

The Story So Far... or Momentum = mass x velocity

ILC Communication Workshop/Vancouver
18 July 2006
Judy Jackson

Communication is key



 If plans for an ILC are ever to move from PowerPoint to interaction point, we must first succeed at a colossal job of global communication—the most challenging one our field has ever attempted.

 We have a long way to go, but we have already made a good start. Momentum!

Working Group 6: 11/04 @ KEK







- Hard-core lab communicators (CERN, KEK, Fermilab, SLAC) chaired by Neil Calder
- Very efficient working group

Many communicators



- This is good.
- Need all the help we can get.
- For momentum, we need mass.

But

- Coordination challenge
- Confused messages, crossed wires, mistrust
- Duplication of effort, inefficient use of resources
- Lack of clear purpose
- For momentum we need velocity!



Strategic Communication



- Goal
- Strategy
- Tactics





Build the International Linear Collider



Strategy



 Use collaborative, strategic communication to build support for constructing the international linear collider for particle physics research.

(BTW, hire a dedicated ILC communicator for each region.)



Tactics





• Develop common ILC logo, common graphic standards



Publish weekly electronic ILC newsletter





Develop ILC Web site, build traffic



Prepare ILC talks in many languages



Cultivate partnerships with industry



More tactics





 Develop common messages, try them on audiences





- Develop answers to hard questions
 - What's it for? Why now? How much? Where?



 Get communication on the agenda at ILC workshops at all levels



More tactics



 Develop targeted print publications (brochures, etc.)



 Use available media (symmetry, CERN Courier, ILC Web site, lab publications, speakers' bureaus) to convey ILC message



- Participate in "World Year of Physics" project
- Consider more inspiring names.....



Electronic newsletter





Different from Web site; comes to your mailbox



Unites far-flung ILC family



· Joint European, Asian, American publication



• "Voice" of the ILC; must be well done



To start ASAP



 News, announcements, features, profiles, milestones, photos, channel for GDE...



Nine months later....



- GDE communicators at Snowmass 2005
- First issue of ILC
 Newsline August 05
- A tradition of collaboration



Elizabeth Clements, Youhei Morita Karsten Buesser, Perrine Royole-Degieux

Dedicated(!) ILC communicators





Elizabeth Clements Perrine Royole-Degieux Barbara Warmbein

Youhei Morita

ILC Newsline





46 issues! 1,424 subscribers

Poll says it's on the right track.

Web site

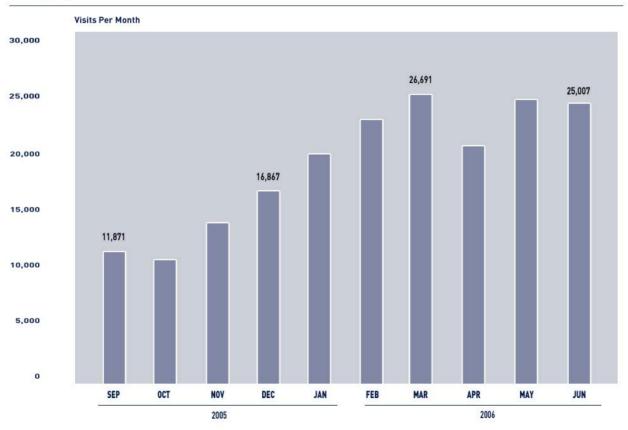




Web visits







What a year for particles!





From KEK: Interim ILC Report

PREPUBLICATION COPY SUBJECT TO EDITORIAL CORRECTIONS

Revealing the Hidden Nature of Space and Time

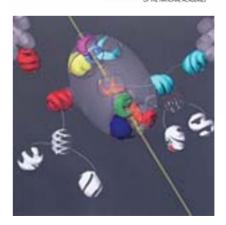
Charting the Course for Elementary Particle Physics

Committee on Elementary Particle Physics in the 21st Century

Board on Physics and Astronomy

Division on Engineering and Physical Sciences

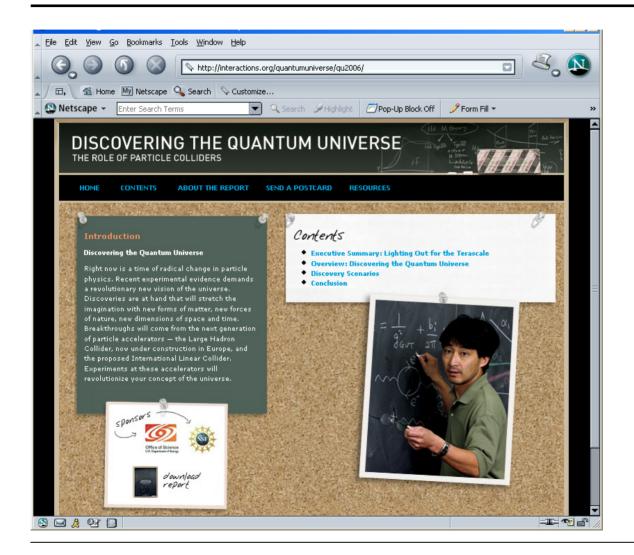
NATIONAL RESEARCH COUNCIL





DQU released 8 May





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R&D Caucus Briefing 8 May









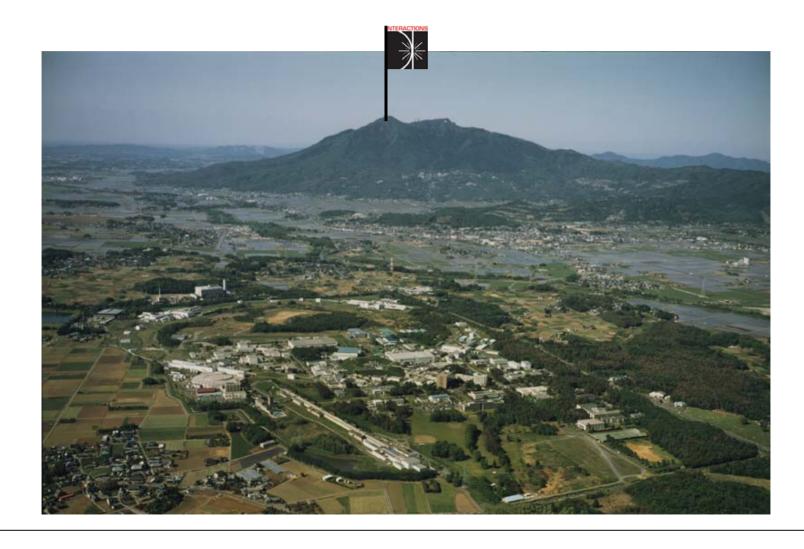
Sponsored By Fermilab, SLAC, Office of Science Talks, visits, lectures....

- EPP2010 Committee
- ALCSG
- Norm Augustine
- Users' organizations
- GDE director, lab directors
- Funding agencies
- Lobbyists
- Many of you



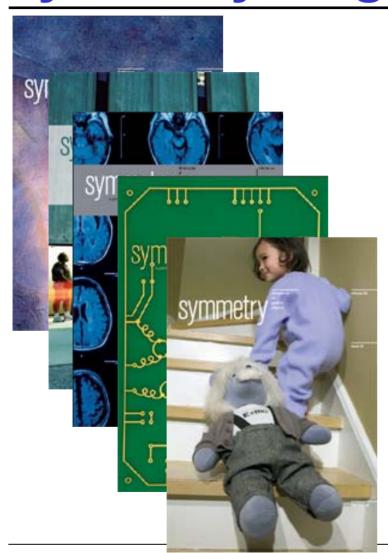
ILC InterActions Mtg, 29 May





Symmetry magazine







After only one year of publication, US calls for doubling physics budget!



ILC Covers

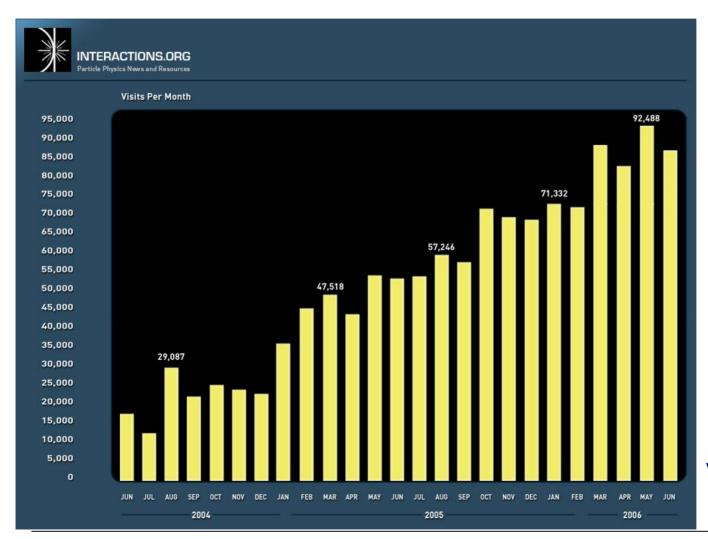


Starting with this issue, symmetry goes to all members of Congress



Interactions Web site





Visits/month

Even the New York Times



A26

THE NEW YORK TIMES EDITORIAL/LETTERS THURSDAY, MAY 18, 2006

thus nuttity them with another of his

Editorial Observer/VERLYN KLINKENBORG

Renewing America's Commitment to Research in High-Energy Physics

talk at the Fermi National Accelerator Laboratory in Batavia. Illinois. The subject was nature on the familiar scale, the kind embodied in the restored prairie on the Fermilab campus - some 1,200 acres of compass plant and rattlesnake master and other species. But it's impossible to visit a place like Fermilab without thinking about nature on another dimension, the subatomic one being studied in the Tevatron collider, it on the human scale, which looks from the sky like an enormous, moated ring.

In the Tevatron, subatomic particles are accelerated to extremely high speeds and crashed into each

In October 2003, I gave an evening the scaffolding around the detector chamber as scientists tried to explain to me what it all meant. To me it looked like an incomprehensible array of electronics several stories high. The detector's purpose is to capture a computerized image of the debris of each antiproton-proton collision. The particles that emerge varieties of quarks and mesons, for instance - seem at first to have nothing to do with nature as we know

Except, of course, that they have everything to do with how the universe itself was formed.

There is a basic rule about colliders. The smaller or more evanescent other within a detector chamber. the particle you are trying to ob-That afternoon, I clambered through serve, the more energy it takes.

Building the tools that can study the universe's birth.

Studying particle collisions at ever higher and higher energies is the only way to directly investigate the conditions that prevailed during the earliest microfractions of a second after the Big Bang. Moving further back in time - closer to the Big Bang - will mean bigger machines.

At Fermilab, many people were looking almost wistfully over the horizon to 2007, when the Large Hadron

line. That is where the coming generation of groundbreaking experiments will take place.

accelerator after the Large Hadron Collider - the International Linear and those experiments will in turn

already begun, an debate about whe cently, a National panel recommend States should mak fort to build the In Collider in this cou international cons

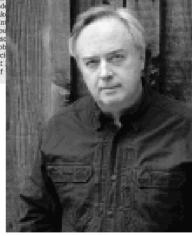
There's no glob globalization of sci jor experiment at

over the world. The same will be true at the Large Hadron Collider, which is run by a 20-nation coalition. The The planning for the next particle research in Illinois has shaped the research planned for Switzerland,

Collider, some 20 miles long - has shape the experiments planned for

Collider outside Geneva comes on physicists and technicians from all the 21st century, a particle collider 20 miles long happens to be one version of what basic research looks like. High-energy physics is hard to explain to the public. It cannot be justified in simple, pragmatic payoffs for American consumers, or simple, pragmatic payoffs for politicians.

But the justification is simple. Do we continue to ask fundamental questions about the universe we live in, or do we not? To me, there is only one answer. The very soul of who we are as a species, at our very best, is expressed in our undying curiosity. And in many ways, the very best of who we are as Americans was expressed in the commitment we made to basic research in the 20th century. That commitment needs renewing.



Verlyn Klinkenborg

We have done the remarkable.



- Changed the way particle physics communicates around the world.
- Changed expectations of the particle physics community for communication.
- Created an extraordinary ILC communication team.
- Produced publications, Web sites, reports, media unlike any others.

Outside the box





Now we have an opportunity to take it to the next level—to do something no one has done before.

An experiment



 "Barish will need a deft touch to manage the GDE, a largely virtual collaboration that stretches around the world and is itself a bold experiment in how science is done."

Science Magazine, 26 May

 ...and ALSO a bold experiment in science communication.

Challenges



- Coordination: who does what, when, where
- Resources: never enough
- Uncharted territory
- "Lost in Translation"
- Regionalism/nationalism vs. globalism
- Will it work? (High anxiety)
- High stakes (High emotion)
- High price tag (sHigh)

Opportunities



- An amazing story to tell: scientific, political, geographical, technical, industrial, financial, sociological, linguistic, personal...The "War and Peace" of particle physics.
- A tradition of collaboration
- Many talented and dedicated communicators
- Many available media to tell the story
- Our time together in Vancouver today.