WELCOME

- 238 participants [188 in 2010]
- 132 presentations (48 oral and 76 poster) [63 oral 66 poster]
- 13 invited talks [16]
- 4 Working Group Meetings (MUG/SEU, opto, power, xTCA) [4]
- Topical session on “Level 1 track trigger for HL-LHC”
- Tutorial on “Advanced Packaging”
Some statistics (participants)

Number of Delegates at LHC Electronics Workshops

- Other
- Japan
- USA
- Europe

Year | Delegate Count
--- | ---
1997 | 164
1998 | 182
1999 | 110
2000 | 128
2001 | 128
2002 | 128
2003 | 127
2004 | 88
2005 | 138
2006 | 111
2007 | 136
2008 | 134
2009 | 195
2010 | 154
2011 | 211

2011: 211 delegates (19 from other, 24 from Japan, 6 from USA, 26 from Europe)
### Programme at a Glance

#### MONDAY

<table>
<thead>
<tr>
<th><strong>P1</strong> Opening</th>
<th>Particle Physics in Austria</th>
<th>Electronics for PP in Austria</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P2</strong> Bio Inspired Vision</td>
<td>Semiconductor in Austria</td>
<td></td>
</tr>
<tr>
<td><strong>P3</strong> Art and History in Vienna</td>
<td>Welcome reception</td>
<td></td>
</tr>
</tbody>
</table>

**MONDAY**

**Electronics for the FAIR facility**

<table>
<thead>
<tr>
<th>A1 ASICs</th>
<th>B1 Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>6</td>
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</table>

**Cryogenics Electronics**

<table>
<thead>
<tr>
<th>A2 ASICs</th>
<th>B2 Power</th>
</tr>
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<tbody>
<tr>
<td>3</td>
<td>3</td>
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</table>

**Micro & SEU**

<table>
<thead>
<tr>
<th>WG</th>
</tr>
</thead>
<tbody>
<tr>
<td>xTCA</td>
</tr>
</tbody>
</table>

**Classical Concert**

20h00

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#### TUESDAY

**Programmable Logic in the 21st Cent**

<table>
<thead>
<tr>
<th>A3 Trigger</th>
<th>B3 Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>6</td>
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</tbody>
</table>

**3D Integration of Pixel Detectors**

<table>
<thead>
<tr>
<th>A4 ASICs</th>
<th>B4 Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>3</td>
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</tbody>
</table>

**Optoelec.**

<table>
<thead>
<tr>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>WG</td>
</tr>
</tbody>
</table>

**WG**

20h00

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#### WEDNESDAY

**Silicon Photonics**

<table>
<thead>
<tr>
<th>A5 Packaging</th>
<th>B5 Optoelec.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>6</td>
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</tbody>
</table>

**Organic Electronics**

<table>
<thead>
<tr>
<th>Radiation Damage to LHC Electronics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Posters</td>
</tr>
</tbody>
</table>

**Conference Dinner**

19h30

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#### THURSDAY

**Tracking Trigger for HL-LHC**

WG Reports

Close out

**POSTERS**

70 posters

**TOPICAL**

7 talks

**B5a FPGA**

2

**B5b Rad**

4

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#### FRIDAY

**POSTERS**

70 posters

**TOPICAL**

7 talks

**B5 FPGA**

2

**B5b Rad**

4

**TUTORIAL**

Advanced Packaging

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philippe.farthouat@cern.ch
- Grouped by topics
- Poster session on Thursday afternoon
- Put them in place as early as possible
The evaluation process of last year has shown:
- There was not enough time left for lunches
- There was not enough time left for the (very well attended) working groups

That’s why there are less oral presentations and more posters this year:
- 1h20 left for lunches
- At least 2 hours left for the working groups

The evaluation form for this year will appear on Indico during the week:
- Please take time to fill it
Use of JINST, as last year

JINST Proceedings Section
- Online-only, peer-reviewed Journal of Instrumentation, published by SISSA and IOPP

A lot of benefits
- Open access
- Reference
- Nice WEB site to present the articles and possibility to include into them color pictures, video, …

However, this comes with some strict rules
Papers MUST be prepared with the JINST template
- Latex and MS-WORD versions available
  - If not used, the article will just be rejected
Copyright assigned to the Institute of Physics Publishing
- Or agreement giving License to Publish
Submission via the JINST site before November 1\textsuperscript{st}
- DO NOT send the contributions to the Twepp email address
  - Links to the accepted papers will be added in INDICO after paper acceptance
All articles will be reviewed (as last year)
- You might be requested to do some corrections within a given time limit
  - The review process increases the quality of the articles
Detailed instructions to authors available
- on the TWEPP-11 site under the “Contributions” tab
  http://twepp11.hephy.at
- on the Indico site
  http://indico.cern.ch/event/twepp11

Submit to:
- http://jinst.sissa.it/jinst/
- Log in
- Select the JINST Proceedings tab
- Select the TWEPP-11 tab
Topical Workshop on Electronics for Particle Physics 2010 (TWEPP-10)

The workshop covers all aspects of electronics for particle physics experiments, as well as those aspects of accelerator instrumentation likely to be of general interest to the community. The workshop covers ongoing experiments (such as the LHC experiments) extensively, whilst maintaining a strong emphasis on electronics related research and development for future experimentation, such as experiments for the High Luminosity Large Hadron Collider (HL-LHC), FAIR, the Compact Linear Collider (CLIC) and the International Linear Collider (ILC), neutrino facilities, as well as other particle and astroparticle physics experiments. The workshop aims to identify and encourage common efforts for the development of electronics and to promote information exchange and collaboration in the relevant engineering and physics communities.

Click here to access the presentations.

Click here for the TWEPP-2010 Executive Summary.

Topical Workshop on Electronics for Particle Physics 2010 Contents

- ASICs
- Packaging and interconnect
- Optoelectronics and links
- Radiation tolerant components and systems
- Power, grounding and shielding
- Programmable Logic, design tools and methods
- Production, testing and reliability
- Trigger systems
- Systems. Planning, installation, commissioning and running experience
- Electronics performance under first beam conditions

ASICs

SPIROC (SiPM Integrated Read-Out Chip): dedicated very front-end electronics for an ILC prototype hadronic calorimeter with SiPM read-out
M Bouchet, S Callier, F Dulucq, J Fleury, J-J Jaeger, C de La Taille, G Martin-Chassard and L Raux
2011 JINST 6 C01098
doi: 10.1088/1748-0221/6/01/C01098  Tag this article

Abstract  References  Full text PDF
Countdown clocks for speaker and chairman
- 20min (40) + 5min questions + Overtime

No electrical power for laptops in auditorium
Acknowledgements

HEPHY
Institute of High Energy Physics

OAW
Austrian Academy of Sciences

TU WEN
Technische Universität Wien
Vienna University of Technology

Austrian Ministry for Transport, Innovation and Technology

CERN

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MARIE CURIE

& the industrial exhibitors

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