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29 June 2006

Feature Story

ALCPG and GDE Host Town Hall Meeting at VLCW06 Submit Your Question Today



Valery Telnov of BINP Novosibirsk and Tsunehiko Omori of KEK (in the background) during the town hall meeting held at Snowmass in August

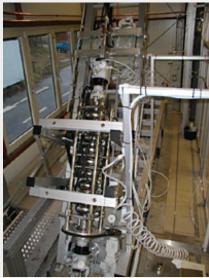
Do you have a question about the Reference Design Report for the ILC? Or are you wondering about an ILC detector concept? Do you worry about how machine and detectors will work together? Or perhaps you have a question about the proposed timeline for building the ILC? At the Vancouver Linear Collider Workshop 2006, you will have the opportunity to ask your questions about the ILC on Thursday, July 20 at 7:30 p.m. in the Student Union Building Ballroom. (Dinner will be available on campus before the meeting starts.)

Organised by the American Linear Collider Physics Group and the Global Design Effort, the purpose of this town hall meeting is to establish stronger communication between the accelerator and detector communities for the ILC. A panel comprised of GDE and ALCPG members will answer questions and moderate the discussion. Topics for possible questions could include:

- Programme planning and global coordination
- One vs. Two Detectors
- Upgrades and options for the machine and detectors
- •Reference Design Report progress
- Detector Concept Report progress
- •Timeline for building the ILC
- GDE/ALCPG Communications
- Machine and detector community relations

Feature Story

Cavity Buffs



A FLASH cavity during electropolishing

Electrons are thrill-seeking particles. They get their kicks out of the superconducting cavities of the ILC. The higher their quality, the better the kick - so a team of scientists, engineers and technicians at DESY in Hamburg, Germany, makes sure that the cavities are buffed to the highest degree. A technique called electropolishing is currently emerging as the method to produce superclean superconducting radiofrequency cavities.

The cavities transfer energy to the particles. The field strength is in the order of tens of Megavolts. To reach this high voltage, the resistance within the cavity has to be as low as possible. The cavities are made of pure niobium, which becomes superconducting at very low temperatures. But every tiny speck of dust or dirt poses a threat to its superconductivity: the charge flowing through the material knocks electrons out of the inclusions or bits of dust, causing field emission; the area eventually warms up and the surface resistance rises. Finally, the cavity's surface becomes normal conducting: a thermal breakdown - a quench occurs.

Read more...

-- Barbara Warmbein

Director's Corner

Sokendai Linear Collider Accelerator School



Weiren Chou reporting to the GDE **Executive Committee following** completion of the Sokendai Accelerator School.

Not long after I became GDE Director, and even before I had recruited our initial design team, I gave a plenary talk on my ideas and plans for the ILC design effort at the Particle Accelerator Conference (PAC05) in Oak Ridge, Tennessee. While attending that conference, I was invited to a meeting of the ICFA Beam Dynamics Panel, chaired by Fermilab's Weiren Chou. We discussed the possibility of the GDE and the Beam Dynamics Panel cosponsoring a linear collider accelerator school, and we would provide the lecturers. One year later, on 19-27 May 2006, we successfully held such an accelerator school in Sokendai, Hayama, Japan. (see NewsLine 1 June 2006).

The path to becoming an accelerator physicist is not straight-forward. Accelerator schools not only provide enrichment for young accelerator physicists, they also play a central role in teaching future generations. Most universities do not have any accelerator physicists on their faculties, and therefore do not offer courses or PhD theses in the field. Most accelerator physicists have converted from other areas of experimental physics through learning at schools like Sokendai, and by on the job training at accelerator laboratories. Therefore, we felt obliged to sponsor the Sokendai School to help enhance the pipeline for young potential accelerator physicists.

Read more...

If you have a question for the panel, please submit it in advance to communicators@linearcollider.org by Wednesday, July 12. Attendees will also have the opportunity to ask additional questions during the meeting.

All submitted questions will be posted on the VLCW06 web site prior to the town hall meeting. A programme will be organised around the submitted questions for the first part of the meeting, and the second portion will be dedicated to open discussion. If you submit a question ahead of time, please plan to attend the town hall meeting to pose it directly to the panel. The ALCPG and GDE encourage all workshop participants to attend the town hall meeting and look forward to the evening's discussions.

-- Elizabeth Clements

Calendar

Upcoming meetings, conferences, workshops

EPAC '06

Edinburgh, UK 26-30 June 2006

Vancouver Linear Collider Workshop

Vancouver, Canada 19-22 July 2006

ILC GDE Meeting

Vancouver, Canada 19-22 July 2006

2006 Linear Accelerator Conference

Knoxville, Tennessee, USA 21-25 August 2006

Linear Collider Physics School 2006

Ambleside, UK 14-19 September 2006

TTC Meeting (Tesla Technology Collaboration)

KEK 25-28 September 2006

9th International Workshop on **Accelerator Alignment**

Stanford Linear Accelerator Center 25-29 September 2006

Single Crystal Niobium Technology Workshop (pdf) Araxá mine in Brazil

Around The World

University of Lancaster Organises Linear Collider Physics School 2006



he town of Ambleside and Lake Windermere, viewed during the excursion at the 2003 school.

Following the success of the first Linear Collider Physics School (2003) in Ambleside, which is located in the heart of the English lake district, the University of Lancaster will host the second Linear Collider Physics School also in Ambleside on 14-19 September 2006. With programme topics ranging from Higgs and supersymmetry to accelerators and the relation of Large Hadron Collider physics, the school is aimed at graduate students and postdocs who are working on the International Linear Collider. Read more...

-- Elizabeth Clements

In the News

From Fermilab Today and SLAC today 29 June 2006 Marc Ross Named Head of Fermilab's **Technical** Division SLAC physicist Marc Ross has



Marc Ross

been named head of Fermilab's Technical Division, beginning in the fall of 2006. Ross has played an integral part in SLAC's accelerator activities for many years... Read more...

--Barry Barish

Director's Corner Archive

Announcements

ILC Related Preprints

hep-ph/0606210

22 Jun 2006

First order radiative corrections to Bhabha scattering in d dimensions

EUROTeV Report:

EUROTeV-Report-2006-014

1 March 2006 The BDSIM Toolkit

EUROTeV-report-2006-015

20 March 2006

FLUKA Simulations of Energy Density Deposition from a ILC Bunch in different Spoiler Designs

EUROTeV-Report-2006-036

24 June 2006

Quadrupole Vibration Measurements of a TESLA Type II Cryomodule

EUROTeV-Report-2006-039

20 June 2006

Luminosity Tuning at the Interaction

EUROTeV-Report-2006-040

20 June 2006

A Study of Failure Modes in the ILC Main Linac

EUROTeV-Report-2006-046

20 June 2006

Beam Profile Measurements with the 2-D Laser Wire

EUROTeV-Report-2006-047

Preliminary Studies of Ion Effects in ILC Damping Rings

EUROTeV-Report-2006-051

21 June 2006

Simulation of high order short range wakefields

EUROTeV-Report-2006-052

Radiation Levels and Activation at the **ILC Positron Source**

EUROTeV-Report-2006-054

A Laser-wire System at the ATF **Extraction Line**

EUROTeV-Report-2006-057

Beam Delivery System in ILC

EUROTeV-Report-2006-059

Direct Measurements of Geometric and Resistive Wakefields in Tapered Collimators for the ILC

EUROTEV-Report-2006-060

Test Beam Studies at SLAC's End Station A for the ILC

30 October - 1 November 2006 Request Information (email)

ILC GDE Meeting Valencia, Spain 6-10 November 2006

Annual WILGA Conference

Warsaw University of Technology Resort, Poland 21-27 May 2007

GDE Meetings Calendar

From *CRIENGLISH.com* 27 June 2006

Chinese, US High-energy Physicists to Further Cooperate

Under the auspices of CAS and the US Department of Energy (DOE), a Workshop on Future PRC-US Cooperation in High Energy Physics was held from June 11 to 16 at the CAS Institute of High Energy Physics (IHEP) in Beijing... Read more...

From *Kyoto Shimbun* 15 June 2006

Host A Big Accelerator in Japan LDP started a federation to promote construction

On June 15, several LDP members met at the "Federation of Diet members to promote the realization of ILC". Kaoru Yosano, the Minister in charge of economic and fiscal policy, and financial affairs, is the chair. The federation will give advices to the Japanese government to join the ILC, and to host it in Japan. (Kyoto News) Read more in Japanese...

From *SLAC today* 22 June 2006

ATF2: A Model for Future ILC Collaboration

Last month, just as crews were busy dismantling the decade-old Final Focus Test Beam (FFTB), a group of International Linear Collider (ILC) experts from Asia, Europe and America gathered at SLAC's sister lab in Japan to plan a new facility to take its place...

Read more...

EUROTeV-Report-2006-061

Analysis of Wakefields in the ILC Crab Cavity

EUROTeV-Report-2006-062

Design of the ILC Prototype FONT4 Digital Intra-train Beam-based Feedback System

EUROTeV-Report-2006-063

Performance of the FONT3 Fast Analogue Intra-train Beam-based Feedback System at ATF

EUROTeV-Report-2006-069

Collimation Optimisation in the Beam Delivery System of the ILC

EUROTeV-Report-2006-071

An ILC Main Linac Simulation Package Based on MERLIN

EUROTeV-Report-2006-076

A Beam-based High Resolution Phase Imbalance Measurement Method for the ILC Crab Cavities