

Feature Story

TPC: a digital breakthrough



The mini TPC chamber which was used at Saclay to test the new Timepix chips.

Digitisation - a key word that could lead to smaller and simpler detectors. Two weeks ago, at Saclay, France, the CEA Time Projection Chamber group of Paul Colas proved it could build a digital TPC for the ILC. A truly collaborative effort, this breakthrough could significantly reduce the cost and simplify the implementation of this sub-detector.

[Read more...](#)

-- Perrine Royole-Degieux

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 1st Asia ILC R&D Seminar](#)

IHEP, Beijing, China
5-7 November 2007

[ILC EDMS Power User Training](#)

DESY
26-30 November 2007

[International Vacuum Symposium, IVS-2007](#)

Homi Bhabha Auditorium, TIFR, Colaba, Mumbai, India

Around the World

Committed to committees



Shin-ichi Kurokawa (left), former ILCSC chair, introduces his successor, Enzo Iarocci (centre) and the ILC Research Director Sakue Yamada (right).

As the new chair of the ILC Steering Committee (ILCSC), Enzo Iarocci will have to do a lot of negotiating. Not only with the other members of the Steering Committee or the ILC community, but most of all with his wife. "In this new position I will have to probably travel even more than I thought," he says, "and my wife is less than pleased about that..."

[Read more...](#)

-- Barbara Warmbein

Image of the Week

Scenes from ALCPG - Part II



The ALCPG organisers are all sleeping a bit easier this week, on the road to recovery after last week's [workshop](#). From sampling hot chile peppers to visiting Fermilab's buffalo, here is a glimpse of the last couple days of the meeting.

[View slideshow](#)

In the News

Director's Corner

Critical decisions

Last week was an eventful week. The ALCPG07 and GDE meetings at Fermilab, attended by over 300 scientists and engineers, marked the completion of the ILC *Reference Design Report* and the beginning of the engineering design activities.



Raymond Orbach, Under Secretary of Science for the DOE.

The joint plenary session on the first day of the meeting featured a presentation ([video](#) and [slides](#)) by Dr. Raymond L. Orbach, Under Secretary for Science at the Department of Energy. He made a number of key points. He noted the importance of our recently released RDR in planning the future course of the ILC. He commented on the need to formalise the international ILC partnerships between interested governments. He issued a directive to proceed with the US funded ILC R&D through the DOE Critical Decision process. He stated the need for the Global Design Effort to take into account the constraints of obtaining government funding in our schedules for the ILC.

[Read more...](#)

-- Barry Barish

[Director's Corner Archive](#)

Announcements

Tell us what you think

Do you have an opinion or reaction to an article in today's issue of *NewsLine*? Tell us what you think, and we will publish your letter in our new "Readers Write" column. [Email your communicators](#) now.

arXiv preprints

[0710.5463](#)

29 Oct 2007

First results of systematic studies done with different types of Silicon Photomultipliers

28-30 November 2007
[Symposium Poster](#), [Symposium Brochure](#)

[Physics at the Terascale Kick-off Workshop](#)
DESY, Hamburg
3-5 December 2007

[3rd Mini-Workshop on ILC Damping Rings R&D](#)
KEK
18-20 December 2007

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 *symmetry magazine*
September 2007

Fermilab's path to the future

A new report gives top priority to developing the International Linear Collider, while laying out a plan for science that could be done along the way.

[Read more...](#)

From *Fermilab Today*
29 October 2007

Director's Corner - Collaboration with India

Last month Fermilab signed an agreement with Indian laboratories and universities to collaborate on the ILC and more generally to collaborate in the development of superconducting radio frequency (SCRF) linacs.

[Read more...](#)

From *Science Magazine*
26 October 2007

Slow down you move too fast

Physicists developing an engineering design for the proposed multibillion-dollar International Linear Collider (ILC) are getting ahead of themselves, Raymond Orbach, undersecretary for science at the U.S. Department of Energy (DOE), warned this week.

[Read more...](#)

From *Fermilab Today*
26 October 2007

Early, open communication highlighted for ILC sites

Craig Jones once debated egging DOE buses in the area for a talk about a proposed giant high-energy physics experiment in Illinois in the late 1980s.

[Read more...](#)

[0710.5117](#)

26 Oct 2007
CP violation in SUSY

[0710.4937](#)

25 Oct 2007
Heavy sfermions in SUSY analysis at LHC and ILC

[0710.4413](#)

24 Oct 2007
QCD Factorizations in Exclusive $\gamma^* \gamma^* \rightarrow \rho^0_L \rho^0_L$

[0710.4236](#)

23 Oct 2007
NNNLO correction to the toponium and bottomonium wave-functions at the origin

[0710.4205](#)

23 Oct 2007
Factorization Approach for Top Mass Reconstruction at High Energies