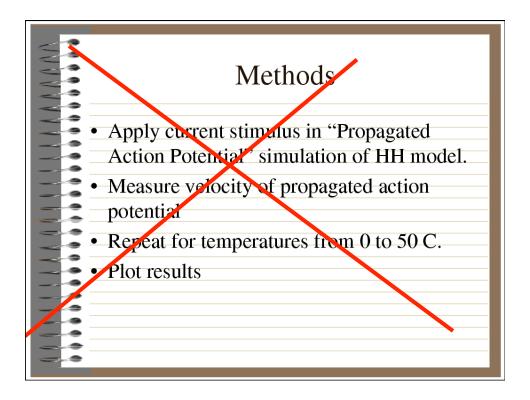


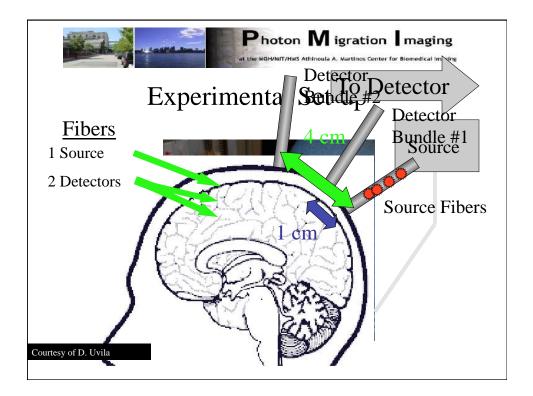
 \checkmark Need low power consuming communication paradigm that is suitable for signal propagation through tissues.

Multi-path 2-Port Channel Characterization for Galvanic Coupled Intra-body Communication

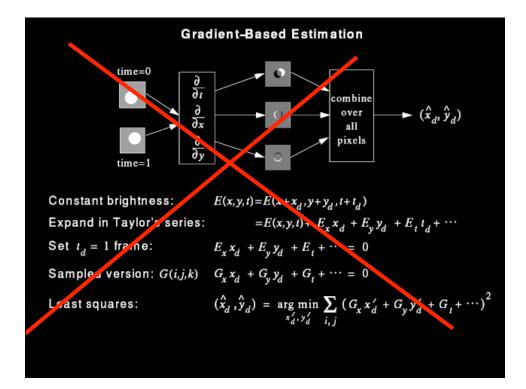


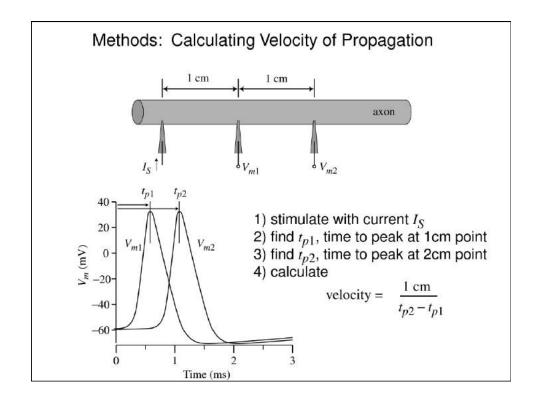






BRIGHAM AND WOMEN'S HOSPITAL Specializing in care for a lifetime	HARVARD MEDICAL SCHOOL TEACHING AFFILIATE
Extracting the Seque	ence
Phosphorylation Data: <u>Gene Phos-Tyrosine</u>	
Dab1 KKEGVY*D	VPKS
Entire Sequence:	
MSTETELQVA VKTSAKKDSR KKQQDRSEAT LIKRFKGEGV RYKAKLIGID EVSAARONS HKQKIFLTIS FGGIKIFDEK TGALQHHAV HEISYIAKDI TDHRAFGVVC GKEGNHFFVI IYELKQREEL EKKAQKDKQC EQAVYQTILE EDVEDPVVJI IVFEAGHEPI RDFETEENT SQFLEDFESR FAAATPNRNL SMDPDELLEA TKVSAVTQLE LEGDMSTPD ITSPPTPAT SMSFGTAAVP SGYVAMGAVL PSFWGQQPV QQQIAMGAQP PVAQVIPGAQ PIAWGQPGL PTQTVMPLAA AMFQQPITPL ATVPGTNDSA RSSPQSDKPR QKMGKESKD FQMVQPPPVI NKVGVAQDTD DCDDPDISQL NLTPVTSTTP STNSPTPAP RQSPSKSSA SHSDPTADI SQSSTSDFF GEPSGEPSGD NISPQDGS	A INTAQAAEPV ILD RDLFQL Y QVPTSQKKEG VYDVPKsQPN P GDAFLPSSSQ TLPGSADVFG F PATQQAMPTV AGGFPPAAFM P SRKPDQPSLT CTSEAFSSYF

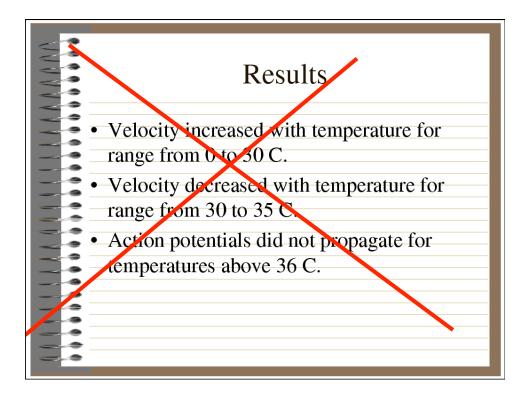


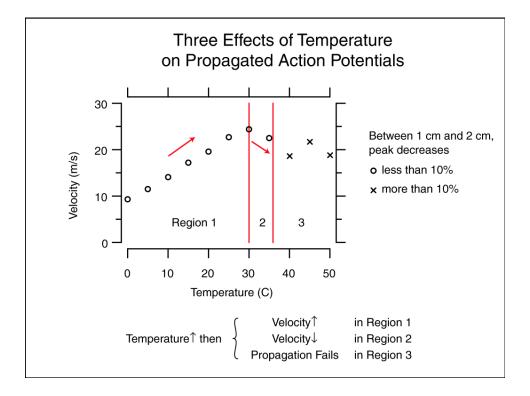


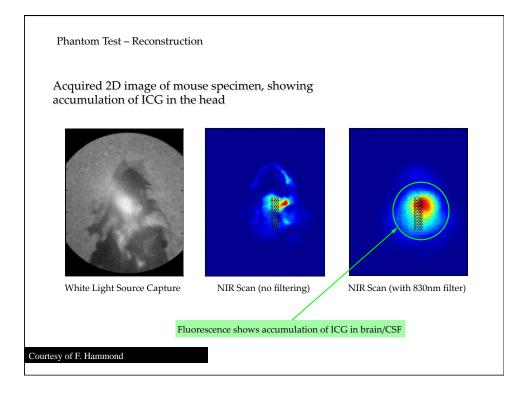
Results section describes the major findings of experiment.

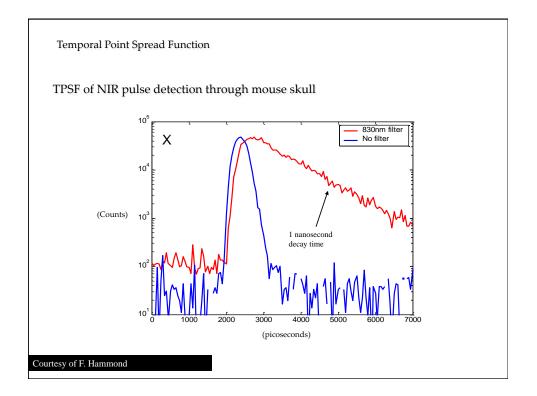
- Approximately 2-3 relevant figures
- Distill information about each figure into 2-3 bullet points
- Include key words in figures to remind yourself (and audience) of each bullet point

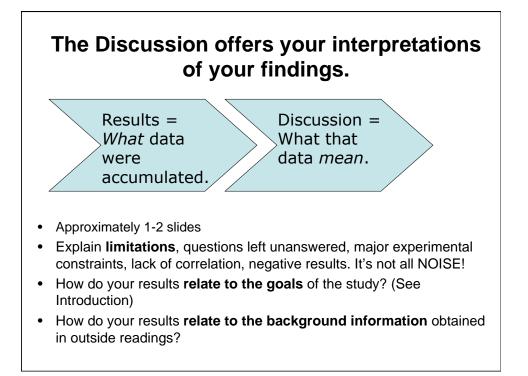


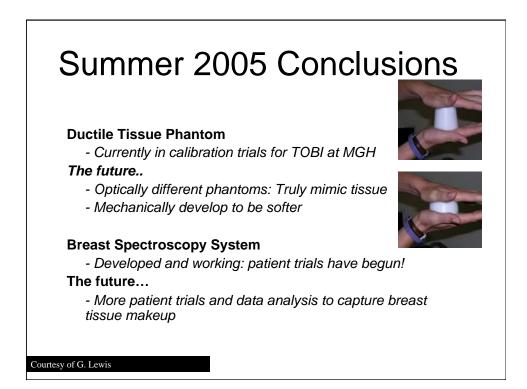


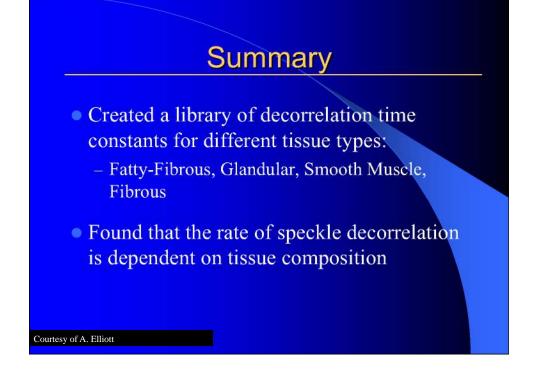


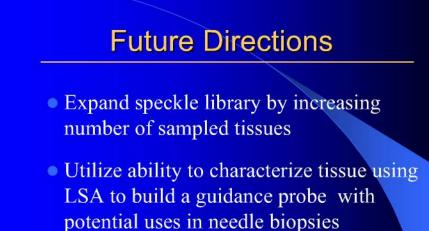












Courtesy of A. Elliott

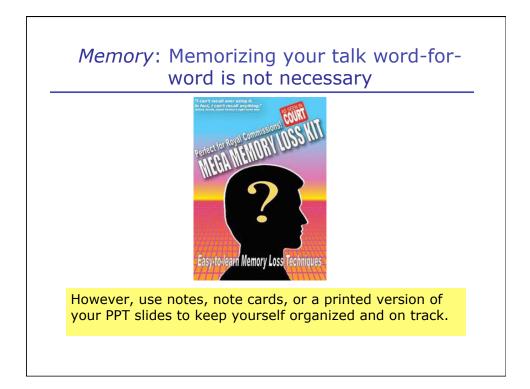
Arrangement Step 2: Edit the Slide Show

- Edit slides for coherence
- Check for irrelevant bullets, plots.
- · Check for balance and coherency in storyboard
- Spell-check and proofread

Style: Consider your speaker's persona

- Think in terms of talking to people
- Look at your audience
- Observe their reactions
- Adjust your style accordingly
- Make your enthusiasm for your work infectious
- Even shy people can be very effective public speakers!







The key to effective delivery is to practice!

- Stick to the time limit.
- Practice speaking slowly. Breathe.
- Work around your nervous habits.
- Use visuals as cues, not notes.
- Know how to use the equipment.
- Have a printed copy of your presentation for backup.
- If you get lost, stop and regroup. Your audience wants you to succeed.

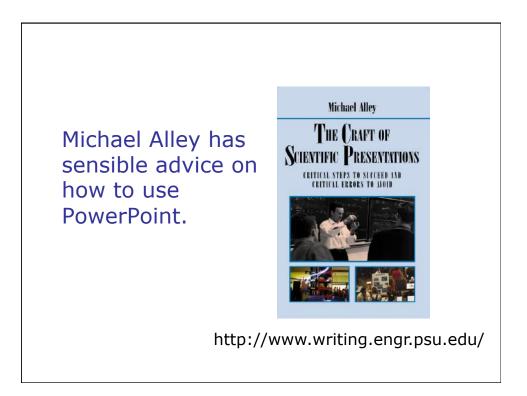


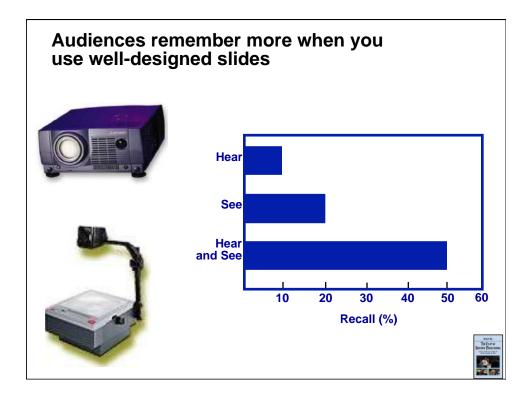
Chapter 3. Andrew's scheme backfires.

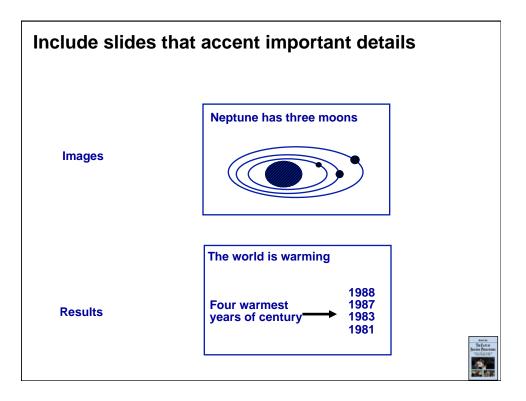
http://www.nearingzero.net/index2.html

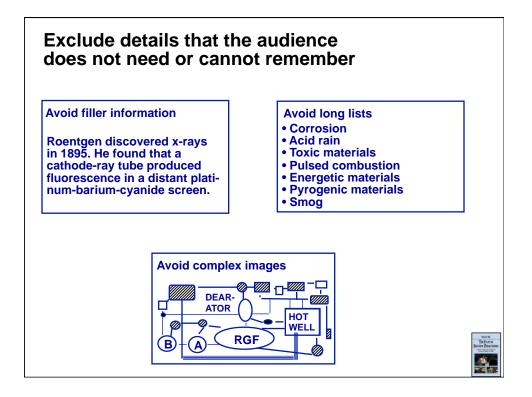
	Prepare for Q&A
Big Picture	 Q&A is usually the best part of the talk! Usually questions are easier than you expect. Stay polite & composed. You' re the expert. The moderator should police the audience.
Q&A Protocol	 Invite questions from different parts of the room. Listen to the ENTIRE question. Make sure everyone hears the question Identify the type of question. Answer concisely. End Q&A on good note. Don't offer to answer via email unless you mean it. Prepare backup slides. Thank the audience.

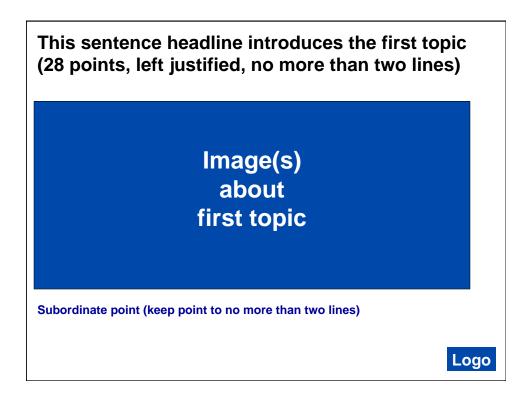
If	Then
A question contains many parts	Acknowledge many parts - Answer 1 of the questions - Answer more than 1 if time
There is no question	Spin into a question
The question is vague	"As I understand your question"
The question is combative	"I disagree." + explain "Thank you for your concerns." - "Perhaps we can talk after the Q&A"

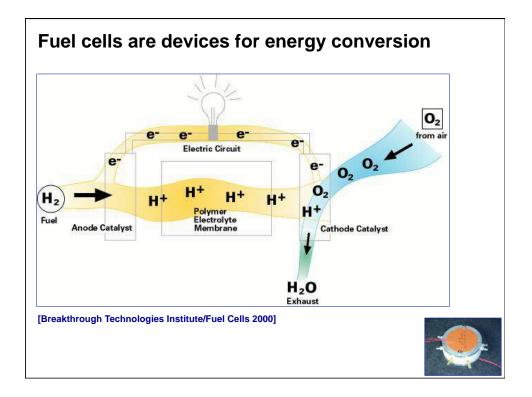


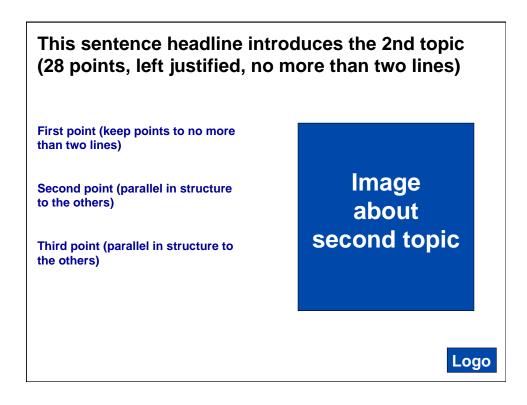


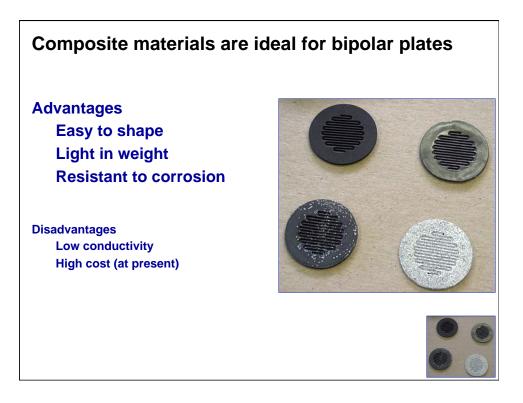


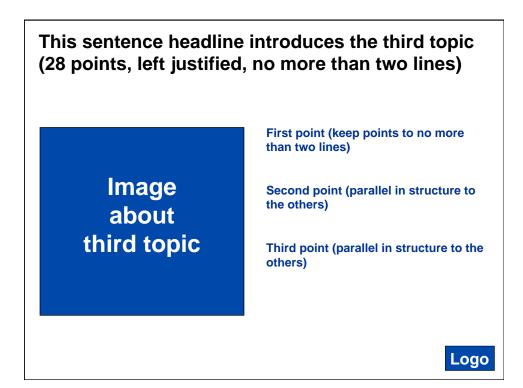


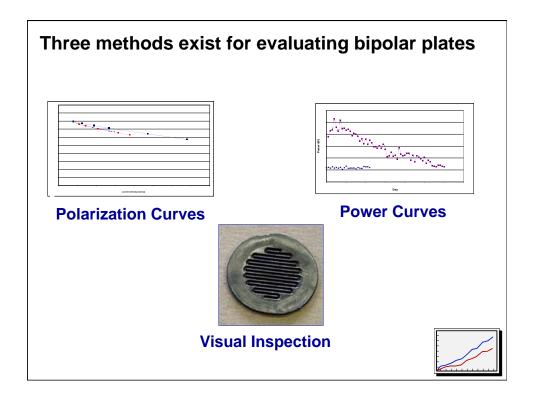


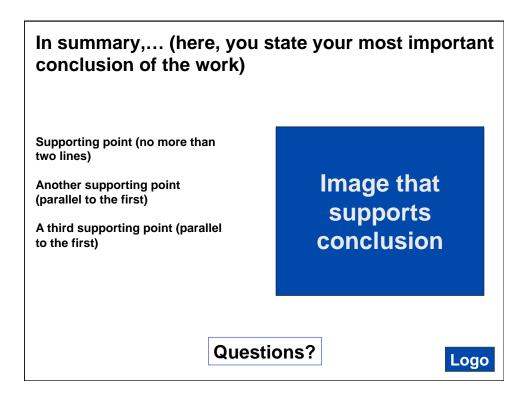


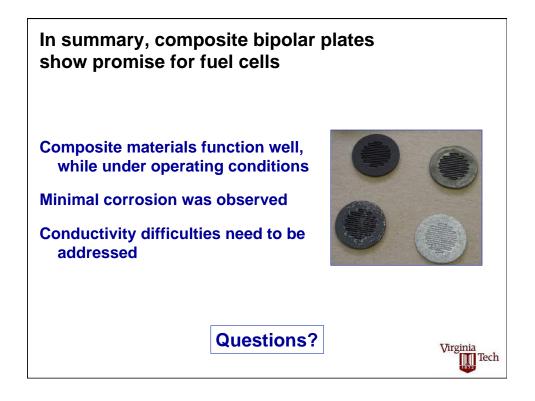


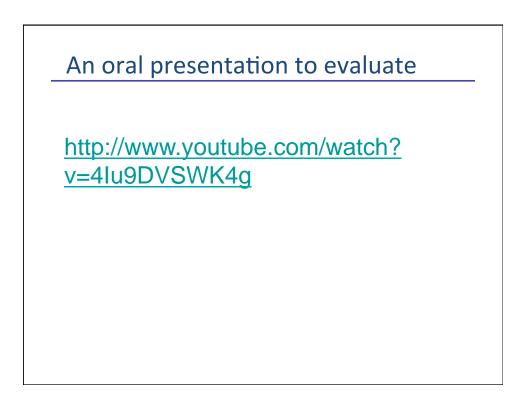












Oral presentation evaluation criteria

Communication—Presenter exhibits proper:

eye contact voice gestures stance respect for viewers use of time

<u>Content—Presenter exhibits</u>: knowledge of subject concise explanation/summary of content effective answers to questions

