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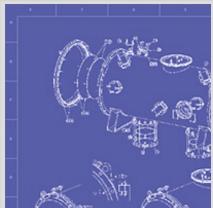
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4 May 2006

Around The World

Contracts, Costing and Bid-to-Host – Oh My!



Assembly drawing of a test cryostat for superconducting RF cavities (Image: Clark Reid, Mayling Wong, and Valeri Polubotko)

Contracts, costing estimates and the bid-to-host process were the buzz words at the Linear Collider Forum of America industry meeting, hosted by SLAC earlier this week on 1-2 May. While the majority of the two days was dedicated to presentations about the latest ILC activities, this second meeting of the LCFOA allowed U.S. industry members to establish a stronger dialogue with the U.S. laboratories involved in the project. And even though the big questions about how much will it cost and when can proposals for contracts be submitted remain unanswered for the time being, attendees received a clear message that working with industry is essential for building the ILC.

"Vision is really the key element in bringing major scientific discoveries, and the ILC is a visionary project," said SLAC Director Jonathan Dorfan in a welcoming address to the industry representatives. "It is a major technological effort and also visionary in the way that it is being put together as a partnership of the labs around the world and of course involving industries around the world. Industry must get involved now, and this meeting is very timely because the interface is crucial. We cannot realise this dream without you, and we look forward to many, many years in this adventure. It's a fantastic vision and welcome aboard."

Feature Story

Unprecedented: 13.1 nm for FLASH!

Shortest wavelength generated with DESY's pilot facility for the future European XFEL



It's a wavelength! DESY celebrates its FLASH success.

When Albrecht Wagner, Chairman of the DESY Directorate, opened his mailbox in the morning of 27 April and found an email about FLASH's 13.1-nm success, he replied immediately: "This is exciting and fantastic news! Congratulations to the entire team!" FLASH, DESY's pilot facility for the future European XFEL, produced the shortest wavelength yet. This success was celebrated with a party in DESY's accelerator control room the night before at 22:10 h. Already after three hours, when the superconducting TESLA Test Facility Linac, equipped with five accelerator modules, reached the designated energy of 700 MeV, the electron bunches that traversed the undulator emitted laser flashes with a wavelength of only 13.1 nm (there's a plot from the logbook for those who don't believe it). This is an important step on the way to reach the design value of 6 nm planned for the FLASH facility. With the sixth module which will be installed in the second quarter of 2007, it will be possible to accelerate the electron bunches to 1 GeV and to generate wavelengths of 6 nm.

Read more...

-- Petra Folkerts, DESY PR/FEL

In the News

Director's Corner

Today's issue features a Director's Corner from Gerry Dugan, GDE Americas Regional Director

DOE and NSF Reviewers See Progress in ILC-Americas Program; Also Recommend Areas of Improvement

The first review of the US R&D program for the International Linear Collider (ILC) by the Department of Energy (DOE) and the National Science Foundation (NSF) was held at Fermilab from 4-6 April 2006. This



Gerry Dugan

meeting served as DOE and NSF's primary peer review of the US portion of ILC R&D activities. The goal of the review was to evaluate the scope and quality of the accelerator research and development activities, the prioritization of activities within the budgetary advice, the planning for the next few years, the efficacy of the management of the effort by the Americas Regional Team (ART), and the integration of the US work into the global ILC effort.

DOE's Paul Grannis chaired the review, and Jon Kotcher was the primary NSF liaison. Dixon Bogert (Fermilab), Tom Elioff (SLAC), Don Hartill (Cornell), George Mulholland (Applied Cryo Technology), Katsuobu Oide (KEK), Ferde Willeke (DESY), and Ilan Ben-Zvi (BNL) also participated as consultants on the review committee. There were also observers from Europe and Asia.

The review began with a description of the ART organisation in the context of the ILC GDE, an overview of FY06 activities, and an outline of the requested ART activities for FY07. Subsequent presentations described US participation in the ILC Reference Design Report (RDR) and cost estimate. FY06 US R&D efforts in electron and positron sources, damping rings, main linac cavities, cryomodules, and RF systems, and

Read more...

-- Elizabeth Clements

Calendar

Upcoming meetings, conferences, workshops

HEP Forum

Cosener's House, UK 6-7 May 2006

European GDE meeting

DESY

10 May 2006 (16:00)

ILC positron source meeting

Budker Institute of Nuclear Physics BINP, Novosibirk, Russia 10-12 May 2006

Electron Accelerator R&D for the Energy Frontier

LAL Orsay, France 15-17 May 2006

International Accelerator School for Linear Colliders

Sokendai, Graduate School for Advanced Studies Hayama, Japan 19-27 May 2006

InterAction Meeting on ILC KEK 29-30 May 2006

ILC Communicators Meeting KEK 31 May 2006

ILC VTX Workshop at Ringberg

Ringberg Castle, Lake Tegernsee, Germany 28-31 May 2006

Second ATF2 Project Meeting Japan 30 May-1 June 2006

Second Polarized RF Gun Meeting

SLAC

5 June 2006

CALOR 2006

12th International Conference on Calorimetry in High Energy Physics Chicago, USA 5-9 June 2006

EPAC '06

Edinburgh, UK 26-30 June 2006 From *Interactions.org* 2 May 2006

The Revolution in 21st Century Particle Physics - Brian Greene talks to Congress

"Renowned physicist and author Brian Greene will address the Congressional Research and Development Caucus Advisory Committee at 3:00 to 4:30 p.m. Tuesday, May 9, in the Cannon Caucus Room, 345 Cannon, Washington, D.C. The event is hosted by House Science Committee members, Rep. Judy Biggert and Rep. Rush Holt..."

From *China View* 29 April 2006

Experts worry US may lose leadership in particle physics

"Physics in the United States is in a crisis that the country may lose the leadership in basic particle research in coming years, a report of the National Research Council warned..."

Read more...

From *The Economist* 27 April 2006

Particle Physics in America

"NEAR Waxahachie in Texas, there is a hole in the ground. Not just any old hole. This one is almost 23km long and curves in what would be, if it were extended, a circular loop..."

Read more...

(Paid Subscription Required)

Announcements

Register for the Vancouver Linear Collider Workshop

On behalf of the ALCPG and GDE, the Local Organising Committee of the Vancouver Linear Collider Workshop, invites you to the July 2006 joint meeting of the American Linear Collider Physics Group and the International Linear Collider Global Design Effort - organised by TRIUMF. The workshop will be held on the Campus of the University of British Columbia in Vancouver, Canada, from Wednesday July 19 to Saturday July 22, with satellite meetings on July 18th and July 23.

More information...

ILC Related Preprints

hep-ph/0605008

30 Apr 2006 A higher dimensional explanation of the excess of Higgs-like events at CERN LEP

hep-ph/0605003

28 Apr 2006

New Physics effects in the flavor-

beam delivery systems, were covered by speakers from ANL, Fermilab, and SLAC. On the second day of the review, presenters described US test facility plans, and the US role in international test facilities, as well as civil engineering in support of the RDR, and studies of machine operations. Although the majority of the work described is being carried out at national laboratories, university accelerator R&D projects were also included. The complete set of presentations can be found online.

At the oral closeout of the review on 6 April, the consultants reported on their impressions of the program, and provided comments and suggestions to the ART. The overall impression of the ILC program was quite positive. The reviewers observed that since the formation of the GDE and ART in mid-2005, substantial progress has been made in the specification of the machine, the development of the RDR, and the R&D program. They noted a number of areas, however, in which improvements could be made. Some of these areas are described below.

Read more...

-- Gerry Dugan, Americas Regional Director

Director's Corner Archive

Image of the Week



More than 100 girls crowded around accelerating cavities, inspected scintillating fibres, soldered plates, looked over the shoulder of theorists and even wrote their own issue of

Vancouver Linear Collider Workshop

Vancouver, Canada 19-22 July 2006

ILC GDE Meeting Vancouver, Canada 19-22 July 2006

View Full Calendar...

changing neutral couplings of the Top quark

hep-ph/0604230

26 Apr 2006 LHC-ILC synergy

hep-ph/0604228

26 Apr 2006

Supersymmetry at the PLC

physics/0604200

25 Apr 2006 Improvements to the LC Muon Tracking and Identification Software

hep-ph/0604211

25 Apr 2006

Total cross sections and soft gluon

resummation

newsline at DESY on Thursday 27 April. It was Girls' Day - a Germanwide events that attracts more than 120 000 girls every year. Boys are excluded when the girls between 12 and 17 explore technical and scientific professions that are traditionally regarded as male areas. If you speak German, find out what they think of the event in their special newsline issue!

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