

Calendar

Wednesday, August 4

3:30 p.m. DIRECTOR'S COFFEE
BREAK - 2nd Flr X-Over
THERE WILL BE NO COLLOQUIUM
THIS WEEK

Thursday, August 5

10:30 a.m. Academic Lecture Series -
Curia II
Speaker: L. Lyons, Oxford University
Title: Practical Statistics for
Physicists: Parameter Determination
2:30 p.m. Theoretical Physics Seminar -
Curia II
Speaker: G. Seidl, Oklahoma State
University
Title: Large Neutrino Mixings in SU(5)
from Deconstruction
3:30 p.m. DIRECTOR'S COFFEE
BREAK - 2nd Flr X-Over
THERE WILL BE NO ACCELERATOR
PHYSICS AND TECHNOLOGY
SEMINAR TODAY

Wilson Hall Cafe

Wednesday, August 4

Italian Wedding with Meatballs
Diner Style Patty Melt \$4.75
Mediterranean Style Baked Fish \$3.75
Roasted Turkey & Dressing \$3.75
Greek Chicken Panini with Feta
Cheese \$4.75
Sicilian Style Pizza \$2.75
Grilled Chicken Bowtie in a Tomato
Cream Sauce \$4.75

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

Weather

What's Up with the Linear Collider?

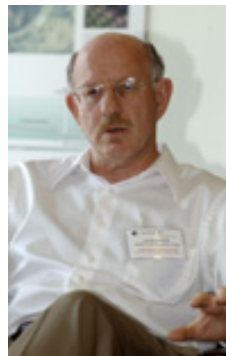
The seventh in a series of Fermilab Today stories on the International Linear Collider. The entire series is [available online](#).

Who's Who in International Accelerator Organizations?



The directors of seven laboratories that serve or have served on ICFA: Michael Witherell, Fermilab; Albrecht Wagner, DESY; Yoji Totsuka, KEK; Sergio Bertolucci, INFN; Jonathan Dorfan, SLAC; Luciano Maiani, former Director General, CERN; Robert Aymar, CERN; Mikhail Danilov, ITEP. (Click on image for larger version.)

Founded by scientists in 1976, the [International Committee for Future Accelerators](#) facilitates international collaboration in the construction and use of accelerators for high energy physics. The 16 scientists who are members of ICFA represent particle physics activities in different regions of the world. They include the directors of the world's largest accelerator laboratories and members of the user community. ICFA members usually meet twice a year to



How They Spent Their Summer Vacation: QuarkNet Students Experience Real Work of Fermilab Scientists



(left to right) Julia Ye, Paul Bierdz, Ting Wu and Phil Buksa have spent much of their summer vacation learning about life as a young Fermilab researcher. (Click on image for larger version.)

Inaugurating a new phase of the QuarkNet education program, four local high school students spent eight weeks soldering electronic equipment, writing code for computer programs, analyzing data from particle physics experiments, standing shifts in a particle detector control room, attending lectures and collaboration meetings, and experiencing the real-life environment and challenges of scientists at the U.S. Department of Energy's Fermi National Accelerator Laboratory.

"They basically did everything that a first-year graduate student researcher would do here at Fermilab," said physicist Don Lincoln of the DZero detector experiment, who coordinated activities for the four students, along with physics teacher Dan Rubino of Glenbard North (III.) High School, who has participated in QuarkNet for four



Chance Showers 75°/56°

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exchange information on future plans for regional accelerator facilities and to consider related subjects such as instrumentation, accelerator technology and particle physics research. ICFA also organizes workshops on high-energy accelerators and technology development.

[Jonathan Dorfan,](#)
[director of SLAC](#)
[and chair of ICFA](#)

Two regional committees, the Asian Committee for Future Accelerators and the European Committee for Future Accelerators, cooperate closely with ICFA. They strengthen the regional collaboration in accelerator-based science, coordinating the contributions of the large number of Asian and European countries with ties to high-energy laboratories. (There is no regional committee in North America.)

ICFA has created a number of panels and committees that focus on such topics as beam dynamics and high-energy physics computing. In 2002, ICFA created the [International Linear Collider Steering Committee](#) to define the scientific roadmap for an electron-positron linear collider as an international project. The 15 members of the ILCSC, many of whom are ICFA members as well, have been charged to define the scope and primary parameters for the machine and detector, to monitor the R&D activities, and to make recommendations on the coordination and sharing of R&D tasks. In turn, the ILCSC created the International Technology Recommendation Panel (see [Fermilab](#)

years.

Lincoln said two students working on an expansion of the experiment's analysis discovered something that was not correct in the original results, while working on their own initiative. The other two students adapted DZero experimental results into Excel, to illustrate physics principles taught in high school, such as conservation of momentum; or to carry out analysis of actual experimental data.

[read more](#)

Announcements

Hours for the Business Services Sections

This is a notice that the Business Services Section will shut down, Wednesday 8/4/04, from 11:30 a.m. to 1:30 p.m. for an off-site celebration of accomplishments. Normal services such as taxi, stockroom, cashier, etc. will be unavaible during this time. Thank you for your understanding.

Bowlers Wanted for the 2004-2005 Bowling Season

The FermiLab Wednesday Night Bowling League is looking for a few new bowlers this year. This is a sanctioned mixed league with a combination of Fermilab and NICOR employees. The league bowls at the Bowling Green Sports Center in West Chicago on Wednesdays at 5:30 p.m. The cost is \$13.00 per week, and the season starts on September 8 and ends on March 30.

[more information](#)

Naperville Municipal Band to Premiere New Musical Composition

[Today, July 14, 2004](#)), which will recommend either a 'cold' or 'warm' technology for the ILC before the end of the year. To coordinate the work of regional collaborations, each of the three regions active in linear collider activities - Asia, Europe and the United States - has named a Linear Collider Steering Group/Committee.

[Members of the Committees Listed Above](#)

Next: Public Participation

In the News

From *Scientific American*, August 2004

Questions That Plague Physics: A Conversation with Lawrence M. Krauss

Lawrence M. Krauss speaks about unfinished business

Chair of the physics department at Case Western Reserve University, Lawrence M. Krauss is famed in the research community for his prescient suggestion that a still mysterious entity called dark energy might be the key to understanding the beginnings of the universe. He is also an outspoken social critic and in February was among 60 prominent scientists who signed a letter entitled "Restoring Scientific Integrity in Policymaking," complaining of the Bush administration's misuse of science. The public, though, might know him best as an op-ed writer and author of books with mass appeal.

[read more](#)

Fermilab's Hans Jostlein and his son, Thomas Jostlein, will perform with the Naperville Municipal Band in the Outdoor Concert in Central Park tomorrow at 7:45 p.m. Tomorrow's concert features the new musical work, "Romp for Two Horns and Band," composed by Thomas Jostlein. The concert is free to the public. [more information](#)

Wilson Hall Exterior Window Washing This Week

Window washing for the exterior of Wilson Hall will take place this week. Scaffolds will be set up outside the building. Please avoid walking underneath the scaffolds and be aware of the workers. For more information, please call Enixe at x2798.