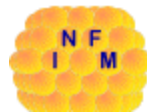
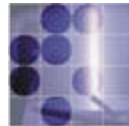




# 4<sup>TH</sup> MC-PAD NETWORK TRAINING EVENT

CERN




16-18 MARCH 2011





## MC-PAD in a nutshell ...



- 20 Nov 2006 Meeting of CERN MC steering group → idea to apply for a MC ITN on Particle Detectors
- 16 Mar 2007 First (phone) meeting of the MC-PAD 'consortium'
- 21 Sep 2007 Submit full proposal, 56 pages + lots of tables and forms. From about 100 physics proposals, we ranked no 3.
- 22 Oct 2008 Grant Agreement signed after months of negotiations. 17 ESR and 5 ER positions. Total volume 4.7 M€
- 1 Nov 2008 Official Network start date
- 1 Dec 2008 First researchers recruited
- 13-14 January 2009 Kick-off meeting 
- 17-19 September 1<sup>st</sup> MC-PAD Network Training Event in Cracow 
- 14 December Annual Progress Report submitted
- 9 September 40<sup>th</sup> MC-PAD phone meeting . 19 Researchers recruited. 2 positions open, the last one will be filled in 2010.
- 19 January 2010 45<sup>th</sup> MC-PAD phone meeting . 20 Researchers recruited. 1 position open (at PSI), one needs to be refilled
- 26-28 January 2<sup>nd</sup> MC-PAD Network Training Event (Open Training Event) in Hamburg,, in co-operation with the Helmholtz Alliance + Annual meeting of the MC-PAD supervisory board
- 27 - 29 Sep 2010 3<sup>rd</sup> MC-PAD Network Training Event and Midterm Review in Ljubljana 
- 16 – 18 March 2011 4<sup>th</sup> MC-PAD Network Training Event and Midterm Review at CERN



## It's all about training ...

... from the MC-PAD proposal text:

### B.3.1.2 Scientific, practical and complementary training

The partners of the network have a successful, long-term experience in training researchers at all stages of their scientific career. As demonstrated by the following table, the **MC-PAD ITN**, which is partly based on already existing collaborations between the partners, **will offer exceptionally broad, high-quality and well coordinated training possibilities in scientific, technical and practical training. Complementary training courses on general topics like safety, project management, how to apply for positions in academia and industry, science & society, etc., are given at most of the partner institutes and will be accessible for all trainees.**

**Table: Tentative schedule of network meetings and training events**

	<b>Milestones</b>	<b>Dates (months after start)</b>	<b>Deliverables</b>
1.	Kick-off meeting	m1-m2	Protocol
2.	Network training events	m9, m18, m30	Training certificates
3.	Open training events	m12, m24, m36	Training certificates
4.	Annual meetings	m12, m24, m36	Proceedings, annual reports
5.	Closing meeting	m48	Report, recommendations

Our funding allows us to invite to every training event ~20 external participants.



Scientific topics of this event

- **Gaseous Detectors**
- **Photodetectors**

Format: Lectures in the morning, hands-on lab work and demos in the afternoon.

Gaseous detectors are still the best devices when one needs to build large area tracking detectors. They can also be used for cost-effective precision tracking and photodetection. At LHC, you find many 1000 m<sup>2</sup> of gas detectors and they will also play a role in upgrade scenarios.

Photodetectors play a major role when it comes to detect scintillation light (calorimetry, TOF, trigger counters, fibre tracking) and Cherenkov light (RICH, TOF). In the LHC experiments, there are several 1000's of photodetectors installed.

We profit from experimental set-ups which we prepared for the recent **EDIT** school.



# Organization



We have divided you in two groups of 18 (see number on your batch)

Wednesday, 16 March 2011

8:30 Welcome and late registrations (auditorium B 222).

9:00 Lectures

**Gas detectors:** Leszek Ropelewski, Mar Capeans, Rob Veenhof, Heinrich Schindler (13-3-005)

**Photodetectors:** Christian Joram, Nicoleta Dinu (17-1-007)

12:00 Lunch in Resto. In parallel, discussions in small groups with Els Koffeman on PhD studies. Room 61-1-007. Please organize yourself.

13:30 Lab exercises

18:00 Meeting of the MC-PAD Supervisory Board (20-1-004). Please nominate a MC-PAD Researcher as your representative (Previous times it was Paolo Beltrame and Ruben Verheyden).



Thursday, 17 March 2011

**Morning:** visits of CERN installations. Always wear your access cards. We are crossing the border! Carry your passport or ID card!

- 9:00: Group 1: ATLAS visitor centre (group 1). Guides: Alex Penson and James Catmore  
Please walk there. Foresee 15' from main building. After the visit, walk back to main building (you have time for a short coffee).
- 9:00: Group 2: Cern Central Control room. Guide: Bettina Mikulec  
Bus leaves at 8h45 from main building. It will also bring you to ATLAS afterwards.
- 10:00: Group 2: ATLAS visitor centre. Guides: Patrick Fassnacht and Daniel Dobos. Afterwards you have free time until 13:30.
- 11:00: Group 1: CERN Central Control room (group 1). Guide: Bettina Mikulec.  
Bus leaves at 10:45 from main building. It will also bring you back to the main building.
- Afternoon:** social activity + dinner. Bus leaves at 13:30 from parking outside CERN (in front of B33-reception). Return ~ 22 or 23h.

Guided tours at the Palais des Nations and the International Red Cross and Red Crescent Museum.  
Dinner (approx. 19h): Mountain restaurant [Florimont](#)



Friday, 18 March 2011

9:00 Lectures

**Gas detectors:** Leszek Ropelewski, Mar Capeans, Rob Veenhof, Heinrich Schindler  
(13-3-005)

**Photodetectors:** Thierry Gys, Nicoleta Dinu (17-1-007)

13:30 Lab exercises (see list below)

End of event ~ 18:00

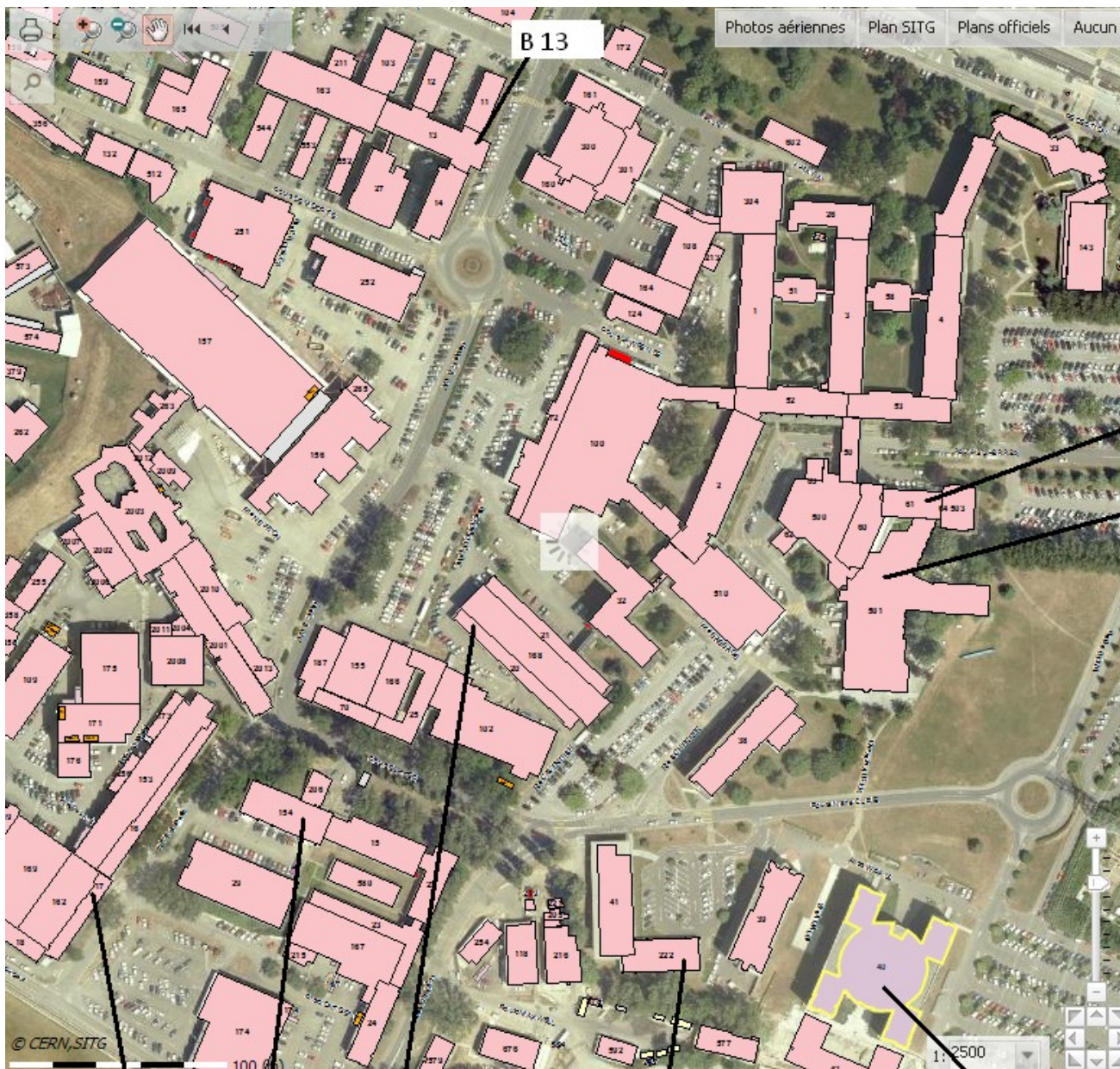


Many, many thanks to

Leszek Ropelewski, Mar Capeans, Rob Veenhof, Heinrich Schindler, Jörg Dubbert, Jörg Wotschack, Roberto Guida, Nicoleta Dinu, Samo Korpar, Thierry Gys, Sune Jacobsen

Veronique Wedlake !!!!





B 13

Photos aériennes Plan SITG Plans officiels Aucun

B 61

main building  
(restaurant 1)

B 17

B 154

B 20

B 222

B 40

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