

Around the World

Canada moves towards SCRF expertise with e-linac project



TRIUMF researchers examine the chemical etching process for a superconducting cavity manufactured by PAVAC Industries.

Scientists at TRIUMF laboratory in Canada are wrapping up the design of a new experiment that will give them experience in building superconducting radiofrequency cavities and position them for further collaboration on the International Linear Collider.

[Read more...](#)

-- Andre Sulluchuco

BlogLine

6 August – [Ingrid Gregor ZEUS and HERA](#)

5 August – [Frank Simon Teaching Teachers](#)

3 August – [Ingrid Gregor Into the wild](#)

30 July – [Ingrid Gregor Dr Strangelove](#)

[Follow all Quantum Diaries](#)

Calendar

Upcoming meetings, conferences, workshops

[Lepton Photon 09](#)
Hamburg, Germany
17-22 August 2009

Feature Story

Canada-Japan collaboration in accelerator science



TRIUMF Director Nigel Lockyer giving his talk. Image: Embassy of Canada in Japan

On 7 July, while the Emperor and Empress of Japan were visiting Canada, Nigel Lockyer, the director of TRIUMF, gave a lecture at the Canada – Japan Particle Accelerator Science Symposium at the Embassy of Canada in Tokyo, to commemorate the 80th anniversary of diplomatic relations between Japan and Canada. Today, Canada and Japan are partners in numerous international groups and organisations such as the G8, Asia-Pacific Economic Cooperation (APEC) and the Organisation for Co-operation and Development (OECD). This symposium showcased one of many Canada-Japan collaborations: the active partnership in accelerator science.

[Read more...](#)

-- Rika Takahashi

In the News

From *Daily Herald*
6 August 2009

Stimulus check will keep Fermilab open for next 20 years

... That course will feature a possible push to be the host site for the International Linear Collider. As the longest ever linear particle accelerator, the device would allow scientists to measure the properties of particles at an unprecedented level.

[Read more...](#)

From *Naperville Sun*
6 August 2009

Director's Corner

Particle Physics at Academia Sinica in Taiwan



The assembly at CERN of the Alpha Magnetic Spectrometer (AMS) for the International Space Station. The Academia Sinica group has made important contributions to this sophisticated device.

As a global effort, we are committed to integrating particle physicists from the worldwide community into the ILC physics detector and accelerator design efforts, as well as developing institutional roles for countries that have a significant particle physics programme. Last month, I had the opportunity to spend time at the Academia Sinica in Taiwan where I chaired a review of their Institute of Physics, which has an impressive high-energy physics programme. Although Taiwan is not yet a main contributor to the ILC, I am confident that such an involvement both for Taiwanese universities and Academia Sinica will naturally evolve because of their strong particle physics programmes.

[Read more...](#)

-- Barry Barish

[Director's Corner Archive](#)

Image of the Week

Relative values

[14th International Conference on RF Superconductivity \(SRF2009\)](#)

Berlin, Germany
20-25 September 2009

[2009 Linear Collider Workshop of the Americas \(ALCPG09\)](#)

The University of New Mexico,
Albuquerque, New Mexico, USA
29 September - 3 October 2009

Upcoming schools

[Linear Collider Physics School 2009](#)

Ambleside, England
17-23 August 2009

[Fourth International Accelerator School for Linear Colliders](#)

Beijing, China
7-18 September 2009

[GDE Meetings calendar](#)

[View complete ILC calendar](#)

Welcome home, money

Fermilab outlines ambitious plans to plow millions in stimulus funds into projects that will create jobs for residents

[Read more...](#)

From *Fermilab*
5 August 2009

Fermilab to Receive Additional \$60.2 Million in Recovery Act Funding for High Energy Physics

In the latest installment of funding from the U.S. Department of Energy's Office of Science under the American Recovery and Reinvestment Act, DOE's Fermi National Accelerator Laboratory will receive an additional \$60.2 million to support research toward next generation particle accelerators and preliminary design for a future neutrino experiment.

[Read more...](#)

From *Daily Herald*
5 August 2009

Fermilab getting \$60 million more in stimulus funds

... More than \$57 million will be used on developing new technology for a particle collider to replace Fermi's Tevatron. The new collider will use superconducting radio frequency technology to send particles hurtling at each other in experiments.

[Read more...](#)

From *Fermilab Today*
4 August 2009

Director's Corner: Future Accelerators

... Our Fermilab plan is to develop first the intensity frontier with Project X and either the ILC or a muon collider depending on what the LHC teaches us about the relevant energy scale.

[Read more...](#)

From *New York Times*
4 August 2009

Giant Particle Collider Struggles

... This week, scientists and engineers at the European Center for Nuclear Research, or CERN, are to announce how and when their machine will start running this winter.

[Read more...](#)

From *Science Blogs*
3 August 2009



A rare family portrait of a 1.3 and a 3.9-GHz cavity in the DESY tuning lab. The small cavity is a prototype for the European XFEL, produced by industry under the supervision of INFN Milan, and is based on the design of the cavities in the 3.9-GHz cryomodule [developed and built at Fermilab](#) for DESY's linear accelerator FLASH. No cavities were harmed or altered in the production of this photograph.

Announcements

Take the NewsLine survey

[Last week](#) we sent around an invitation to take part in our survey to tell us how happy or unhappy you are with NewsLine. It's not too late! Take it here in [English](#) or in [Japanese](#). The ILC communicators say thanks!

arXiv preprints

[0907.5568](#)

Likelihood Functions for Supersymmetric Observables in Frequentist Analyses of the CMSSM and NUHM1

[0907.5413](#)

Theoretical Constraints on the Higgs Effective Couplings

[0907.5101](#)

Hadronization in three meson channels at tau decays and e+e- cross-section

Linearbeschleuniger und das Elektronenvolt

...Jetzt geht bald der Ringbeschleuniger LHC an den Start, und danach wird es wohl noch einen riesigen großtechnischen Linearbeschleuniger geben, den International Linear Collider, der gerade in Planung ist und wohl 50 km lang werden soll.

[Read more...](#)

From *CERN Bulletin*
3 August 2009

The latest from the LHC

Three weeks ago vacuum leaks occurred in both Sector 8-1 and 2-3 (See previous update).

[Read more...](#)