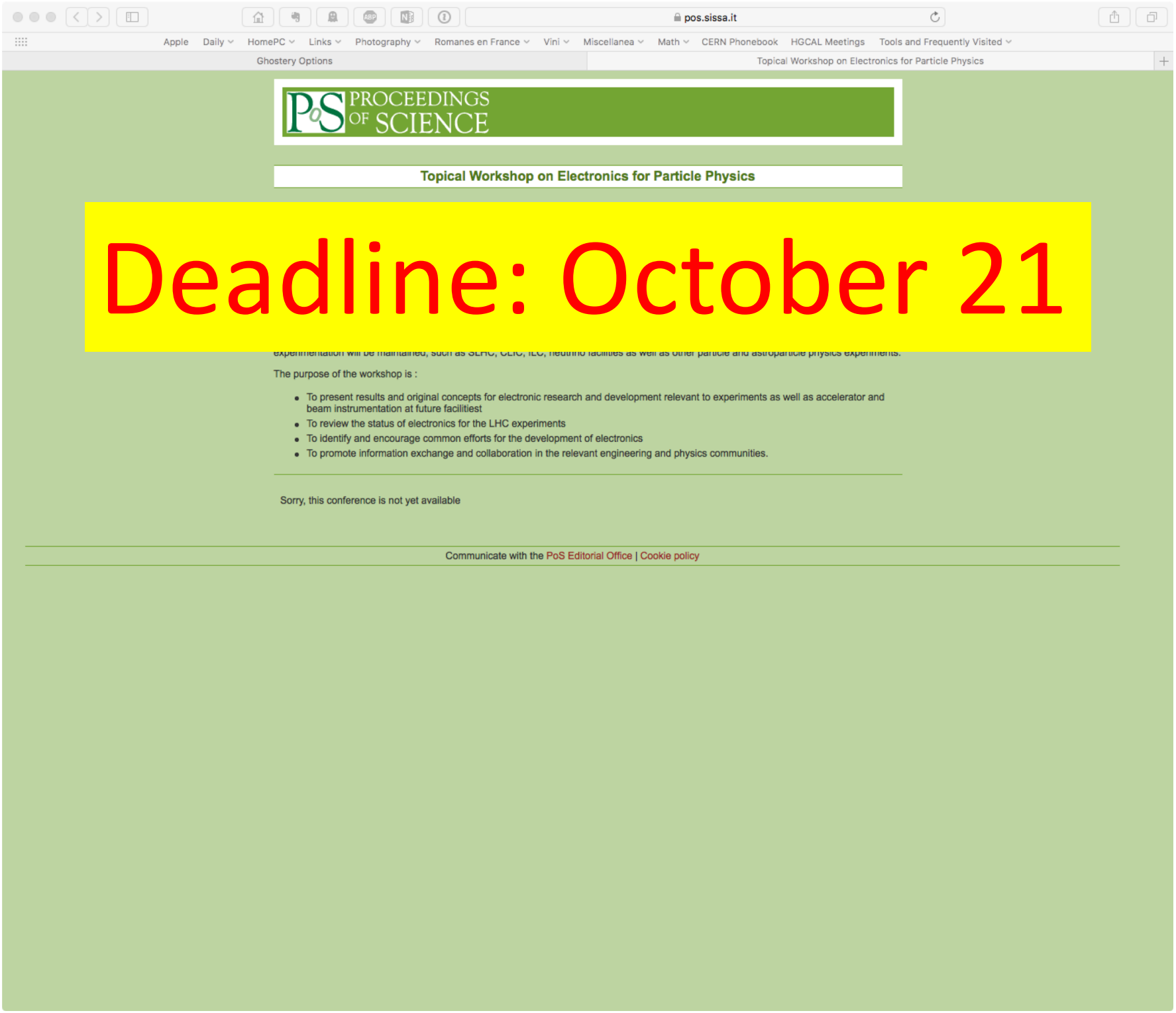
TWEPP 2018
Summary

Achievements

- Highest ever number of participants
- Much activity in many areas:
  - ASICs are still profoundly driving innovation in particle physics
    - Pixels are coming approaching to Gen2 era with very significant improvements
    - ASICs on detectors are “finally” capable of doing “feature extraction”
    - Rad hard links are not quite as fast as commercial ones, but not far behind
    - Power in ADCs is decreasing in a spectacular way
  - Extremely complex FPGAs in BE are essential for data reduction
    - Highly complex trigger boxes with incredible computational power
  - Study of radiation effects have reached an unprecedented degree of sophistication, probably second to none in other scientific research area

Homework

Your paper on Indico



Two levels process

Proceedings only

- All presenters are invited to submit a short (max 5 pages) version of their work (including title, author names and Institues!)
- published in the Proceedings of Science (https://pos.sissa.it)
- minimal filtering applied.

Contributions to be uploaded on Indico, NOT to POS directly

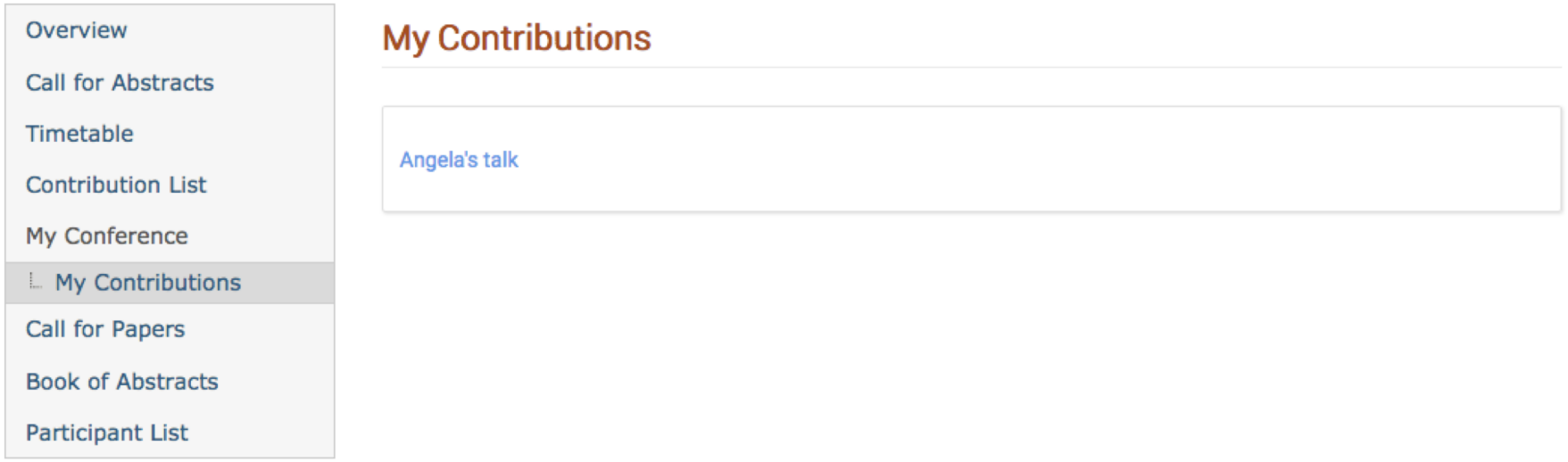
Fully Peer Reviewed

- Authors who wish to have a full peer-reviewed publication, are invited to submit an extended version of the paper (different title, more details and results!) for a regular JINST paper.
- Published through JINST open-access mechanism (i.e. please follow the normal JINST procedure for your Institute and just inform JINST that this work was presented at TWEPP 2018)

PAPER SUBMISSION (author role)

Once logged in, you can access your paper by clicking “My contribution” tab.

You will then be directed to the list of contributions you have to TWEPP.



Recommendations for authors

- Please make sure ALL your senior colleagues have read your paper.
- The job of the review committee members is not to adjust English or fix a font…
- A useful miniguide for writing a better paper can be downloaded from:

https://indico.cern.ch/event/608587/attachments/1513047/2360179/TWEPP_papers_advice.pdf

- Attention young colleagues: A POS publication will not necessarily be counted in your CV; if you wish a peer-reviewed publications (with high IF) please consider JINST or an equivalent Journal.

Personal recommendation (i.e. the sermon)

- Make a last (and large) effort to translate your hard work into something others would need and want to read!

- A paper on POS/JINST is NOT a work-report or a contribution to the collaboration.

  Historical summaries of projects are not always interesting for a scientific Journal, you should emphasize what is new, what is improved, what works (and perhaps say why), and not what does not (unless you made a really exciting and generally useful discovery), especially if you do not understand why!

Feedback to us

- You should know that (moderate negative) feedback can provide a lot of advantages to electronic systems…
- This is true also for workshops organizers!
- Please: speak up with constructive ideas on the Indico feedback page and say what you believe could/should be improved!

TWEPP 2018 Topical Workshop on Electronics for Particle Physics

17-21 September 2018
Europe/Zurich timezone

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Support

twepp@cern.ch

Survey

Evaluation of TWEPP 2018

Please help us improve the workshop quality by answering the following questions, (1 = poor, 5 = excellent)

Overall level of satisfaction with the workshop *

1 2 3 4 5

On a scale of 1 (poor) to 5 (excellent)

Satisfaction with the paper selection process *

1 2 3 4 5

On a scale of 1 (poor) to 5 (excellent)

Satisfaction with the workshop programme *

1 2 3 4 5

On a scale of 1 (poor) to 5 (excellent)

Many thanks to:

(in random order)

Our sponsors

Local Organizers

But especially the young ones, particularly those that were at their first conference presentation in front of a large, serious, inquisitive audience!

Invited Talks

W. van der Zande	ASML	Technology and challenges for extreme ultraviolet lithography
W. Snoeys	CERN	Trends and challenges in monolithic CMOS sensors for HEP
S. Lardenois	IMEC	Silicon photonics for next-generation optical interconnects
D. Barney	CERN	The CMS High Granularity Calorimeter for HL-LHC
R.B. Staszewski	U. Dublin	Beyond 100Gbps HS Optical Data Interconnects
I. Shipsey	U. Oxford	Bionic Hearing: the Science and the Experience
G. Meynants	AMS	Low noise global shutter pixels and readout circuits for CMOS image sensors
S. Bellenger	Eolane	Advanced packaging technologies for demanding HEP applications
W. Sansen		Analog Design and me

2018 Local Committee

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Dr. Ing. Jeffrey Prinzie	KU Leuven
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Dr. Michael Tytgat	University of Ghent
Dr. Gilles De Lentdecker	Université libre de Bruxelles
Ann Moerenhout	

Horum omnium fortíssimí sunt Belgae

J. Caesar, De Bello Gallico

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Angela Ricci + Evelyne Dho	CERN, CH

さようなら
Búcsú
Farvel
αντίο
Au revoir
Auf Wiedersehen
Adiós
Adeus
Tot ziens
再见
Adéu
Goodbye
Arrivederci
Näkemiin

TWEPP 2019

TWEPP 2019 in
Santiago de Compostela