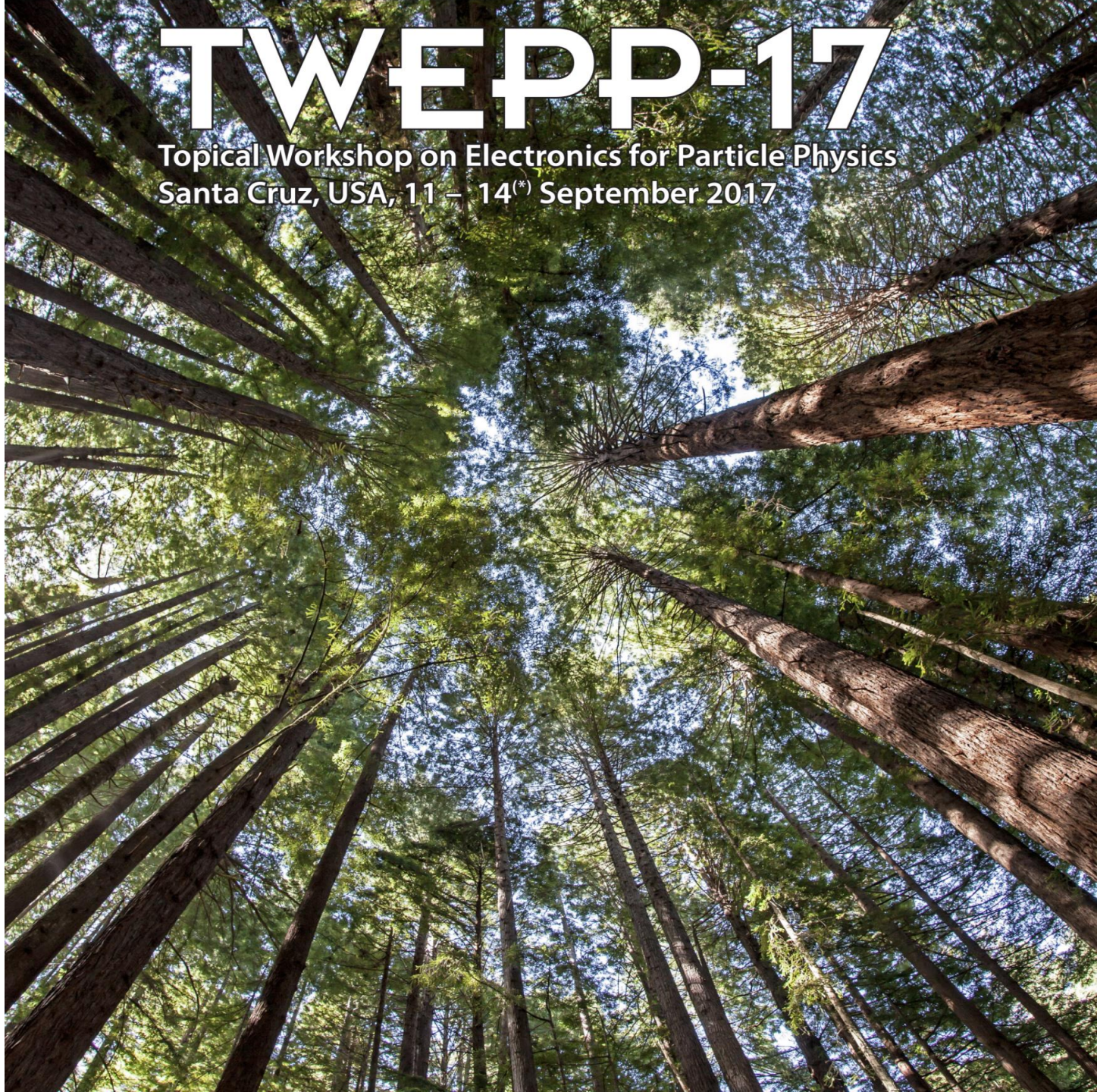


WELCOME



TWEPP-17

Topical Workshop on Electronics for Particle Physics
Santa Cruz, USA, 11 – 14^(*) September 2017



Aachen, 2010



Vienna, 2011



Prague, 2007



Naxos, 2008



Paris, 2009



Stockholm, 2001



Roma, 1998



Lisbon, 1995



Colmar, 2002



Snowmass, 1999



Amsterdam, 2003



Krakow, 2000



Balatonfured, 1996



London, 1997

Former LECC Workshops



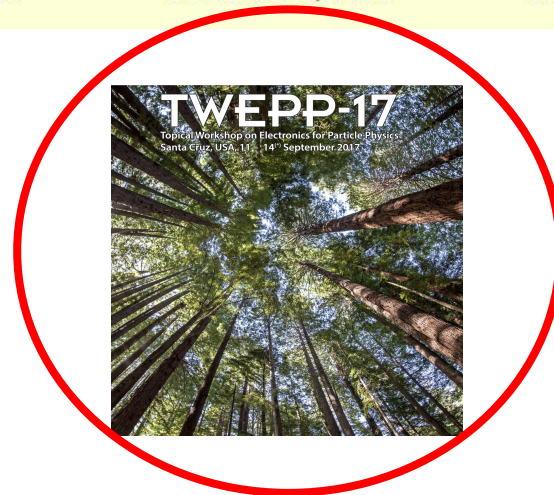
Boston, 2004



Heidelberg, 2005



Valencia, 2006



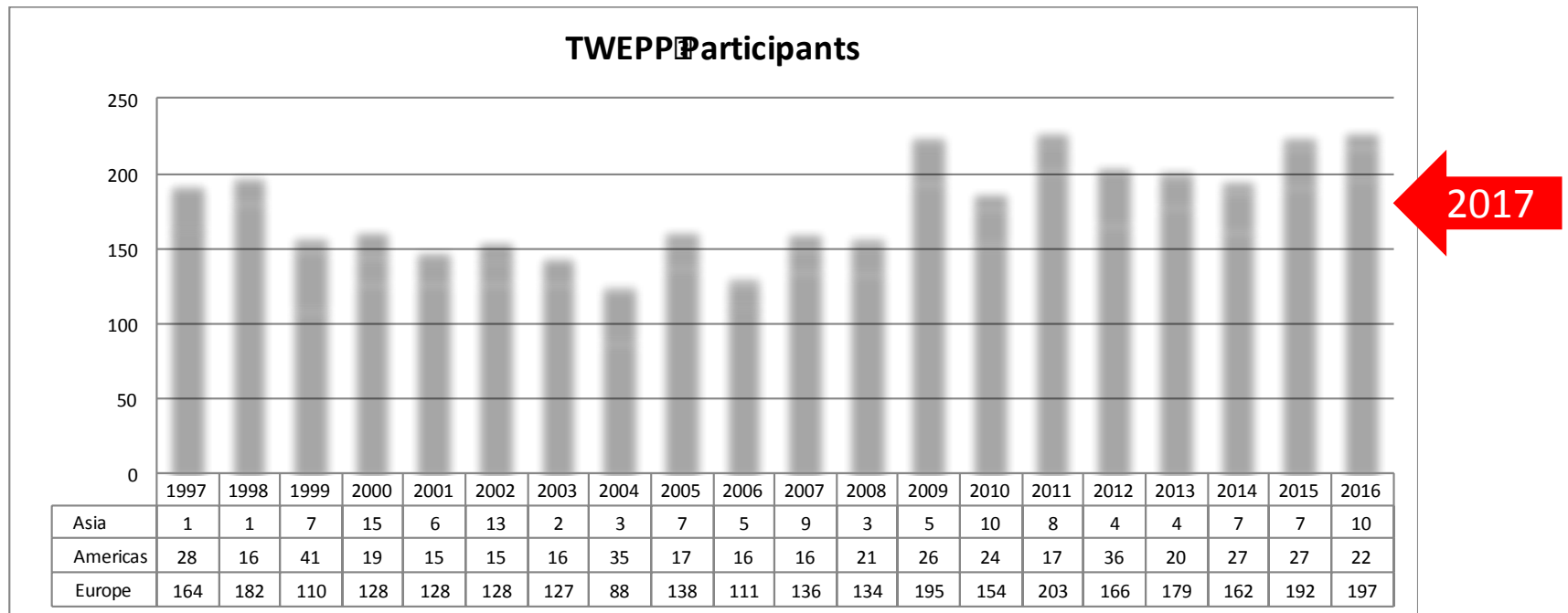
The redwood is the glory of the Coast Range. It extends along the western slope, in a nearly continuous belt about ten miles wide, from beyond the Oregon boundary to the south of Santa Cruz, a distance of nearly four hundred miles, and in massive, sustained grandeur and closeness of growth surpasses all the other timber woods of the world.

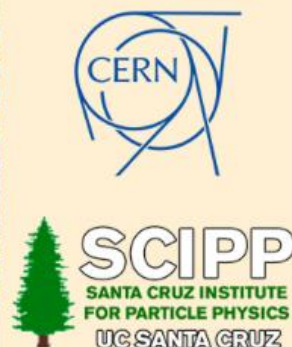
John Muir

General Workshop Info

- Participants
- Invited Talks and Tutorial 2017
- New rules for publications

Participants





TWEPP 2017 Topical Workshop on Electronics for Particle Physics

11-15 September 2017
US/Pacific timezone

Search...

Call for Abstracts – CLOSED

Overview
Scientific Programme
Timetable
Oral Presentation
Poster Session
Contribution List
Tutorial
Submitting Workshop Proceedings
Local Page and Registration
Booklet

The **workshop** will cover all aspects of electronics for particle physics experiments, and accelerator instrumentation of general interest to users.

LHC experiments (and their operational experience) will remain a focus of the meeting but a strong emphasis on R&D for future experimentation will be maintained, such as SLHC, CLIC, ILC, neutrino facilities as well as other particle and astroparticle physics experiments.

Official Web site for local information and registration

The **purpose of the workshop** is :

- to present results and original concepts for electronic research and development relevant to experiments as well as accelerator and beam instrumentation at future facilities
- to review the status of electronics for the LHC experiments
- to identify and encourage common efforts for the development of electronics
- to promote information exchange and collaboration in the relevant engineering and physics communities.

TWEPP 2017 (



[HOME](#) [PROGRAM](#) [REGISTRATION](#) [LOGISTICS](#) [NEWS](#) [PARTICIPANT LIST](#)

Topical Workshop on Electronics for Particle Physics

September 11 - September 14 2017 (*)

*There will be a special tutorial Friday, September 15

Hosted by the Santa Cruz Institute for Particle Physics (SCIPP)

With support from the European Organization for Nuclear Research (CERN)

[Conference Local Pages](#)

TWEPP will take place September 11-14(*There will be a special tutorial Friday, September 15), hosted by the Santa Cruz Institute for Particle Physics on the campus of the University of California Santa Cruz, 1156 High Street, Santa Cruz, California

The workshop will cover all aspects of electronics for particle physics experiments, and accelerator instrumentation of general interest to users.

LHC experiments (and their operational experience) will remain a focus of the meeting but a strong emphasis on R&D for future experimentation will be maintained, such as SLHC, CLIC, ILC, neutrino facilities as well as other particle and astroparticle physics experiments.

The purpose of the workshop is :

- To present results and original concepts for electronic research and development relevant to experiments as well as accelerator and beam instrumentation at future facilities
- To review the status of electronics for the LHC experiments
- To identify and encourage common efforts for the development of electronics
- To promote information exchange and collaboration in the relevant engineering and physics communities.

Contact:

**TWEPP 2017
Organizing
Committee**
Santa Cruz Institute
for Particle Physics
University of
California
1156 High St.
Santa Cruz, CA 95064

twepp2017@ucsc.edu



[Click here for
TWEPP 2017 Poster](#)

Updated: March 2, 2017
[Feedback](#)

Contributions

- 183 Paper submissions
 - 66 Oral
 - 86 Poster
-
- Impressive amount of work in the area of ASICs
 - Also many talks in system design (Trigger, Production Sessions etc.)

Invited talks

- Opening Session

- Prof. Jason Nielsen, Deputy Director of SCIPP:
Research activities at SCIPP and at UC Santa Cruz
- Prof. Alexander Sher, Santa Cruz:
Neuron detectors: electrical and optical interactions with neural networks

- Invited speakers

- | | | |
|--------------------|---------------------|--|
| • D. M. Fritz | <i>SLAC</i> | LCLS-II: A High Repetition Rate X-Ray Laser Facility |
| • B. Fowler | <i>Omnivision</i> | Advances in Image Sensors Technologies |
| • S. Weeden-Wright | <i>Lipscomb Un.</i> | Trends in Radiation Effects for sub-65 nm Technologies |
| • H. Chen | <i>BNL</i> | Readout Electronics for Liquid Argon TPCs in ν Experiments |
| • M. Verdiell | <i>Samtec</i> | Beyond 100Gbps HS Optical Data Interconnects |
| • A. Hassibi | <i>InSilixa</i> | CMOS Biochips: The Good, the Bad, and the Hype |
| • P. Gui | <i>SMU</i> | ADCs Approaching 100 GS/s |

- + Special Invited “surprise” talk at evening banquet

Special Tutorial: Friday Morning

Designing IC beyond 65 nm

Dr. Ping Chen

Dr. Sravasti Nair

Sr. Staff Application Engineer Custom IC & Simulation Cadence Design Systems

New Rules for Publications

- Why changing?
 - (Too) Wide distribution in the quality of submitted papers in the past years: some very good, others rather hastily written
 - Old scheme required a very demanding review process
 - Heavy work for reviewers
 - Reviewers themselves sometimes inconsistent

New Rules for Publications (2)

- Objective
 - To improve the overall quality of the publications generated by TWEPP participants, raise the impact factor of our publications and the “perception” of the relevance of the work done by all participants.

New Rules for Publications (3)

- Two steps process:
 - All presenters are invited to submit a short (max 4 pages) version of their work
 - published in the Proceedings of Science (<https://pos.sissa.it>)
 - minimal filtering applied.

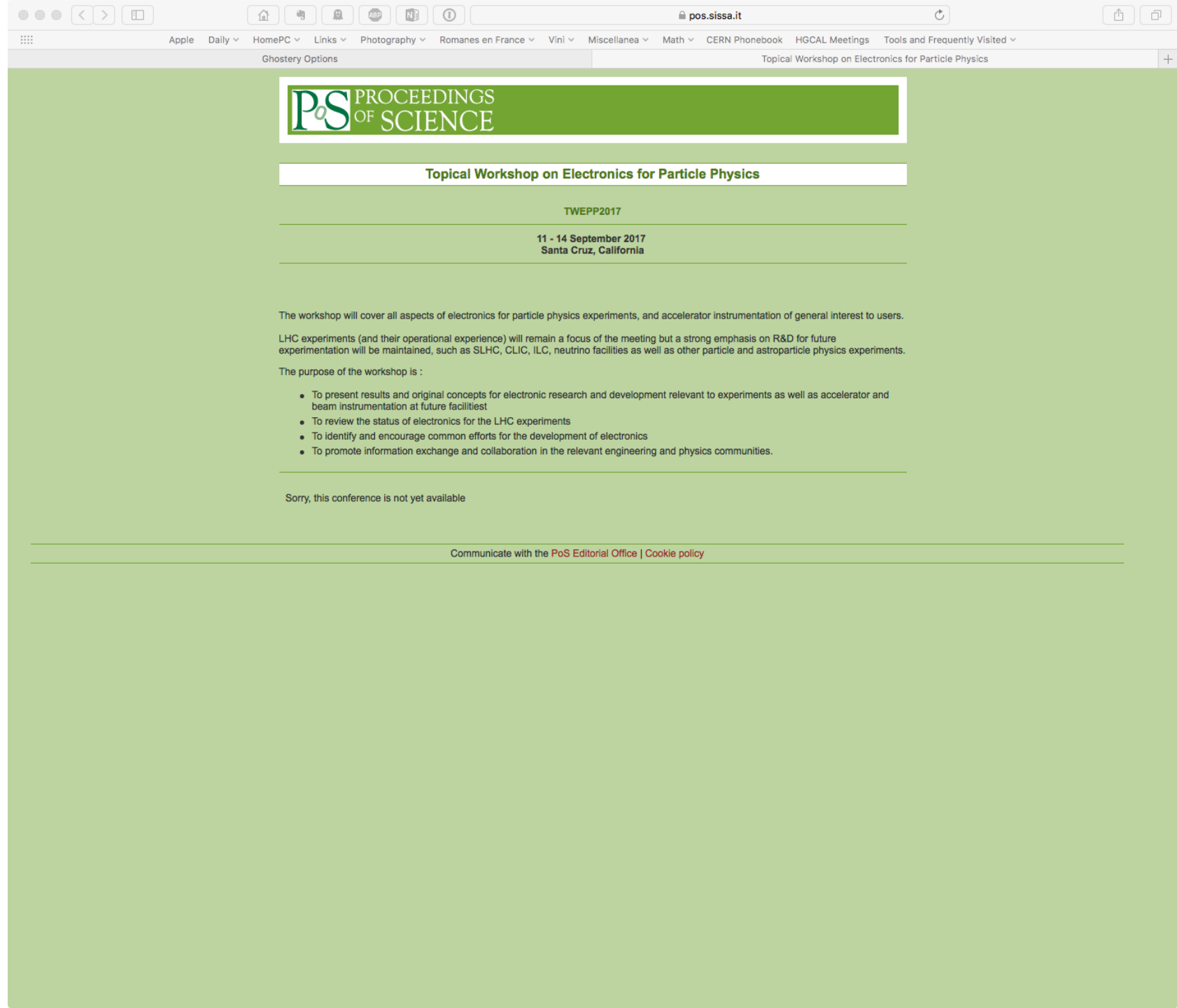
Instructions to be found on the TWEPP Indico page

- 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.
- This will be fully peer-reviewed following the JINST rules. 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 2017)

New Rules for Publications (4)

- Please notice that:
 - The POS paper will have minimal filtering, authors will be fully responsible for what gets published and reviewers will not rescue sloppy authors from embarrassment
 - The extended paper to JINST can not be a cut-and-paste version of the POS paper:
 - title must be different
 - content must be significantly expanded
 - The filter for publication on JINST will be more selective
- Publishing for an open-access Journal means – unfortunately - that the authors pay for the publication fees. Authors have to make sure that their Institute has such an agreement with JINST, or they will have to publish for non-open access.

POS Site



Final recommendations

- Upload your slides to Indico the day before !
 - Contact: evelyne.dho@cern.ch (in case of problems)
- Put posters in place before the poster session !
 - Contacts: Local organizers/conference desk
 - Upload them to Indico
- Be polite with your fellow presenters: Do not spend 90% of your time reading email with the laptop open in the auditorium
- Please be on time at all sessions!



Enjoy the Workshop!

SPARE

POS Example



PROCEEDINGS OF SCIENCE

[what's POS](#)
[for organizers](#)
[for chairmen](#)
[for authors](#)
[for readers](#)
[staff](#)



[Find a conference by subject:](#)
 and ☐ or ☐ and not [Go](#)

[Find one or more contributions:](#)
Author: ☐ exact ☒ contains ☐ approx** ☐ sounds like**
Title: Location: Year: [Go](#) [reset search](#)

[Combine fields with](#) ☒ AND ☐ OR (OR searches can be long) [Go](#)

[List of all conferences](#)
[Conference series](#)



forthcoming publications

St. Goar, Germany / 29 April 2018 - 04 May 2018
Loops and Legs in Quantum Field Theory

Guangzhou, China / 18-19 November, 2017
The 5th International Conference on Information Science and Cloud Computing

St. Gilden, Austria / 25-29 September, 2017
13th International Symposium on Radiative Corrections (Applications of Quantum Field Theory to Phenomenology)

[FULL LIST...](#)



to be published (available)

Amsterdam, The Netherlands / 10-14 October 2016
11th INTEGRAL Conference Gamma-Ray Astrophysics in Multi-Wavelength Perspective

Uppsala, Sweden / 3-6 October 2016
Prospects for Charged Higgs Discovery at Colliders

La Biodola, Isola d'Elba, ITALY / September 26-30, 2016
The 25th International workshop on vertex detectors

[FULL LIST...](#)



publications archive

Adelaide, Australia / 11-16 September, 2016
The 26th International Nuclear Physics Conference

Bologna, Italy / 5-9 September, 2016
VIII International Workshop On Charm Physics

University of Huddersfield, England / 31 August - 2 September 2016
4th Workshop on ADS and thorium

[FULL LIST...](#)

[login for CHAIRMEN](#)
 Please access your chairman pages here.

[login for AUTHORS](#)
 Please access your author pages here.

[PoS et cetera](#)
PoS has been indexed in the Directory of Open Access Journals

[DOAJ](#) DIRECTORY OF OPEN ACCESS JOURNALS
and also in