

ILC communication tools put to use

Science cafes as venues for getting the word out



The crowd of more than 100 people had plenty of particle physics questions for Jim Brau at the Science Pub in Eugene, Oregon.

ILC: Gateway to the Quantum Universe? Got it. The September 2007 issue of *NewsLineQ*? Got it. General ILC brochure? Got it. A handful of one pagers to explain how the ILC works? Got it; got it; got it; got it; got it. The ILC scientific communication tools at its fingertips. Handing out brochures is only half the job though. The rest is up to you, the ILC community. We can help you get started, perhaps at your local science café.

Read more...

-- Elizabeth Clements

Calendar

Upcoming meetings, conferences, workshops

2007 Nuclear Science Symposium and Medical Imaging Conference Honolulu, Hawaii, USA 27 October - 3 November 2007

CARE07 Annual Meeting CERN 29-31 October 2007

CCAST ILC Accelerator Workshop and <u>1st Asia ILC R&D Seminar</u> IHEP, Beijing, China 5-7 November 2007

ILC EDMS Power User Training DESY 26-30 November 2007 An alternative with many applications

World-Wide-Web of Laser Compton

'World-Wide Web of Laser-Compton'

The R&D for an ILC positron source using a laser-compton scheme is ongoing around the world. The efforts in Europe and Asia complement each other. In Europe, scientists are pursuing R&D for the laser path stacking cavity, a complicated, highly sophisticated system with four mirrors. In Asia, scientists aim to accumulate experience in gamma ray generation with simpler cavity structures. They also want to gain experience in installing these cavities into damping rings with high quality beams without degrading its quality. Read more...

-- Rika Takahashi

Image of the Week

Into the vacuum vessel



The final cold mass assembly for the first US-built cryomodule took place at Fermilab last week. The crew assembled the cold mass inside the yellow vacuum vessel, and the alignment group made some adjustments. This week, warm coupler assembly will take place. This cryomodule kit comes from DESY, whose technical staff has provided guidance throughout the entire process. **Cosmic Dark Matter and the ILC**



A couple of weeks ago, Michael Peskin (SLAC) opened the ALCPG07 meeting at Fermilab with a visionary talk titled, "The Physics Landscape: Now and Tomorrow." I sat in the audience and wondered what he would do with such a sweeping subject in only 30 minutes. Then Michael flashed his next slide. He revealed the intriguing subtitle, "How will we see the world of physics two years after the first data from the LHC?" This single question zeroed in on precisely what we must consider and anticipate as we develop a design and plans for proposing a linear collider to complement CERN's Large Hadron Collider. Michael continued, not as a prophet but more like a scientist, by describing the likely early science from the LHC and the opportunities it will present for the II C. Read more...

-- Barry Barish

Director's Corner Archive

Announcements

ILC Notes

2007-033 Readout Inefficiency due to Finite Buffering

2007-032

Leak rate measurements on bimetallic transition samples for ILC cryomodules

2007-031

On the Possibility of Adding Boron to the ILC Main Water Dump System

2007-030

International Vacuum Symposium, IVS-2007 Homi Bhabha Auditorium, TIFR, Colaba, Mumbai, India 28-30 November 2007 Symposium Poster, Symposium Brochure

Physics at the Terascale Kick-off Workshop DESY, Hamburg 3-5 December 2007

<u>3rd Mini-Workshop on ILC Damping</u> <u>Rings R&D</u> KEK 18-20 December 2007

Upcoming schools

US Particle Accelerator School UC at Santa Cruz 14-25 January 2008

e Collaboration-wide Meetings

GDE Meetings calendar

View complete ILC calendar

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In the News

From Fermilab Today 6 November Key Decision DOE Under Secretary for Science Dr. Ray Orbach introduced DOE Order 413.3, the Project Management

Order, to a broad international audience during the joint meeting of the American Linear Collider Physics Group and the Global Design Effort (ALCPG07) at Fermilab.

Read more...

From *Science* 31 October

Dark Matter Not a Done Deal?

Some arguments will never end. A year ago, astronomers reported observations that were widely hailed as proof positive for the existence of dark matter, the mysterious stuff whose gravity holds the galaxies together. But now a different team says that the very same observation can be explained by a controversial theory that rejects dark matter and alters the rules of gravity. Read more...

Radiolysis in the ILC Main Beam Dumps

arXiv preprints

0711.0731 5 Nov 2007 Discovery and Identification of Contactlike Interactions in Fermionpair Production at ILC

0711.0695

5 Nov 2007 LHC/ILC interplay for challenging SUSY scenarios

0711.0488

4 Nov 2007 Holographic Dark Matter and Higgs

0711.0456

3 Nov 2007 High-Precision Tests of the MSSM with GigaZ

0711.0364

2 Nov 2007 Discriminating spin through quantum interference