

ACEOLE: Six Month Meeting

Thursday 2nd April 2009

09:00 – 09:45 Welcome, admin and HR info for ACEOLE

Reminders: Project structure and Website

Administrative procedures

Money: Cat. D, E and F

Deliverables: WP0, WP6 - Recruiting, conferences, visiting scientists. WP1-5

Future meetings and events

10:00 - 12:00 ACEOLE DAQ Projects (Convener: Jean-Christophe Garnier)

12:00 - 14:00 Lunch

14:00 - 17:00 ACEOLE Hardware projects (Convener: Richard Plackett) **N.B. 13-2-005**

17:00 - Wrap up Drink

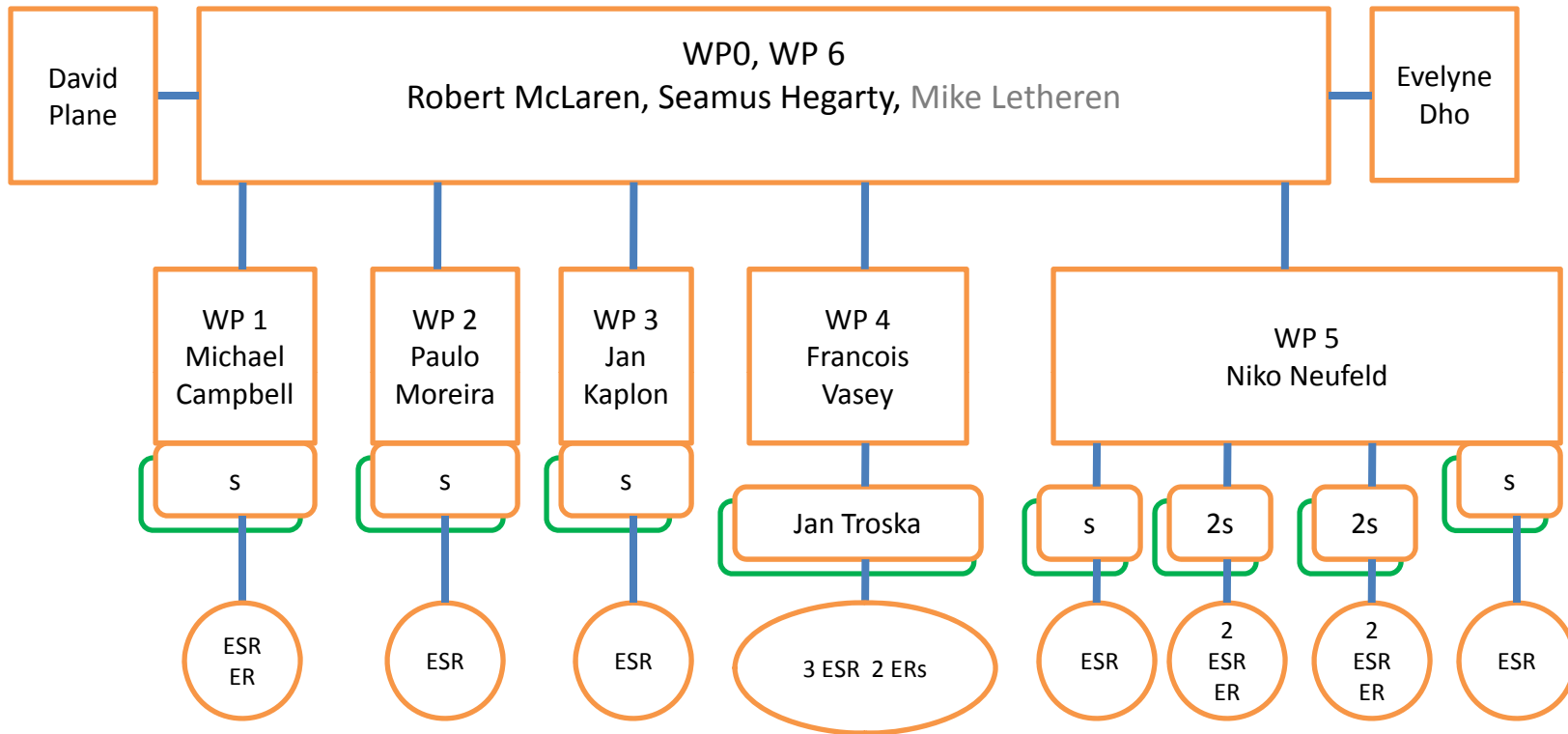
Friday 3rd April 2009

09:00 – 18:00 Work package discussions

Disclaimer: Some of the screen shots are out of date. Check www.cern.ch/aceole for the latest version



Project Structure



 Secondment



Home - ACEOLE: A Marie Curie ITN Project - Windows Internet Explorer
https://espace.cern.ch/Marie-Curie-ACEOLE/default.aspx

File Edit View Favorites Tools Help

Home - ACEOLE: A Marie Curie ITN Pro...

ACEOLE: A Marie Curie ITN Project

Welcome Robert McLaren

ACEOLE: A Marie Curie ITN Project

Home | ACEOLE Meetings | Work Packages | Researchers' Space | Site Actions

View All Site Content

- Training events
- Related Websites
- Documents**
 - Internal Documents
- FAQs
 - Public FAQs
 - Internal FAQs
- Sites
- Pictures
 - Picture Library
- People and Groups
- Discussion board
 - Researchers' discussion board
- Recycle Bin

Welcome to ACEOLE

Data Acquisition, Electronics, and Optoelectronics for LHC Experiments

The EU-funded 7th Framework ([people](#)) Programme has two main strategic objectives; to strengthen the scientific and technological base of European industry and to encourage its international competitiveness, while promoting research that supports EU policies.

The ACEOLE project is a mono-site Initial Training Network (ITN) with [CERN](#) as main host institution, working closely with associated partners. Together we will offer research training in several [work package themes](#) in the fields of advanced microelectronics, optoelectronics, networking and real-time data processing technologies in the world's state-of-the-art particle detector systems at the Large Hadron Collider (LHC), and a future upgraded Super-LHC (SLHC).

Training is high priority in the ITNs. Researchers are expected to attend conferences, workshops and follow CERN courses.

Students interested in working on this project should check out the [job opportunities](#).

Latest News

Six Month Meeting 05/02/2009 10:24 AM
by Robert McLaren
The second ACEOLE meeting will take place on April 2nd. For more information, look under the "Meetings" Tab.

International Computing Conference receives support from ACEOLE 03/02/2009 11:08 AM
by Robert McLaren
ACEOLE will fund a limited number of bursaries for promising young researchers wishing to attend the 17th International Conference on Computing in High Energy and Nuclear Physics. For more details see <http://www.particle.cz/conferences/chep2009>

Second round of posts in ACEOLE 30/10/2008 02:59 PM
by Robert McLaren
Interested in [applying](#) for training in the ACEOLE project?

▣ Add new announcement

Public FAQs

Subject

- I see the homepage but can't sign in
- Which browsers are recommended?
- I'm registered as a ACEOLE user, but I can only see the Public documents
- How can I access the ACEOLE site from outside CERN ??

Local intranet | Protected Mode: Off | 100%

2 Yaho... 3 Micr... Microsoft... 2 Wind... 2 Micr... Microsoft... Home - A... 16:30

Where to find info on the Site

List of Work Package Leaders, Supervisors and E(S)Rs

*Internal Documents > WPO - ITN management People Time and Money Researchers Tasks WPL
Sups*

Administrative Guidelines

Internal Documents > Administrative Info and Procedures

Meetings

ACEOLE Meeting Tab on Home page

Presentations

ACEOLE Meetings > Meeting and events folders



Administrative Procedures

Aim of these procedures: to make sure the CERN managers are informed of activities, make sure information flows.

Please read beforehand, **they often change!**



- ❖ Selection of MC Researchers
- ❖ MC Researchers; what to do upon arrival
- ❖ Travel (**everything goes via Evelyne**)
 - Researchers (**new rules!**)
 - Supervisors or Work Package Leaders (S/WPL)
 - Visitors (Visiting Scientists and Associated Partners)
- ❖ Career Development Plan (CDP)
- ❖ Training

Procedures at ACEOLE: A Marie Curie ITN Project > Internal Documents
> Administrative Info and Procedures

Use of Category “D” funds – “For the benefit of the Researcher”

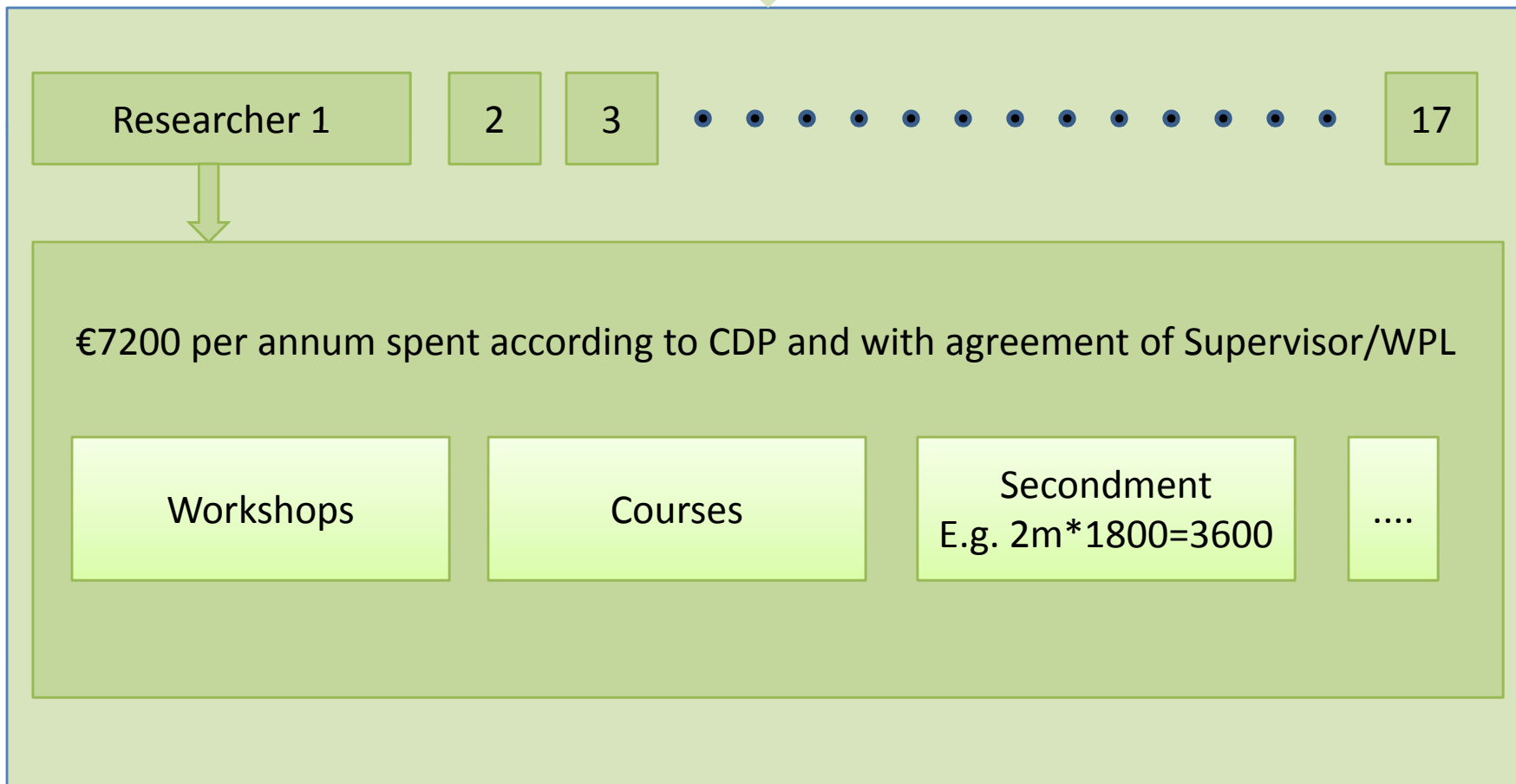
€600/Researcher/Month
For Researcher Training

€600/Researcher/Month
For benefit of Network

C

D

E



Use of Category “E” funds – “For the benefit of the ITN”

€600/Researcher/Month
For Researcher Training

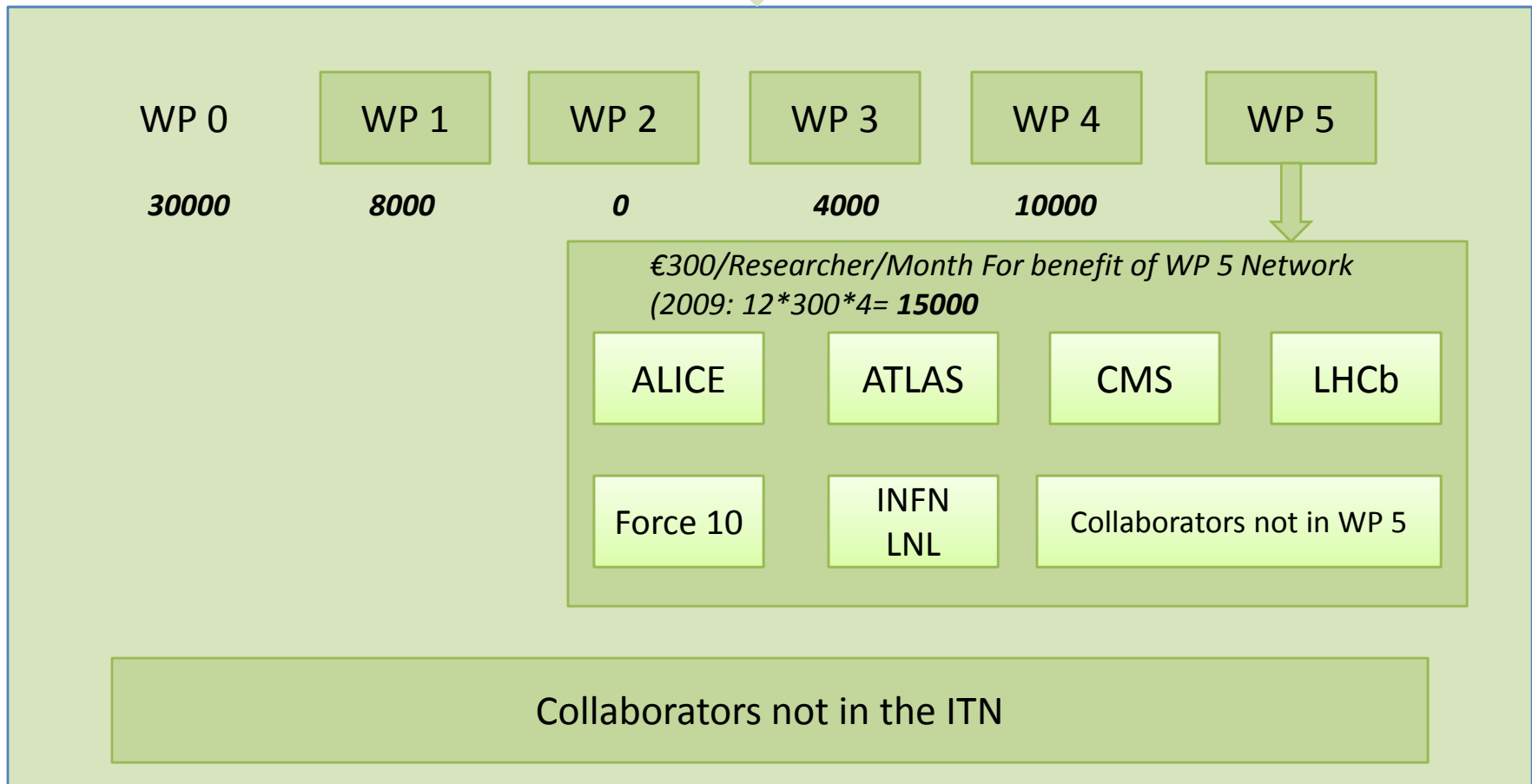
€600/Researcher/Month
For benefit of Network

Conference support
(CHEP, TWEPP)

D

E

F



Use of Category “F” funds – “Contributing to Conferences”

€600/Researcher/Month
For benefit of Network

Conference support

Management Activities

E

F

G

	2009	2010	2011	2012	
TWEPP	▲	▲	▲		3*10'000
IEEE NSS/MIC			▲		1*15'000
CHEP	▲	▲		▲	2*15'000
LHC exps	?	?	?	?	5*5'000
Wrap up				▲	1*5'000

Spending Money Wisely

Every Swiss Franc we spend counts; if we spend less, we can do more...

Researchers have €600/month available to cover all training which includes: conferences, training and secondment. "Top up" for secondment stays of >14 days are paid at ~€1800 (CHF 2800) per month. Can our Associated partners help by finding reasonable accommodation for long stays?

Money will be budgeted on a yearly basis. Spread trips out over the entire contract (in line with CDP).

Sharing the wealth ?

Can we hold courses here at CERN, or in an Associated Partner, where other people can benefit, rather than sending several Researchers to a course outside?



Deliverables part I: Recruitment

Researchers Tasks WPL Sups [Read-Only] [Compatibility Mode] - Microsoft Excel

Home Insert Page Layout Formulas Data Review View Acrobat

Clipboard Font Alignment Number Styles Cells Editing

Server Workbook To modify this workbook, click Edit Workbook. Edit Workbook

A1 Ref

Ref	Type	Task description	W.P.	W.P. leader	CERN Supervisor	CERN Group	Secondment supervisor	Name of researcher	Start date	End date
1	ESR	Pixel (interconnect)	1.1	Michael Campbell	Michael Campbell	PH-ESE		TICK Timo	01 December 2008	30 November 2009
2	ER	Pixel (Xray)	1.2	Michael Campbell	Michael Campbell	PH-ESE	Roelof De Vries	PLACKETT Richard	01 October 2008	31 March 2009
3	ESR	ASIC blocks	2.1	Paulo Moreira	Paulo Moreira	PH-ESE		CARDOSO Jose Pedro	01 June 2009	31 May 2010
4	ESR	Power Management	3.1	Jan Kaplon	Jan Kaplon	PH-ESE		BOCHENEK Michal	01 October 2008	30 September 2009
5	ESR	Opto (PON)	4.1.1	Francois Vasey	Jan Troska	PH-ESE		PAPADOPOULOS Spyridon	01 January 2009	31 December 2009
6	ER	Opto (PON)	4.1.2	Francois Vasey	Jan Troska	PH-ESE		PAPAKONSTANTINOOU Ioannis	01 January 2009	30 June 2009
7	ER	Opto (lasers)	4.2.1	Francois Vasey	Jan Troska	PH-ESE		SILVA Sergio	01 October 2008	30 September 2009
8	ESR	Opto (radiation)	4.3	Francois Vasey	Jan Troska	PH-ESE		SEIF EL NASR Sarah	01 June 2009	31 May 2010
9	ESR	Opto (packaging)	4.4	Francois Vasey	Jan Troska	PH-ESE		VERSMISSEN Hans	01 July 2009	30 June 2010
10	ESR	DAQ ALICE	5.1	Niko Neufeld	Pierre vande Vyvre	PH-AID		TELESCA Adriana	01 November 2008	31 October 2009
11	ESR	DAQ ATLAS 1	5.2.1	Niko Neufeld	Giovanna Lehmann	PH-ADT		MAGNONI Luca		
12	ESR	DAQ ATLAS 2	5.2.2	Niko Neufeld	Brian Martin	PH-ADT		SAVU Dan	01 November 2008	31 October 2009
13	ER	DAQ ATLAS 3	5.2.3	Niko Neufeld		PH-ADT				
14	ESR	DAQ CMS 1	5.3.1	Niko Neufeld	Frank Glege	PH-CMD		HWONG Yi Ling	01 December 2008	30 November 2009
15	ESR	DAQ CMS 2	5.3.2	Niko Neufeld	Frans Meijers	PH-CMD		BUKOWIEC Sebastian	01 May 2009	30 April 2010
16	ER	DAQ CMS 3	5.3.3	Niko Neufeld	Frans Meijers	PH-CMD				
17	ESR	DAQ LHCb	5.4	Niko Neufeld	Niko Neufeld	PH-LBC		GARNIER Jean-Christophe	01 October 2008	30 September 2009
19	VS(>10 yr)	Power Management	3							
20	VS(>10 yr)	Opto (lasers)	4.2							
21	VS(>10 yr)	ASIC blocks	2							
22	VS(>10 yr)	DAQ (fault tolerance)								
23	VS(>10 yr)	Pixel (Xray)	1							
24	VS(>10 yr)	Opto (radiation)	4.3							
25	VS(>10 yr)	Opto (radiation)	4.3							
26	VS(>10 yr)	Opto (PON)	4.1							
27	VS(>10 yr)	Opto (PON)	4.1							
28	VS(>10 yr)	Opto (packaging)	4.4							
29	VS(>10 yr)	Pixel (interconnect)	1							
30										total months recruited
31	Project coordinator		Admin							cat. F allocated
32	Robert McLaren		Seamus Hegarty							

Tasks

Average: 15249.97432 Count: 216 Sum: 1128498.1 75%

Internal D... Yahoo! Me... Calendar ... Re: email t... Work pack... Microsoft ... Microsoft ... 17:26

Deliverables part II: Conferences and workshops

Conference	Duration /Freq.	Focus	Relevant WP	EPs*
CERN school of Computing	10 day / Annual	Training young scientists/engineers in information technology	5	-
Topical Workshop on Electronics for Particle Physics	5 day / Annual	Microelectronics and optoelectronics in physics	1,2,3,4	5
IEEE NPSS Real Time Conference	6 day / Biennial	Real time computing applications in physics, accelerators, medicine and biology	5	-
IEEE NPSS Nuclear Science Symposium and Medical Imaging Conference	8 day / Annual	Instrumentation for physics, imaging and space	1,2,3,4	1.7
Computing in High Energy and Nuclear Physics Conference	5 day / every 18 months	Informatics in particle and nuclear physics.	5	3.3
Medipix	1 day / Triannual	Pixel detectors in Medical applications	1	-
LHC Expts + wrap-up	Variable	Hardware & software in LHC expts.	1,2,3,4,5	3.3
Total				13.3



Computing in High Energy and Nuclear Physics

Prague | Czech Republic | 21 - 27 March 2009

Bulletin 3

INTRODUCTION

This bulletin includes information on registration and student support possibilities. The CHEP2009 conference dates are Monday–Friday, 23–27 March 2009. The WLCG workshop will take place prior to the conference on Saturday & Sunday, 21–22 March 2009.

CONFERENCE NEWS

More than 490 abstracts have been submitted and are being reviewed by the Programme Committee (PC). Only part of such a large number of contributions can be presented orally. We plan to receive the decision of the PC by the second week of December.

The poster sessions have proven to be very productive in the past CHEP conferences and we plan to give them special emphasis, too. We plan to have three poster sessions with at least 1 hour allocated in the morning parts of the conference programme. Each poster will be assigned to one of the three sessions and the authors will be required to attend their session/s.

EARLY REGISTRATION

STUDENT SUPPORT

We are happy to announce an offer from the ACEOLE project to support students having problem to finance their CHEP2009 attendance.

ACEOLE is a Marie Curie Action at CERN, funded by the European Commission under the 7th Framework Programme. Marie Curie Actions are aimed principally at training young researchers. The ACEOLE project covers the fields of data acquisition, electronics, and opto-electronics and will run until 30 September 2012.





Deliverables part III: Visiting Scientists

Associated Partner	Visiting Scientist	Visit length (months)	W.P. for research & TOK	Training topic	No. training hours
AGH	Senior Physicist	1	3	Architectures, performance requirements and limitations to implementing front-end electronics for silicon tracking detectors at the SLHC and/or other relevant topics	10
INESC	Senior Engineer	2	4.2	Optical sources (laser diodes, EOM, EAM); Device characterization & fibre optic measurement techniques. Extraction of laser diode parameters. S-parameters/ network analyzer measurements.	6
INESC	Senior Engineer	1	2	Redundancy & DFT & BIST techniques of RF, analogue & mixed-signal ASICs; Dynamic characterization of A/D converters.	6
LNL Legnaro	Senior Applied Physicist	3	5	Control and monitoring of large and widely distributed systems.	15
PANalytical	Senior Engineer	1	1	Principles and techniques of x-ray materials analysis using diffraction and fluorescence.	10
SCK.CEN	Senior Engineer	1 + 1	4.3	Reliability and radiation-tolerance qualification of optoelectronics components for extremely high dose applications	8
UCL	Senior Engineer	1	2 + 4.1	Network architecture, traffic, switching; Optical networks & topologies, Optical network standards, WDM networks & technologies. Communications circuits and ASIC design.	10
UCL	Senior Engineer	1	4.1	Core & access optical networks, Multiplexing technologies, transmission technologies, switching technologies, Devices & implementation, Network performance & measurements, optical networks for radio applications.	10
VTT	Senior Engineer	2	4.4	Photonic packaging and integration.	8
VTT	Senior Research Engineer	1	1	High-density array interconnect technology, Heterogeneous integration by direct silicon wafer bonding	3

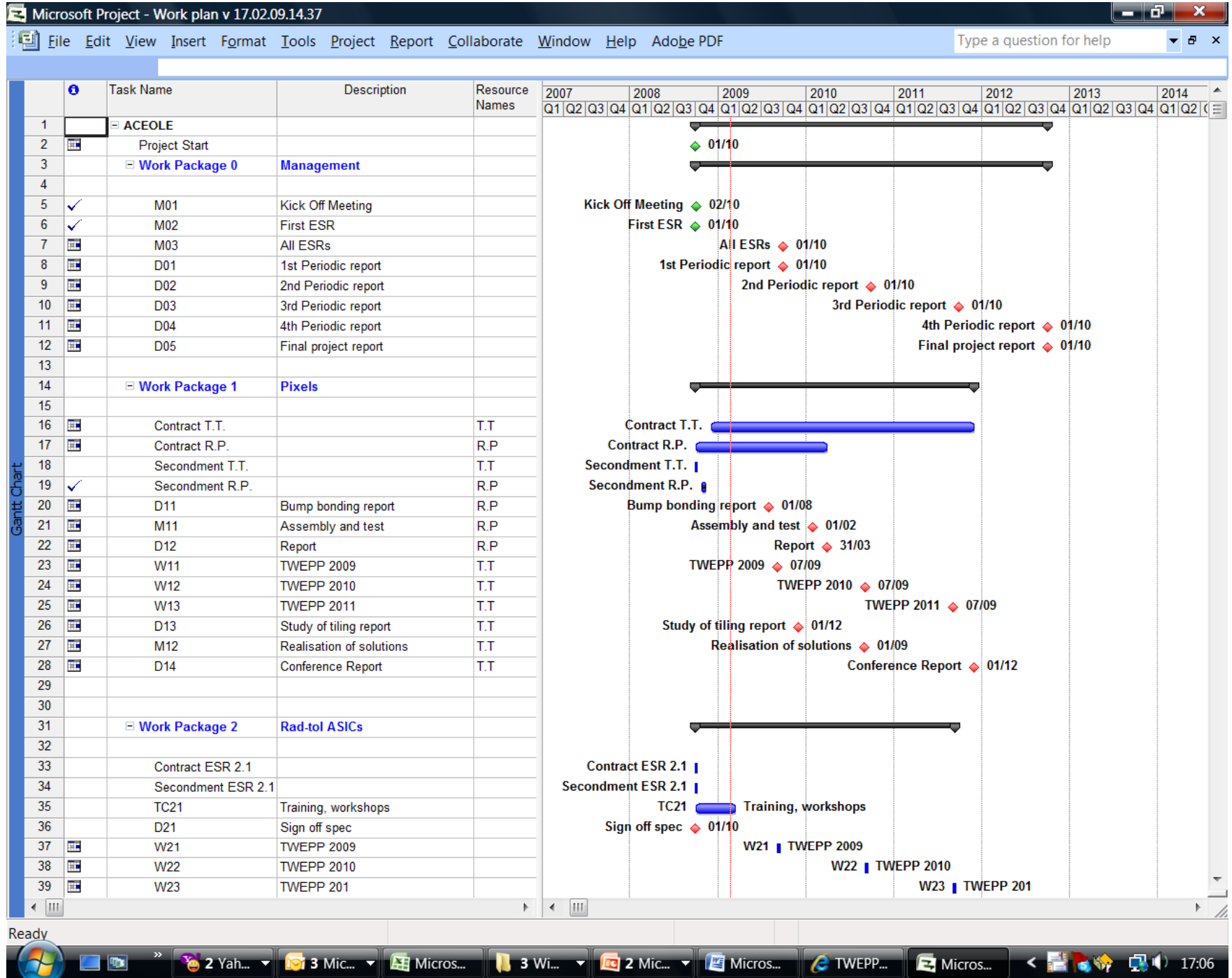
ACEOLE Associated Partners and Visiting Scientists

WP#	WP	WPL	Associated Partner	Contacts	Name of Scientist(s)	Months	Hours	Dates
1	Pixel Detectors	Michael Campbell	PANalytical BV	Dr. Johannes Bethke Peter Munk		1	10	
			VTT (Espoo)	Dr. Ilkka Suni		1	3	
2	ASIC blocks	Paulo Moreira	INESC Porto	Dr. Henrique Salgado Dr. Jose Machado da Silva		1	6	
3	Powering	Jan Kaplon	AGH, University of Science and Technology, Krakow	Prof. Wlodek Dabrowski		1	10	
4	Optoelectronics	Francois Vasey	UCL	Prof. Izzat Darwazeh Dr John Mitchell		1	10+10	
			INESC Porto	Dr. Henrique Salgado		2	6	
			SCK.CEN	Dr. Marco van Uffelen		2	8	
			VTT (Oulu)	Prof. Pentti Karioja		2	8	
5	Data Acquisition	Niko Neufeld	Force10 Networks Inc.	Dr. Joel Goergen (chief R&D scientist) Michael Augustine Sales/(Appl. Eng.) Angela Muscat (Buss. development)			DAQ workshops?	
			INFN Legnaro	Dr. Gaetano Maron		3	15	

ACEOLE Associated Partners and Secondment

WP#	WP	WPL	Associated Partner	Seconded researcher	Contacts	Secondment months	Secondment supervisor	Dates
1	Pixel Detectors	Michael Campbell	PANalytical BV	Richard Plackett	Dr. Johannes Bethke	3		Oct-Nov 08
			VTT (Espoo)		Peter Munk Dr. Ilkka Suni	6		
2	ASIC blocks	Paulo Moreira	INESC Porto		(Dr. Henrique Salgado) Dr. Jose Machado da Silva	11		
3	Powering	Jan Kaplon	AGH, University of Science and Technology, Krakow		Prof. Wlodek Dabrowski	9		
4	Optoelectronics	Francois Vasey	UCL	Spyros Papadopoulos	Prof. Izzat Darwazeh	9		Jan-Mar 09
			INESC Porto	Sergio Silva	Dr. John Mitchell	9		Dec 08; Feb 09
			SCK.CEN		Dr. Henrique Salgado	9		
			VTT (Oulu)		Dr. Marco van Uffelen	4		
5	Data Acquisition	Niko Neufeld	Force10 Networks Inc.	Jean-Christophe Garnier, Dan Savu	Dr. Joel Goergen (chief R&D scientist)	2 x 1		t.b.c.
					Michael Augustine Sales/(Appl. Eng.)	2 x 1		
					Angela Muscat (Buss. development)	1		
						1		
			INFN Legnaro		Dr. Gaetano Maron			

Deliverables



Other events and information:

Monthly events

Activity reports

Trip request and report

Coffee mornings with all ACEOLE MCs

ACEOLE Management Committee *(PC and WPL) meeting Thursday 28th May?*

ACEOLE Twelve Month Meeting

Thursday 1st October

More focussed on Admin and Deliverables.

