

## Feature Story

### Mapping the future

*Theorists and experimentalists meet at CERN to discuss future colliders*



The LHC will sail into uncharted territory – other colliders will follow it.

When talking about what they know and what they want to find out, physicists like to speak about 'landscapes'. There are the well-charted lands of the Standard Model and undiscovered territories like the Terascale – a region that the Large Hadron Collider LHC at CERN will enter when protons start colliding in autumn. With the LHC and its eventful proton-proton collisions scientists expect a whole range of signatures of expected and new physics, and they will need a machine to follow up on these to get a clearer view. In February, a group of more than one hundred theorists and experimentalists met at CERN for three weeks. Their goal was to outline the landscapes they may find with data from the LHC and to develop strategies for how to pick the right tools for the coming expedition. [Read more...](#)

-- Barbara Warmbein

## Calendar

### Upcoming meetings, conferences, workshops

[Technology and Instrumentation in Particle Physics \(TIPPO9\)](#)

Epocal Tsukuba, Tsukuba, Japan  
12-17 March 2009

[Joint ACFA Physics and Detector Workshop and GDE Meeting on International Linear Collider \(TILCO9\)](#)

## Around the World

### Detector developers meet in Korea



Group photos of the ILC workshop attendees on the Ewha Campus Complex in Seoul, Korea

In mid February detector scientists from around the world met in two subsequent detector meetings held in Korea: the ILD (International Large Detector) Workshop at Ewha Campus Complex in Seoul from 16 to 18 February and the CALICE (Calorimeter for the Linear Collider Experiment) Collaboration Spring Meeting at Kyungpook National University in Daegu from 19 to 20 February. [Read more...](#)

-- Misato Hayashida

## Image of the Week

### Passing the Staffelstab



Batons, keys, bells and an on-stage painting session in a historic experimental hall: on Monday DESY said good-bye to Albrecht Wagner, hello to Helmut Dosch and happy birthday to each other. After two five-year terms in office, the chairman of the Board of Directors Albrecht Wagner handed over to solid-state physicist and former Director of the Max Planck Institute for Metals Research in Stuttgart Helmut Dosch. The handover ceremony doubled as

## Director's Corner

### ILC R&D plan updated



We characterise the present period of the Global Design Effort activities as a four-year programme to prepare ourselves to be ready to propose a well conceived ILC construction project to collaborating governments by around 2012. The technical description of our R&D programme to achieve this goal is summarised in the document "[ILC Research and Development Plan for the Technical Design Phase.](#)" This is a 'living' document, in the sense that we are updating it every six months to maintain a current description of our programme, goals and resources. We have just published the third release of this document in February. It is both an update and contains more complete descriptions of some of our work. [Read more...](#)

-- Barry Barish

[Director's Corner Archive](#)

## Announcements

### Apply now for ILC calorimetry school

You have ten days left to apply for the [school on calorimetry](#) at the International Linear Collider that will take place in Beijing, China, from 22 to 26 April. The course of the lectures will cover all aspects of the calorimeters which are currently under design for the detectors to be operated at the ILC. The school is intended for students at master level. Although mainly addressed to students from China, participants from other countries of the [ACFA](#) study are also welcome (up to 15 students from these countries can be

Tsukuba, Japan  
17-21 April 2009

[Particle Accelerator Conference 2009 \(PAC09\)](#)

Vancouver, Canada  
4-8 May 2009

#### Upcoming schools

[Spring School on Strings, Cosmology and Particles \(SSSCP2009\)](#)

Belgrade, Serbia  
31 March - 4 April 2009

[School on Calorimetry at the International Linear Collider](#)

China Center of Advanced Science and Technology, Beijing, China  
22-26 April 2009

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[GDE Meetings calendar](#)

[View complete ILC calendar](#)

kick-off event to the lab's anniversary year – DESY was founded in 1959.  
[Read more](#)

#### In the News

From *Libération*  
3 March 2009

##### **Au plus près du big-bang**

Planck, le télescope européen qui sera lancé mi-avril, devrait permettre de retrouver l'enfance de l'Univers par l'analyse du rayonnement fossile émis trois cent mille ans après le big-bang.

[Read more...](#)

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From *The Times*  
2 March 2009

##### **Portrait of a man at the beginning of time**

The portrait by Ken Currie shows the professor who, 45 years ago, postulated the existence of the particle known more properly as the Higgs boson which gives mass to all things in the Universe.

[Read more...](#)

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From *the Cern Bulletin*  
27 February 2009

##### **The Latest from the LHC**

In total 27 magnets have been completed so far, with 34 nozzles welded.

[Read more...](#)

invited). Send your application and a letter of reference until 15 March to [Yuanning Gao](#) and [Roman Poeschl](#).

#### ILC Note

[2009-049](#)

Polarimeters and Energy Spectrometers for the ILC Beam Delivery System

#### arXiv preprints

[0902.4665](#)

Models of Yukawa interaction in the two Higgs doublet model, and their collider phenomenology

[0902.4461](#)

Implications of a Scalar Dark Force for Terrestrial Experiments

#### EUROTeV Reports

[2008-010](#)

Development of a High Power Fibre Laser for Laser Based Electron Beam Diagnostics

[2008-048](#)

Beam Impact Studies on ILC Collimators

[2008-054](#)

High Bandwidth Wall Current Monitor