

Around the World

From SLAC Today: Marx Modulator Begins Testing in End Station B



One of the Marx modulator cells, awaiting installation. (Photo: Calla Cofield)

This week SLAC National Accelerator Laboratory moves one step closer to producing an innovative new piece of the International Linear Collider. The first-generation model of a new design for equipment that helps power the accelerator is moving from the SLAC Power Conversion Department to End Station B, where it will undergo long-term testing. [Read more...](#)

-- Calla Cofield, SLAC

Calendar

Upcoming meetings, conferences, workshops

[8th SiLC Meeting](#)
IFCA, Santander, Spain
17-19 December 2008

[Accelerator Reliability Workshop](#)
TRIUMF, Vancouver, Canada
26-30 January 2009

Upcoming school

[The US Particle Accelerator School](#)
Nashville, Tennessee, USA
12-23 January 2009

[GDE Meetings calendar](#)

[View complete ILC calendar](#)

Feature Story

IDAG prepares to review Letters of Intent



IDAG at work during their first meeting in Warsaw, June 2008.

The International Detector Advisory Group (IDAG) met for the second time during the [LCWS08 meeting](#) which took place in Chicago two weeks ago. In a few days, they succeeded to converge on the strategy they will use to evaluate the ILC detectors concepts. At the end of March 2009, they will receive the Letters of Intent (LOIs) for the detector concepts and start reviewing them. [Read more...](#)

-- Perrine Royole-Degieux

Image of the Week

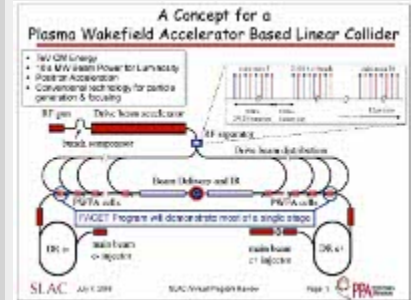
Full steam ahead for CALICE



During the LCWS workshop in Chicago (and, in the picture, symbolically in front of a steam locomotive in Chicago's Museum of Science and Industry during the conference dinner) Felix Sefkow, DESY, pictured right, was elected to

Director's Corner

Discussing the future – SLAC ICFA Seminar



Concept for a plasma wakefield accelerator for a linear collider

Visionary thinkers converged at SLAC for an [ICFA Seminar](#) (International Committee for Future Accelerators) on possible future projects for particle physics during the last week in October. This was the ninth such ICFA-sponsored seminar, held every three years with the expressed aim of bringing together government officials and representatives of the major funding agencies, the directors of major high-energy physics laboratories, and leading scientists from the worldwide high-energy physics community to discuss ideas and plans for future initiatives. The meeting brimmed with ideas, and included presentations varying from plans for future neutrino experiments to the prospects for advanced acceleration techniques. [Read more...](#)

-- Barry Barish

[Director's Corner Archive](#)

Announcements

arXiv preprints

[0811.4759](#)
LCFI Vertex Package

[0811.4301](#)
NLO BFKL in $\gamma\gamma$ collisions

[0811.4218](#)
Effects of the Noncommutative Standard Model on WW scattering

[0811.2503](#)
Measurements of Charge Transfer Inefficiency in a CCD with High-Speed Column Parallel Readout

take over the spokespersonship of the CALICE collaboration from Jean-Claude Brient, IN2P3, in January. "We'll make sure we keep the project on the right track," said Sefkow.

In the News

From *Nature*
2 December 2008

Can triniobium tin shrink accelerators? Exotic superconductors promise savings.

...Although a distant goal, achieving such gradients could result in huge savings for future accelerators. For example, the US\$7-billion International Linear Collider (ILC) — a wished for next-generation particle accelerator — will need thousands of cavities, stretching along a tunnel 31 kilometres long, to help it produce energies of 500 gigaelectronvolts.

[Read more...](#)

From *Nature*
26 November 2008

Editorial: Friendly rivalry

The spirit of collaboration in the race to define the LHC's successor sets an example for large projects.

[Read more...](#)

[0811.2354](#)

Response of the CALICE Si-W Electromagnetic Calorimeter Physics Prototype to Electrons