



ISOTOPIC TOOLS AS NOVEL SENSORS OF EARTH SURFACE RESOURCES







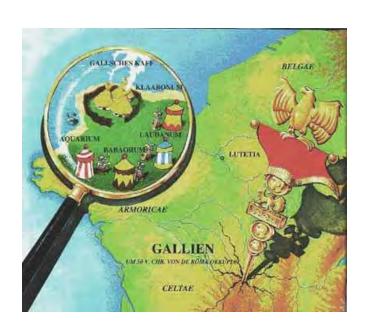


Scientific talk – motivated, structured story telling

What makes a good presentation?

ISONOSE

- ⇒ Motivated speaker
- ⇒ Telling a good story
- ⇒ Staying in time



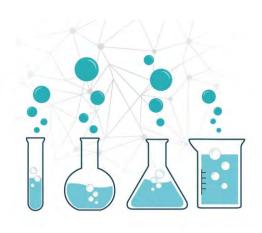


"First webinar?"

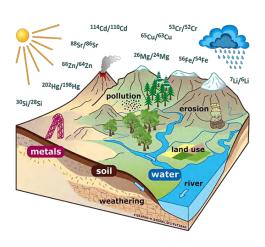


What are the ingredients?





Scientific Content



Visual Information



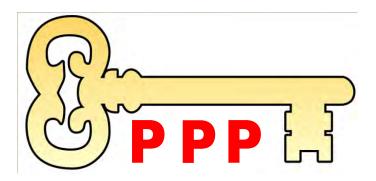
Delivery

How to make a good presentations?



- ⇒ Plan
- ⇒ **P**repare
- ⇒ Practice

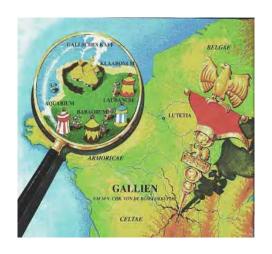




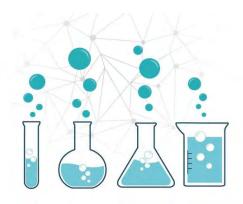


References





http://www.sabor.co.at/asterix/

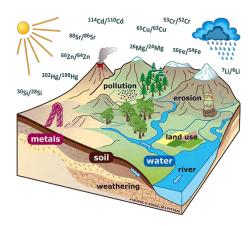


Scientific Content

http://www.smartinsights.com/ecom merce/web-personalisation/contentpersonalization/



"First webinar?"
© cartoonstock



Visual Information

© GFZ



http://www.physikfuerkids. de/historie/zeit/zeit9.html

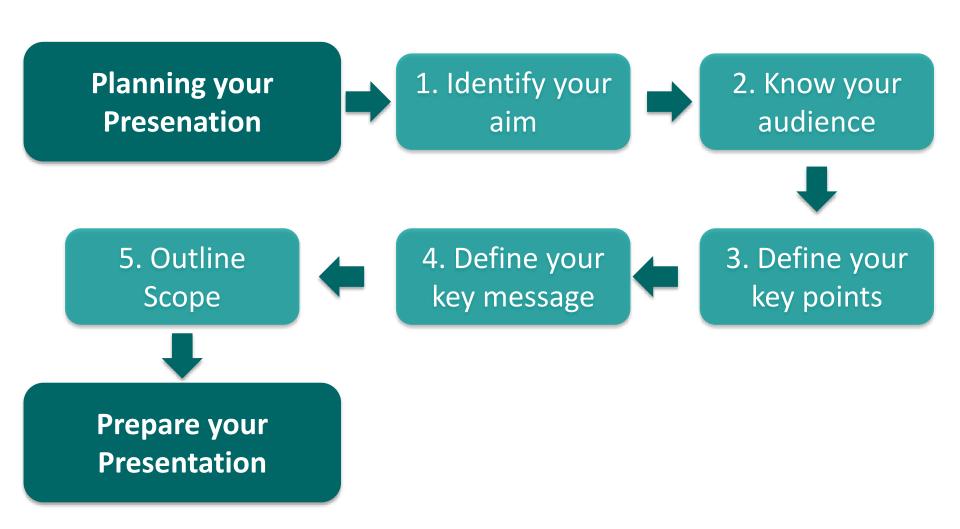


Delivery

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Planning your presentation





Identify your aim



- ⇒ Explain your data
- ⇒ Discuss your work
- ⇒ Network



http://www.masoncontractors.org/2011/11/18/identifyyour-targets/ - November 2015

- ⇒ Inform
- ⇒ Educate
- \Rightarrow Train

- ⇒ Motivate
- ⇒ Sell
- **⇒** Entertain

Know your audience



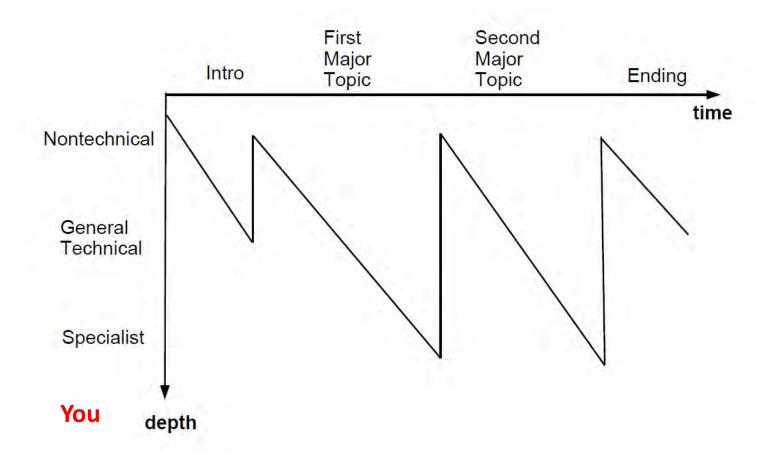
- \Rightarrow Who?
- ⇒ What do they know or do not know?
- ⇒ What do you want them to remember?
- ⇒ What do you want to discuss with them?
- ⇒ How can you get them engaged?



http://www.fda.gov/ucm/groups/fdagov-public/documents/image/ucm317404.png

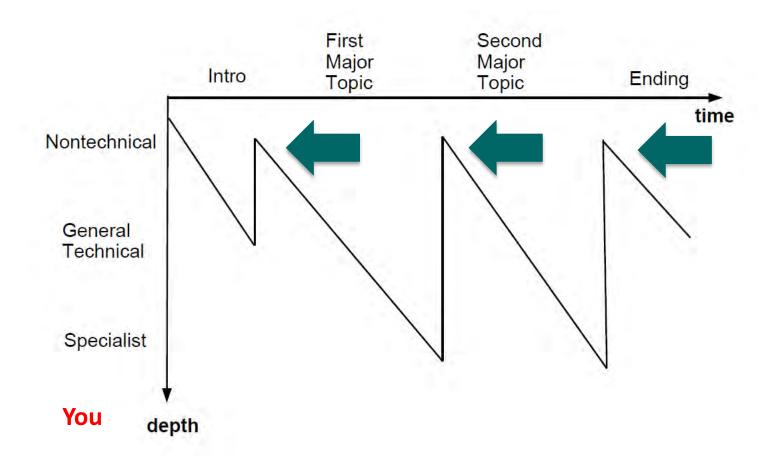
Reaching (multiple) audience





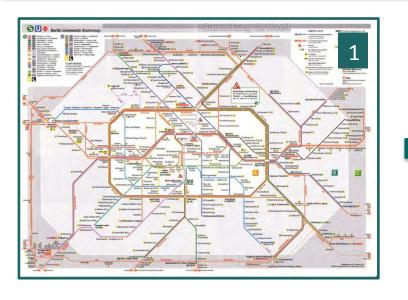
Reaching (multiple) audience



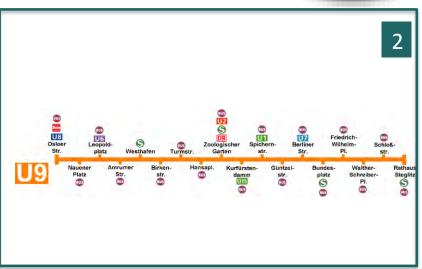


Keep it simple











References:

- http://s-bahngalerie.de/S_Bahn_Berlin/xPlan_Bln/2015-01-16-S-Bahn-Berlin.htm
- 2. http://www.haltestellenansage.de/ansagen/u/berlin/u9_en.htm
- 3. https://commons.wikimedia.org/wiki/File:Berlin_U9.svg



Basic Rule



- ⇒ "Tell them what you are going to say"
 - Main message = title of talk
 - Outline = mini version of your talk

Introduction

- \Rightarrow "Say it"
 - Methods and results supporting your message

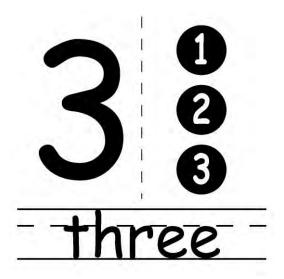
Main body

- ⇒ "Tell them what you said"
 - Outline becomes your conclusions slide

Conclusion

Rule of three





http://www.theroadgetslong erifistop.com/wpcontent/uploads/2013/03/thr ee.jpg

- ⇒ Three better to remember
- ⇒ People remember max. three
- ⇒ Use lists of three

 Exception graphs (two per slide)

Preparing slides - start from the end



- 1. Conclusion slide
- 2. Title, introduction slides
- 3. Result slides
- 4. Method slides
- 5. Back up slides



http://www.123rf.com/photo_23883533_time -concept-computer-keyboard-with-hourglass-icon-and-word-save-time-selected-focus-on-enter-button.html

Outline slide (get rid of it)



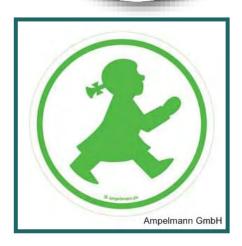
- ⇒ Outline: "Tell them what you are going to say"
- ⇒ Outline slide get rid of it at beginning
- ⇒ Avoid classical one word terms
 - Methods
 - Results
 - Conclusion



Outline if you want to keep it



- ⇒ Use several words
- \Rightarrow Use questions
- ⇒ Use sentences



Examples:

- ⇒ Introduction: Hypothesis, objectives, motivation for xyz
- ⇒ Method: How to set up experiment xyz?
- ⇒ Results: Three evidences showing that hypothesis xyz is correct.

Time management slides



- ⇒ Slides 95% finished three days before
- ⇒ Avoid overdoing layout



http://www.physikfuerkids.d e/historie/zeit/zeit9.html

⇒ Better have less slides than not practicing

Slide design



- ⇒ Clear, readable, balanced
 - Use the "Rule of three"
 - Avoid to much text
 - All slides same design
- ⇒ One topic per slide
- ⇒ 5 bullet points (maximum)



Wikipedia Commons - © Poussin jean



Fonts







- ⇒ Arial
- ⇒ Calibri
- ⇒ Tahoma

- ⇒ Times New Roman
- ⇒ Footlight MT Light
- ⇒ Edwardian Geript

Font Sizes



Font Size 14 point

Font Size 16 point

Font Size 18 point

Font Size 20 point

Font Size 24 point

Font Size 28 point

Font Size 32 point

Font Size 36 point

Font Size 40 point

⇒ References 14 to 18 point

 \Rightarrow Text: 20 to 28 point

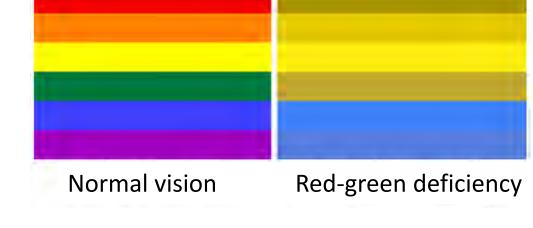
⇒ Title: 32 to 40 point

Colour (deficiency)





http://irtel.uni-mannheim.de/colsys/Itten.html



http://understandinggraphics.com/design/designing-for-



- ⇒ Neighbouring colours
- ⇒ Two to three colours
- \Rightarrow High contrast



This is ok!

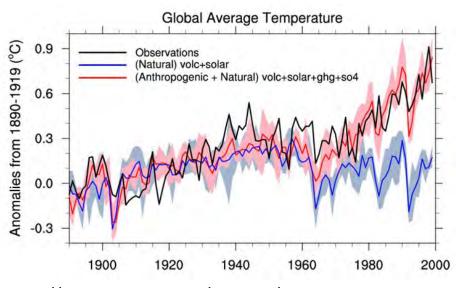
color-blindness/

This is not ok!

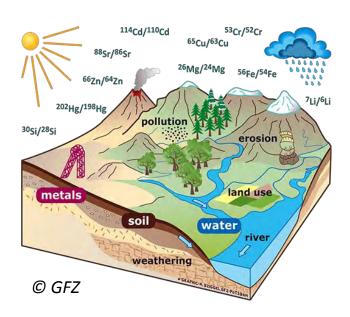
Figures



- ⇒ Clear, concise, readable
- ⇒ Simplify graphics from papers
- ⇒ Summary: block diagram

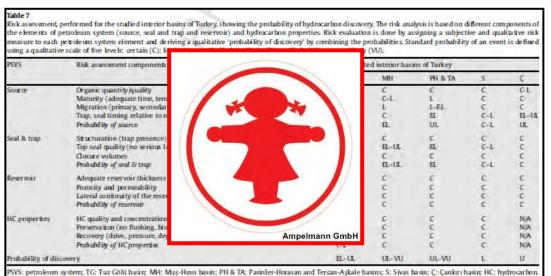


http://dumbscientist.com/archives/abrupt-climate-change



Tables









Please cite this article in press as: Huvaz, O., Comparative petroleum systems analysis of the interior basins of Turkey: Implications for petroleum potential, Marine and Petroleum Geology (2009), doi: 10.1016/j.marpetgeo.2009.05.002

	Tuz Gölü	Silvas basin	Cankiri basin	East Anatolian basins
Source	50:50	certain - likely	unlikely	50:50 to unlikely
Seal & trap	certain	certain - likely	certain	50:50 to unlikely
Reservoir	certain	certain	certain	certain
HC properties	certain - likely	certain	N/A	certain
Probability of discovery	50:50	likely	unlikely	unlikely- very unlikely

Bullet points > 5: "Stay to three"



- ⇒ Explain your data
- ⇒ Discuss your work
- ⇒ Network



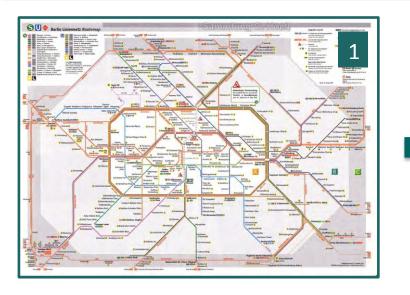
http://www.masoncontractors.org/2011/11/18/identifyyour-targets/ - November 2015

- ⇒ Inform
- ⇒ Educate
- \Rightarrow Train

- ⇒ Motivate
- ⇒ Sell
- ⇒ Entertain

Boxing









References:

- http://s-bahngalerie.de/S_Bahn_Berlin/xPlan_Bln/2015-01-16-S-Bahn-Berlin.htm
- 2. http://www.haltestellenansage.de/ansagen/u/berlin/u9_en.htm
- 3. https://commons.wikimedia.org/wiki/File:Berlin_U9. svg



Aligning







References:

- 1. http://s-bahngalerie.de/S_Bahn_Berlin/xPlan_Bln/2015-01-16-S-Bahn-Berlin.htm
- 2. http://www.haltestellenansage.de/ansagen/u/berlin/u9_en.htm
- 3. https://commons.wikimedia.org/wiki/File:Berlin_U9.svg



3

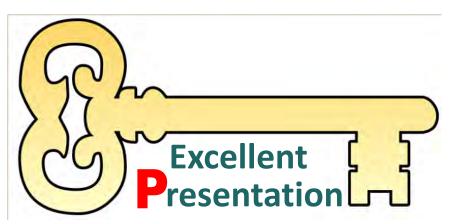
Proofread your slides



- ⇒ Search for mistakes
- ⇒ Correct them
- ⇒ Ask someone to proofread

THE PAOMNNEHAL PWEOR OF THE HMUAN MNID. According to a rscheearch at Cmabrigde Uinervtisy, it deosn't mttaer in waht oredr the Itteers in a wrod are, the olny iprmoatnt tihng is taht the frist and Isat Itteer be in the rghit pclae. The rset can be a taotl mses and you can sitll raed it wouthit porbelm. Tihs is bouseae the huamn mnid deos not raed ervey Iteter by istlef, but the wrod as a wlohe.

http://thefindingfelicityproject.com/2015/01/10/sins-and-secrets/comment-page-1/



Giving the presentation



When giving a presentation you need to:

Get audience attention & interest

in first
2
minutes

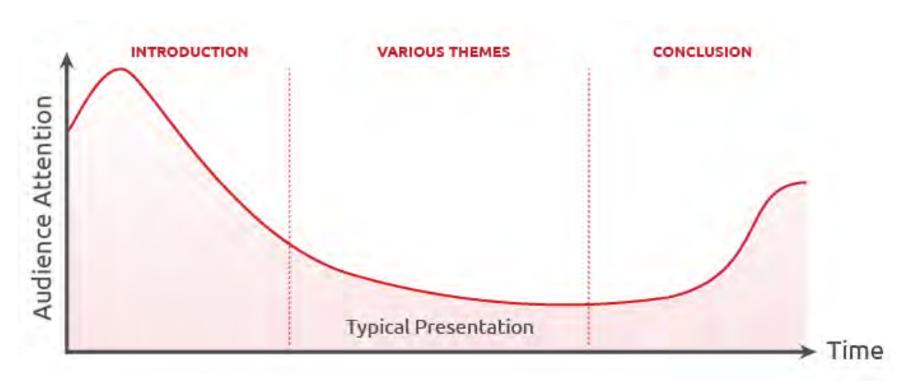
maintain engagement so they

listen & understand

Modified after http://www.free-management-ebooks.com/faqcm/preparing-01.htm

Attention span

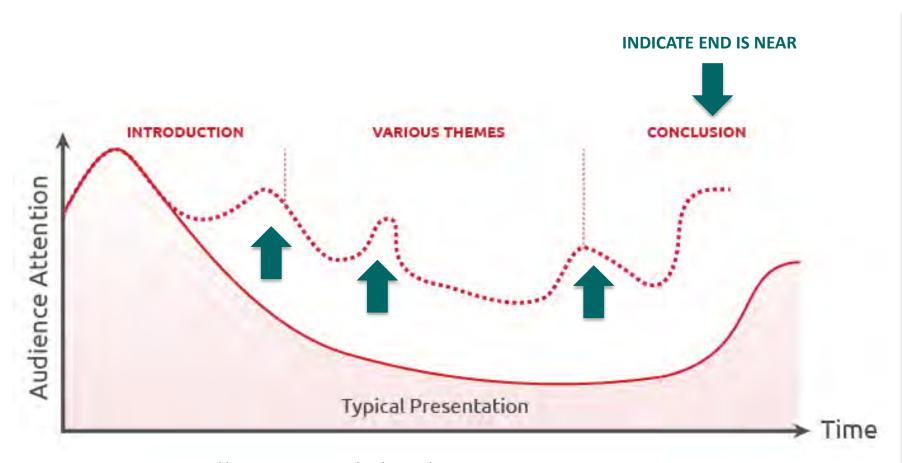




http://blog.iqpolls.com/en/posts/460-attention-span-your-chance-to-keep-your-audience-interested

How to increase attention span?





Modified after: http://blog.iqpolls.com/en/posts/460-attention-span-your-chance-to-keep-your-audience-interested

How to engage your audience?





Guide the audience through your story



- \Rightarrow Use
 - Signposts
 - Transitions
 - Intermediate conclusions
- ⇒ Last point can anticipate next slide
- \Rightarrow Give examples
- ⇒ Repeat important things



http://www.missionalnetworking.org/2013/04/22 /questions-are-better-than-answers/who-whatwhen-signs/ 32 - 53

Address emotions



- ⇒ Be enthusiastic
- ⇒ Address emotions



http://www.vertriebslexikon.de, 02.2010

- Empathy: Perhaps you made the same experience?
- Pride: I know that you made these excellent experiments!
- <u>Curiosity</u>: How can we solve this problem?
- ⇒ Use rhetorical questions

Rhetorical questions



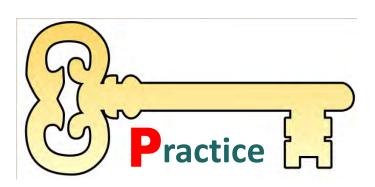


- ⇒ What conclusion can we draw from this? First...
- ⇒ Why do I stress that? Because ...
- ⇒ Remember what I said at the beginning? Motivation...

Practice: key to good performance



- ⇒ Memorize opening and ending
- ⇒ Rehearse (alone, colleagues, friends)
- ⇒ Only present scientific content you understand Eliminate slides you can not explain properly
- ⇒ Concentrate on body language, rhetoric, voice
- ⇒ Check time

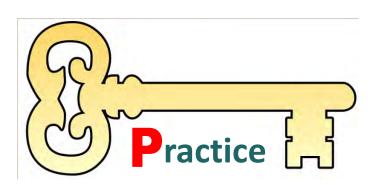


Nerves



The more uncertain you are, the more nervous you will be!

- ⇒ Get enough sleep
- ⇒ Practice your talk
- ⇒ Practice standing on both feed
- ⇒ Practice deep breathing
- ⇒ Anticipate problems



What can go wrong?



- ⇒ Losing your train of thought
- ⇒ Uncertainty about material
- ⇒ Presentation crashes
- \Rightarrow Interruptions
- ⇒ Running out of time



" DANG, I FORGOT MY NOTES!"

© CartoonStock Ltd. 2015

Presentation













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Before talk



- \Rightarrow Know the venue
- ⇒ Be familiar with equipment
 - Microphone!!!
 - Remote control
 - Laser pointer
- \Rightarrow Arrive early
 - Introduce to chair
 - Hand over presentation
 - Check presentation is running



http://speakup.to/wpcontent/uploads/2013/12/leerer_vorlesungssaal_ fotolia 468 268.jpg

Essentials for a good opening

IS@N@SE_)

- ⇒ Get enough sleep
- ⇒ Get ready to perform
 - Breathe deeply already before talk
 - Visualize yourself giving a relaxed talk
 - Drink some water
- ⇒ Stride up to the podium
- ⇒ Check time
- ⇒ Welcome audience with a thank you



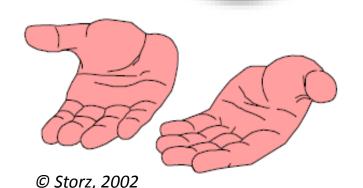
http://mindfulhappiness.org/2015/concentration-mindfulness/

Body language

ISONOSE)

⇒ Gesture

- Emphasize a point
- Support words (e.g. first, second)
- Express emotions (e.g. excitement)



\Rightarrow Stance

- Stand on both feet
- Stand tall, keep your chest lifted
- Face audience

⇒ Facial expression

- Smile when entering the stage
- Have eye contact to persons
- Convey feelings (e.g. relaxed, glad, enthusiastic)

Voice



⇒ Volume

- Speak loud enough
- Raise or
- Lower for emphasizing

\Rightarrow Speed

- Change delivery pace
- Slow down for important points
- Pauses punctuate speech

⇒ Articulation

- Articulate clearly
- Pronounce ends of sentences audible
- Get rid of "aah", "mmh", tongue twisters

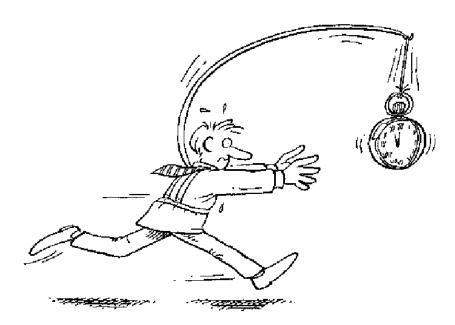


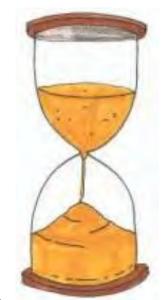
Time management











http://www.physikfuerkids.de/historie/zeit/zeit9.html

© Ralf Gläßner

Running out of time



Conclude on time wherever you are in your talk!!!



http://www.physikfuerkids.d e/historie/zeit/zeit9.html

- ⇒ Keep talking slowly
- ⇒ Make your main points
- ⇒ Go to concluding slide

PowerPoint type number of your concluding slide and press "Enter"

Finishing your presentation

IS@N@SE

- ⇒ Indicate audience end
- ⇒ Finish your presentation strongly
 - Speak slowly and with emphasize
 - Tell audience what to "Take away"
 - Thank audience.
- ⇒ Make a pause for applause
- ⇒ Answer questions
- ⇒ Leave the podium at normal pace



http://theruniverse.com/wpcontent/uploads/2012/05/Snail-at-Finish.jpg

Questions



⇒ Anticipate typical questions

???

- ⇒ Prepare back up slides
- ⇒ Encourage questions during talk
 - "I don't want to go in more detail here, but xyz is a very interesting point to discuss later."
 - "That is my interpretation, but perhaps you see it differently?"
 - You can ask a question yourself at the end perhaps there is a specialist in audience
- ⇒ Repeat main point of question
- ⇒ Irrelevant questions
 - "I think your questions relates most to subject xyz"

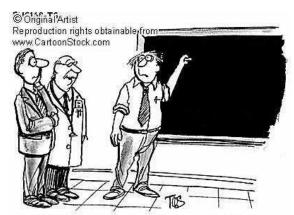
Answers



- ⇒ Keep answers short, polite, to point
- ⇒ Not knowing answer:
 - "Interesting point, I will look into that."
 - "Sorry I am not sure about that."
 - "That's a good point, let's discuss it afterwards."



- Stay friendly and diffuse situation
- "Let's talk about this later"
- "We clearly don't agree on this point, but thanks for bringing this up to us.

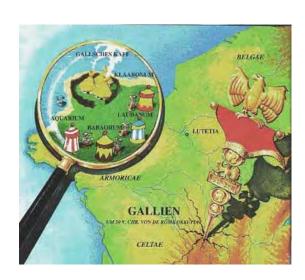


"It's a clear case of RLS: Repetitive Lecture Syndrome."

That makes an excellent presentation

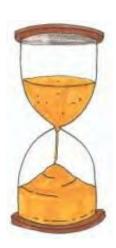


- ⇒ Motivated speaker
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http://www.sabor.co.at/asterix/





http://www.physikfuerkids. de/historie/zeit/zeit9.html

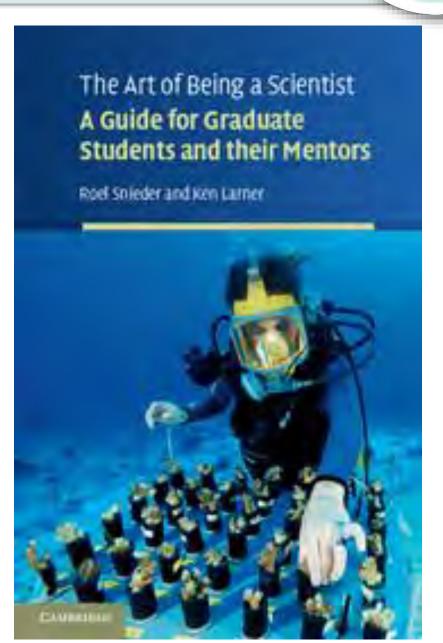
Suggested reading





Roel Snieder

Department of Geophysics, Colorado School of Mines



Links: improving scientific talk skills



Websites

- Tips for making effective presentations by Michael A. Payne & Ken Larner http://library.seg.org/doi/pdf/10.1190/tle27030423.1
- How to improve the presentation skills of PhD students by Susanne Ulm http://www.nextscientist.com/improve-presentation-skills-of-phd-students/
- How to give a dynamic scientific presentation by Marilynn Larkin
 https://www.elsevier.com/connect/how-to-give-a-dynamic-scientific-presentation
- Ten secrets to giving a good scientific talk:
 http://www.cgd.ucar.edu/cms/agu/scientific talk.html
- How to engage your audience and keep them with you
 http://www.hamilton.edu/oralcommunication/how-to-engage-your-audience-and-keep-them-with-you
- How to start a presentation tips and tricks 22 Powerful strategies by Justion Hoxton http://www.customshow.com/start-presentation-tips-tricks/
- Giving a Presentation? Lose the Laser Pointer
 http://www.protocolostomy.com/2006/11/29/giving-a-presentation-lose-the-laser-pointer/

Links: improving scientific talk skills cnt.



Presentations about for improving scientific talk skills

- How to give a good research talk by Simon Peyton Jones: http://research.microsoft.com/pubs/67052/giving-a-talk-slides.pdf
- Scientific conference presentations by Hilary M Jones: https://www.york.ac.uk/media/biology/documents/careers/Scientific%20Conference%20Presentations.pdf
- How to give effective scientific presentations by Tiffani L. Williams
 http://theory.bio.uu.nl/MERIT/pdf/cst1williams.pdf

Voice, body language, nerves

- Presentation skills: Body Language
 http://theory.bio.uu.nl/MERIT/pdf/cst1articlebodylanguage3.pdf
- Quick tips for using your voice effectively
 http://www.speaking-tips.com/Articles/Quick-Tips-For-Using-Your-Voice-Effectively.aspx
- Managing presentation nerves: https://www.mindtools.com/pages/article/PresentationNerves.htm

Links for non-native speakers



Phrases and vocabulary

- English for presentations: Useful phrases and vocabulary by Cornelson Corporate Solutions http://kella.edu.vn/sites/default/files/filedownload/useful-phrases-presentations.pdf
- A short guide to the oral presentation in English by Martha Grand Ensieg http://step.inpg.fr/GB/docs/Language of presentation v7.pdf
- 25 Transitional phrases that will make your next speech like butter by Shane Purnell

http://www.shanepurnell.com/2010/10/05/25-transitional-phrases-that-will-make-your-next-speech-like-butter/

Thank you!





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Erik Düsterhöft

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