





What is Research Day at the Capitol?

- Annual event, sponsored by:
 - Oklahoma State Regents for Higher Education
 - The National Science Foundation (NSF)
 - Oklahoma Established Program to Stimulate Competitive Research (OK NSF EPSCoR)
- To celebrate the excellent undergraduate student research being conducted on Oklahoma's college and university campuses
- ❖ A chance to inform Legislators and the public about undergraduate student research





2019 Research Day at the Capitol YOUR STIPEND FUNDING

You can expect delivery of your \$250 stipend check within approximately 3-4 weeks. Contact me if you haven't received it by Jan. 7, so my office can put a trace on the check.

- Funds are to cover your travel to/from OKC and for costs related to your poster printing & display (easel, board, etc.).
- Your check must be mailed to your <u>permanent address</u> (as indicated on your nomination form) per State guidelines.
- Checks will be issued from "OKLAHOMA STATE UNIVERSITY," NOT "EPSCoR."



 OSU students' checks will be processed through the OSU Bursar's Office.



2019 Research Day at the Capitol Two Days of ACTIVITIES - MARCH 25 & 26

March 25 (Hyatt Place Hotel)

Formal judging: Poster & oral presentations

March 26 (State Capitol Building)

- Posters presented, 4th Fl. Capitol Rotunda
- Awards ceremony, 2nd Fl. Capitol Rotunda

Students must participate in all activities to retain the \$250 stipend and qualify for prizes.

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2019 Research Day at the Capitol

CASH PRIZES: FOR THE TOP 7 PRESENTERS

The following prizes will be awarded:

Grand Prize: \$500 cash prize + \$4,000 summer research internship

\$2,500 award to the sponsoring college/university lab

to offset expenses of hosting the internship

1st, 2nd and 3rd Place Prizes will be awarded in each of two

categories: Regional/community colleges (3 awards/1 st, 2nd, 3rd)

Research-intensive campuses (3 awards/1^{st,} 2nd, 3rd)

1st Place: \$500 cash prize (1 ea: regional & research-intensive)
2nd Place: \$250 cash prize (1 ea: regional & research-intensive)
3rd Place: \$250 cash prize (1 ea: regional & research-intensive)





MONDAY, MARCH 25: HOW YOU ARE JUDGED

- · Panel of 4 judges
- WELL educated, but not necessarily experts in your field of study

You will be judged on the following:

- 1. Poster
- 2. Abstract
- 3. 3-min. oral presentation before judging panel
- 4. Oral responses to judges' follow-up questions





2019 Research Day at the Capitol

MONDAY, MARCH 25: HOW YOU ARE JUDGED

The following judging criteria are used, with a 1-10 point scale for each item:

- Abstract
 - Format, clarity, societal impact, objective of study, results, conclusions.
- Scientific presentation
 - Purpose, hypothesis, background information, results, impact, further study expected
- Student's ability to explain the project
- · Visual appearance
- Clarity for general audiences
- · Societal impact statement
- Overall





ABSTRACT: REVISION DEADLINE FEBRUARY 4, 8 A.M.

Judges will score your abstract as part of your cumulative score. If you wish to alter or edit the abstract that was originally submitted, you must submit your final, revised abstract in MS Word format prior to February 4th at 8 a.m.

- MS Word format, no PDFs accepted (template provided)
- · Maximum 350 words
- If images are used they will detract from the available word count; image files must be submitted separately (not only embedded in the document).
- · Avoid excessive scientific jargon, but don't oversimplify
- · Must be the work of the student
- · See the provided sample judging sheet for scoring criteria
- · Be sure you receive a confirmation of receipt from me





9:00 a.m - 4:00 p.m. Poster & Oral Presentation Judging

- · Individual timeslots will be provided in advance
- · Arrive at designated time
- · Bring your poster with you, mounted on a firm board
- · Check in at the EPSCoR table
- · Poster number will be provided at check-in
- Place the number in the top/right corner of your poster
 Leave the number on your poster throughout the event/both days
- Wait outside the judging room for your turn to present
- Students will enter the judging room one-at-a-time
- Take your poster in with you (Demonstration materials are okay if they are small and safe)
- IMPORTANT!! An easel will be provided in the judging room. However, <u>YOU</u> must bring <u>your own easel</u> to the Capitol the following day.





POSTER AND ORAL PRESENTATION JUDGING

Oral Presentation: 3 minutes (timed)

• Walk in- SMILE, introduce yourself, be confident, and take them through what you have done - using your poster as a guide.

Poster Review + Q & A by Judges: 5 minutes maximum (timed)

- Anything on your poster is eligible for questioning so BE FAMILIAR with all components.
- Questions are usually to re-affirm or clarify something about your presentation.
- Kinds of questions Procedural, social impacts, future aspirations.
- The entire 5 minutes may not necessarily be used.
- After Q&A: Exit the room with your poster (& demonstration materials if you brought them)
- Leave the number on your poster for Tuesday
- You are free for the rest of the day





2019 Research Day at the Capitol

PRESENTATION PREP & SUGGESTIONS

- · The best way to improve your presentation skills is to present.
- Record yourself presenting and play back your recording to notice and fix your mistakes.
- Practice presenting to a friend who doesn't have a science background and listen to their feedback on your presentation.
- Practice presenting in an empty room using the volume you plan to speak at and hand gestures (pointing to figures/text on poster).
- Maintain natural eye contact with your audience in order to keep them engaged.
- Emphasize the importance of your societal impact. Explain why your scientific findings are important.
- What if you're asked a questions that you don't know the answer to?

 Do NOT make up an answer—it's better to say you don't know.





ADDITIONAL PRESENTATION SUGGESTIONS

Special suggestions from past participants:

- Don't underestimate the difficulty of synthesizing your project into a mini 3-minute presentation.
 - ➤ Time yourself over and over again to make sure you can present your material in the 3-minute timeframe.
- Also practice how you will talk to any Capitol guests who may not have experience in your area or who are non-scientists (this will be different than your more technical/judged presentation).
- Know ahead of time what you want to share with your Legislators.





2019 Research Day at the Capitol

SUGGESTIONS FROM THE JUDGES

- · Review sample judging criteria sheet
- Review your abstract and make sure it's accurate; use the space that you have been allotted & revise if necessary
- · Talk loud and project your voice
- Pay close attention to societal impact and research objective
- Answer, "What have you accomplished with your research?"
- · Statistics are good—provide proof of outcomes





SUGGESTIONS FROM THE JUDGES

Focus on what you contributed in regards to the research.
 Don't claim to have done it all if that's not the case.
 Toot your horn if it's applicable!

"With assistance I...."

"In collaboration with my faculty mentor I....."

"I explored _____ with the grad assistant on the project."

"I independently performed....."

- Avoid jargon in oral presentations; clarity for general audiences should be considered
- Societal impact statement should be included on the poster and also in the oral presentation





2019 Research Day at the Capitol

HOTEL ACCOMMODATIONS (REQUEST DEADLINE FEB. 4)

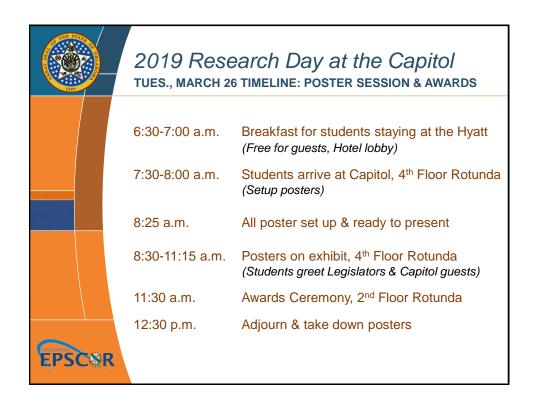
EPSCoR will provide lodging on the evening of Monday, March 25 for student participants who live outside the OKC metro area and who have requested lodging prior to the February 4th deadline.

- Conference hotel: Hyatt Place Hotel
 The EPSCoR office will book the room for you and pay the hotel directly for the room charge.
- Hotel will require a credit/debit card from students at check-in to cover any incurred incidental charges.
- A guest may stay in the room with you at no additional charge.
- Email me no later than Feb. 4 to secure a room; a signup sheet is available today (indicate one bed or two in the room).
- · Confirmation numbers will be issued to you in February.
- If a room is booked on your behalf and is not used, you/your institution will be responsible for the charges.













2019 Research Day at the Capitol Tues., MARCH 26 ARRIVAL INFORMATION

- Give yourself plenty of time—it's hard to navigate around the Capitol streets & parking lots in the dark
- · Park in an approved visitor parking area
- Go through security (no knives, etc.) & take elevator to the 4th floor
- Your program book, survey form, and a contact sheet will be on your table.
- Wear your name badge from the previous day.
- Everyone must be set up and ready to go by 8:30 a.m.
- Survey forms/contact sheets should be turned in to the EPSCoR table prior to the awards ceremony (~11 am).





2019 Research Day at the Capitol MARCH 26 CAPITOL POSTER SESSION

A six-foot table covered with a white, floor-length tablecloth will be provided for you.

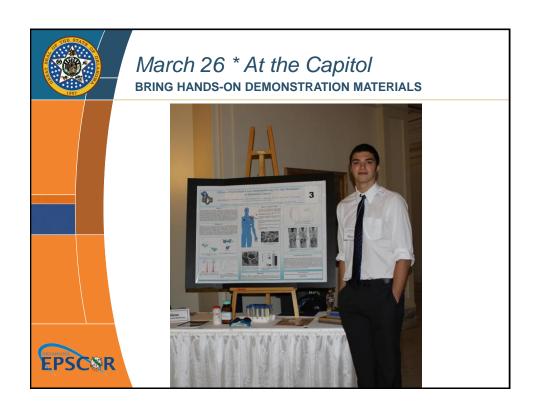
You are required to bring:

- Photo ID
 (May be requested by security at the Capitol entrance)
- Your poster
- · Firm board backing for your poster
- Easel
- Tacks, Velcro or other attachment materials
- Your poster number that was provided the previous day

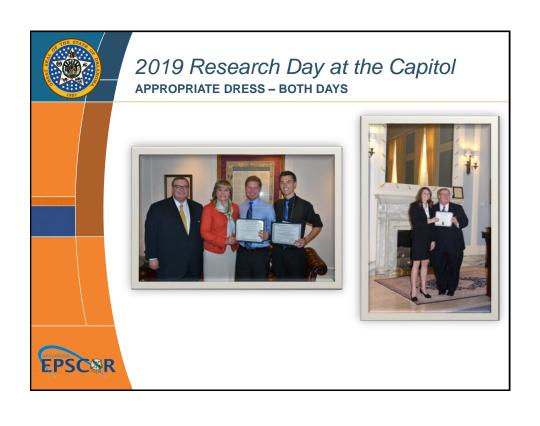
You are highly encouraged to:

Bring hands-on demonstration materials













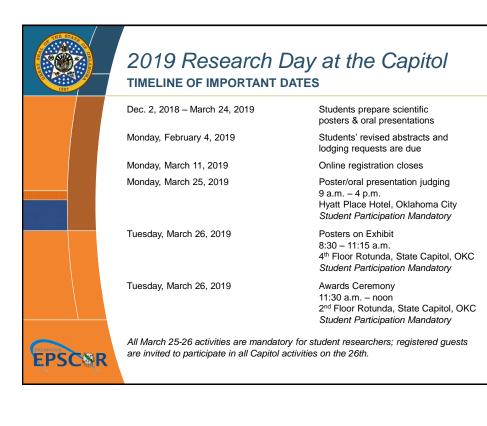


March 26 * At the Capitol THE LEGISLATORS

- Identify your home and school Representatives and Senators (may be different) www.oklegislature.gov
- Remember: Use layman's terms & outline how your research affects and/or benefits his/her constituents!
- Not everyone will receive a citation, but we make a recommendation and provide details to encourage it.
- · Grab a photographer.



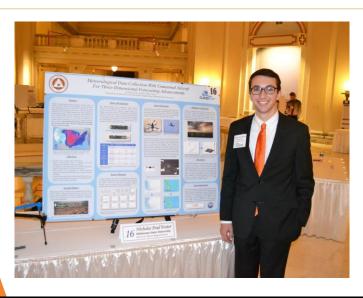








2019 RESEARCH DAY AT THE CAPITOL Poster Prep: A Quick Reference Guide





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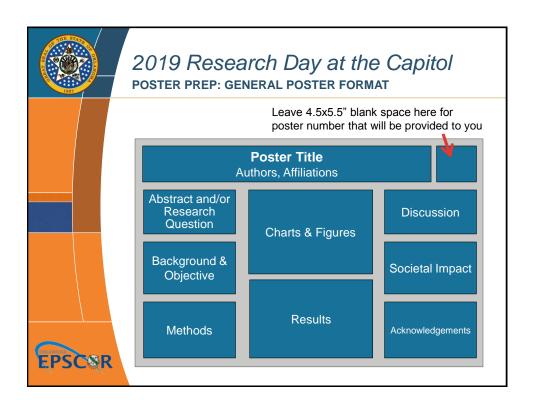


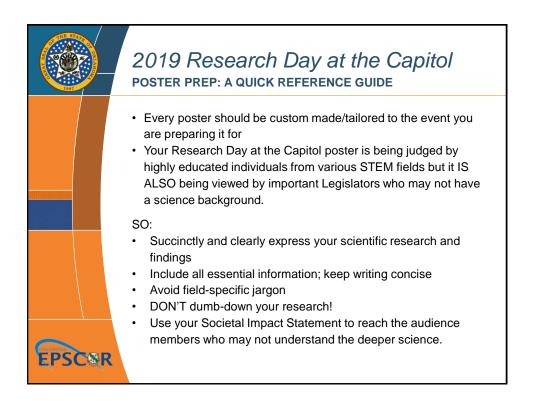
- . Before you start
 - Check with your print shop regarding size and color constraints that may apply
 - Average size 48"x36"
 - Set the page size (in your (program) to match the final print size
 - Ask your mentor for advice regarding where to print your poster

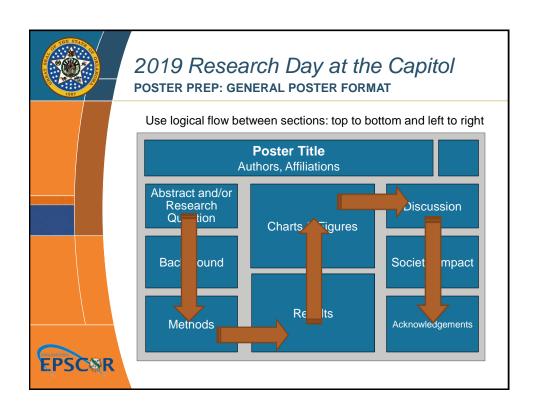


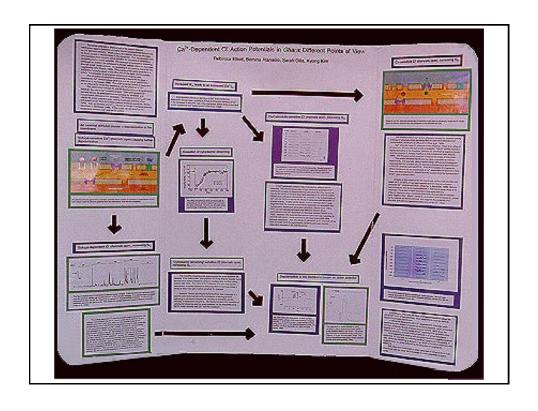
➤ Your poster for this event may deviate slightly from the standard/traditional 48"x36" poster dimensions

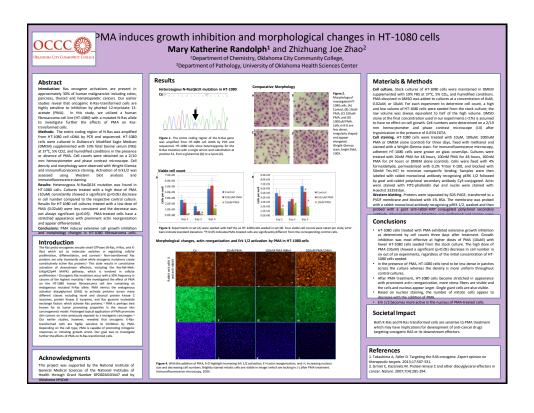


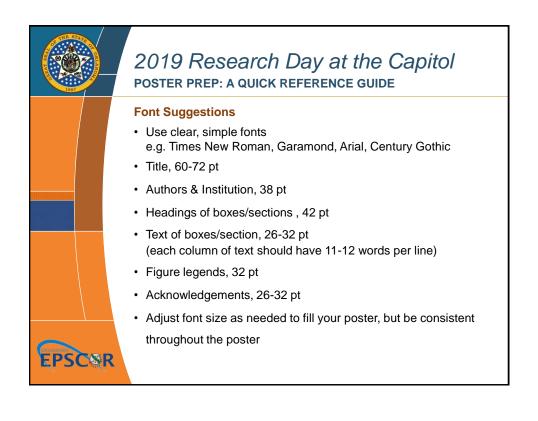


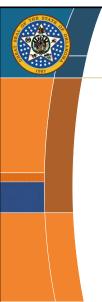










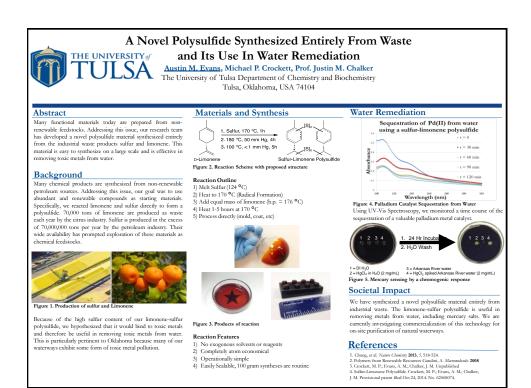


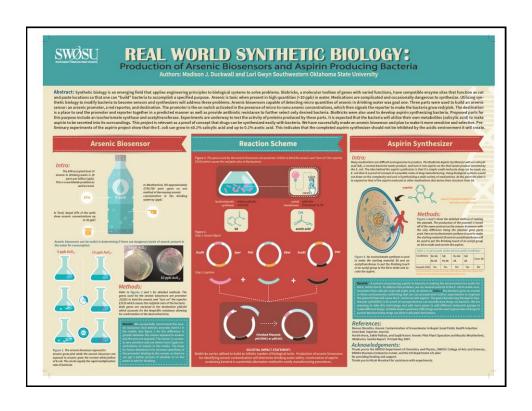
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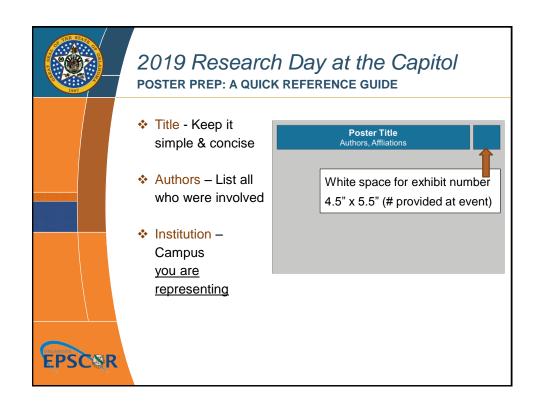
2019 Research Day at the Capitol POSTER PREP: A QUICK REFERENCE GUIDE

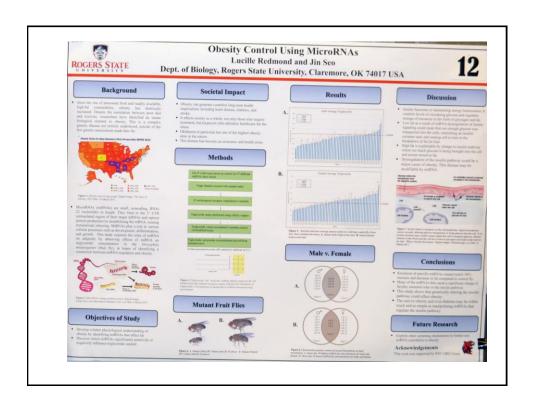
Graphics & Photos

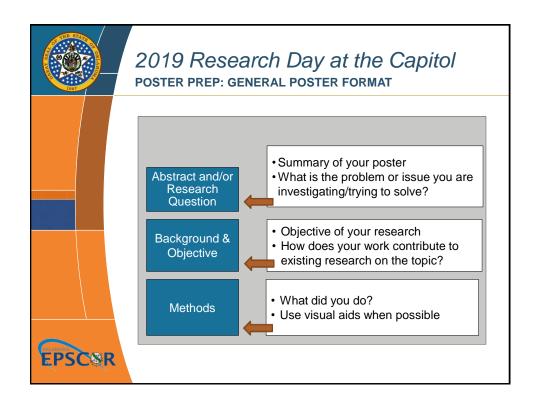
- Use visual aids to tell your story (images, charts, diagrams, timelines)
- · Minimal text to supplement the graphics
- Use titles, legends, consistent color (X and Y-axes should be labeled!)
- · Be concise in your wording
- · Text and graphics should be legible from three feet away
- Careful use of color (2-3 colors maximum)
- · Photos must be min. 300 ppi
- · Credit photos when appropriate

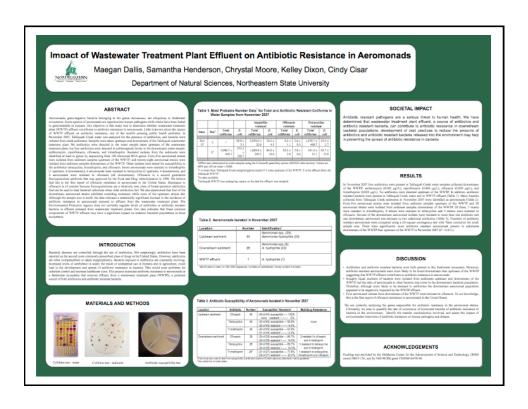


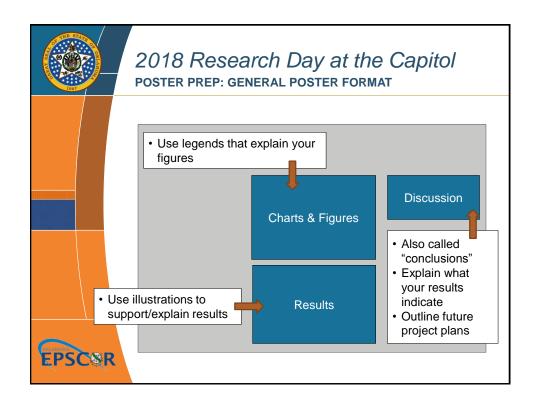


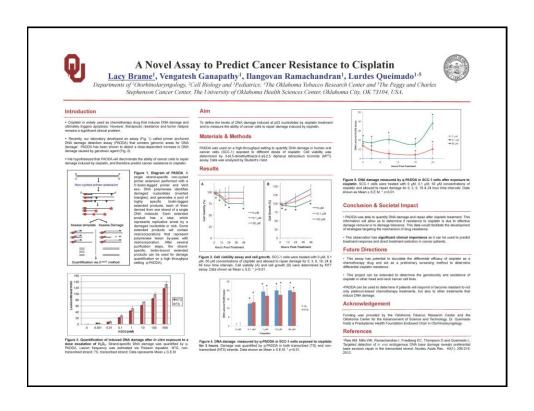


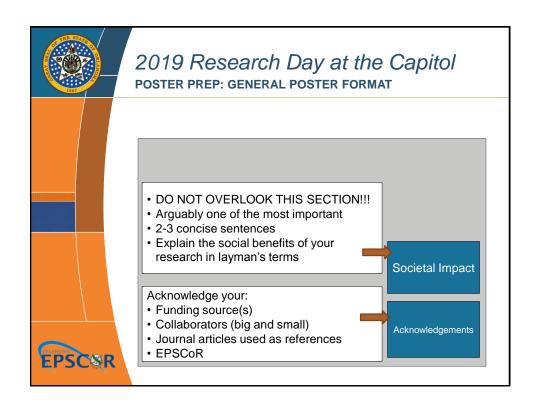


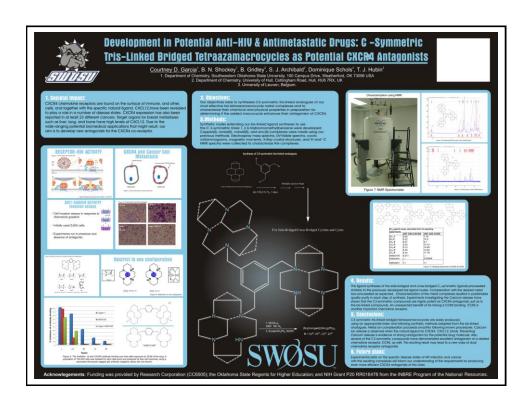












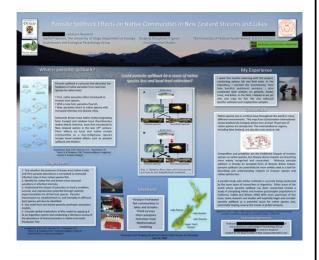
Poster Examples: "Do's" and "Don'ts"

Strengths:

- · Logical order
- Various visual aid types
- · Acknowledgements

Weaknesses:

- Sections & images not aligned
- Distracting backgroundToo many visual
- Too many visual components



Credit: University of Texas at Austin, https://ugs.utexas.edu/our/poster/samples



An example of why you should NOT use a photo or graphic as your poster background.

Text is impossible to read and potential observers would be too distracted by the image to sort through the information anyway.

Poster Examples: "Do's" and "Don'ts"

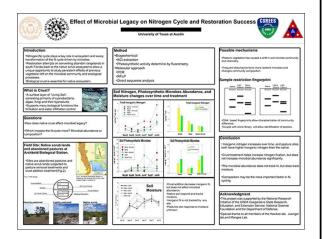
Strengths:

- Clearly defined research questions
- Effective use of visual aids
- Clear organizational structure
- · Bullets break up text

Weaknesses:

- Technical language & undefined acronyms (limits audience)
- Narrow margins within text boxes
- Too many thick borders around boxes
- · Uses incorrect logo for the institution

Credit: University of Texas at Austin, https://ugs.utexas.edu/our/poster/samples



Poster Examples: "Do's" and "Don'ts"

Strengths:

- · Venn diagram in discussion
- · Consistent graphics
- Multiple types of visual aids

Weaknesses:

- Light text on dark background
- Color backgrounds should be avoided, especially dark ones
- Unlabeled, non-credited photos



Credit: University of Texas at Austin, https://ugs.utexas.edu/our/poster/samples

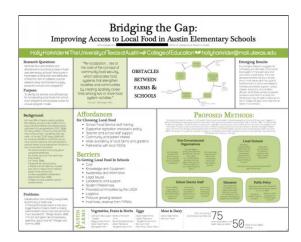
Poster Examples: "Do's" and "Don'ts"

Strengths:

- · Easy to read
- Clearly defined research question
- · Use of white space
- · Simple color scheme
- Use of shapes, figures, bullets to break up text
- Compelling title (and title font size)
- · Clean visual impression

Weaknesses:

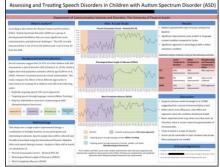
- Many sections without a clear flow between them
- · Lacks acknowledgements



Poster Examples:

Before

re After





Credit: University of Texas at Austin, https://ugs.utexas.edu/our/poster/templates

An Online Poster Prep Resource https://ugs.utexas.edu/our/poster

The University of Texas at Austin's online <u>Poster Guide</u> is a great resource, providing thorough and easy-to-understand scientific poster design tips and instruction.

- Guide to Creating Research Posters
- · Poster Samples: What to do and what not to do
- Poster Content Development
- Organizing Poster Content
- Poster Design Elements and Guidelines
- Review Your Poster
- · Printing Your Poster
- Presenting Your Poster
- Talking About Your Poster





2019 Research Day at the Capitol ONLINE REGISTRATION REQUIRED (BY MARCH 11)

All student researchers & anyone who will be attending Research Day at the Capitol activities in support of the student researcher must register online at:

http://www.okepscor.org/2019-research-day-capitol-participant-sign-form-guests-faculty-mentors-student-researchers

- Please advise parents, friends, family, faculty advisors, etc. to register online (or you may register online for them)
- Why? This event is funded through a grant from the National Science Foundation. NSF requires participant information to continue funding for the event.
- · Registration deadline: March 11



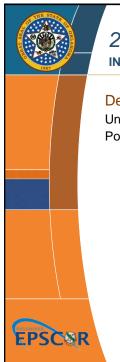


2019 Research Day at the Capitol FINAL THOUGHTS—THINGS TO REMEMBER

You were chosen for a reason!

- Be ready and mentally prepared—practice!
- Emphasize your societal impact
- · Dress professionally and be punctual
- Know your Legislators and engage them
- Judges are looking for someone who has the whole package!





2019 Research Day at the Capitol INSIGHT FROM A PAST WINNER

Devin Laurence, Grand Prize Winner 2018

University of Oklahoma

Poster Topic: Cardiovascular Biomechanics



2019 Research Day at the Capitol INSIGHT FROM A JUDGE

Sherry Marshall

President & CEO, Science Museum Oklahoma

Educational background: Physics, with additional emphasis in Chemistry, Applied Behavioral Science in Education, and Curriculum and Instruction



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