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**V4 Seminars for Young Scientists on Publishing Techniques
in the Field of Engineering Science**

Presenting your results at a
conference
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Literature


Table of contents:

- Aim of a scientific presentation;
- The format of a conference presentation.
- Structure of a presentation.
- Role of an Acknowledgement.
- Pro tips for giving an efficient presentation.
- Poster presentation.
- Evaluation at conferences.


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The AIM of the presentation


1. You should present why is the topic so important, what **motivates** the progress at the given scientific area.
2. You should present the **aimed goals**, the **starting point**, the **method**, the **given steps** of the methods -> the **arc** of the research.;
3. You should present the details of the gained **progress**!

The progress and the resulting advantages can be:

- Industrial, if you are working for the industry;
- Departmental, if you are working for the university;
- Personal, if you are preparing for a PhD for example;
- Project advantages, if you are disseminating project results!



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The AIM of the presentation

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4. You should present the **decisions**.

- gathered information from the literature research;
- The proof of optimal factor in the choices;
- If there was no optimal choice, present the decision and validity of the non-optimal solution.

5. You should present the **reproducibility** of the steps. The work should suggest that an other researcher or engineer can reproduce and can continue the work.

6. You should present exactly the **given materials, apparatus, methods**, and their most important **parameters**.

SUMMARY: The presentation should stand on its own for understandability.

Everything which is not directly necessary for understanding should be referred or omitted from the presentation.

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Overall arc of a scientific work:

- Introduction
- Literature survey
- Materials and methods, Experimental
- Results, discussion
- Conclusion, future plans

• Additional parts: Acknowledgement, Appendix, Nomenclature

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Presentation:

The main point of a PPT presentation is to show your work.

Two types of presentations are usual for a conference.

SOP: Short oral presentation:

- Before a poster presentation.
- Usually 2-3 minutes.
- Just presenting the overall arc of the work.
- No details, focusing on the general message.
- Invitation to the poster for deeper discussion.

Oral Presentation:


- 10-20 mins of presentation
- Have time for deep discussion on your topic
- Details, focusing on the arc of the work.
- Prepare for questions at the end of your talk.

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How to prepare the PPT? Outlook!



-The PPT is supporting your talk, not substituting the need of clear discussion.

-The format must not distract the listeners. You are the lead, you are in the limelight not your PPT.

-You must be able to speak through time even without the PPT! You can be considered „prepared”, if you could do this.

PRO HINT: try to practice the presentation without the PPT!

- Stick to Office format or PDF for maximum compatibility;
- In 2018 there should not be a problem with PPTX format.




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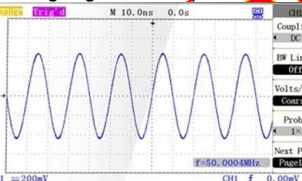
Aspects of giving an efficient PPT presentation



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Main aspects for giving an efficient presentation

- It is no extend
- You do
- Fancy I engine of a pl
- We can showing the des -> so focus on pictures, plots and figures with straightforward titles!
- At black backgrounds!



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CH1 F 0.00Hz

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General structure of a 15 minutes oral presentation:

- 1st slide: titles, name, forum (where you present your work), affiliations, date;
- 2nd slide: table of contents (not always necessary);
- 3-5 slide: background, literature (from general to detailed description);
- 6-9 slide: Experimental (setup, sample preparations, methods for evaluation, refinement steps of the materials and the methodology);
- 10-14 slides: Results (proper discussion on the gained results);
- 15 slides: Future Plans, Summary, Acknowledgement.

Try to finish with a sentence/thought which will keep the audience thinking.

Just a general ratio of page counts, not a rule of thumb.

Try to stick to as many slides as much minutes you have.



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General structure of a 3 minutes short oral presentation:

PRESENTATION OF A SOP PPT!

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Acknowledgement:

It is important to present, who was working with you, who helped you during the works.

Not only politeness: anyone who hears your presentation, can feel good with your acknowledgement of their work.

Who NOT to praise:

- your professor (who is included already in the authors list);
- your mom, dad, bro-sis, the granny's neighbor and your cat.

Who to praise:

- who did not worked so closely on your topic, but still helped you;
- financial supporters, sample/apparatus supporters.

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General structure of a 3 minutes short oral presentation:

- 1st slide: titles, name, forum (where you present your work), affiliations, date;
- 2nd slide: short summary of the motivation and the standing of the literature!
- 3rd slide: presenting the setup, the method and materials.
- 4th slide: Selected results, some words about future plans, acknowledgement and poster number.

Try to finish with a sentence/thought which will keep the audience thinking.
Try to invite the audience to the poster for further discussion.


Just a general ratio of page counts, not a rule of thumb.
Try to stick to as many slides as much minutes you have.

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Assorted tips and tricks for the oral presentations: **TIME!**


- Stick to the time! If the time is 15 or 20 minutes then talk for 15 or 20 minutes exactly. Not more - not less.
- For your first presentations, you must prepare for the time, improvisation will not help you, when you are on stage!
- Prepare for what is important and what is not. Try to sort the info in your head during practicing.
- An overshoot in the PPT slide count may result in an overshoot in time as well!
- The side notes and side stories may steal your time!




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FOCUS!




- Do not emphasize the problematic parts. They can send you into a dark deep labyrinth of confusion.
- Negative messages? Avoid them!
- Do not start to argue with the opponents, do not get mad with the situation.
- Focus on the audience. Do not sink into the PPT or turn your back to the audience.
- It can be unconvincing if you read out the whole PPT. Practice what you want to say beforehand!




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BE POSITIVE!



- Let the audience feel that you are eager about the topic. Be suggestive and convincing about what you do!
- Difficult task, do not feel for manager-style bullshitting!
- If you are prepared enough, there is no need to worry! It is your topic, probably you have the deepest knowledge about it.
- Do not leave obvious weak points. They will open a debate really quickly. (Dog bone effect.)
- Open your ears to others presentations! Good practice can be learned from others as well.

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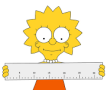
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FORMAT!

- I refer back to Oliver's presentation -> follow the clues!
- Do not put too much text on a slide.
- Do not put small fonts on figures.
- Axis, units, legends -> are a must for plots.
- Use the appropriate language of the forum!
- Do not emphasize ornaments and animations.
- Show the slide numbers to know how much time is left.
- Avoid overly detailed slides, tables, figures.



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The rapid development of modern information technology forebodes and facilitates a forthcoming revolution in education as well. The need for modern, interactive and computerized learning materials or even courses which could be delivered via the internet is increasing, which is clearly visible in the increasing number of e-learning materials being developed worldwide, in nearly every possible topic, including microelectronics. Our consortium aims to develop a cloud-based platform, to support the education in this field. Cloud computing could be a suitable way to easily share and distribute training materials and also provide a secure software platform which can be used in practical education in on-line courses performed anywhere. In our previous paper, the challenges and feasibility of putting together such a cloud platform were investigated. In this current work, we focus on the direct application of the system in courses related to microelectronics at our university. In the paper we will focus on the evaluation of the cloud-based open educational resources for teaching purposes in university courses. This will include a pilot study regarding the use of the cloud platform for remote access self-study, and also the evaluation of the feedback of the 50 participating students. Figures 1 and 2 show the distribution of their answers for two of the 14 questions in the questionnaire which was received after the training program.

Péter Marton, Attila Bonyár, Oliver Krammer, Attila Géczy, Zsolt Illyefalvi-Vitéz, and Slavka Tzanova, Evaluation of Cloud-based Open Educational Resources for Teaching Microelectronics, IEEE ISSE 2018 - proposed abstract.

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POSTER SESSION ON A CONFERENCE



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POSTER PRESENTATION

- After SOP people gather around your poster.
- Prepare for describing the whole poster for interested person and for the evaluators.
- Stick to similar guidelines, as at oral presentations.
- Prepare for interruptions, and discussion-type conversation.
- Present the **arc** of the work!!!
- Be precise, convincing and positive!
- No need to worry about the time.

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What are the points of evaluation at a conference?

- Actuality of the topic, logic of the given goals, scientific merit;
- The given topic and the experiment behind it;
- The applicability of the given results;
- The quality of decisions during the experimenting;
- The documentation quality and thoroughness of the given results; formal quality.
- The objectivity of the conclusions, the state of the preliminary goals;

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Summary

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Presentation techniques for your success!

- Prepare for the presentation according to the requirements: short oral, oral or poster presentations!
- Focus, be positive, and stick to a proper format!
- Always be on time and be convincing!

Try to think about a previous good presentation experience of yours, and also build upon these for future success!

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