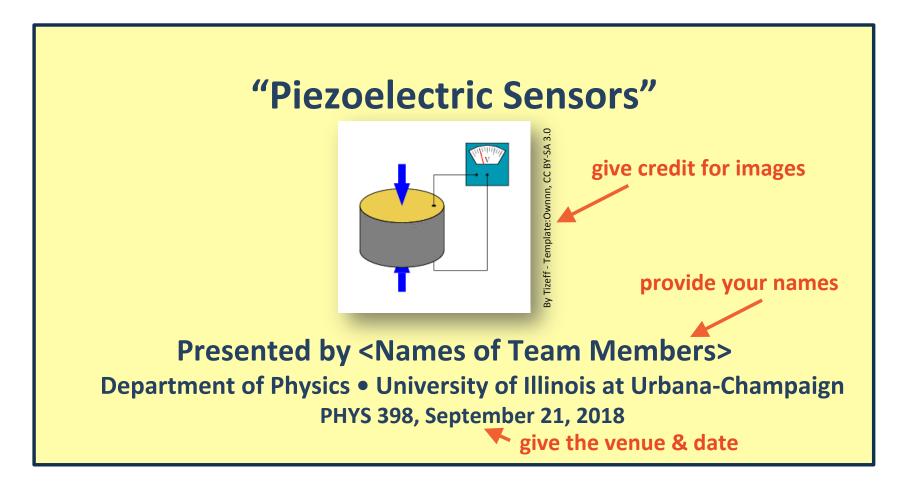
### **How to Present a Physics Talk**



Celia M. Elliott
Department of Physics
University of Illinois at Urbana-Champaign



### Start with a "title" slide



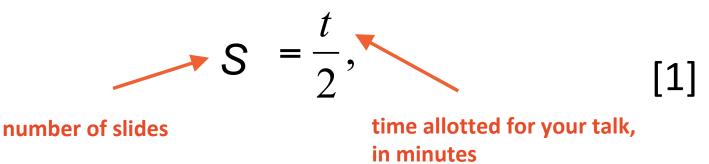
The title slide cues the audience "Get ready to listen" Include an interesting graphic to grab their attention

## Your PHYS 398DLP talk should address the following points:

- Identify the device
- Explain what it does
- Specify what information it will provide
- Describe how you will use this information
- Explain the underlying physics (principle of operation) of the device
- Discuss any problems you might have in deploying it and how you will mitigate them
- Summarize everything in your final slide

TIP: Use this paradigm to organize your presentation

## How many slides should you prepare? (refer to the Elliott equation)



A good "rule of thumb" is to allow about 2 minutes per slide

Allow more time for equations, complex plots, complicated figures, tabular data

### Allow at least 2 min\* per slide

#### Do the math:

15 min total – 3 min for Q&A = 12 min for "talk"

6 slides – title slide – summary slide = 4 slides

\*Tip: You cannot show 44 slides in a 15min presentation, no matter how fast you talk

### How do you divide up your four slides?

- 1. Identify the device and explain what it does
- 2. Specify what information it provides and how you will use the information
- 3. Explain the physics
- 4. Discuss anticipated problems and how you will mitigate them

# The last slide should be a summary that recaps the main points of your talk

#### To recap...

Piezoelectric sensors will be used to measure pressure



Insensitive to EM fields and radiation

$$C_x = d_{xy} F y_b / a$$

Will have to mitigate for vibration

Celia M. Elliott cmelliot@illinois.edu

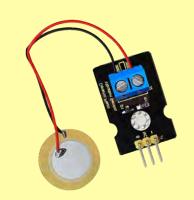
### Don't use a pointless last slide



## The last slide will get the longest audience exposure—make it count!\*

#### To recap...

Piezoelectric sensors will be used to measure pressure



Insensitive to EM fields and radiation

$$C_x = d_{xy} F y_b / a$$

Will have to mitigate for vibration

Celia M. Elliott cmelliot@illinois.edu

\*Reiterate your important points and stimulate audience questions

Calibri
Helvetica
Arial

one

Tahoma
Corbel
Verdana

### Use a simple sans serif font

Serif fonts don't project as well, because the narrow parts tend to fade away

Eschew wird fonts

Use one main font co

contrasting font

Use one most, one emphasis

Use mixe er and lower case for text—WRITING M ALL CAPS LOOKS LIKE YOU'RE

**SHOUTING** (and it's much harder to read—and proofread!)

## Choose a neutral background and a high-contrast color for the text

Use a light-colored background with dark text

Use a dark background with light text

This isn't high-enough contrast

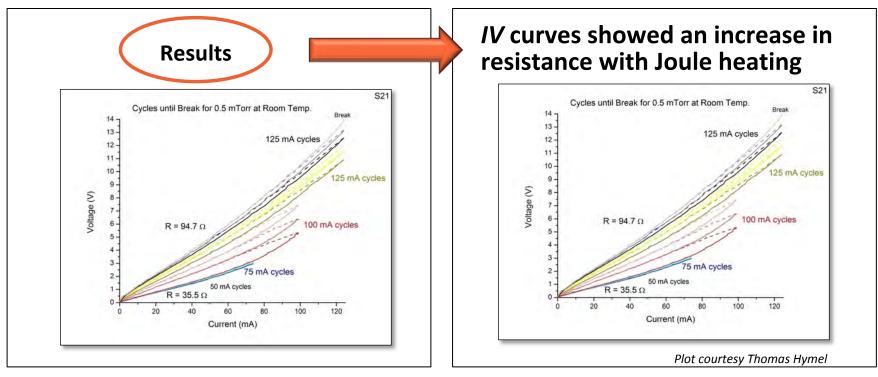
Neither is this

Don't ever put red on blue

Or blue on red

And avoid using gradient fills, too

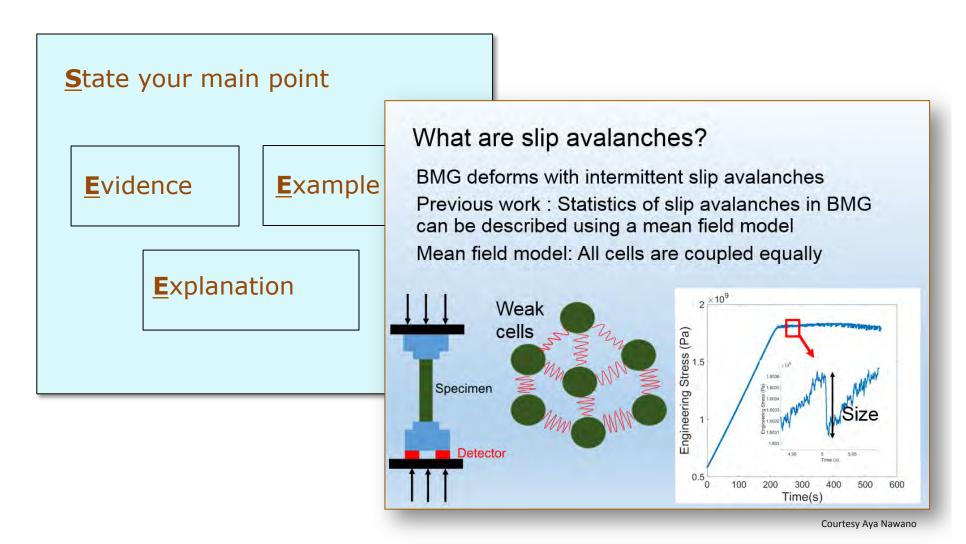
## <u>DO</u> replace the content-less PPT "title" with a meaningful motivating statement



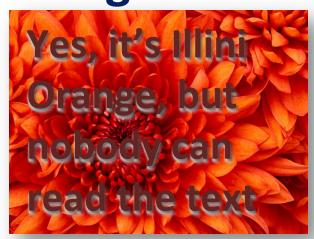
Tip 1: Write the statement as a sentence and left-justify it

Tip 2: Turn off the "auto-correct" feature in PPT that reduces the font size if you exceed the number of characters MS thinks you should have on a line

## <u>DO</u> use the SEEE method to present your ideas effectively



## Don't use photographic or "fill" backgrounds

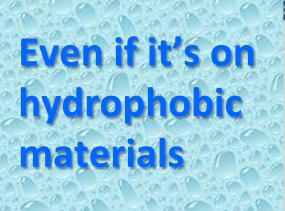


They're distracting

They make your text too hard to read

They get boring after the first





Even if you think it looks really cool

Just don't do it!

### Don't use one of the PPT templates

They take up too much real estate with meaningless graphics

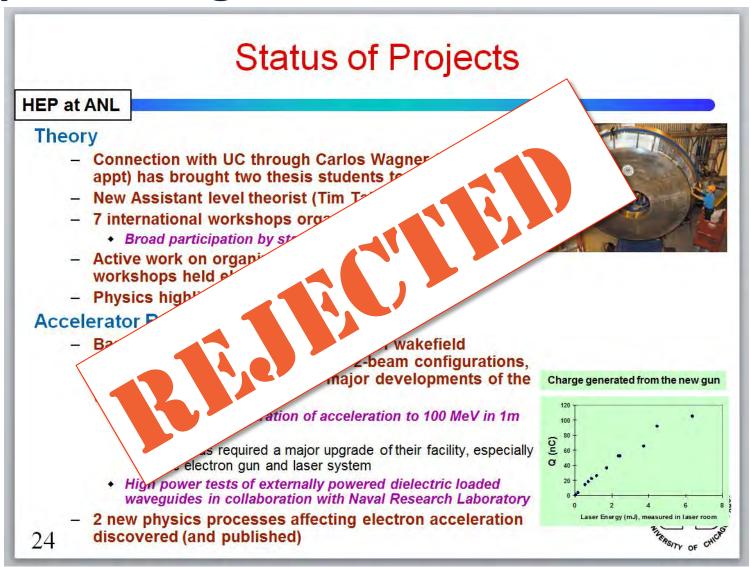
They force you to devote 25% of the slide to the "title"

They trivialize your message by promoting style over substance

Many are just butt-ugly



# Turn off the unless you're presenting an actual list



### Presenting your talk...

KNOW your material (best way to overcome stage fright)

Rehearse!

Say the words out loud

**Practice your timing** 

Okay to write out words ahead of time, but practice until you can speak naturally

Look at the audience—don't turn around and read off the screen

Point out features using a laser pointer, not your finger

### To recap...

Six slides—title, four "content" slides, summary

Recap your talk on your summary slide to remind the audience of your main points and stimulate questions

Keep it simple—neutral background, high-contrast text, sans serif font

Use a motivating statement at the top of each slide and turn off the bullets

Rehearse—out loud, in real time—until you can say your part naturally and effortlessly while maintaining eye contact with the audience