ILC @ DESY Project

Introduction

E Elsen

Why ILC @ DESY?

Asian Regional Team for Linear Collider Accelerator Welcome to ILC KEK Home | KEK Acc. Lab. | ILC-Asia Accelerator | ILC-Asia Physics Development

1st ILC Workshop

Overview Introduction What's New

LC Office

Research Activities ILC-Asia, WGs Conv. Facilities SC-RF

Calendar

Library Lectures Reviews Reports Conferences KEK LC Proj. Comm.

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Fermilab



International Linear Collider at Fermilab

COLLABORATION ACCELERATOR R&D

ABOUT ILC AT FERMILAE

DETECTOR R&I CIVIL STUDIES NEWS ARCHIVE

Fermilab Division

Office of Science



These Web pages present Fermilab's efforts in support of the ILC, in collaboration with laboratories and universities around the globe in an extraordinary scientific project. Read more..



"Cold" RF Cavities Scientist James Santucci superconducting RF structure in a clean room at Fermilah Credit: Peter Ginter (Click image for larger view.) More linear collider images

from interactions.org

KEK Workshop - Toward an International Design of a Linear Collider

ILC Detector Design and R& D. Harry Weerts, ILC Meeting at Fermilab, October 27, 2004

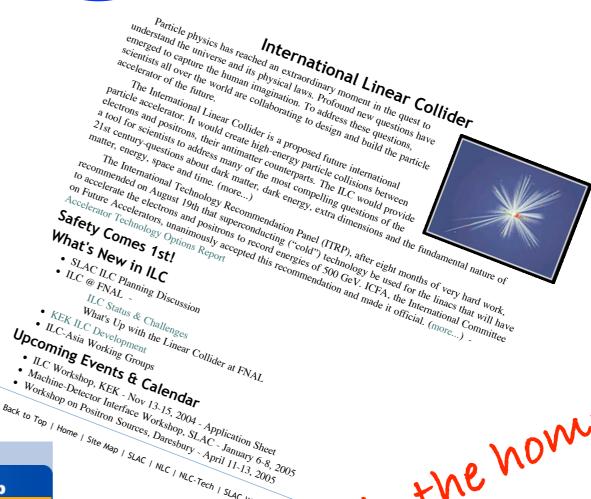
Linear Collider News Archive from Interactions.org

Fermilab Today From PowerPoint to Interaction Point, Strategic

Are Critical

Under the unimposing title of "Working Group 6," an international band of communicators met last week during the First International ILC Workshop..

Security, Privacy, Legal



and where is the home
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institute of TR? Back to Top / Home / Site Map / SLAC / NLC / NLC-Tech / SLAC Web Email /

towards ILC

- ...
- TESLA TDR March 2001
- ILC-TRC end 2002 (no rank I issues for TESLA)
- XFEL cond. approval Feb 2003
- ITRP recommendation Aug 20, 2004
- 1st ILC Workshop at KEK, Nov 13-15, 2004

Technology Recommendation: SRF

- considered mature because of
 - TTF I
 - Industry involvement
- at XFEL test of Mass-
 - Development
 - Production
 - Installation

assone it to the community
one it to the community
to maximise the nc
tearning for the nc

Labs unite behind the ILC

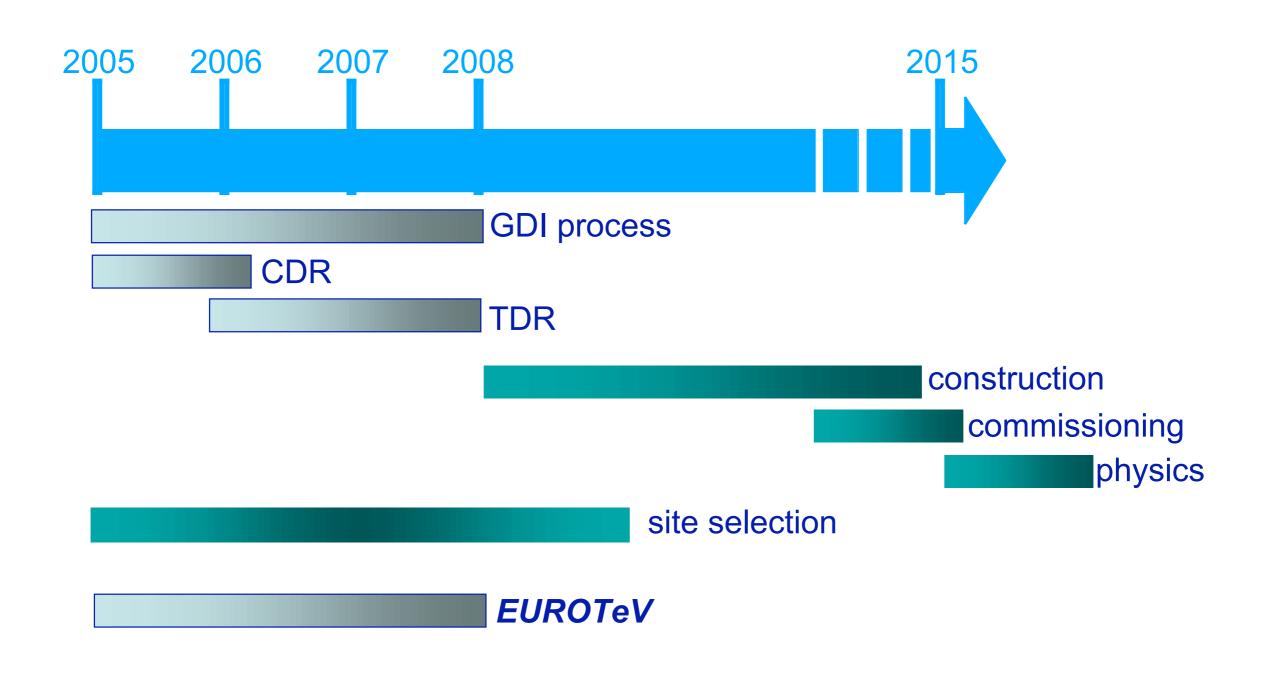


Major HEP labs talk:

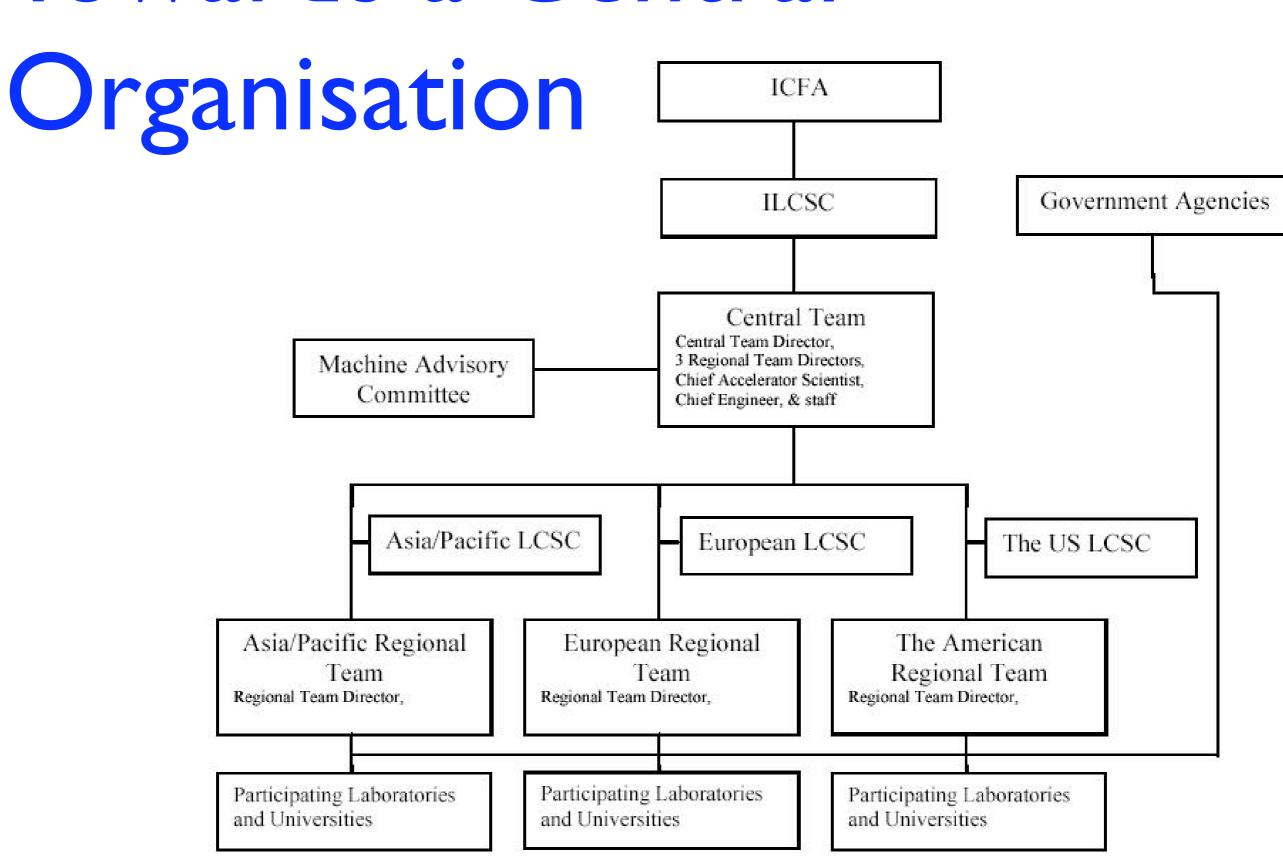
- THE ILC and
- SRF

on the way of forming on the way of formation detector worldwide collaboration and detector for machine and detector

Timetable



Towards a Central **ICFA**



ILC @ DESY

- Need a home for the ILC at DESY (and in Europe)
 - Genuine e⁺e⁻ collider & detector work
 - Points of contacts for other laboratories
- Live the ILC-XFEL synergy by
 - Attracting ILC-interested institutes to working on XFEL, TTF and ILC
 - Profit mutually (ILC∞XFEL) from new developments

DESY Groups & Projects

Some examples:

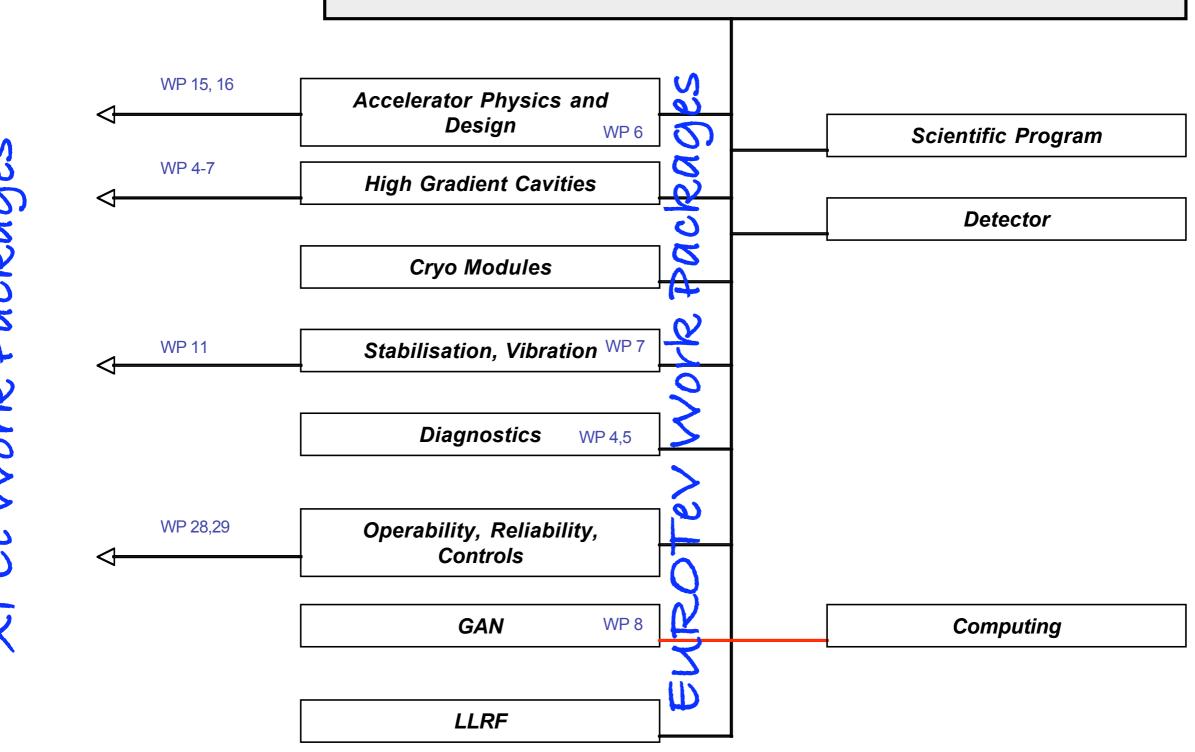
DESY Groups

DESY Projects

FHx	Mx	FSx
Expt	HERA	
XFEL		
ILC		

DESY ILC Project Group

Accelerator – EUROTeV – Experimentation Behnke, Elsen, Walker



Resources

- FH contributions
 - Physicists, Engineers and Technicians as HERA permits
 - FLC, FLA, ...
- EUROTeV
- CARE
 - Joint Research Activities: SRF
 - Networks: ELAN
- External labs

EUROTeV



- 27 Mio € effort (9 Mio € from EU) across European institutes
- 3 years
- DESY
 - 6 new positions
 - 1.4 (+ 0.3) Mio €

Deutsches Elektronen-Synchrotron Accelerator Research



DESY is world-wide one of the leading accelerator centres exploring the structure of matter. The main research areas range from elementary particle physics over various applications of synchrotron radiation to the construction and use of X-ray lasers.

DESY is playing a major role in the world-wide development of the TeV e+e- International Linear Collider (ILC). Within the EU funded Design Study EUROTeV DESY invites applications for

6 Physicists for R&D on the International Linear Collider

BAT IIa or BAT-O IIa



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Head of Unit makes the case for increased infrastructures funding in FP7

[Date: 2004-11-30]

In its recent communication on the future of research policy in Europe, the European Commission outlined support for research infrastructures as one of the six pillars of its policy from 2007. In an interview with CORDIS News, Head of Unit for Research Infrastructures Hervé Péro explained how the Commission intends to turn the theory into practice.

'In order to face societal and industrial challenges, scientists need to have facilities that have the capacity to generate the relevant data to increase knowledge and develop models,' said Mr Péro.

'As problems become more complex, we need to go more from the infinitely small to the infinitely big, using powerful instruments such as particle accelerators and telescopes,' he added. We need new tools to explore the unknown, more consistent databases to better understand the evolution of society and more powerful computing systems to help researchers understanding the evolution of the climate.



Henré Péro

The renewed emphasis on research infrastructures is based on four principal assessments, according to Mr Péro: the key role of research infrastructures in the generation of knowledge; the need to give Europe the necessary means to act at a global level and to keep up with the Lisbon agenda; the need to increase cooperation to stimulate cost sharing and create an economy of scale with regard to research infrastructures; and the necessity of using public funds efficiently.

Speaking of the cost of research infrastructures, Mr Péro gave two reasons for encouraging collaboration through EU funding. The cost of building a very large facility, such as a linear collider, can amount to several billion euro, and cannot, therefore, be met by one country acting alone. For other purposes, such as oceanographic vessels or research laboratories in the Arctic, less expensive facilities can be met by national budgets, but a reduction of fragmentation in research infrastructure would lead to large economies of scale, he explained.

Politically, an EU strategy for research infrastructure would lead to Europe acting better at world level - 'able to sit at the same table as other large regions in the world'. And also able to provide solutions to problems at global level, relating to the environment, security, immigration and space, for example, added Mr Péro.

In an October working document on research infrastructures in the Seventh Framework Programme (FP7), the Commission outlined how support for research infrastructure is likely to be divided into two lines of action, one optimising the use and performance of existing facilities, and one supporting the development of new infrastructures.

Support for existing infrastructures will be based on current activities in the Sixth Framework Programme (FP6). This mainly bottom-up approach will support the continuation of schemes to fund access to research infrastructures, integrating activities, the development of a communication network and design studies for new infrastructures.

New infrastructures will be the focus of a more strategic approach based on a global common vision, a roadmap and identified priority projects. The roadmap will be prepared with the support of the European Strategy Forum on Research Infrastructures (ESFRI), and its first version will be available in 2005. The second component of the approach, the implementation of the priority projects, will comprise an operational mechanism based on various complementary financial instruments.

The FP6 budget for research infrastructures is 730 million euro, a figure that Mr Péro says should be largely increased for FP7. This will help strengthen current activities and support the emergence of new infrastructures. For new infrastructures, not all funding will come direct from the framework programme. An alternative source of funding is the

Funding FP7

H. Péro

'As problems become more complex, we need to go more from the infinitely small to the infinitely big, using powerful instruments such as particle accelerators and telescopes,' he added

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Calendar of Events

Time	Meeting
07.12 08.12.04	Simulations Mini-WS (DESY)
06.01 08.01.05	MDI Workshop SLAC
13.01 15.01.05	Gaseous Detector Study Paris
21.02 22.02.05	Wiggler Workshop Frascati
18.03 22.03.05	LCWS
11.04 13.04.05	Sources Workshop Daresbury
20.06 24.06.05	BDIR (Oxford)
14.08 27.08.05	Snowmass
30.10 02.11.05	ECFA Vienna

+ EUROTeV

+ CARE

+ ELAN

+ TESLA

+ ILC

nferences

KEK Home | KEK Acc. Lab. | ILC-Asia Accelerator | ILC-Asia Physics

ternational Meetings

- SCRF 2004 (Pushing the Limits of RF Superconductivity): Sep. 22-24, 2004, ANL,
- ILCWS 2004: the First ILC Workshop, November 12-14, 2004, KEK, Japan.
- ILC MDI Workshop: SLAC, Jan. 6-8, 2005
- US Particle Accelerator School: SF, Jan. 10-21, 2005
- LCWS05 (Physics): SLAC, March 18-22, 2005
- BDIR Workshop: Oxford, April 11-15, 2005
- ILC Positron Workshop: Daresbury Lab., April 11-13, 2005
- PAC2005: Knoxville, May 16-20, 2005
- -005 Athation • SRF 2005 (Superconducting RF): Cornell, July 10-15, 2005

Regional Meetings

- US SMTF Meeting: JLab, Sep. 30, 2004.
- ILC-America 2004: SLAC, Oct. 14-1602004
- LC: Taipei, Nov. 9-12, 2005.
- Snowmass 2005: Snovmass, Aug. 14-27, 2005

Agenda Today

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09:00
         Introduction (E Elsen)
         ILC (+XFEL) related areas and projects (N Walker)
09:30
10:00
         Detector activities overview (T Behnke)
10:30
         - coffee -
11:00
         ILC @ KEK workshop review
               WGI Parameters (N Walker)
11:00
               WG2&5 RF systems (S Choroba)
11:10
                         Cavities (L Lilje)
11:20
               WG3
                         Sources (K Flöttmann)
               WG4 BDS (K Büßer)
11:40
         Discussion on future plans
11:50
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