



Collaboration Meeting



José Repond
Argonne National Laboratory



CALICE Collaboration Meeting
DESY, Hamburg, Germany
March 20 – 22, 2013



Originally, meeting should have been hosted by **Argonne**

Thanks to **Erika, Marco, UH and DESY** for their offer to host it
(on relatively short notice)

And thanks for **everyone** for coming



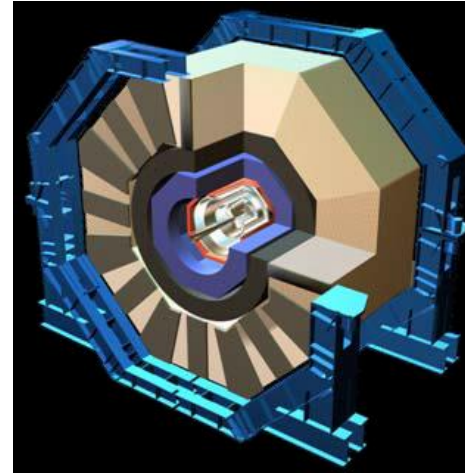
General News

Spokesperson of SiD Detector Concept

John Jaros and Harry Weerts step down
Andy White stays on
Marcel Stanitzki joins as co-spokesperson

ILC Reports

Machine TDR completed on December 15, 2012
Detector Detailed Baseline Design (DBD) now available (**Please, sign!**)



INTERNATIONAL LINEAR COLLIDER
Technical Design Report - Volume 3

Physics and Detectors
Detailed Baseline Design

2012

General News

ILC in Japan?

Hitoshi Yamamoto at HEPAP (March 11, 2013)

Support for the ILC?

Europe strategy document

The initiative from the Japanese particle physics community to host the ILC in Japan is most welcome, and European groups are eager to participate. Europe looks forward to a proposal from Japan to participate.

Sally Dawson (BNL) at HEPAP

The LHC accelerator and detector upgrades and the 500 GeV ILC in Japan can address these questions in complementary fashions and are absolutely central to progress in HEP

Possible Timeline

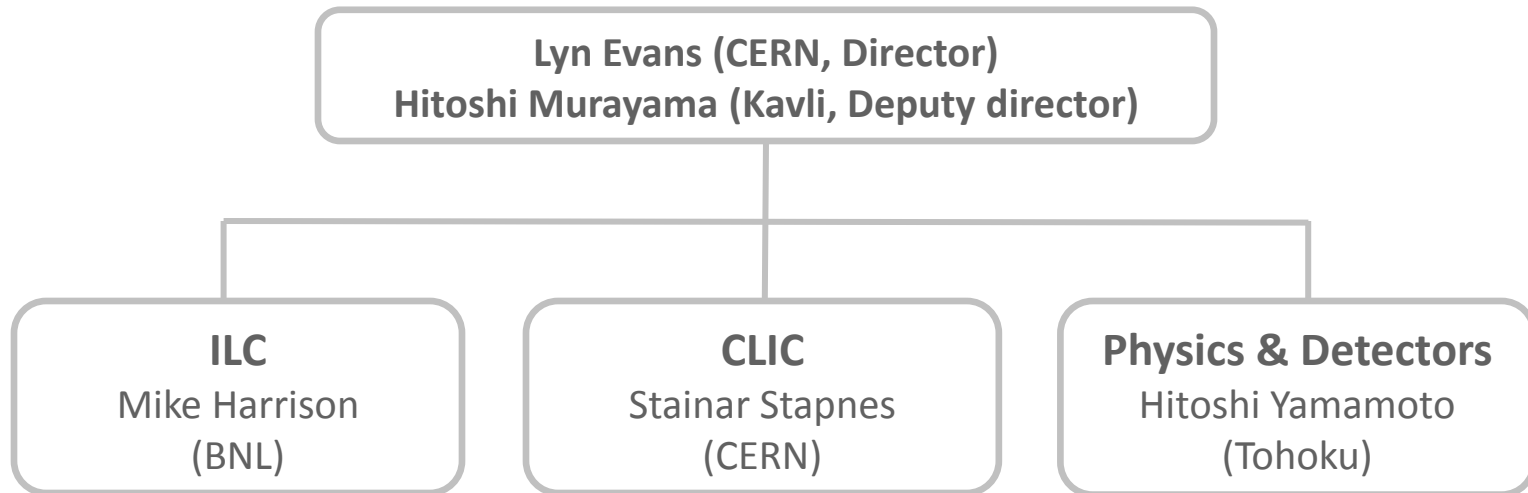
- July 2013
 - Non-political evaluation of 2 Japanese candidate sites complete, followed by down-selecting to one
- End 2013
 - Japanese government announces its intent to bid
- 2013~2015
 - Inter-governmental negotiations
 - Completion of R&Ds, preparation for the ILC lab.
- ~2015
 - Inputs from LHC@14TeV, decision to proceed
- 2015~16
 - Construction begins (incl. bidding)
- 2026~27
 - Commissioning

General News

Linear Collider Collaboration



Vancouver, 21 February 2013. The two most mature future particle physics projects, the International Linear Collider (ILC) and the Compact Linear Collider study (CLIC), have formed an official organisational partnership today. As the newly founded Linear Collider Collaboration, they will coordinate and advance the global development work for the linear collider, a global project to complement the Large Hadron Collider (LHC) at CERN and ultimately understand the deepest secrets of the universe. The Linear Collider Collaboration is headed by Lyn Evans, former Project Manager of CERN's Large Hadron Collider (LHC). Hitoshi Murayama, Director of the Kavli Institute for the Physics and Mathematics of the Universe, will serve as a deputy director.



Conferences

- Recent conferences
 - TWEPP 2012 Topical Workshop on Electronics for Particle Physics (Oxford, 17-21 September 2012) **1 CALICE talk**
 - LCWS12 International Workshop on Future Linear Colliders (University of Texas at Arlington; Oct. 22 - Oct. 26, 2012) **18 talks by CALICE members**
 - 2012 IEEE Nuclear Science Symposium (Disney Hotel, Anaheim, California, 29 October - 3 November 2012) **11 talks by CALICE members + 4 at special IEEE Linear Collider event**
 - CLIC2013 (CERN, Jan. 28 - Feb. 1, 2013) **8 talks by CALICE members**
 - VCI2013 13th Vienna Conference on Instrumentation (Vienna, 11-15 February 2013) **2 CALICE talks were accepted (more were submitted)**
- Forthcoming conferences.
 - CHEF2013 Calorimetry for High Energy Frontier (Paris; 22-25 April 2013)
 - ~14 abstracts submitted; all accepted (some merging//shuffling sessions)
 - ECFA LC2013 (DESY Hamburg 27-31 May 2013)
 - EPS-HEP 2013 (Stockholm 18-24 July 2013) *Deadline for abstracts 8 April.*
 - 4th ICATPP Conference (Villa Olmo, Como 23-27 September 2013)

Slide from David Ward



CHEF 2013

Calorimetry for the High Energy Frontier

CALORIMETERS : from LHC, Tevatron to HL-LHC, ILC, CLIC

22-25 april 2013, Paris

Program Committee

Makoto ASAI (SLAC)
 Philippe BLOCH (CERN)
 Jean Claude BRIENT (Chair)
 Frédéric MACHEFERT (LAL)
 Bruno MANSOULIE (IRFU/CEA)*
 Joachim MNICH (DESY)
 José REPOND (ANL/DOE)
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 Tomio KOBAYASHI (ICEPP/Univ. of Tokyo)

*Local OC

Contact :
CHEF2013.secretariat@llr.in2p3.fr
<http://llr.in2p3.fr/chef2013>

Status of papers

- **Since last Collaboration meeting:**
 - **Hadronic energy resolution of a highly granular scintillator-steel calorimeter using software compensation techniques** ; [2012 JINST 7 P09017](#) ; Arxiv 1207.4210
- **Active EBs for papers:**
 - Track Segments in AHCAL (**Weuste, Simon**)
 - **Out for Collaboration review**
 - AHCAL shower shapes (**Garutti, Feege, Marchesini**)
 - **Just about ready for submission**
 - Construction and beam tests of a tungsten calorimeter read out using scintillator strips (**Coterra, Uozumi, Takeshita ...**)
 - **Progress?**
 - Performance of a CALICE Scintillator-Strip Electromagnetic Calorimeter First Prototype (**Uozumi**)
 - **First draft has has been reviewed**

Slide from David Ward



Analysis notes

- *CAN037* SdHCAL Analysis Results
 - [Approved for LCWS12](#)
- *CAN038* T3B timing results – update for LCWS/IEEE
 - [Approved for LCWS12](#)
- *CAN039* First W-DHCAL results
 - [Approved for LCWS12](#)
- *CAN040* Proton results from AHCAL ([Marina Chadeeva](#))
 - [Under review – aiming for CHEF](#)
- *CAN041* Uniformity of pion response in AHCAL ([Mathias Götze](#))
 - [Under review](#)
- *CAN042* New DHCAL analysis results ([Burak Bilki](#))
 - [Under review – aiming for CHEF](#)
- *CAN043* New T3B results (WDHCAL, FastRPC) ([Simon](#), [Weuste](#), [Szalay](#))
 - [Board just set up – aiming for CHEF](#)

Slide from David Ward



Conversion of CANs to papers?

- The following are still pending:
 - CAN012 (SCEcal small DESY test) – Paper under review (S.Uozumi).
 - CAN017 (ECAL position/angle resolution) – probably needs more work, but author no longer in CALICE.
 - CAN023 (Hough transform) worth publishing (Fehr).
 - CAN030-032, 039 (DHCAL) analysis still ongoing (Repond et al)
 - CAN037 (SDHCAL) analysis still ongoing (Laktineh et al)
 - CAN033, 038 (T3B) likewise (Simon et al).
 - CAN036 (WHCAL) publish including more data? (CERN group)

Slide from David Ward



New at this meeting

Discussion session on Friday

Open for any topic which should be discussed by the collaboration as whole
So far: **Guidelines** for obtaining preliminary status

Project overviews

Leaders of each project have been asked to provide a concise overview of plans for their project

Presentations given as part of respective session



Felix's achievements

Felix served as spokesperson from 2009 to 2013

In this period and under Felix's leadership, CALICE

- Built two large, hadron calorimeter prototypes (DHCAL and SDHCAL)
- Collected millions of events at DESY, CERN, FNAL
- Completed the first round of test beam campaigns
- Published 7 papers in refereed journals
- Became a **household name** (in HEP circles)



ENJOY THE MEETING

