

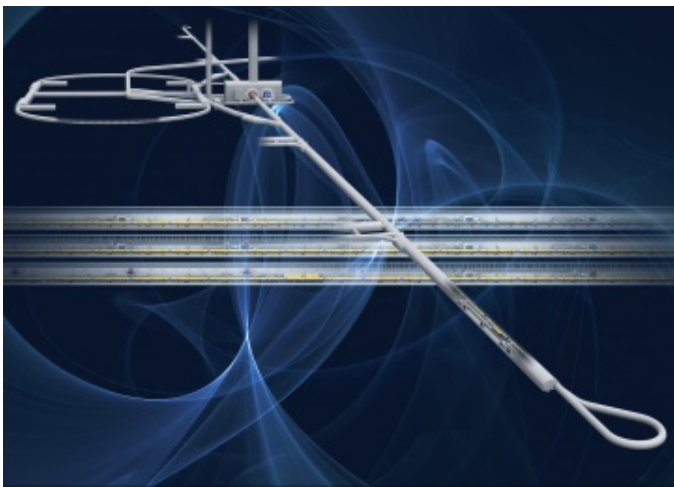
LC NEWSLINE

THE NEWSLETTER OF THE LINEAR COLLIDER COMMUNITY

DIRECTOR'S CORNER

Final countdown to the decision-making process

by Lyn Evans



The decision-making process of hosting the International Linear Collider in Japan is now approaching a critical point. Director Lyn Evans hopes that the project is included in the "Japanese Master Plan of Large Research Projects."

AROUND THE WORLD

Tohoku leaders hand request letters to Japanese government to invite the ILC

by Rika Takahashi

ANNOUNCEMENTS

Registration for LCWS2019 open!

by Rika Takahashi



This year, an internationally hosted workshop - the International Workshop on Future Linear Colliders (LCWS 2019) - will be held in Sendai, Japan, from 28 October to 1 November at the Sendai International Center. Register now!

AROUND THE WORLD

RPCs in the wild

Detector technology help in the most extensive study of the structure and behaviour of a volcano

by Barbara Warmbein



Technology developed under the AIDA-2020 project is sure to make the most out of collisions at future colliders. But did you



know it might also be able to save lives? One detector made of resistive plate chamber technology improved under AIDA-2020 is set to take up residence at the side of a volcano in autumn to measure its inner structure using cosmic muons. The technology is called muography.

Four organizations urge the Japanese government to express an intention to host the ILC. "I'd like to firmly accept your request," said Chief Cabinet Secretary Yoshihide Suga when Tohoku leaders handed over request letters.

IN THE NEWS

from *Iwate Nippo*

26 June 2019

[生活のヘルプ 冊子に 奥州市、外国人向けに 8 言語](#)

奥州市は「外国人のための生活支援ガイドブック」を発行した。外国人が戸惑いやすい交通ルールなど生活に関わる情報を紹介する。ILC誘致への期待も高まる。易しい日本語を含む 8 言語版をそろえ、同市での快適な暮らしに役立ててもらおう。(Oshu City has issued a "Life Support Guidebook for Foreigners". Introduce information related to daily life such as traffic rules that foreigners are easily confused. The expectation for attracting ILC has increased. Available in 8 language versions, including easy Japanese, to help you make a comfortable living in the city.)

from *KITAKAMI TIMES*

20 June 2019

[More to Mt. Murone!](#)

The Kitakami Mountains run through Ichinoseki, with a single peak, that of Mount Murone, dominating the skyline. The name might sound familiar, and that's because this mountain overlooks the ILC candidate site, providing an excellent visual of where the ILC would run.

from *Scientific American*

17 June 2019

[Which Should Come First in Physics: Theory or Experiment?](#)

The FCC study complements previous design studies for linear colliders in Europe (CLIC) and Japan (ILC), while China also has similar plans for a large-scale circular collider (CEPC).

from *Iwate Nippo*

13 June 2019

[The Tohoku ILC Promotion Council meets with the national government to urge them to make a speedy decision on the ILC](#)

On June 12th, the Tohoku ILC Promotion Council, the Hokkaido/Tohoku Governors' Association, the Hokkaido/Tohoku Prefectural Assembly Chairpersons' Association, and the Tohoku Mayors' Association visited with the Liberal Democratic Party (Japan's ruling political party) to urge them to make their intentions known on the ILC as quickly as possible.

from *PHYS.ORG*

13 June 2019

[Demarteau to head ORNL Physics Division](#)

Moreover, he co-led the design of the Silicon Detector, one of two designs under consideration for the future International Linear Collider.

from *Iwate Nippo*

12 June 2019

[Petitioning the national government's support for the reconstruction and the ILC – The Governor and mayors of Iwate visit Tokyo](#)

On June 11th, the Association of Iwate Prefecture and Iwate Mayors (Chair: Mayor of Morioka Hiroaki Tanifuji) visited with various national government organizations to urge their support of the reconstruction from the 2011 disaster and the realization of the ILC Project.

from *Iwate Nippo*

12 June 2019

[Contest for the ILC! Winners to be sent on a trip to CERN](#)

The Iwate Prefectural Government will be holding a research contest for Iwate high school students on October 26th, where students will be conducting their own research into physics, chemistry, and other sciences. The first place team will be invited on a research trip to CERN in Switzerland.

from *Asahi Shimbun*

9 June 2019

[知事ら幹部が政府予算に提言・要望へ](#)

岩手県は 6 日、政府の 2020 年度予算編成に向けて、県からの提言・要望をまとめた。最重要事項として、復興の確実な推進に必要な予算確保や、国際リニアコライダー (ILC) の実現を掲げた

from *QUALIZY*

8 June 2019

[The English-Speaking Internet's Best Guide to Japanese Mascots](#)

Higgs-kun is an anthropomorphic Higgs Boson particle who teaches schoolchildren about the International Linear Collider (while advocating that the site be built in northeast Japan's Iwate prefecture).

from *Kahoku Shinpo*

6 June 2019

[〈 I L C 〉誘致へ国際協議支援 東経連が事業計画承認](#)

計画では 3 1 事業に取り組む。岩手、宮城両県境にまたがる北上山地が建設候補地の超大型加速器「国際リニアコライダー (ILC)」誘致に向け、国際協議を支援する。

from *Iwate Nippo*

5 June 2019

[Nine organizations from southern Iwate and northern Miyagi go to the LDP to petition for the ILC](#)

On June 4th, nine organizations from southern Iwate and northern Miyagi prefectures visited with four members of the Liberal Democratic Party (Japan's ruling party), including Hon. Takeo Kawamura who also serves as the chair of the Federation of Diet Members for the ILC. There, they petition the LDP to ensure that the national government would host the ILC.

from *Iwate Nippo*

3 June 2019

The Office of ILC Promotion of Iwate Prefecture to be upgraded from Office to Bureau, doubling its work force and strengthening preparations going forward

Plans are in the works to upgrade the Office of ILC Promotion plans to the status of Bureau*. The plans are to upgrade the office this fiscal year, and double its workforce from the 13 staff it has currently. This will boost their preparations for the ILC project as the national government moves to make a decision whether or not to host the project.

from *Nature*

6 May 2019

CLIC represents a compelling opportunity for the post-LHC era

PREPRINTS

PREPRINTS

[1905.03764](#)

Higgs Boson Studies at Future Particle Colliders

[2668425](#)

Beam-induced backgrounds in CLICdet

[2668318](#)

Radiation Levels and Saturation Effects in the Electromagnetic Calorimeter of Future Linear Colliders

[1906.10608](#)

Probing Dark-ALP Portals at Future e+e- Colliders

[arXiv:1906.08055](#)

First Attempts in Automated Defect Recognition in Superconducting Radio-Frequency Cavities

[1906.06864](#)

The Role of Future Lepton Colliders for Fermionic Z-portal Dark Matter

[arXiv:1905.13273](#)

Probing the Majorana Nature in Radiative Neutrino mass models with the same-sign dilepton final states at future colliders

[arXiv:1905.06601](#)

Measuring Higgs self couplings in the presence of VVH and VVHH at the ILC

[arXiv:1905.00220](#)

Complementarity between ILC250 and ILC-GigaZ