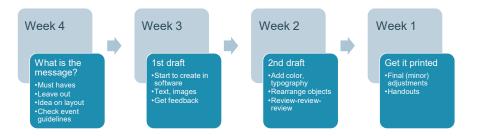


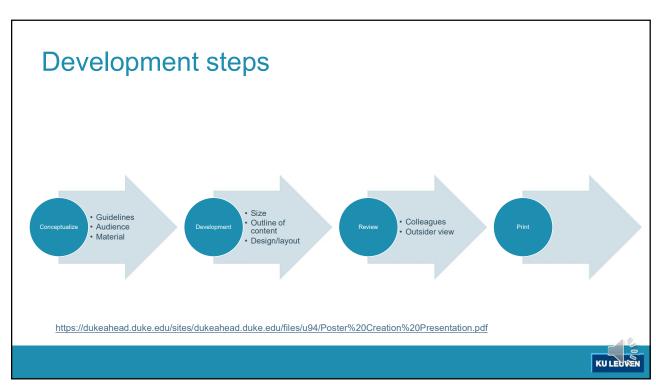
Planning Logistics KU LEUVEN

Scientific poster: planning (ideal world)

- · Provide enough time!
 - Do not postpone until the last minute
 - o Murphy will be there...
 - https://www.socialsciencespace.com/2018/05/4-steps-to-designing-an-award-winning-poster/







Scientific poster: planning

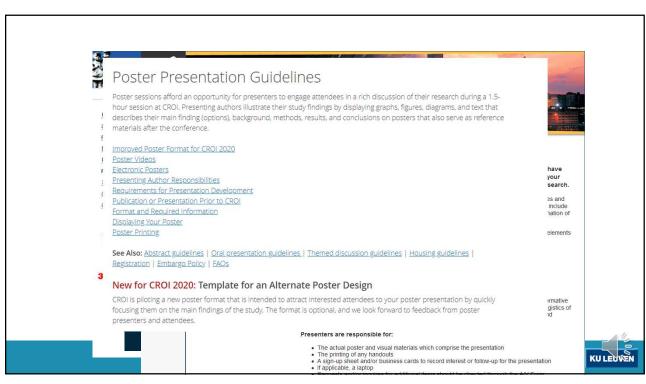
READ THE INSTRUCTIONS

- Dimensions
 - · 1 large poster
 - · individual A4 pages, ...
- Specification: dimension images, portrait/landscape, font, numbering poster, ...
- Additional requirements? Tape, pushpin, ...
- Contact the print shop if you have special requirements (not every print shop can print all formats!)



- Check Judging criteria / rubric
- Try to get as much information on the poster session as possible





Planning

Audience / Content



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Basics of communication

- Know your:
 - Subject
 - Audience
 - Medium (poster)
- Common errors
 - Unsuitable for the target audience
 - Key message obstructed by too much information
 - Excessive text
 - Poor design
 - (http://theta.edu.au/program/posters/designing-academic-posters-an-online-resource-to-develop-communication-skills-of-doctoral-candidates/)



Scientific poster: content

- Make a storyboard
 - What is the message that I want the audience to remember? What should readers know once they have finished reading the poster?
 - What is the logical order to bring the message? Work backwards to determine what information is needed to get to that point.
- The design and production of scientific posters can be split into 2 processes:
 - the creation of content: text, images, plots, graphs and data tables;
 - know your audience
 - · the design process
 - ► help your audience



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Scientific poster: content

- Audience?
 - Who is my audience?
 - · Colleague competitor
 - · Colleagues from the same domain
 - · Colleagues outside domain
 - What does the audience know about my research?
 - What does the audience want to know about my research
- You and your audience
 - Capture their attention
 - Inform your audience
 - Why does your work matter?



Scientific poster: content

- Interaction with your audience
 - What do you want to happen?
 - Get collaboration
 - · Get into discussion
 - · Leave me alone



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Scientific poster: content

- Start from scratch
 - Do not make a summary of a paper
 - · Do not start from an existing presentation / slideshow
- Make a clear choice on the essentials :
 - What problem(s) are tackled?
 - Why is this important?
 - How did I do it?
 - What are the results?
 - What is the conclusion(s), implication(s)?

(Objectives)

(Background)

(Methods)

(Results)

(Conclusion)



Planning

Layout



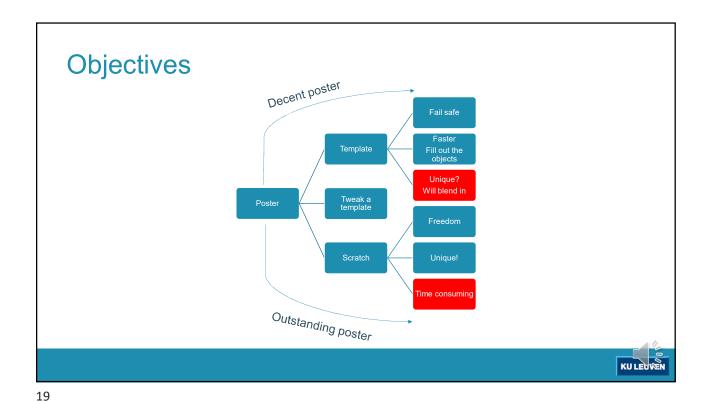


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My posters always look terrible--I'm just not creative!

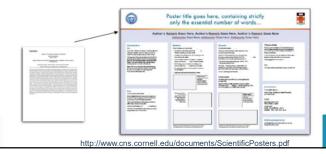
- Many scientists claim they're not "artsy" enough to make a good poster.
- But it is still an academic poster.
 - You're there to present your science, not your creativity.
 - If the goal is simply to not look terrible, there are some simple layout guidelines you can follow to accomplish that.
- https://www.kmeverson.org/academic-poster-design.html





Poster layout

- Start designing when you are satisfied with the content!
 - NO single simple recipe to create a poster.
 - Check as many samples as possible
 - · Let your design fit the content
- Poster = illustrated abstract





Visual writing

- · Structure with blocks
 - Text blocks
 - Graphics
 - Balance
- Guide the eye
- Emphasize what is most important: what should the audience see first?
- Let your topic inspire you
- Use color intentionally

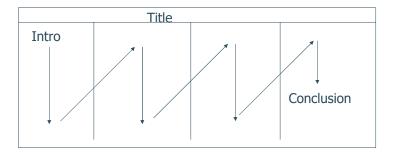
http://blogs.monm.edu/writingatmc/files/2013/03/Research-Poster-Design-Tips.pdf



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Guide the eye

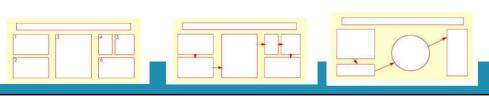
- Read a poster as a newspaper
- Use columns, try to place the important points at eye level





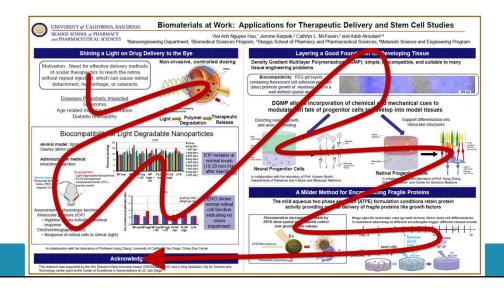
Guide the eye

- Use 3 to 5 columns (landscape)
 1 tot 3 columns (portrait)
- Order the elements vertically from upper left to lower right
- Order the object logically
- Use sections
- Add graphics, tables, images
- Number sections or use visuals to guide the reader



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Guide the eye

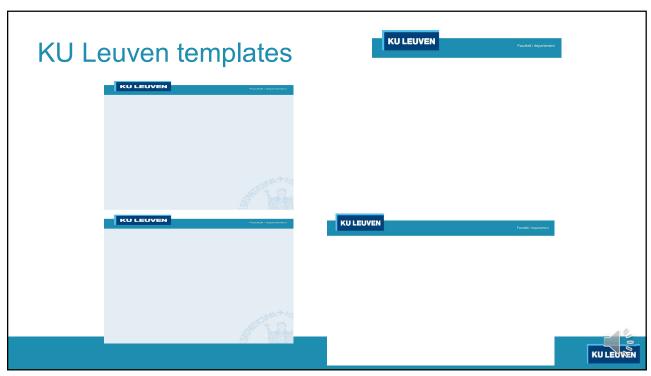




Poster layout: template or inspiration?

- Some organizations have their own template
- Department can have a template
- Dienst communicatie
- https://www.kuleuven.be/communicatie/marketing/templates/kuleuven_postersjabloon.html
 - · Standard template
 - · Scientific posters
 - · no white borders allowed!
- Web:
 - Search for: powerpoint template scientific (academic) poster
 - Other people will use the same template...





Standard format for a research poster Logo Title of the Research Study PEOPLE WHO DID THE STUDY CHARGINGS ALOGO ROWATELS THE MEDICAL STUDY WHO STUDY AND ALOGO ROWAT

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Poster 2.0

New and improved?



Poster 2.0

- Mike Morrison (@mikemorrison Michigan State University)
- https://youtu.be/1RwJbhkCA58
- standard poster format
 - overly technical and usually obscures the main finding(s) of the science being presented.
 - the time required to parse the information on a poster is too long (to really engage with 3-6 posters in an hour, severely limiting the dissemination of potentially useful knowledge through the scientific community.
- alternative poster design
 - a large, central, simple takeaway message that summarizes the point of the poster in accessible language;
 - a "standalone" bar on the left with a very basic introduction, methods, and discussion;
 - an "ammo" bar on the right with anything that the presenter might want to have handy when talking about their poster.



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Poster 1.0 vs Poster 2.0







https://www.insidehighered.com/news/2019/06/24/theres-movement-better-scientific-posters-are-they-really-better



Poster 1.5

- https://www3.beacon-center.org/blog/2019/09/01/the-evolution-of-academic-posters-from-poster-1-0-to-better-poster-2-0-to-hybrid-poster-1-5/
- hard to distil the main takeaway message, especially on preliminary and incomplete results.
- hard to distill an introduction, methods, results, and discussion into less than a quarter of the poster space.
- Poster 1.5
 - maintains the large, simple, prominent takeaway message and slightly abbreviated text,
 - but has significantly more text than 2.0
 - lacks the ammo bar.



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Poster 1.5

- More usage of Poster 1.5
- https://www.posterpresentations.com/free-poster-templates.html
- Check also http://betterposters.blogspot.com/2019/04/critique-morrison-billboard-poster.html

 We Don't Have to Pick a Side: The Middle Is A



Poster 1.5

- https://derekcrowe.net/butterposter
- Highlights
 - A well-crafted message is more important than any layout design.
 - Posters are performances and audience members should have a voice in their experience.
 - Visual design principles can help make poster sessions more effective.
 - All academic disciplines can help us approach our world with curiosity.
- https://www.forbes.com/sites/evaamsen/2019/06/18/a-graphic-design-revolution-for-scientific-conference-posters/#736ff3ac297c



Visual and UX design principles can improve the effectiveness of Morrison's Better Poster and poster presentations

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ePoster

- · Large flat screen monitors in a dedicated ePoster display area
 - Can be co-located with traditional poster displays.
- · Can present information that may not be possible to convey with a traditional printed poster.
 - · enhance visualization to attract interest of attendees
 - use of videos
 - embedded media.
- A static screen will also be available where users can navigate through ePosters at their leisure.
 - rotate automatically and each will be shown for approximately one minute duration at a time.
 - able to navigate to specific posters from a main menu and pause individual posters to view them in more detail and access embedded content.
- https://betterposters.blogspot.com/2016/06/what-is-eposter-format.html



Planning

Review



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Review, review: content

Critique from colleagues / outsiders

- Is the poster audience friendly? Is the poster suited for the audience?
- Is title short and powerful, a reflection of the research?
- Do the objectives correspond with the content of the poster?
- Are the methods used well explained, understandable? Do they correspond with the conclusions/ objectives?
- Are the conclusions strong enough?
- Is the language used clear, free of any jargon?

www.postgraduate.uwa.edu.au





Review, review: format

- Are the dimensions / shape correct?
- Is it readable from a distance (2-5 meter)?
- Is the layout ok, not too messy, consistent?
- · Typos? Spell check!
- · Other errors?







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Judging Criteria for Poster Presentation

- First Impression:
 - How difficult is it to read the poster?
 - How are color schemes used, are they easy on the eye?
 - How crowded is the poster?
 - Is there a good flow of information (logical, layout of information)?
 - Does the poster stimulate interest and discussion?
- Lavout:
 - Is the poster visually jumbled?
 - How easy is it to follow the sequence in the poster?
- Readability:
 - Is font size or style easily readable?
 - How much text does the poster contain?
 - Are there many grammar or spelling mistakes?
- Title:
 - How specific/adequate/long/short is the title?
- Identification:
 - Can the author(s) be easily identified?
 - Is contact information available (i.e., Department/ University)

- Aims/ Objectives
 - Are they clearly stated?
- Methods:
 - How detailed, appropriate, original are the methods and is there enough explanation?
- Results:
 - How clear and well labelled are graphs and figures?
 - How complex are graphs?
 - How well are the results presented?
- Conclusions:
 - Are any conclusions presented and if so do they reflect the aims and are they supported by the data?
 - Is there a memorable "take-home" message?
- Scientific content:
 - Was the research put into broader context/justification for research?
 - Was the content suitable for experts and non-experts alike?
 - Was there sufficient scientific explanation?
- Student:
 - How much do the student's explanations demonstrate knowledge/ ownership/ enthusiasm for his/her work?

http://www.ncl.ac.uk/fms/postgrad/skills/documents/JudgingCriteria for Posters.documents/JudgingCriteria f



Judging Criteria for Poster Presentation

Judging Rubric for Presentation of Research

Page 1 of

Score	Goal, Hypothesis or Description	Methods	Results	Conclusions and Future Work	Presentation
5	Project had a goal or a logical hypothesis that was stated clearly and concisely or the creative endeavor was well described. Background information was relevant and summarized well. Connections to previous literature or works and broader issues were clear. Broad impact beyond project clearly stated.	Excellent choice of empirical methods to address hypothesis or goal of project or demonstrates original thinking or approach to restrict endeavor. Excellent original thinking regarding innovation of feelingies or choice of flow creative work will be presented. Clear discussion of counted or comparative groups, all appropriate controls or comparative groups were included.	 Substantial amounts of high quality data were presented anfficient to address hypothesis or goal of project or original, creative work was presented. Presentation of data was clear, thorough and logical or program notes were provided that provide imight into the creative process. 	Reasonable conclusions were given and strongly supported with evidence. Conclusion was connected to project pools or hoperheast and their inlevance in a wider content was discussed. Potential problems and alternative approaches were presented and discussed.	 All expected components are present, clearly organized, and dress is a logical flow to the presentation. Text is concision, free of spelling or typographic error; presentation is appropriate and inbelied contectly. Figures and tables are appropriate and inbelied contectly. Photographs tables/graphs improve understanding and enhance visual appeal.
4	A logical goal or hypothesis was presented or the creative endeavor was adequately described. Background information was relevant, but connections were not clear. Mention of Broad Impacts beyond the project.	Very good choice of empirical methods to address hypothesis or good or project of to address hypothesis or good or grain thinking or approach to creative endeavor. Very good original thinking. Clear discussion of controls or comparative groups; most controls or comparative groups; most controls or comparative groups were included.	Substantial amounts of good data were presented sufficient to address the hypothesis or goal of project or creative work was presented. Presentation of data was clear and logical or program notes were provided that provide some insight into the creative process.	Reasonable conclusions were given and supported with evidence. Conclusion was connected to hypothesis or project goals but their relevance was not discrussed. Potential problems and alternative approaches were presented but not discussed.	All components are present, but not organized well. Text is relatively clear, mostly free of spelling and typographical errors, presentation is appropriate. Most figures and tables are appropriate and labeled correctly. Photographic hables/graphs improve understanding.
3	A questionable hypothesis or project goal was presented or a description of the creative endeavor was incomplete or confusing. Background information was relevant, but connections were not made.	Good choice of empirical methods to address hypothesis or good of demonstrates good original thinking or approach to creative endeavor. Good original thinking. Adequate discussion of controls or comparative groups to	Adequate amounts of reasonably good data were presented to address hypothesis or project goals or the creative work seemed incomplete. Presentation of data was not entirely clear or program notes were not entirely clear and the creative process was unclear.	Reasonable conclusions were given. Conclusions were not compared to the hypothesis or project goal and their relevance was not discussed.	- Most expected components are present, but not organized well. - Text is relatively clear, but come spelling and typographical errors. - Figures and tables not always related to text, or are not appropriate, or poorly labeled. - Photographic bables' graphs immed and do not improve understanding.
2	A questionable hypothesis was presented and was not well supported or the goal of the project was not clear or the creative endeavor was not described sufficiently.	Method not appropriate to address happoteness og goal of project or demonstrates no original thinking or approach to creative endeavor. No original thinking. Controls or comparative groups not adequately described; some	Some data were lacking, not fully sufficient to address hypothesis or project goal or the creative work was imadequate. Presentation of data or program notes was included, but unclear or difficult to comprehend	Conclusions were given. Little connection to hypothesis or goal was apparent. Potential problems and alternative approaches were not presented.	Some expected components are present, or organization is confirming and disorderly. Text is hard to read due to front nize or color, some spelling and typographical errors. Figures and tables not related to text, or are not appropriate, or poorly labeled. Photographic habeled graphs limited and do not improve understanding.
1	The hypothesis or goal was inappropriate or not stated or the description of the creative endeavor was missing. Little or no background information was included.	Methods section missing. No original thinking. Serious lack of controls or discussion of controls.	Results are not yet available or reproducible or the creative work was incomplete. Presentation of data or program notes was missing.	Conclusions were missing. There was no connection with the hypothesis or project goal.	Some of the expected components are present, but poorly laid out and confusing Text hard to read, messy and contains multiple spelling and typographical errors. Visual aids not used.



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Judging Criteria for Presenter

Page 2 of

Judging Rubric for Presenter

Score	Knowledge of Project	Logical Presentation	Background Information	Presence
5	Answers difficult questions clearly and succinctly.	Presentation is consistently clear and logical. Comfortably uses visual aids to enhance presentation.	Demonstrates a very strong knowledge of the project and project background.	Speaks clearly, naturally and with enthusiasm; makes eye contact. Presenter was well prepared and professional.
4	Answers most questions.	Presentation is clear for the most part, but not consistently. Comfortably uses visual aids to enhance presentation.	Demonstrates a good knowledge of the project and project background.	Speaks clearly, naturally; makes eye contact. Presenter was prepared and professional.
3	Has some difficulty answering challenging questions.	Presentation is generally unclear and inconsistent. Uses some visual aids to enhance presentation.	Demonstrates some knowledge of the project and project background.	Reads from visual aid or script some of the time. Presenter was semi- prepared and professional.
2	Has difficulty answering challenging questions.	Presentation unclear and illogical. Does not use visual aid to enhance presentation effectively.	Demonstrates poor knowledge of the project.	Reads from visual aid or script most of the time. Presenter was not prepared or professional.
1	Does not understand questions.	Presentation very confusing. Does not use visual aids to enhance presentation effectively.	Does not demonstrate any knowledge of the project.	Reads from visual aid or script all of the time. Presenter was unprepared and unprofessional.

 $https://universitycollege.wsu.edu/units/undergraduateresearch/SURCA/docsart/Judging\%20Rubric\%20-\%20combined_2012\%20(3).pdf with the control of the control$



Summary

Pay attention to:

- Content
- Structure
- Visual impact
- Clarity

• https://www.slideshare.net/muir31/designing-a-poster-for-conference-display-oct11

