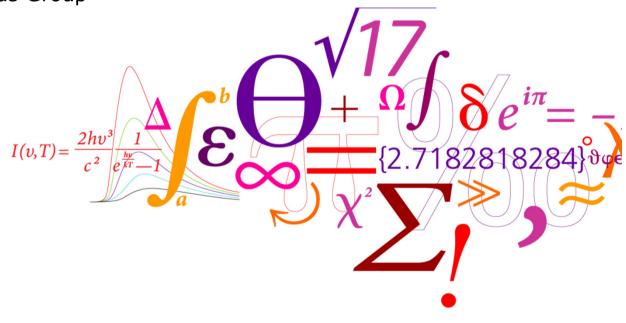
Creating efficient scientific posters

v/Thomas Scott Lund Director at Quercus Group





Only skilled candidates who know how to communicate find jobs!



GRØN DYST

What the jury evaluates on:

- Is the project well-structured and **clearly communicated?**
- Is the project technology useful and realization probable?
- To what extent is the project visionary and/or innovative?
- To what extent is the project's positive environmental and energy impact probable?



Outline

- 1. Purpose
- 2. Content
- 3. Design
- 4. Construction
- 5. Tips
- 6. Summary/Checklist
- 7. Q&A



...including: 8 poster mistakes you should AVOID!









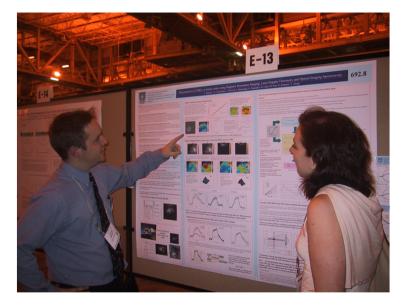
WHY USE POSTERS?

1. A summary in a format that is easily and widely accessible

2. Reach a large audience

3. Allow **many people** to **report** findings in a **single session**

4. Allow people with similar interests to **meet and discuss** detailed topics or ideas





Purpose

– On the surface:

- To inform
- To communicate findings and ideas to peer
- Network
- Beneath the surface:
 - To persuade, influence, compeed



An efficient poster is: Focused, Graphic & Ordered

Focused	Focused on a single message.
Graphic	Lets graphs and images tell the story; uses text sparingly.
Ordered	Keeps the sequence well-ordered and obvious.



It must talk to the audience

Consider:

- Who is your audience?
- What is your key message?
- What content do you need to target and persuade them?
- What design elements will work best for your purpose?



Avoid..





Mistake 1

Unclear message





Do not expect that the audience will try to **GUESS** your message!





Ask yourself :what is my message? ✓ 1 sentence







Not adressing your target audience!



Select your target audience!

3333



- Who are you talking to?
- Peers?
- Specialists?
- Costumers?
- Investors?
- Other?





Don't rely on everyone

understanding your message!

Make it targeted!

$$\begin{split} S_{12}^{2} &= c^{*} \Delta t_{12}^{2} - \Delta z_{12}^{2} = c^{*} (\Delta t_{12}')^{2} - (\Delta z_{12}')^{2} \equiv (S_{12}')^{2} \\ \Delta t_{12} &= (t_{1} - t_{1}); \ \Delta t_{12} = (t_{2}' - t_{1}'); \ \Delta z_{12} = V(x_{2} - x_{1})^{(x_{1} - x_{1}^{(x_{1} - x_{1})^{(x_{1} - x_{1})^{(x_{1}$$

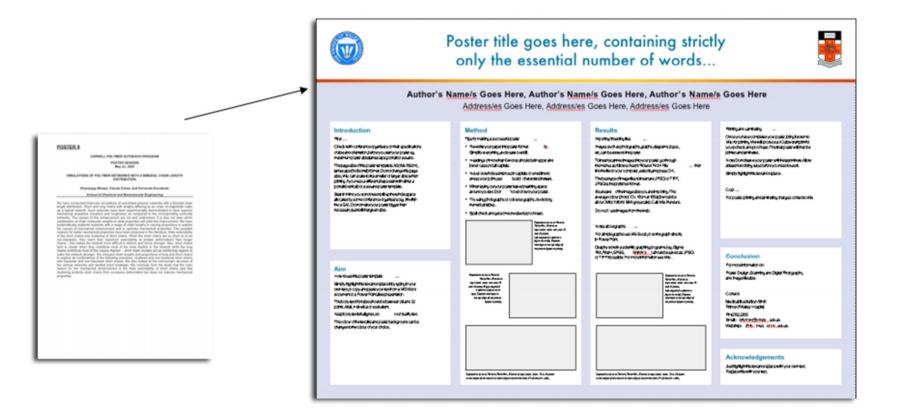




Content

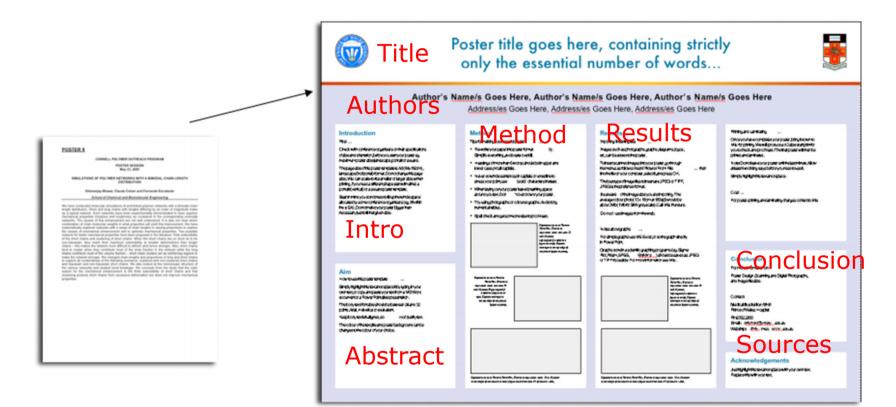


It's just an illustrated abstract



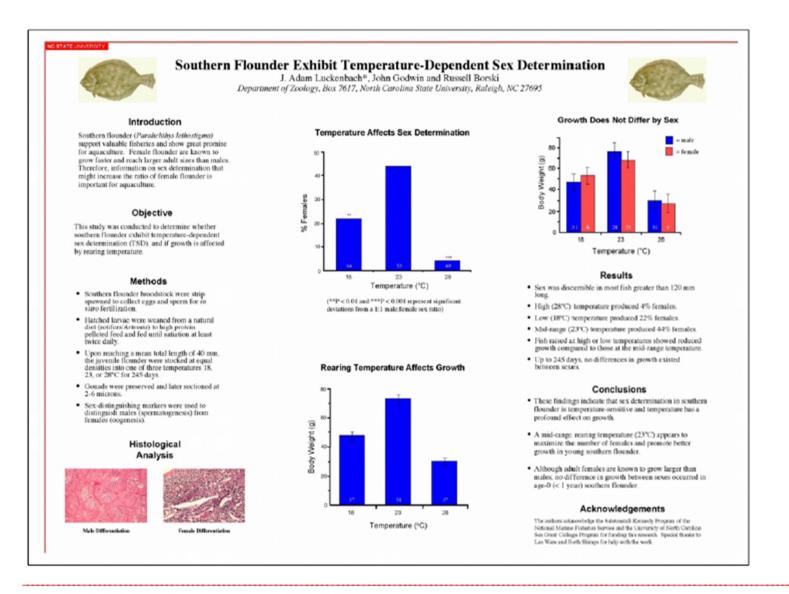


It's just an illustrated abstract



= Basic content components in any posters



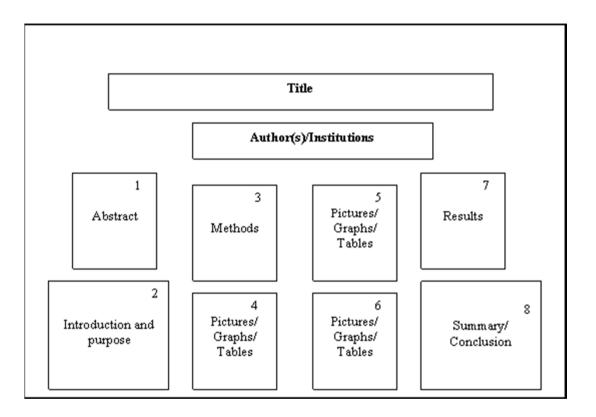


Making Effective Scientific Posters

03 March 2014

Page 14







Content

- Typical components of a poster:
 - Title
 - Author(s) names & affiliations
 - Abstract or Summary approach & main findings
 - Introduction
 - Materials & Methods describing experimental or field research, background theory or historical overview
 - Results key findings
 - Conclusions
 - Acknowledgements, References & Sources

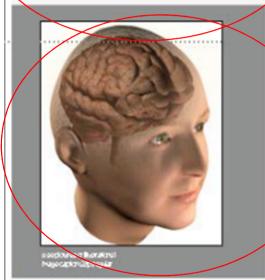


Your Ingenious Teaser Right Here to Woo Them Down to the Body

Conclusions first: 44 pt bold

Karolinska Institutet

Always put the most important part - your conclusions - first! Place your conclusions in the upper left hand corner of your poster. Prepare your material from the reader's perspective. What was done, by who and your conclusion has to be understood within a couple of second's reading! Use active voice when writing the text. testsize: 34 pt regular



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Introduction

Posters are primarily visual presentations. Your poster should be dominated by selfexplanatory illustrations such as graphs and pictures while the amount of text should be kept to the minimum.

Your aim

Your poster is an advertisement for your research and as such it heeds to be eyecatching and straight to the point. You only have seconds, or at best a few minutes to attract the attention of the visitor to a poster session. Keep your message short and clear

Your message

Keep your message clear and your text concise. Decide what is relevant for this poster and try to get your message across to your target group.

Layout, photos and print

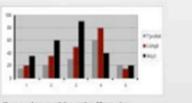
Contact Mediatocian at University Library for help with layout and Image enhancement. For printouts and professional photographers contact Blidtockacoa, Fore more information: www.blittockacoa.exe



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Tips:

The best font for text blocks that are as short as they should be on a poster is a Sans Serif typeface family. Therefore, use sans serif fonts such as Arial or Mundo sans rather than serif fonts like Times or Courier. AVOID CAPITAL LETTERS IN TEXTS THAT ARE LONGER THAN ONE LINE, SINCE THEY ARE MORE DIFFICULT TO READ.

Handouts

If you succeed in getting the reader's attention, provide her/him with more detailed information in the form of handouts or printed articles. Include references on your handout instead of your poster.

It is always nice to put in a picture and write some few short notes of what's going on in the future. Put handouts, business cards, nearby - on a table or in an envelope hung with the poster.





Focus your content

- What is the one main point you want to make?
- Use a statement, diagram or image that will grab your audience's attention
- Make it clear what your topic or theme is from a distance of 2 3 meters
- In most situations, your audience will have a limited time to view posters

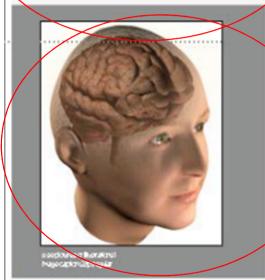


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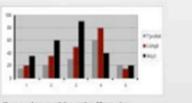
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Avoid..







Not having an **ATTRACTIVE** title

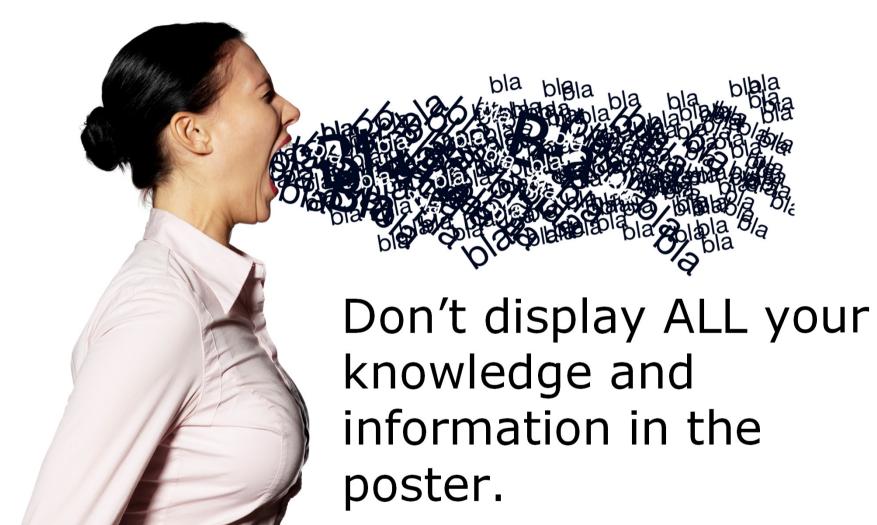




Too much information



4





Avoid **Meaningless** data

Support your key message!



0

Are you sure? Are you sure? D what?

Delete everything that doesn't support your key message!





"*Less is more."* - Coco Chanel



Transform your data into someting **meaningful**.

Work on your conclusion!



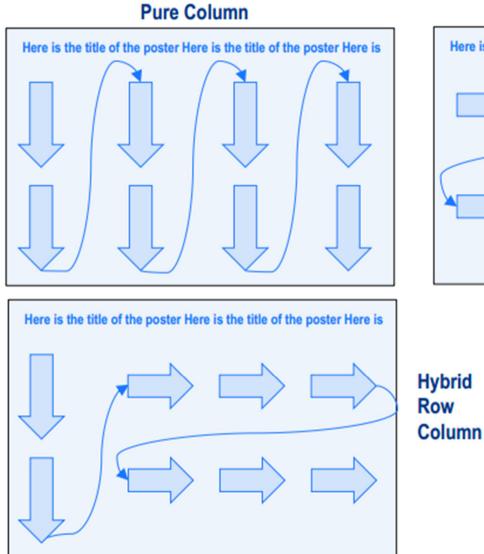


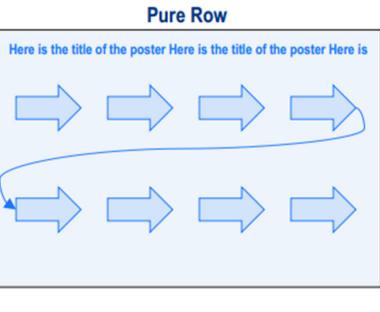


How do you want your viewers to read your poster?

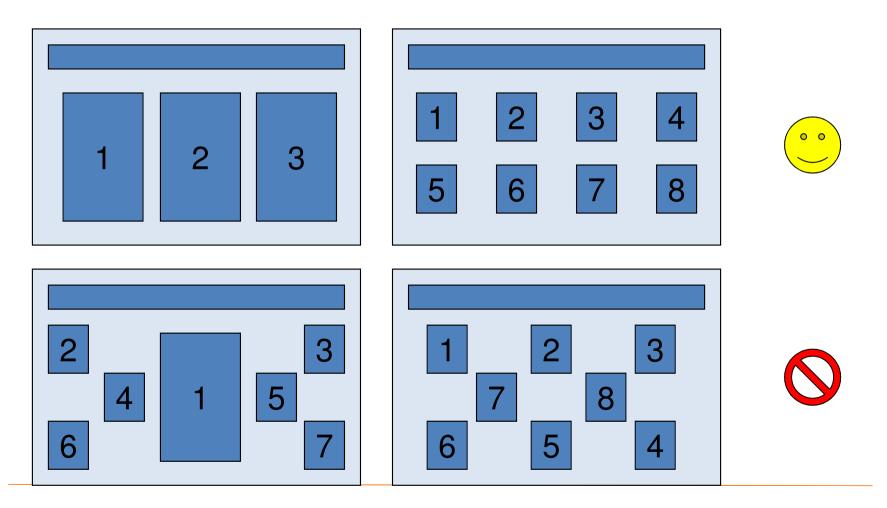


Columns, Rows or hybrid?





Content Paths





Symmetry

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Horizontal Symmetry

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Horizontal & Vertical Symmetry

TITLE AND AUTHORS	TITLE AND AUTHORS				
Diagonal Symmetry	Asymmetry				



Design: Visual

Overall design

consider an overall striking design, related to the topic.

• Colour

- use sparingly to emphasize, make distinct, or connect information.
- keep proper contrast between background and text.

• Fonts

 use large, simple fonts (24pt+) to make text readable from at least 2 meters

White Space

- adequate clear space will direct attention to key elements



Design: Visual

• Focal point

- Create focal point by e.g. headline, picture, graph or text

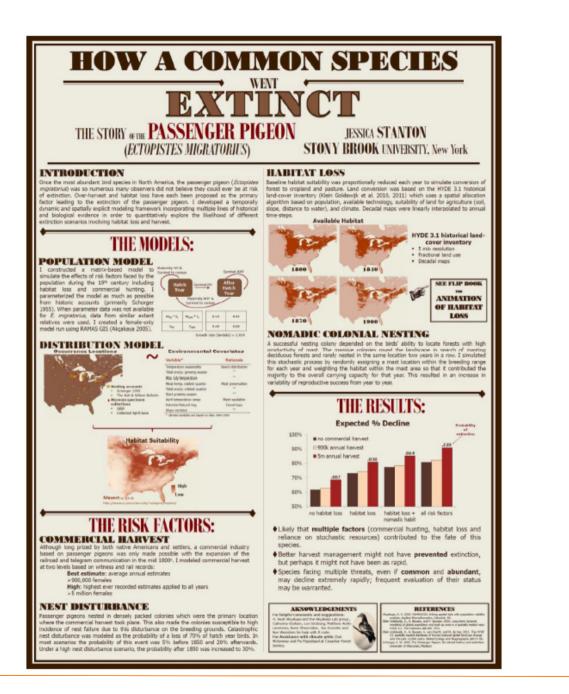
• Guidelines

 Provide guidelines such as arrows from one panel to another, or numbering your headings

• Balance

- Provide a balance of text, graphics, and other visual elements (colour, white space, etc.)
- 40% graphics is suggested









Avoid...



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Don't kill your public with an article in postersize.



The result...

Geofysik og rumteknologi Ingeniørarbejde 2013/2014

Den effektive videnskabsplakat

Birte Kronbak Andersen, Studie- og uddannelseskoordinator, DTU Space

En rundsperse foretapet af arkitekterne bag uddannelsen "Geofvsk og runteknolog" hos halteknologiske virksomheder, nationale myndighe der og virksomheder inden for geo- og rådgivningsbranchen giver et klært billede. Kun formidlingsdygfige kandidater får job/ Bortset fra denne Ake uvæsentige årsag, er det også i andre sammenhænge gavnigt at kunne formidle sin forskning kort og præcist - også selvom den er kom-pleks - og redegere for, hvorfor den er rekvant og vigtig, Og plakater er et centralt element i kommunikationen af videnskab og benyttes i mange sammenhænge som primær præsentationsplatform, så derfor er det godt at mestre kunsten at lave en effektiv videnskabsplakat.

Reacher bermidling, og beserker og skales?

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Use a "**boxing impact**" with strong visual elements.





Bad Quality



Do **NOT** use pixellated pictures!





Simulation results for using full data, CRs only, and proposed method under four missing mechanisms

Table 5

Varianceb 95% CI^c Bias^a $(\hat{\beta}_X)$ $(\hat{\beta}_W)$ $(\hat{\beta}_W)$ $(\hat{\beta}_X)$ $(\hat{\beta}_W)$ $(\hat{\beta}_X)$ Method (M.1) P(R = 1) = 0.66Full 0.013460.04008 0.03685 0.955 0.950 0.02229Comp 0.03062 -0.003561 0.1149 0.06732 0.960 0.955 0.04088 0.05169 0.980 0.9750.021 Impu 0.01431(M.2) logit P(R = 1) = 2YFull 0.03838 0.03624 0.975 0.925 0.007908 - 0.02116Comp 0.019450.070960.1070.06581 0.960 0.950 0.006966 0.01597 0.04227 0.05226 0.975 0.985 Impu (M.3) logit P(R = 1) = 2XFull 0.007908 - 0.021160.03838 0.03624 0.975 0.925Comp 0.012250.05890.08856 0.06818 0.980 0.975 0.009563 - 0.046990.03865 0.04923 0.985 0.970 Impu (M.4) logit P(R = 1) = X + YFull 0.01346 0.022290.04008 0.03685 0.955 0.9500.02404 Comp 1.6130.11020.08202 0.955 0.580 0.01814 Impu 0.082890.05780.06075 0.955 0.970

^aBias = $(\hat{\beta} - \beta_0)/\beta_0$.

^bSimulation variance.

^cConfidence interval using jackknife standard error.



Do **NOT** use tables!

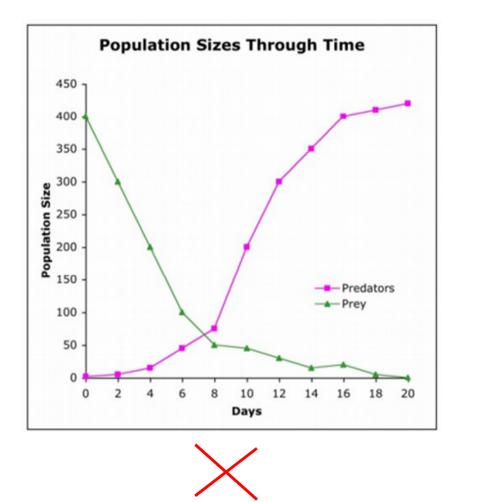
Do **NOT** use diagrams and graphs with "chart junk"!

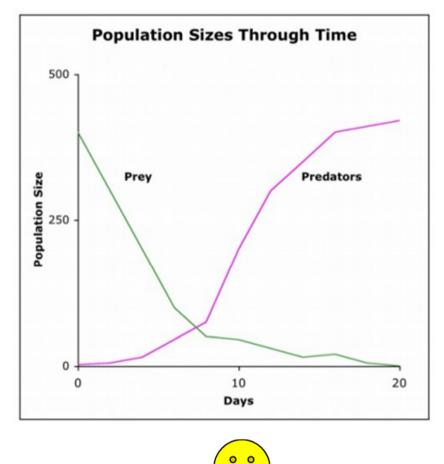














Do **NOT** use Clipart!





Do **NOT** use comlex signs:

\$*#&§%¤

... or complex fonts:

Comic Sans MS Bradley Hand ITC Blackadder ITG ALGERIAN Bauhaus 93...



Mistake

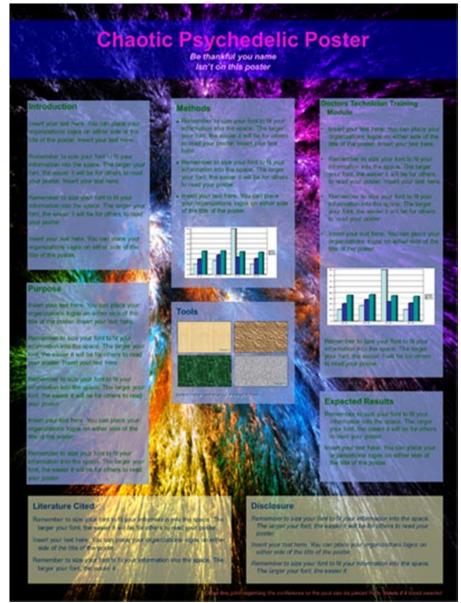


Visual vomit





An example of visual vomit







ABSTRACT

H1N1 Vaccines production in tobacco. Nicotiana benthamiana, is one of the most efficient approaches to face with the widespread of swine flu in 2009. Such an approach is made possible by Project GreenVax to produce H1N1 flu vaccine known as HAC1, a type of virus-like particles (VLP), hemagglutinin (HA) based Recombinant Subunit Vaccines in tobacco, HAC1 can trigger sufficient immunogenic response for vaccination without the presence of entire viral cell. Non-transgenic tobacco plants are cultivated through hydroponic methods to express VLP through Agrobacterium tumefaciens-mediated transient expression by vacuum infiltration technique. Localization and accumulation of vaccine antigen in the leaves of plants can be purified. Comparing to vaccine production in eggs, plant-based approach is easily up-scaled and cheaper. The vaccine is currently at the end of clinical trial phase 1.

INTRODUCTION

Started by Project GreenVax by G-CON for H1N1 plant based vaccine production. Vaccine Name : HAC1, VLP HA based

Recombinant Subunit Vaccines in tobacco.

Launch Vector name : iBioLaunch iB_{10}

Now focus in H1N1 and other influenza. FLU Reason: H1N1 caused 12,200 deaths in 208

countries in 2009.

Vaccines conventionally produced using chicken eggs injected with infuenza virus. TIT

GreenVax's initial run = 10million doses in 12 months

Upscale possibility = 100million / year

MECHANISM

Agrobacterium = Transient Expression System.

Somatic transfection – Infiltrate Intracellular space (T-DNA transfer to plants).

VLP localized at membrane surface.

N benthamiana -The only host for

Agrobacterium infiltration



METHODOLOGY



Growing

Tobacco

atio

• .

Nicotiana benthamiana is grown in hydroponics for 46 days. · Lead by robotics system for automated seedling planting.

 Mature tobacco plants are infected by launch vector with VLP gene.

 VLPs accumulated are purified from tobacco hiomace

Compared to eggs, total production timeline of vaccine in tobacco is 3 times faster Tobacco produce 2g recombinant vaccines/m³ Safer, less human or animal pathogens. STobacco extensively studied.

CHALLENGES

No FDA approved plant-based vaccines yet. Efficacy and reliability = Many clinical trials. Many tobacco needed.

relative to eggs (More Space). Relatively high cost for setting up the facilities and research.

Complicated protocols and regulatory factors.

CONCLUSION

2009 : Production timeline = 3 weeks Scalable 145,000 ft² G-con proprietary pods = 3m vaccines in 12 weeks

13th Sept. 2010 : Started Human Trial Phase 1 till end of 2011.

No adverse reaction. Only mild pain & tenderness. High percentage to be approved by FDA.

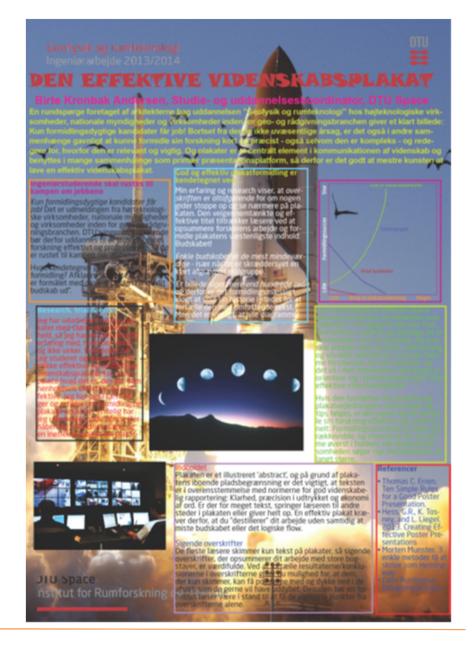
REFERENCES

ine, A.D., Mannes, M.-J.C., Nathalis, C., Senia, T., Nathalis, L., Frederic, O. & Louis-P. Y. (20 Production of Immagnificity Based Virus-Like Particles in Plantic A Rapid, Ufficient and The Production of Hemagglutints Gased Your C Safe Response to Pandemic Influenza, Plant Bio 10, 11155, 1467-7652, 2001, 06416.x n in Plants: A Rapid, Effic Journal, B. 907-919. doi: M. 1119, MIC-PRECIDENTIAL Marcy, D., 7 Noval, H. A., Lawis, P.-O., Coulure, M. M.-J., Tre'panier, S., Gang, J.-M., Dargin, M., Mongrand, S., Lawidy, N., Ward, B.J. & Ve' zins, L-P. (2008). Influenza Virus-Like Particles Produced by Transient Expression in Micciana bandhaminan Induce a Productive Interna-Response Against A Label Virul Chailmage In Mice. *Filed Elistechnology Acardia 4*: 505-568.



Also this one!

And this!





Do not give your audience nausea and a headache!

Too much? Too messy?

= No Impression!





White space is a good thing.



Attention!

Text alignment? Line spacing?







DTU Space National Space Institute



DTU

A Search for Minor Bodies in the Jovian **Tenuous Ring System**

NASA

Anastassia Malinnikova Bang¹, John Leif Joergensen¹, Jack Connerney², Matthias Benn¹, Troelz Denver¹, Ron Oliversen², Patricia Lawton²

¹ DTU Space, National Space Institute, Technical University of Denmark, Tel. (+45) 4525 3465, e-mail: amigispace.dtu.dk; ² NASA Goddard Space Flight Center, USA

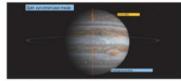
JUNO star tracker scans Jupiter rings and searches for new "moonlets"

The star tracker is capable of identifying non stellar objects (NSO) and acquiring images in two different modes:

Spin synchronized mode, which scans the skies in a certain inertial direction for the duration of the mode activation. The juno trajectory will in this mode result in a slow scanning of the Jovian tenuous rings.

Drift synchronized mode. In this mode the camera is programmed to take an image for every nth spin of juno (n=1,2,3...) starting at a given inertial directi-on. Adding a certain inertial angle change for each image will result in a slow drift in inertial pointing of each image. Using the juno trajectory this allows for the same portion of the rings to be viewed for the duration of the imaging.





Juno star tracket, fact sheet Search for minor bodies in Jovian ring

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Table presents comparison between the Earth's Moon and the known jupiter moons with respect to their naiseword/stone to the JUND SV, their relevant characteristics and the max number of pilots as seen by the Juno tast trackets.

Star trackers are capable of identifying and tracking minor bodies with sizes less than 1 km, prov-ded they apparent magnitude is brighter than V=5.7, i.e. substantially smaller and fainter that the innow moore of paper.

Szer(km) Kierdiatria JUNC (km)	178	6,63	20/8/4		19/84
National of a state					-1.53
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The elservations of Carth's Poon obtained during the CFB, thus been used to validate the auto-nomes is maping system and calibrate its detection sensibility, Using these parameters, the study after the lipsime mon system is been optimised, and the CFB performance call is cardium the expects/performances, since the insum moores are comparable with the Noon seen by the factor during CFB.

Juno star tracker is capable of tracking objects as faint as V+5.7, creating an opportunity for track-ing minor bodies with a very write range of possible opparent mappitudes in Jovian ring system. A sequence of 5 images is sufficient for the tracker to teck on an object and to start tracking it.





An example of the planning environment used for the Jovian ring observation study: Amalthea sees by the star tracker near perijove of the insertion orbit.

Conclusion

The june star tracker will provide unique tomographic data on ring's structure and will search various parts of the ring system for mirror bodies with wide variety of characteristics.

GFB calibration confirmed the excellent capability of the star tracker to determine, track and acquire images of an object similar to the ones anticipated in the jovian tencous ring system.





Construction



What software to use?



Power Point

- Ok
- Easy to use
- A little inflexible
- You will find templates on the DTU-portal



Adobe Illustrator or Indesign

- Excellent tool
- More difficult to learn
- Costs a lot, but 30 day free trial
- Other/Freeware?
- You will find templates on the DTU-portal



Templates

• DTU templates for PowerPoint & Indesign on the DTU-portal:

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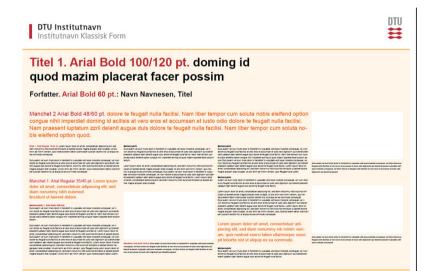
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Guides

• There are printed folders in Danish & English on the DTU web portal:

 Den effektive videnskabsplakat

 Vejdening udarbejdet af Birte K. Andersen. Studie - og Uddannelsenskoordinator på

 DitU Space, til førsteårskurset "Ingenierantegide - Geotysk og Rumteknolog".



DTU Space National Space Instit

Link til dansk version: <u>http://portalen.dtu.dk/Institutter/DTU_Space/~/media/DRC/Kommunikation/Vejledninger/Den_effektive_videnskabsplakat.ashx</u> Link for English version: <u>http://portalen.dtu.dk/Institutter/DTU_Space/~/media/DRC/Kommunikation/Vejledninger/MakingEffectiveScientificPosters.ashx</u>



Other guides

- Good inspirational stuff on the web:
- <u>http://ww.ncsu.edu/project/posters/CreatePosterOverview.html</u>
- <u>http://www.cns.cornell.edu/documents/ScientificPosters.pdf</u>







Handouts ?

- Provide a handout for interested visitors?
 - Include a summary of your poster
 - Title
 - Abstract
 - Key figures and findings
 - Include text, tables and graphics you weren't able to include on your poster
 - Include your contact details
 - Name, address, phone, e-mail, etc.



At the venue

- Arrive early
- Bring tools needed (e.g. tape, pencil, pointer?)
- Have handouts ready
- Practice your oral stuff
- Dress appropiately
- Show positive energy ☺





Avoid..





Lack of preparation



Most posters are bad because there's been too little time spent to make them. **Period.**



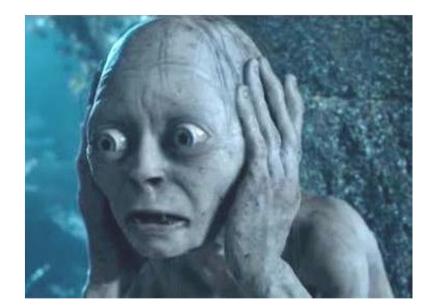
Remeber the 4 P's

- Preparation
- Production
- Practice
- Presentation

Takes time!



No time?









Summary



Summary

- Consider:
 - What is your key message?
 - Who is your audience?
 - What content do you need to target and persuade them?
 - What design elements will work best for your purpose?
 - How are you going to **construct** it and get it printed?
 - What do you need on the day of the presentation?



Checklist:

Planning	Before starting work on your poster, consider message, space, budget, format (single sheet or multi-panel), and deadlines.
Focus	Stay focused on your message and keep it simple. Create a mock-up and dispense with unneeded details.
Layout	Use a clearly defined visual grammar to move readers through your poster. E.g. DTU-templates
Headings	Use headings to orient readers and convey major points.
Graphics	Clear graphics should dominate your poster.
Text	Text should be minimized in favor of graphics, and large where used.
Colors	Colors can make a poster attractive and improve readability, but be cautious.
Editing	Edit ruthlessly to reduce the amount of text and focus on a results-oriented message.
Software	There are many packages you can use to create your poster.



Questions?



Thank you!

For more information:

Thomas Scott Lund www.Quercus-Group.com thomas@quercus-group.com

