

Around the World

The role of big science for the next generation
An interview with Humitaka Sato



Humitaka Sato

Humitaka Sato, a professor emeritus of Kyoto University, is one of the most respected theoretical physicists in Japan. He served as an advisor to the Japanese government for international projects such as the International Space Station (ISS) and International Thermonuclear Experimental Reactor (ITER). In addition to his highly technical work, he authored several books that invite broad audiences to explore the world of physics.

[Read more...](#)

-- Rika Takahashi

Calendar

Upcoming meetings, conferences, workshops

[Particle Accelerator Conference \(PAC07\)](#)

Albuquerque, USA
 25-29 June 2007

[Photon 2007](#)

Paris, France
 9-13 July 2007

[2007 Cryogenic Engineering Conference and International Cryogenic Materials Conference](#)

Chattanooga Convention Center
 Chattanooga, Tennessee USA
 16-20 July 2007

[European Physical Society HEP 2007](#)
 Manchester, UK

Feature Story

From symmetry magazine: When the new neighbour's a giant
At one potential site for the International Linear Collider, people in the community are getting to know the project years in advance.



Task force members gaze out over the Fermilab grounds, a potential site for the big collider.
 (Photo FNAL)

Mike Herlihy is active in the village of North Aurora, near Fermi National Accelerator Laboratory and west of Chicago. He's been a village trustee for six years, belongs to the Lions Club and served on an advisory committee to evaluate a proposed freeway. As a principal in a roofing company with a background in civil engineering, he's particularly familiar with construction and how it can affect a community.

So when he read about a proposal to build the International Linear Collider (ILC), a 20-mile-long particle accelerator, near his community, Herlihy took action. He was not alone. Herlihy volunteered to serve on Fermilab's ILC Citizens' Task Force, a group of 25 community leaders charged with identifying concerns about the possible project—from the way it would look to its potential economic impact on the region—years before it could become a reality.

[Read more...](#)

-- Elizabeth Clements

In the News

Director's Corner

Report of the International Cost Review of the ILC



Lucio Rossi (CERN) and Lyn Evans (CERN LHC Project Leader), who served as chair of the ILC cost review.

What could be better than Paris in springtime? Maybe having enough free time to enjoy it! Last month, many of us in the GDE went to Paris (to Orsay to be precise) for our long anticipated International Cost Review of our ILC Reference Design and plans for the future. The International Linear Collider Steering Committee and the Funding Agencies for Large Colliders jointly sponsored the cost review, each selecting members to sit on the review committee. This committee of senior international reviewers held a very intensive review from 23 to 25 May. The review [report](#) was released last week in advance of the coming FALC meeting in Rome on 11 July. The result of the review was very gratifying regarding the methodology we are using, our efforts for cost reduction, and the RDR costing we have accomplished. It also presents a number of valuable suggestions for the next steps.

[Read more...](#)

-- Barry Barish

[Director's Corner Archive](#)

Image of the Week

19-25 July 2007

[Toward the ILC: A Fermilab Community School on R&D Challenges and Opportunities](#)

Fermilab
25 - 27 July 2007

[2007 SLAC Summer Institute](#)
Stanford Linear Accelerator Center
30 July - 10 August 2007

[Lepton-Photon 2007](#)

Daegu, Korea
13-18 August 2007

 = **Collaboration-wide Meetings**

[GDE Meetings Calendar](#)

From *Science*
15 June 2007
Delay in Europe Could Mean Extra Year for U.S. Collider

... But with the LHC's start-up delayed until April 2008, physicists in the United States are mulling another possibility: At a meeting last week at Fermi National Accelerator Laboratory (Fermilab) in Batavia, Illinois, they began discussing whether to run the lab's venerable Tevatron collider for another year, through 2010.
[Read more...](#)

From *nature*
13 June 2007
High-energy detectors might find 'unparticles'

'Stuff' not made of particles could be seen soon, in theory.
[Read more...](#)

From *interactions*
13 June 2007
Fermilab physicists discover "triple-scoop" baryon
Physicists of the DZero experiment at the Department of Energy's Fermi National Accelerator Laboratory have discovered a new heavy particle, the Ξ_b (pronounced "zigh sub b") baryon, with a mass of 5.774 ± 0.019 GeV/c², approximately six times the proton mass.
[Read more...](#)

From *Science Times*
12 June 2007
(in Chinese)
Workshop on Possible Parity Restoration at High Energy Held in Beijing
This workshop theoretically explored the possibility of parity symmetry restoration at high energy, especially at the level that the planned International Linear Collider (ILC) can reach. Possible experimental study using the ILC was also discussed.
[Read more...](#)



A brand new electropolishing stand for a brand new facility at KEK.

Announcements

Join the DCR author list

There is still time to join the author list for the Detector Concept Report. The list is open to both the ILC machine and detector communities.
[more information](#)

Visa letters for ALCPG07

The next ALCPG and GDE meeting will be on 22-26 October at Fermilab. Information about obtaining a visa to enter the U.S. is available [online](#). Please allow at least three months for visa application processing.

arXiv preprints

[0706.2375](#)

15 Jun 2007
Connecting LHC, ILC, and Quintessence

EUROTeV Reports

[2007-016](#)

Impact of Ion Clearing Electrodes on Beam Dynamics in DAΦNE

[2006-091](#)

Possibility of Beam Energy Measurements Based on Synchrotron Radiation from ILC Magnet Spectrometer

[2006-093](#)

Proposal for a Fast Scanning System Based on Electro-optics for Use at the ILC Laser-wire