

ILC NewsLine special issue: women in science



Welcome to another special issue of *ILC NewsLine*! This time we do not focus on a challenging technical issue or possible spin-offs from ILC technology, but on a topic that we hope will not be an issue any more by the time the ILC is running: the lack of women in science. The current ILC management is no exception: the Executive Committee is an all-male group. This issue tells you more about women in accelerators and projects supporting women in science, sometimes from an early age. If we have missed important programmes or projects please let us know!

Image courtesy of the San Angelo, Texas "Expanding Your Horizons" conference

Around the World

From SLAC Today: People: Encouraging Girls to Explore Science



Expanding Your Horizons Network members including SLAC researcher Cherrill Spencer (center) hold up the award plaque at the U.S. State Department. (Photo courtesy Cherrill Spencer.)

Cherrill Spencer was on hand May 4 to see the Expanding Your Horizons Network receive the 2010 National Science Board's Public Service Award. Spencer, a magnet engineer at SLAC, has played a variety of leadership roles with the EYH Network for the past 29 years. This award was presented at a [banquet](#) at the State Department in Washington, DC.

Expanding Your Horizons Network is a non-profit organization that runs conferences for middle and high school girls. The workshops feature women scientists and engineers, who lead hands-on demonstrations to pique young girls' interest in math, science and engineering.

[Read more...](#)

-- Julie Karceski

Read the [NSF press release](#)

BlogLine

30 May - [Frank Simon Hunting background](#)

27 May - [Zoe Louise Matthews](#)

Feature Story

A young female expert on beam size

A profile of Sha Bai, a new ILC group staff at IHEP



Sha Bai in the ATF control room at KEK with her colleagues. Under the hands of Sha Bai and other experts, the height of the beam will reach its design value of 37 nanometres.

In June, a lot of Chinese students graduate from different schools. Sha Bai, a PhD student from the Institute of High Energy Physics (IHEP), is one of them. "I enjoy my research work very much. I like ATF2, ILC and CLIC a lot," said Bai, who just received her doctoral degree in June 2010 working on ATF2 (Accelerator Test Facility 2) at KEK in Japan, with the goal to reach 37-nanometre vertical beam size at the interaction point, both in beam optics and experimental work.

[Read more...](#)

-- Min Zhang

In the News

From *INFN*
31 May 2010

The metamorphosis of a neutrino directly observed for the first time

"...The phenomenon was observed by the international collaboration OPERA (Oscillation Project with Emulsion-tRacking Apparatus). Neutrinos are "shot" from the European laboratory of CERN in beams directed to the Gran Sasso..."

[Read more...](#)

Director's Corner

Attracting women into science



During the National Science Board's Public Service Award ceremony

Why don't more women become scientists? Although there have been growing numbers of women going into the life sciences, the physical sciences lag woefully behind. Clearly, the health and advancement of science depends critically on attracting the best and the brightest minds into the field, so it is self-evident that we need to do more to bring qualified women into physics, including accelerator physics. With this in mind, I was pleased that the 2010 National Science Board's Public Service Award was given to the "Expanding Your Horizons Network," an organisation that is dedicated to educating young school girls about careers in math, science and engineering. I was doubly pleased that one of our own ILC Global Design Effort members, Cherrill Spencer, who has served the network for so many years, was part of the team that came to Washington DC to receive this award.

[Read more...](#)

-- Barry Barish

[Director's Corner Archive](#)

Women in science - useful resources

Project, programmes, website and networks for women scientists and engineers:

[Committee on the Status of Women](#)

[Your comments please: Does inquisition extinguish wonder or illuminate beauty?](#)

27 May - [Frank Simon Equipment failure](#)

[Follow all Quantum Diaries](#)

Calendar

Upcoming meetings, conferences, workshops

[SiD Workshop at Argonne](#)
Argonne National Laboratory,
Argonne, IL, USA
3 June - 5 June 2010

[LoopFest IX: Radiative Corrections for the LHC and Lepton Colliders](#)
Stony Brook University Campus, NY, USA
21 June - 23 June 2010

[TeV Particle Astrophysics 2010](#)
Paris, France
19 July - 23 July 2010

[35th International Conference on High Energy Physics \(ICHEP2010\)](#)
Palais des Congrès, Paris, France
21 July - 28 July 2010

Upcoming schools

[CERN Accelerator School \(CAS 2010\): Course on RF for Accelerators](#)
Ebeltoft, Denmark
8-17 June 2010

[Fifth CERN-Fermilab Hadron Collider Physics Summer School](#)
Fermilab, Batavia, IL, USA
16-27 August 2010

GDE Meetings calendar

[View complete ILC calendar](#)

From [BBC News](#)
28 May 2010

Head Hadron Collider physicist explains his life's work

"For Dr Lyn Evans, leader of the Large Hadron Collider (LHC) at CERN in Switzerland, the stakes of the project's success could not be higher. "During my life I've seen some fantastic discoveries," he said. "The LHC is designed to take us a big step forward."... "
[Read more...](#)

From [Le Monde](#)
28 May 2010

Comment la matière l'a emporté de justesse sur l'antimatière

"Ces résultats ne pourront qu'aiguillonner les équipes du CERN, dont l'un des détecteurs, le LHCb, est dédié à l'étude de l'asymétrie entre matière et antimatière. S'ils demandent à être validés par de nouvelles mesures, ils marquent, commentent les chercheurs, une "nouvelle étape vers la compréhension de la prédominance de la matière dans l'Univers"... "
[Read more...](#) (in French)

From [Blog: Summer of Science](#)
26 May 2010

Making Big Science Smaller: Accelerator Technology

"...But as the LHC starts to produce results, the ILC could be indispensable for understanding the new science coming out of CERN. Aware that this could well be the next major step in high energy physics, Fermilab is pushing ahead with ILC development..."
[Read more...](#)

[in Physics, American Physical Society \(US\)](#)

[American Physical Society Women in Physics Program \(US\)](#)

[Association of Women in Science \(US\)](#)

[European Platform of Women Scientists \(EU\)](#)

[European Association for Women in Science, Engineering and Technology \(EU\)](#)

[SHE Figures: statistics on women in science \(EU\)](#)

[Society of Women Engineers \(US\)](#)

[Association of Women in Mathematics \(US\)](#)

[Women's section of the Association of Computing Machinery \(US\)](#)

[National Center for Women & Information Technology \(US\)](#)

[Anita Borg Institute for Women and Technology \(US\)](#)

[Japanese Ministry of Education \(MEXT\) women and university programme \(JP\)](#)

[Central European Centre for Women and Youth in Science \(EU\)](#)

[Royal Society Dorothy Hodgkin Fellowships for women \(UK\)](#)

[Mission for the place of women at CNRS \(FR\)](#)

[L'association Femmes & Sciences \(FR\)](#)

[Frauen in Bildung und Forschung \(DE\)](#)

[Kompetenzzentrum Frauen in Wissenschaft und Forschung CEWS \(DE\)](#)

More women-related websites in science and technology (international): from [umbc.edu](#), from [embo.org](#), from [ec.europa.eu](#)

[Community for scientists who are also mothers \(international\)](#)

[The International Women's Day at CERN \(international\)](#)

[Women in science, an Indian Academy of Science initiative \(IN\)](#)

[Indian Women Scientists' Association \(IN\)](#)

Projects and website for girls:

[Expanding your horizons network \(US\)](#)

["Rocket Girl" \(JP\)](#)

[Girls' Day \(DE\)](#)

[2006 Girls' Day NewsLine special \(pdf\)](#)

[National Girls Collaborative Project \(US\)](#)

[Women in Science Learning Series \(US\)](#)

Something missing? Let us know:
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