

Around the World

How a calorimeter could save your life



Nicola d'Ascenzo and Alexander Tadday and their experimental setup to test photo sensors.

Not many people see an immediate connection between exploring the origins of the Universe and finding cancer cells. Nicola d'Ascenzo and his colleagues sure do. In their work to test photo sensors as potential candidates for an ILC hadronic calorimeter they have come across a sensor that could be extremely interesting for positron emission tomography or PET, an imaging techniques that identifies cancerous cells in a body by detecting emitted gamma rays.

[Read more...](#)

-- Barbara Warmbein

Calendar

Upcoming meetings, conferences, workshops

[TESLA Technology Collaboration Meeting](#)

Fermilab, Batavia, Illinois
23-26 April 2007

MAC Meeting
Fermilab
26-27 April 2007

[DOE/NSF ILC Americas Regional Team Review](#)

Fermilab
30 April - 2 May

[ILC Software and Tools Workshop](#)

LAL - Orsay
2-4 May 2007

Feature Story

SiD plans for the road ahead



Marty Breidenbach moderated the SiD town hall meeting, a highlight of the workshop that encouraged discussion.

At last week's [Silicon Detector \(SiD\) concept](#) meeting, participants used several words starting with the letter F -- Flow, as in particle flow; Funding, as in the need for more resources and manpower to fund detector R&D project; and Freezing, as in the weather at Fermilab. Approximately 70 members of SiD met at Fermilab to share the latest R&D results and plan for the future, namely how to prepare a draft Concept Design Report by this time next year. [Read more...](#)

-- Elizabeth Clements

In the News

From *Ledger-Enquirer.com*
17 April 2007

U.S. losing its lead in a vital branch of physics

The United States is losing its lead in high-energy physics, a field of science it's dominated since the 1930s.

Scientists say Europe is now in the vanguard of a worldwide search to discover the deepest secrets that Mother Nature hides in bits and pieces of atoms.

[Read more...](#)

Director's Corner

The role of industries during the ILC engineering design phase

To strengthen our efforts for the ILC engineering design phase, we intend to increase our focus on industrialisation. We recognise that in order to make realistic funding proposals to our



Ken Olsen,
President of the
LCFOA

governments, we will need to work more closely with industry. On 28 February, a meeting of the Linear Collider Forum of America (LCFOA) was held in Washington DC. It was very well attended and proved to be a lively forum for discussions of industrial participation and included comments and interactions with several U.S. Congressmen. (See [NewsLine, 8 March](#)) During the formal programme, I spoke on the status of the ILC global design effort, especially the milestone of producing a reference design and costing. There was much interest both in the process of achieving our design and regarding the specific technical features. Earlier, I participated in a similar meeting in Tokyo with the Japan Linear Collider Forum and I also have met with representatives of the European Industrial Forum. Today, I reflect on where we can best make use of industry as we move forward, as well as indicate some of the issues involved.

[Read more...](#)

-- Barry Barish

Director's Corner Archive

Image of the Week

[CALICE Collaboration Meeting](#)

Kobe University, Kobe, Japan
10-12 May 2007

[Annual WILGA Conference](#)

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

[POSIPOL 2007 Workshop](#)

LAL-Orsay, France
23-25 May 2007



[LCWS 2007](#)

Hamburg, Germany
30 May - 3 June 2007



[ILC 2007](#)

Hamburg, Germany
30 May - 2 June 2007

[View Full Calendar...](#)



= **Collaboration-wide Meetings**

[GDE Meetings Calendar](#)

From *Science Daily*

14 April 2007

Physicists Designing Detector for International Particle Collider

John Hauptman stood before an international gathering of particle physicists and announced he had another idea. One that was different. One that was simpler. And best of all, one that he was sure would work.

[Read more...](#)

From *nature*

12 April 2007

Physicists question model of the Universe

The search continues for a non-standard theory. Cosmologists gathered in London last month to voice their concerns over the current 'standard' model of the Universe.

[Read more...](#)

From *nature*

12 April 2007

Science without borders

Researchers should push for rule changes to make Europe work as one. If European science is to prosper, the barriers that prevent seamless interactions between scientists in different nations need to come down.

[Read more...](#)

Signs of spring



The first buffalo babies were born at Fermilab last weekend ([read more](#)).

Do you see signs of spring in your lab? Then [send us your pictures!](#)

Announcements

ILC-Related Preprints

[hep-ph/0703300](#)

28 Mar 2007

Phenomenology of the $SU(3)_c$

$\otimes SU(3)_L \otimes U(1)_X$ model with

exotic charged leptons