

Around the World

A tunnel for (module) dummies
The XFEL mock-up tunnel helps scientists practice for the real thing



Almost like the real thing: the mock-up tunnel for the European XFEL. By the way, the klystron and transformer are made of wood. Photo: DESY

It feels like the real accelerator tunnel, but it's only building 71 at DESY in Hamburg. It's basically a tube made of concrete, 51 metres long and 5.20 metres in diameter. One accelerator module hangs from the top of the tube, water pipes, cable trays and ventilation ducts are installed and other accelerator parts stand around on the tunnel floor. All these are dummies, some even made of wood, but they are life-size dummies in building 71: the [European XFEL](#) mock-up tunnel. [Read more...](#)

-- Jan Dreyling-Eschweiler, DESY

Calendar

Upcoming meetings, conferences, workshops

[Positron Source Meeting](#)
 Daresbury Laboratory, UK
 29-31 October 2008

[SiD Meeting at LCWS08](#)
 University of Illinois at Chicago,
 Chicago, USA
 15 November 2008

 [International Linear Collider Workshop \(LCWS08 and ILC08\)](#)
 University of Illinois at Chicago,
 Chicago, USA
 16-20 November 2008

 = Collaboration-wide Meetings

Feature Story

Linear collider collaborations meet

Project manager Marc Ross reports from CERN



Participants of CLIC08 meeting at CERN

The ILC-CLIC (International Linear Collider - Compact Linear Collider Study) collaboration was started [earlier this year](#) at CERN. It consists of five working groups which are led by conveners from both projects. Collaboration mandates and activities were defined with an eye toward this autumn's workshops: the [CLIC08 workshop](#), held at CERN from 14 to 17 October and the [ILC-LCWS08](#), to be held in the middle of next month in Chicago. CLIC08 was the first time the group met face to face since the collaboration and its working groups were established. The collaboration is intended to serve two basic purposes: firstly to allow a more efficient use of resources, especially engineers, and secondly to promote communication between the two project teams. Of course, face-to-face meetings tend to be more effective than tele-conferencing, so many excellent opportunities for direct, informal, discussion arose between the two teams and we made good progress toward our second purpose. Since the framework of the meeting was the CLIC08 workshop, the agenda naturally focused on CLIC challenges and plans with specific collaboration highlights having a key, but minor overall role. [Read more...](#)

-- Marc Ross

In the News

From *Interactions.org*
 30 October 2008
New Director-General for DESY
 Professor Helmut Dosch will become the new Chair of the Directorate of the Research Centre DESY.(...) as

Director's Corner

Progress in the SCRF technical area

Today's issue features a Director's Corner from Akira Yamamoto, Project Manager for the Global Design Effort.



Cross section of the S1-Global cryomodule assembly.

As one of Project Managers for the ILC I has been given the current task of overseeing superconducting radiofrequency technology (SCRF) in August 2007, and it may be a good time to see how our SCRF technical area could make some progress with global cooperation. [Read more...](#)

-- Akira Yamamoto

[Director's Corner Archive](#)

Image of the Week

Cavity in the shower



Preparation work is in progress at KEK for electro-polishing of cavity AES #001. AES #001 is a 9-cell cavity on loan to KEK from FNAL. This is the first instance of serious operation of the EP system at KEK STF. A performance validation of the electropolished cavity will be made at a vertical test stand. The photo shows the chemical polishing process

[GDE Meetings calendar](#)

[View complete ILC calendar](#)

member of the German Council of Science and Humanities, he evaluated the TESLA/XFEL project which later developed into the European X-ray laser project XFEL and the International Linear Collider ILC.

[Read more...](#)

From *Nature News*

29 October 2008

How to repair the biggest science experiment in the world

...The key to preventing a similar disaster will be detecting faults in time, Rossi says. The enormous currents inside the LHC cannot simply be switched off, as it takes around a minute for heating coils and bypass circuits to dissipate the power contained inside the magnets...

[Read more...](#)

From *Ria Novosti*

24 October 2008

Large Hadron Collider inaugurated

...The LHC will be used for colliding opposing beams of protons. Scientists are already discussing construction of a new-generation International Linear Collider (ILC) which will be far more powerful than the LHC.

[Read more...](#)

on flanges of the cavity prior to electro-polishing. The crew is water-rinsing the inside of the 9-cell cavity, proceeding with chemical polishing the flanges on the other side. Photo: Nobu Toge, KEK

Announcements

ILC Report

[2008-015](#)

Technology Benefits Deriving from the International Linear Collider

arXiv preprints

[0810.4831](#)

Determination of Wtb anomalous coupling at the ILC

[0810.4381](#)

Enhanced production of TeV right-handed neutrinos through the large magnetic moment

[0810.4365](#)

One-loop QCD and electroweak corrections to $t\text{-}tbar Z^0$ production at an e^+e^- linear collider