

Around the World

New SCRF test facility at Oak Ridge



The SNS' cryomodule 19 in the test stand just after commissioning and fully qualifying it for the accelerator.

At first glance a neutron source used for materials research and a planned particle accelerator to answer questions about matter, forces and the origins of the Universe might not seem to have all that much in common. At least not to the non-accelerator experts among us. At second glance, however, similarities and overlaps appear that turn the Spallation Neutron Source (SNS) at [Oak Ridge National Laboratory](#) in the US into a small but powerful parallel experience for the ILC. [Read more...](#)

-- Barbara Warmbein

Calendar

Upcoming meetings, conferences, workshops

[SiD Workshop](#)
SLAC
28-30 January 2008



[TILCO8](#)

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

Sendai
3-6 March 2008

[Positron Source Meeting](#)
DESY Zeuthen, Germany
7-9 April 2008

Around the World

Attract a younger generation



TPC expert Ron Settles discusses with students.

From 7 to 11 January, the first school on the Time Projection Chamber (TPC) technology was held at the China Center for Advanced Science and Technology (CCAST) in Beijing. Over 50 students, young scientists and senior researchers from Asia and the rest of the world gathered to learn and discuss about TPC Technology for the International Linear Collider. [Read more...](#)

-- Rika Takahashi

In the News

From *BBC*
22 January
UK physics has 'brighter future'
... Another is the R&D work on the International Linear Collider, a giant machine that is intended to take our knowledge of particle physics to a higher level. [Read more...](#)

From *interactions*
22 January
CMS celebrates the lowering of its final detector element
... It marks the culmination of eight years of work in the surface hall, and moves CMS into final commissioning before registering proton-proton collisions at the LHC. [Read more...](#)

Director's Corner

Common fund



Maxine Hronek, GDE Administrative Assistant and Maura Barone, GDE Web Specialist are both supported through the Global Design Effort common fund.

Our work for the ILC is made up almost entirely of in-kind R&D efforts, coordinated and prioritised through the Global Design Effort. A small but very important element which enables the GDE to carry out its central function is the GDE common fund. It was created and is monitored by the Funding Agencies for Large Colliders (FALC) and the FALC Resource Group. I am pleased to report today that the GDE common fund for 2008 has been approved at FALC and will be fully funded internationally, including by the U.S. and U.K. and pending working out some details regarding individual contributions. We are very pleased by this positive development. It is an encouragement, especially in light of the funding cuts in the UK and US. [Read more...](#)

-- Barry Barish

[Director's Corner Archive](#)

Image of the Week

[Energy Polarization Workshop](#)

DESY Zeuthen, Germany
9-11 April 2008

[SID Workshop](#)

RAL
14-16 April 2008

[Workshop on High energy photon collisions at the LHC](#)

CERN, Geneva
21-25 April 2008

[ICFA NANOBEAM Workshop](#)

(NANOBEAM-08)

[Announcement](#)

Budker INP, Novosibirsk, Russia
25-30 May 2008

Upcoming schools

[US Particle Accelerator School](#)

UC at Santa Cruz
14-25 January 2008



= Collaboration-wide Meetings

[GDE Meetings calendar](#)

[View complete ILC calendar](#)

From *physicsworld.com*

22 January

Hopes for UK funding-cut reversal dashed

... However, physicists' hopes that the review will lead to the cuts being reversed took a knock yesterday, when Keith Mason, chief executive of the STFC, told the House of Commons Select Committee on Innovation, Universities and Skills that "the review is a valuable exercise but it was never intended to address the current situation."

[Read more...](#)

From *Research Councils UK*

21 January

Research Councils UK launches review of physics

Research Councils UK (RCUK) today began a fundamental review of the strength and role of UK physics under the chairmanship of Professor Bill Wakeham, Vice Chancellor of the University of Southampton.

[Read more...](#)

From *Scientific American*

February 2008

Special Report: The Future of Physics

They call it the terascale. It is the realm of physics that comes into view when two elementary particles smash together with a combined energy of around a trillion electron volts, or one tera-electron-volt.

[Read more...](#)

From *Scientific American*

February 2008

Building the Next Generation Collider

To further investigate the intricacies of high-energy particle physics, researchers must construct a more powerful electron-positron colliderscience cities

[Read more...](#)

From *New Scientist*

19 January

Commentary: The end of frontier science?

THE toll of war is beginning to affect progress in science back home. (subscription required)

[Read more...](#)

Cryomodule showtime



More than 80 experts on superconducting radiofrequency technology and all things that depend on it met last week at DESY in Hamburg for their regular TESLA Technology Collaboration (TTC) meeting. A tour of the cryomodule test bench, assembly hall and cavity treatment stations at DESY was part of the programme.

Announcements

Register for TILC08

The registration deadline for the Sendai [ILC ACFA/GDE meetings \(TILC08\)](#) is about two weeks away.

The organisers encourage you to [register](#) as soon as possible, particularly if you need to obtain a visa to enter Japan. (Registration before the deadline ensures discount for the accommodation.)

arXiv preprints

[0801.344](#)

Heavy Dark Matter Through the Higgs Portal

[0801.3359](#)

PHANTOM: a Monte Carlo event generator for six parton final states at high energy colliders

[0801.2415](#)

Challenge of polarized beams at future colliders

[0801.2414](#)

LHC/ILC Interplay in SUSY Searches

[0801.2399](#)

(No) Eternal Inflation and Precision Higgs Physics

EUROTeV Reports

[2007-014](#)

Photon Production at the Interaction Point of the ILC

[2007-031](#)

Electromagnetic Background Tests for the ILC Interaction-Point Feedback System

[2007-036](#)

From *New Scientist*

19 January

Physics reels as the financial axe falls

DO OTHER planets like Earth exist? Is there a theory of everything? Could fusion provide cheap and unlimited energy? Physicists think they know how to find the answers to all of these questions. Yet late last month their ability to do so suffered a series of devastating blows.

(subscription required)

[Read more...](#)

From *nature*

16 January

Government was warned of physics crisis

Documents show threat to research from budget levels was known.

[Read more...](#)

Power Coupler for the ILC Crab Cavity