

Why scientific posters?

"Criticism and testing are of the essence of our work. This means that science is a fundamentally social activity, which implies that it depends on good communication."

-Hermann Bondi<sup>1</sup>

<sup>1</sup>Quoted by Robert A. Day in How to Write & Publish a Scientific Paper. The Oryx Press (1998) p. ix.

It is all about the importance of scientific communication!

# Why give scientific posters?

- To learn how to organize and effectively present research data
- To convey findings in scientific research
- To share and exchange ideas with colleagues
- To serve as an alternative to longer oral presentations

# Steps to a Poster Presentation

- 1. Conduct Research
- 2. Write & Revise Abstract
- 3. Review Abstract (by Mentor)
- 4. Submit Abstract
- **5.** Prepare Presentation
- 6. Present Research

# Steps to a Poster Presentation RESEARCH

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# Steps to a Poster Presentation

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ABSTRACT

## **ABSTRACTS**

Many presentation venues require presenters to submit abstracts as part of the registration process.

**TYPICAL LENGTH**: 300 words or less **SUGGESTED CONTENT**:

Abstracts may differ by discipline but typically includes:

- □ Background
- Research question/problem
- Approach and experiments
- □ Conclusion

Abstract Requirements & Templates http://surf.umbc.edu/presenters/abstract-requirements/

## **ABSTRACT TEMPLATE**

TITLE OF THE STUDENT PRESENTATION

PresentedFireName Presented astName\* (Other contributing authors such as graduate students
MentorFireName Mentod LasName\*

Department of NNX, InstitutionName1, StreetAddress, City, State ZIPCODE

"Department of NNX, InstitutionName2, StreetAddress, City, State ZIPCODE

The document is an abstract templose for the Armal CNMS Semmer Undergraduate Research For at CNMC. All of the specific formular requirements for abstracts are provided near the control of the CNMC. All of the specific formular requirements for abstracts are provided on all flowr risks and use 12-point Times. New Roman front. The preserving andres's name (underst) should be underlied. The preserving undergraduate under should be the first author and the research mention should be the first author and the research mention should be the miss and the research mention should be the first author and the research mention should be the state of the should be considered and the research mention should be first and the research mention of the research mention o

supercipit numbers.

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All abstracts must be reviewed and approved by the student's research menter or by an individual authorized by the menter or beyon and approved the planta. Mentions must confirm a coverage of the control of the contr

Notes:

Out-sheet posters are required to be no wider that 36 inches and no longer that 42 inches to ensure that two posters can fit side-by-soide on a campus poster display unit. Multiple postel posters are acceptable and should take up no more space than a 36" wide and 42" long poster

Flease include the great or other support information for your undergraduate research on a separate line at the ord your advant, a [propertian. It has acknowl objectors the food also bespecially as the properties of the properties of the properties of the properties of the word executions for the abstract. If you have any questions about the advantaglogment, places clocks with the coordinator of effection of the program that is a specialety, sour II you are not affiliated with a program, please ask your research mentor what acknowledgement information needed.

If you have any questions, send them to SURF@umbc.eds

**Title, Authors & Affiliations** 

### **Body of the Abstract:**

background, research question, approach and experiments, and conclusion

### **Acknowledgment Statement:**

specifically recognize funding support of the research project. Program coordinators, directors and/or research mentors can provide this information

Abstract Requirements & Templates http://surf.umbc.edu/presenters/abstract-requirements/

### SURF ABSTRACT FORMATTING

# ALL ABSTRACTS SUBMITTED BY THE DEADLINE WILL APPEAR IN THE 20<sup>th</sup> ANNUAL SURF ABSTRACT BOOK

- File Type: Abstracts must be generated in MS Word (.doc or .docx).
- **File Name:** Please title the abstract file as follows, the presenters entire last name, followed by the first initial of their first name plus the word *Abstract*. Example: "SmithJAbstract.doc"
- Page Format: 8.5" x 11" page with 1-inch margins and 12-point Times New Roman font.
- Page Limit: One page for complete abstract.
- Title: The abstract title should be in all CAPITAL letters.
- Authors: The presenting author's name (student) should be underlined.
   The presenting undergraduate author should be first author and the research mentor should be the last author. Any coauthors should be included between the first and last authors. Affiliations should be included for all authors/coauthors and noted using superscript numbers.

## **ABSTRACT FORMATTING**

- Affiliations: Provide the affiliation for each author. Use superscript numbers to identify which author is associated with the listed affiliations. An author may have more than one affiliation. The format for affiliations should be as follows: Department of XXX, Presenter, Institution Name, Street Address, City, State (abbreviation) ZIPCODE. Example: Department of Biological Sciences, UMBC, 1000 Hilltop Circle, Baltimore, MD 21250
- Body of Abstract: Maximum word count is 300. (Title, authors, affiliations and acknowledgment statement are not included in word limit).
   Paragraphs must be indented using a tab.
- Acknowledgment Statement: This should specifically recognize funding support of the research project. Program coordinators, directors and/or research mentors can provide this information.

Abstract Requirements & Templates http://surf.umbc.edu/presenters/abstract-requirements/

## **ABSTRACT SUBMISSION**

- All abstracts must be reviewed and approved by each student's research mentor or by an individual authorized by the mentor to review and approve the abstract.
- The mentors must confirm in writing that have reviewed and approved the abstract with the understanding that the abstract will appear in an event program book and may be posted online.
- Program officials must review and submit the abstracts of students in their programs prior to submission
- DEADLINE FOR ONLINE ABSTRACT SUBMISSION 5:00 p.m. EDST Wednesday, July 25, 2018

Abstract Requirements & Templates http://surf.umbc.edu/presenters/abstract-requirements/

## ABSTRACTS TAKE TIME....



- Plan to submit your abstract to your research mentor so there is sufficient time to edit the abstract.
- Talk about this now so that you know what deadline to use for your mentor's review of your work to ensure you meet the July 25th SURF abstract submission deadline for 2018.

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# To create an effective poster – keep the following traits in mind:

- Adopt a viewer-friendly style with large (not small) typeface & informative subheadings
- Provide small offerings of information vs. long paragraphs of text
- Maintain a logical and orderly progression of presentation of information
- Incorporate summary statement(s) of key aspects
- Use easily understood language with no jargon or undefined acronyms

## **ELEMENTS OF A POSTER**

- Title
- Author & Affiliations
- Introduction
- Background
- Statement of the research problem
- Formula(s) it is best to use figures when possible
- Data/Results and Analysis
- Conclusions
- References
- Acknowledgments



Poster Requirements & Templates http://surf.umbc.edu/presenters/poster-template/

# TITLE: think big

#### Title

Author & Affiliations

Introduction

Background

Statement of the research problem

Formula(s) - it is best to use figures when possible

Data/Results and Analysis

Conclusions

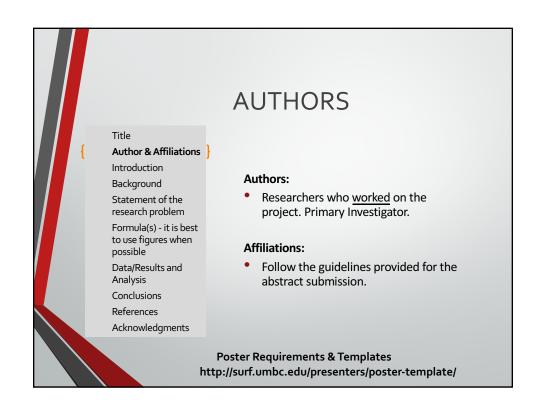
References

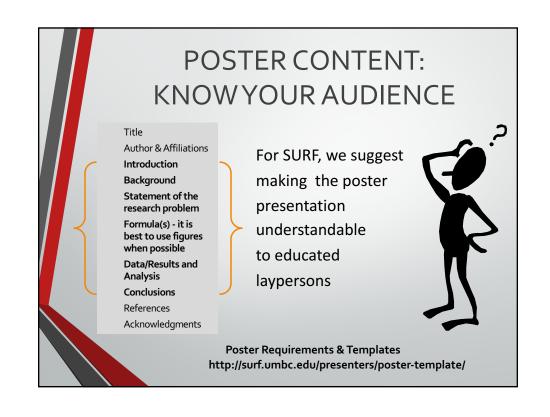
Acknowledgments

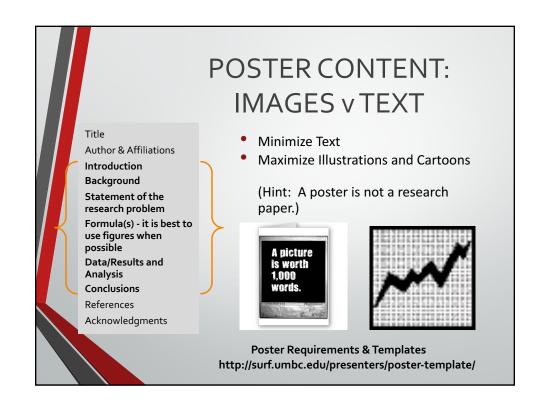
# The Title of a Poster is the First Thing a Visitor Sees

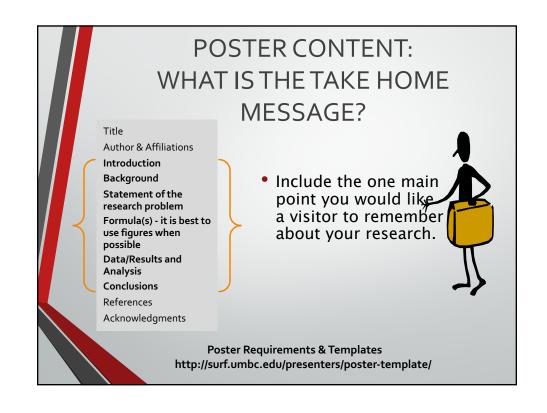
The goal is to be professional and attract visitors to your poster.

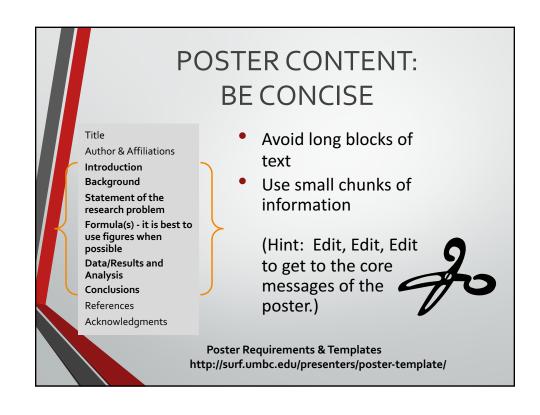
Can you read the title from 15-20 feet away?

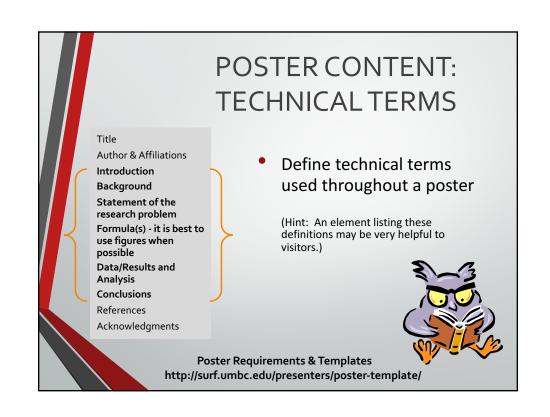


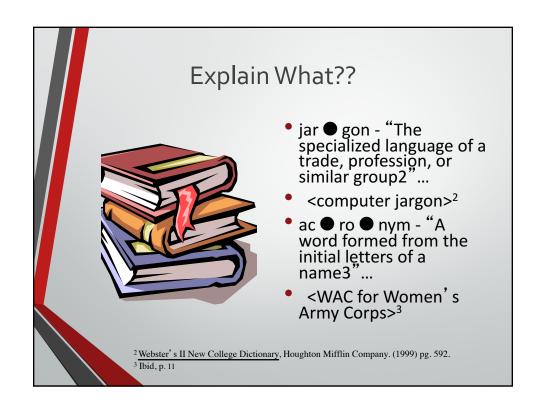












## **POSTER CONTENT:** SUMMARY OF YOUR RESEARCH Author & Affiliations Include a summary of the poster's Introduction most important points Background Statement of the research

Title

problem

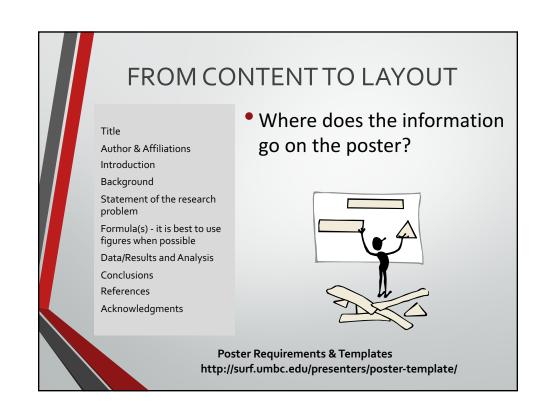
Conclusions References Acknowledgments

Formula(s) - it is best to use figures when possible Data/Results and Analysis

 Use bullets and/or boldface to emphasize important information







## What is the best format?

Various formats can be used successfully

There is no single *ideal* format for poster presentations

#### **PROGRAM OPTIONS**

Microsoft PowerPoint® LaTeX, can be helpful in creating a professional display

#### SIZE REQUIREMENTS

Each event has different requirements.

#### **SURF**

Maximum Size: 36"W x 42"L (high)
Formats: one-sheet posters or multiple-panel posters
TEMPLATES available online surf.umbc.edu

Poster Requirements & Templates http://surf.umbc.edu/presenters/poster-template/

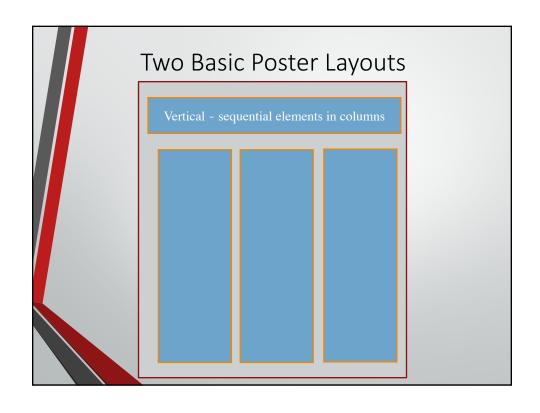


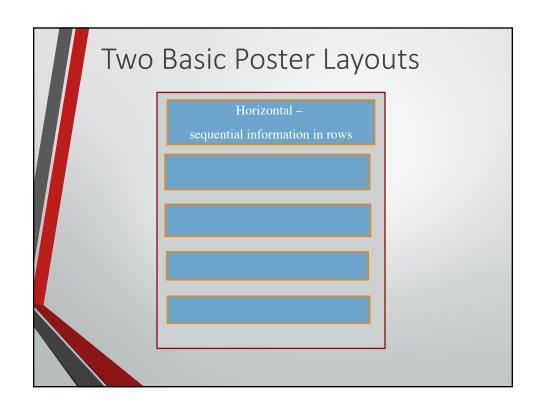
## **POSTER LAYOUT**

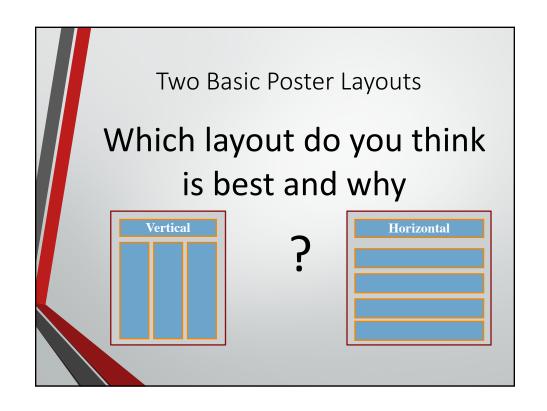
 Begin by using the size allotted for each poster presentation at the event

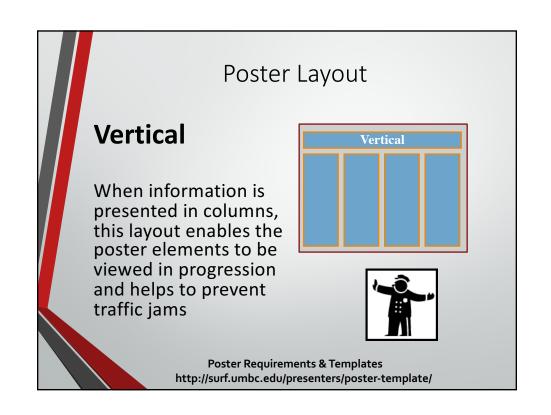
2018 SURF requested size is **36" wide by 42" high** (or 92 cm wide x 107 cm long)

- Plan the layout of the elements
- It is not necessary to fill all of the space do not clutter your poster









# Poster Layout

When the layout is visualized, you may want to sketch it on a piece of paper to use as a helpful reminder when creating the poster



Poster Requirements & Templates http://surf.umbc.edu/presenters/poster-template/

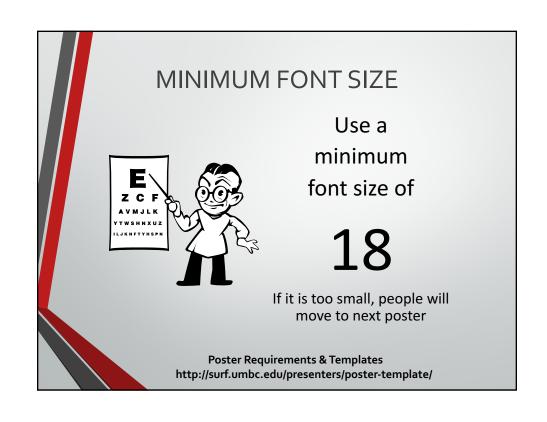
## **FONTS and COLORS**

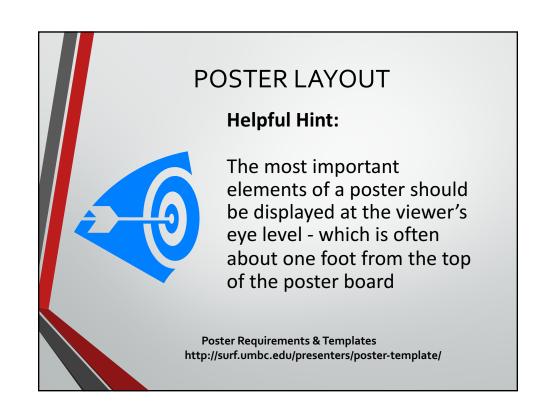
- TITLES: 90 pt for long titles; 100 pt for short titles Typical Affiliation line: 65-70 pt
- TEXT: 24-36 pt
- TEXT COLORS: Use normal, dark colors. No light colors.
- BACKGROUND: Avoid dark background colors - they waste ink, take much longer to print and dry,

# Title **Affiliation**

Dark text on light background

Light text on dark background





### **POSTER TYPE**

The maximum poster size for SURF is 36-inches wide by 42-inches high

### MULTI-PANEL POSTER

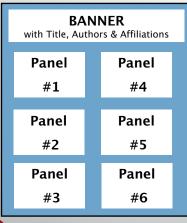
- Multiple components on
   8.5" x 11" sheets use any color printer
- Banner can be professionally printed early! save as a .pdf file (template available)

# SINGLE PANEL POSTER

Traditional Format

Saved as a .pdf File that is professionally printed

# Poster Tips



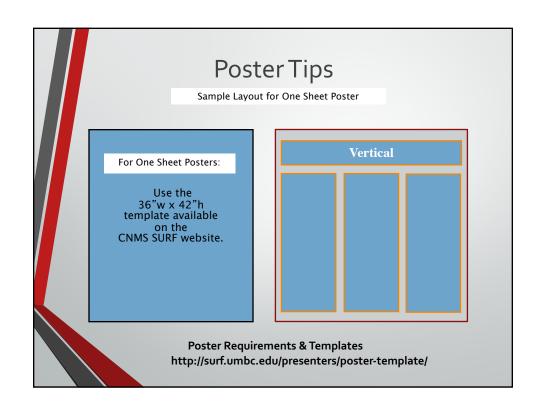
For Multiple Panel Posters:

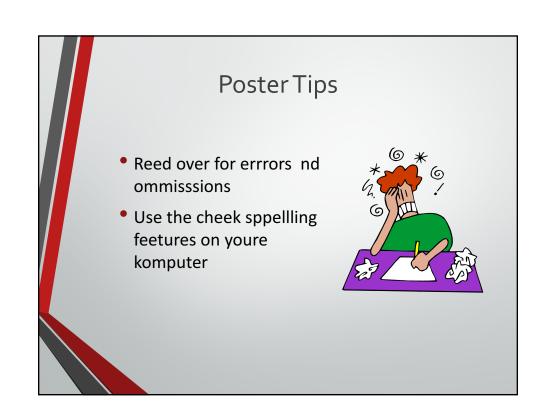
Mount each element on a piece of colored cardboard. Some presenters use page protectors, which guard against moisture and allow for quick revisions.

Consider having a 36" banner printed with your title information for your presentation. (Template online)

(Hint: Some presenters number the backs of the mounted elements in sequential order)

Note: The blue background in the diagram depicts the poster display board, where the panels are displayed





### POSTER PRINTING

# Poster printing takes time and money ... get it right the first time

Mr. Tim Ford, CNMS Research Graphics, is able to accept requests for printing posters but there is a cost. All requests must be submitted in PDF format to <a href="mailto:tford1@umbc.edu">tford1@umbc.edu</a> by 9:00 am August 2:

File Type: PDF format files

File Name: Include the poster presenter's name (e.g., SmithAJPoster.pdf)

### More Questions? Call Mr. Tim Ford at x5-2257 for help.

CNMS Research Graphics reserves the right to edit poster size and color

Remember: Dark colors for text and Light colors for background!

#### THERE IS A CHARGE FOR POSTER PRINTING

Important: If another resource is used for poster printing, please allow adequate time to ensure the poster is printed and picked up by Tuesday, August 7, 2018, in preparation for the Summer Undergraduate Research Fest on August 8, 2018.

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# Presenting the Poster

- Practice giving your poster
- Prepare a 10-30 second introduction to your research to engage visitors
- Explain why your research project matters, especially to the general population
- Offer a quick tour of one-to-two minutes to anyone showing interest
- Point to relevant poster elements during the quick tour
- Close with your "take-home" message in a 30-second summary

## Getting Ready to Present

- Dress in business attire (no jeans or beach clothing)
- Avoid chewing gum it detracts from your presentation
- Plan to stand beside your poster during your entire scheduled session – don't block the view of your work
- Welcome all visitors
- Relax and enjoy the opportunity to share your research project

# Optional Things to Consider for Future Poster Presentations....

- Offering "business cards" to interested visitors
- Providing copies of the poster as handouts (only with permission from your mentor!)
- Listing an email address with the title/author information



What to Expect at the 20<sup>th</sup> Annual Summer Undergraduate Research Fest (SURF)

Wednesday, August 8, 2018

University Center Ballroom – 3<sup>rd</sup> Floor

# What to Expect at SURF

### 8:30 AM - Poster set-up and Presenter Check-in begins

All posters must posted by 8:50 a.m.

#### 9:00 to 10:30 AM - Introductions and Oral Presentations

### 10:30 AM to 12:00 PM - Poster Presentations

Poster Session 1 – 10:30 a.m. – 11:15 a.m. Poster Session 2 – 11:15 a.m. – 12:00 p.m.

### 12:00 to 12:30 PM - Mentor Recognition and Closing

We ask that **all** research group pictures be taken after the closing.











## Important Notes

Participants will use the SURF website to register for the Summer Undergraduate Research Fest at UMBC

Abstracts must be mentor reviewed and approved before the submission deadline of 5:00 p.m., Wednesday, July 25, 2018.

The deadline for submission of posters for printing by CNMS Research Graphics (Mr. Tim Ford) is 9:00 a.m. on Thursday, August 2, 2018.

Research Mentors, UMBC faculty, and guests are asked to use the website to register their planned attendance and <u>any need</u> for special accommodations as soon as possible and no later than Thursday, August 2, 2018

http://surf.umbc.edu/registration/

## To Review....

Annual UMBC Summer Undergraduate Research Fest (SURF)

Date: Wednesday, August 8, 2018

Location: 3<sup>rd</sup> Floor of University Center, Ballroom

Website: surf.umbc.edu

Poster assignments will be posted on the SURF website closer to the event.

## After SURF ...

- Remember to ask and receive permission in advance from your mentor for any and all future presentations of your summer research. This is critical!
- Build your curriculum vitae or resume by working with your mentor to create a notation to add about your conference participation that lists the presentation authors, date, formal title of presentation, and formal name of meeting with the location.

### Example:

Sutphin, K., add any other research names, & Mentor, U.R. (2018, August). *Preparing an Effective Scientific Poster*. Poster session presentation at the Summer Undergraduate Research Fest at UMBC, Baltimore, MD.

For more information, visit: <a href="https://gsehd.gwu.edu/content/how-conferences-are-displayed-your-resume-or-cv">https://gsehd.gwu.edu/content/how-conferences-are-displayed-your-resume-or-cv</a>

## Finishing up...



- Seek advice from your research mentor and members of your research group as your poster reflects their work
- Practice giving your poster presentation to colleagues
- Remember to smile!

## Thank you for your attention!

Special thanks to Zoe Warwick, Ph.D. and Stephen Miller, Ph.D. for the assistance provided to prior versions of this presentation.

© Presentation created by Kathy Lee Sutphin - updated July 12, 2018