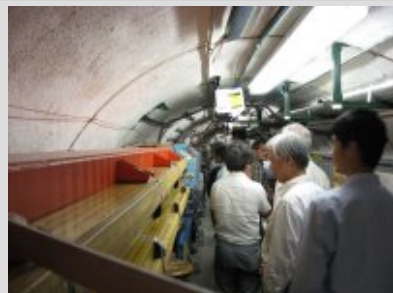


Around the World

Damping starts this week

CesrTA kick-off meeting marks the beginning of the damping ring test programme



Meeting participants tour the transforming CESR ring.

There may not have been a ribbon-cutting ceremony or speeches by heads of state. But the official kick-off of Cornell University's CESR storage ring as ILC damping ring test facility pleased the nearly 40 participants at this week's "[Joint CesrTA Kickoff Meeting and ILC Damping Rings R&D Workshop \(ILCDR08\)](#)" enormously. "CesrTA will give us a detailed picture of the how electron cloud builds up under a range of conditions, of how an ultra-low emittance positron beam interacts with the electron cloud, and of how beam instabilities driven by the electron cloud develop," says Andy Wolski, damping ring group leader based at the Cockcroft Institute in the UK. "In this respect CesrTA plays a critical role in validating the decision to reduce costs by eliminating the second positron damping ring." [Read more...](#)

-- Barbara Warmbein

Calendar

Feature Story

Rolf Heuer's vision of particle physics in Europe



Rolf Heuer giving a personal view of the future at last ILC-ECFA Workshop in Warsaw. Photo: Nobu Toge.

The future Director-General of CERN Rolf Heuer, currently Research Director at DESY, presented his personal vision of the future of particle physics in Europe at the [ILC-ECFA meeting](#) in Warsaw, Poland. Heuer emphasised the exciting times the community is now entering with the LHC

start-up. The exploration of our mysterious "Dark Universe" is the main motivation for present and future astronomy and particle physics projects, and with the LHC and its highest collision energy ever, we are on the verge to explore it. After reviewing many possible scenarios and options for the after-LHC phase, Heuer said he hoped that particle physics research will continue with the same momentum for future projects, in particular for a future e^+e^- collider. He hopes that the community will make use of these exciting times to establish a sustainable and global partnership between the labs, "of which CERN could be the catalyst."

[Read the full interview with Rolf Heuer...](#)

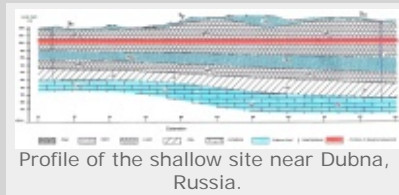
-- Perrine Royole-Degieux

[link to ECFA 2008 talk](#)

In the News

Director's Corner

The proposed Russian ILC site



One of the most difficult and tricky issues for the Global Design Effort in carrying out our design work is how to approach the siting issue for the ILC before proposals are actually solicited for hosting the machine. Conventional facilities are a major part of the project, accounting for almost one third of the total costs. Therefore, in order to bring as much reality to our reference design as possible, we asked for and studied three "sample sites," one from each region. In carrying out the reference design, regional subgroups that worked in parallel and were coordinated by our Conversional Facilities and Siting (CFS) group studied these sites. Since all three of our sample sites were deep sites about 100 metres underground, one of the questions that we postponed but flagged as important to study in the next phase were the comparative advantages and disadvantages of shallow sites. One specific example of a shallow site has been suggested to us by our Russian collaborators. We got a first look at this interesting site near Dubna, Russia, during our [GDE meeting](#) last month. [Read more...](#)

-- Barry Barish

Director's Corner Archive

Announcements

Upcoming meetings, conferences, workshops

[Joint CesrTA Kickoff Meeting and ILC Damping Rings R&D Workshop \(ILCDR08\)](#)

Cornell University, USA
8-11 July 2008

[34th International Conference on High Energy Physics \(ICHEP'08\)](#)

Philadelphia, USA
29 July - 5 August 2008

[Conference on the Design/Optimization of the Silicon Detector at the International Linear Collider](#)

University of Colorado at Boulder, Colorado, USA
17-19 September 2008

Upcoming school

[Third International Accelerator School for Linear Colliders \(2008 LC School\)](#)

Oak Brook, Illinois, USA
19-29 October 2008



= Collaboration-wide Meetings

[GDE Meetings calendar](#)

[View complete ILC calendar](#)

From *Nature*
8 July 2008

Spending plan appeases UK physicists

...The council will still forgo participation in the International Linear Collider, for example, but will set aside £1 million pounds for research and development into something similar, and £10 million a year for advanced accelerators.

[Read more...](#)

From *The Herald News*
6 July 2008

Fermilab celebrates its good fortune

If the sign declaring "Fermilab is back!" didn't get the message across, the auditorium packed with lab employees sure did.

[Read more...](#)

From *Le Monde*
4 July 2008

Deux collisionneurs sont déjà à l'étude pour succéder au LHC vers 2025

...Ils savent en effet que le LHC ne suffira pas à percer tous les secrets de la matière. Si, par chance, le mystérieux boson de Higgs, dont la théorie prédit qu'il donne leur masse aux choses, y est découvert, un instrument plus performant sera nécessaire pour connaître ses propriétés. Deux projets concurrents sont à l'étude : le Collisionneur linéaire international (ILC) et le Collisionneur linéaire compact (CLIC).

[Read more...](#)

From *Pour la science*
July 2008

L'ILC, collisionneur de prochaine génération

Après le grand accélérateur circulaire du LHC au CERN, sur le point de fonctionner, les physiciens des particules ont prévu de construire une machine plus puissante encore. Elle sera linéaire.

[Read more...](#)

From *Physics World*
3 July 2008

UK physics funding plans are approved

...This includes UK involvement with the International Linear Collider (ILC) — the next big particle-physics facility after CERN's Large Hadron Collider.

[Read more...](#)



国际直线对撞机

Ni hao ! The translated version of [The International Linear Collider - Gateway to the Quantum Universe](#) has just come out in Chinese. More languages will follow. Order your Chinese copy [here](#).

arXiv preprints

[0807.1188](#)

A 4th generation scenario

[0807.0669](#)

Complete one-loop electroweak corrections to ZZZ production at the ILC

[0807.0663](#)

The Triple Higgs Boson Self-Coupling at Future Linear e^+e^- Colliders Energies: ILC and CLIC