

Research Director's Report

What becomes of the WWS?

This month's Research Director's Report was written by François Richard, co-chair of the Worldwide Study, regional detector contact for Europe



François Richard

The readers of ILC NewsLine are by now well acquainted with the fast evolution occurring in the realm of Physics and Detector Management. For an up-to-date description of the Research

Directorate see the new Physics

and Detectors [web page](#). Recall that the starting point has been the [World Wide Study](#), WWS, organised in 1998 and initially in charge of monitoring the progress of these activities through regional and worldwide workshops. The WWS has also set up a number of general panels dealing for example with R&D on detectors, software coordination and the machine-detector interface (MDI) in collaboration with the Global Design Effort. When needed, the WWS has created specialised panels, for example for the RDR a costing panel. [Read more...](#)

-- François Richard

[Research Director's Report Archive](#)

Calendar

Upcoming meetings, conferences, workshops

[Conference on the Design/Optimization of the Silicon Detector at the International Linear Collider](#)
University of Colorado at Boulder, Colorado, USA
17-19 September 2008

[Workshop of the Collaboration on Forward Calorimetry at ILC](#)
Belgrade, Serbia
22-24 September 2008

In the News

A note from the editors

The news this week reflect of course the big event in particle physics: the start-up of the Large Hadron Collider at CERN. But there's more. Many of the articles and blogs also refer to future projects. In the selection below, we try to gather some interesting pieces where the future of colliders and particularly the ILC are addressed. We think that this is a clear sign that this celebration benefits particle physics and the science community. Enjoy!

From [nationalacademies.org](#)
16 September 2008

Physics Milestone: Large Hadron Collider Activated
[Read more...](#)

From [Betapolitique](#)
15 September 2008

Le LHC, un succès européen à célébrer
[Read more...](#)

From [Sunday Times](#)
14 September 2008

Sit tight, a bigger bang is coming
[Read more...](#)

From [Aftenposten](#)
14 September 2008

Tromsø-OL eller partikler?
[Read more...](#)

From [Soverato News](#)
14 September 2008

Large Hadron Collider e International Linear Collider a caccia del bosone di Higgs
[Read more...](#)

From [La Provincia](#)
13 September 2008

Big bang lariano nel 2020 "Buco nero? Rischio remoto"
[Read more...](#)

From [FAZ](#)
12 September 2008

Wir stoßen die Tür zum dunklen Universum auf
[Read more...](#)

Director's Corner

The Spallation Neutron Source at Oak Ridge Laboratory



Aerial view of the Oak Ridge Spallation Neutron Source

A few weeks ago, while at Oak Ridge National Laboratory as a panelist at the [National Science and Technology Summit](#), I had the opportunity to visit the recently completed Spallation Neutron Source (SNS). The US Department of Energy (DOE) Office of Science has funded the construction of this new 1.4-billion-dollar accelerator-based neutron source, which provides the world's most intense pulsed neutron beams for scientific research and industrial development. This project promises to move neutron science into a new era and both the execution of the project and some key technologies are of important to our efforts towards the International Linear Collider.

[Read more...](#)

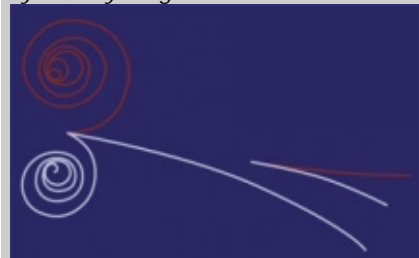
-- Barry Barish

[Director's Corner Archive](#)

Image of the Week

Symmetry Explains it in 60 Seconds: Positron

by Youhei Morita, KEK, Japan, for [symmetry magazine](#)



A positron is the antimatter partner of an electron. It has exactly the same mass as an electron but has the opposite electric charge. When

[Pixel 2008 International Workshop](#)

Fermilab, Batavia, IL, USA
23-26 September 2008

[Workshop on Sources of Polarized](#)

[Electrons and High Brightness](#)

[Electron Beams \(PESP 2008\)](#)

JLab, Newport News, Virginia, USA
1-4 October 2008

[EUNET Annual Meeting 2008](#)

Nikhef, Amsterdam, The Netherlands
6-8 October 2008

[18th International Symposium on](#)

[Spin Physics \(SPIN 2008\)](#)

University of Virginia, Charlottesville,
VA, USA
6-11 October 2008

[CLIC08 Workshop](#)

CERN
14-17 October 2008

Upcoming school

[Third International Accelerator School
for Linear Colliders \(2008 LC School\)](#)

Oak Brook, Illinois, USA
19-29 October 2008



= Collaboration-wide
Meetings

[GDE Meetings calendar](#)

[View complete ILC calendar](#)

From *ZDNet*

11 September 2008
**LHC a sure sign that Europe is the
center of physics**
[Read more...](#)

From *MSNBC*

11 September 2008
**Europe leaps ahead on physics
frontier**
**Chapter 4: Collider becomes
international magnet for brain
power**
[Read more...](#)

From *Discovery Space*

11 September 2008
**Beyond the LHC: What's the Next
Colossal Collider?**
[Read more...](#)

From *Channel 4 News*

10 September 2008
Q&A: the Large Hadron Collider
[Read more...](#)

From *FAZ*

10 September 2008
**Teilchenbeschleuniger LHC: Ring
frei**
[Read more...](#)

From *Daily Telegraph (AU)*

10 September 2008
**Will atom smasher signal end of
the world?**
[Read more...](#)

From *Free Republic*

10 September 2008
**5 Things You Need to Know About
the Large Hadron Collider Now**
[Read more...](#)

From *Nature*

10 September 2008
Collision course
[Read more...](#)

From *Money Week*

9 September 2008
**What is the world's biggest
machine costing us?**
[Read more...](#)

From *Boston Globe*

8 September 2008
**All eyes on collider as it comes to
life**
[Read more...](#)

From *Chicago Tribune*

7 September 2008
WHEN THEORIES COLLIDE
**Why the Earth could end when
the new collider fires up**
[Read more...](#)

kept separate from matter, positrons
can exist forever. However, when a
positron meets an electron, the two
particles annihilate into a flash of
energy. ([Read more](#))

Announcements

arXiv preprints

[0809.2366](#)

Electroweak Theory for the Tevatron,
LHC, and ILC

[0809.2047](#)

Reconstructing SUSY and R-Neutrino
Masses in SO(10)

[0809.1827](#)

Probing two Universal Extra
Dimension model with leptons and
photons at the LHC and ILC

[0809.1707](#)

Complementarity of the CERN Large
Hadron Collider and the e^+e^-
International Linear Collider

[0809.1624](#)

Single production of excited spin-3/2
neutrinos at linear colliders

[0809.1302](#)

Two-Loop Threshold Singularities,
Unstable Particles and Complex
Masses

[0809.1134](#)

The NLO corrections of H_{TC} Π^0 and Π
+ Π^- pair production at the ILC in the
TC2 model