

Calendar

Wednesday, July 14

3:30 p.m. DIRECTOR'S COFFEE BREAK
- 2nd Flr X-Over

4:00 p.m. Fermilab Colloquium - 1 West
Speaker: R. Taleyarkhan, Purdue
University

Title: Observation of Nuclear Fusion in
Sonoluminescence

Thursday, July 15

THERE WILL BE NO THEORETICAL
PHYSICS SEMINAR THIS WEEK

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, July 14

Portabello Harvest Grain soup

Santa Fe Chicken Quesadilla \$4.75

Garlic Herb Roasted Pork \$3.75

Seafood Jambalaya \$3.50

Roast Beef on Ciabatta with Red Pepper
Mayo \$4.75

Meatlover's Pizza \$2.75

Pesto Shrimp Linguini with Leeks &
Tomatoes \$4.75

[Wilson Hall Cafe Menu](#)

[Chez Leon](#)

Weather



Mostly Sunny 79°/60°

[Extended Forecast](#)

[Weather at Fermilab](#)

What's up with the Linear Collider?

Laboratories around the world have helped to develop different technologies for an International Linear Collider. Later this year the International Technology Recommendation Panel will issue a highly anticipated recommendation regarding which technology the new accelerator will use. In the coming weeks, a series of articles in Fermilab Today will report on activities related to the ILC project on the international stage and here at Fermilab.

A decade ago a high-energy linear collider was just a dream -- a vision for a revolutionary tool to answer some of the most compelling questions about matter and energy, space and time. Since then the international science community has developed new technologies to accelerate electrons and positrons to record energies. Two technologies have emerged as top contenders:



Barry Barish

superconducting RF cavities and X-band RF disks at room temperature, often referred to as "cold" and "warm" technologies.

Since it is costly to further develop and refine both technologies, the international particle physics community must make a choice. In November 2003 the [International Linear Collider Steering Committee](#) appointed a group of 12 scientists from Asia, Europe and North

FESS' Anne Lucietto Elected Treasurer of the Society of Women Engineers

On July 1, FESS Operations Engineer Anne Lucietto began a two-year term as National Treasurer of the Society of Women Engineers, a non-profit organization dedicated to supporting female engineers and to educating young women about the many career opportunities in engineering.



Anne Lucietto

"With about 17,000 members, SWE works at both a national and a local level," said Lucietto, who has been a member of SWE for 11 years. "At the national level, board members create educational programs; locally, professional members implement these programs by speaking about their careers at schools and youth organizations like the Girl Scouts and Girls Inc." SWE will be the supporting organization for EWeek 2006, a national event that educates the public about engineering.

"As treasurer, my job includes obtaining board approval for each budget on an annual basis, oversee the budget and review financial decisions," Lucietto said. "It will be challenging, but worthwhile. I've been involved with SWE for quite some time because I feel that everyone should have an equal opportunity at becoming what they want to be. SWE provides information and supports that position."

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America to evaluate the technologies and to recommend one of them to the world particle physics community. Named the [International Technology Recommendation Panel](#), and chaired by Caltech physicist Barry Barish, the group has met five times, receiving presentations from many researchers. According to Barish, the panel has gathered the input it needs, and the two top contenders are capable technologies. "Either technology could work, and the decision is a very difficult one," says Barish. "The actual choice really matters, so we can't just flip a coin. History will play out in very different ways depending on the choice of technology."

The next meeting of the Recommendation Panel takes place August 11-13 in Korea, home of panel member Gyung-Su Lee. After two meetings in Europe and two meetings in the United States, it is the second meeting in Asia. Barish says that the panel may agree on a recommendation in August. "If we don't reach consensus in Korea, we will have another meeting," said Barish. The ILCSC has given the panel until the end of 2004 to make a choice.



[Changdeokgung Palace in Seoul, Korea](#)

Next: "Warm" and "Cold" Research Efforts at Fermilab

Announcements

New Book Purchase Suggestion Lists
New Book purchase suggestion lists for the week of July 13 are now [available online](#). These include Majors book lists in four subject areas. There is also an Amazon suggestion list in the form of a shopping cart, viewable by entering the password "library."

Fermi Singers

Do you like to sing? Stop by the auditorium at noon on Wednesday and join the Fermi Singers. They'd love to have you!

The Fermilab Golf League

The Fermilab Golf League is sponsoring a Golf Outing at the Tamarack Golf Club in Naperville this Friday at 1:30 PM. Everyone is welcome to play. There will be games and prizes for golfers of all skill levels.

[more information](#)

Main Site Domestic Water Flushing This Week

Main site domestic water flushing will begin this Wednesday, July 14, 2004 at approximately 6:00 a.m. and will continue through the end of the work day on Friday, July 16, 2004. You may notice a slight discoloration in the water during this activity. If you have questions or concerns please contact Steve at x3363, cell phone (640) 951-5300 or long range page (630) 266-8627. Thank you for your patience during this maintenance operation.

In the News

FYI: AIP Bulletin of Science Policy News, July 13, 2004 Speakers Warn of Challenges to U.S. Competitiveness

Speakers at a June 24 congressional briefing sounded a wake-up call that increasing competition from the rest of the world threatens America's preeminence in innovation. The speakers reported that the U.S. science and innovation system is seen as a model; many countries are investing significant amounts to imitate it, and are making strides in scientific advances, developing scientific talent, and attracting outside business and investment.

[read more](#)