

**Calendar**
**Tuesday, April 19**

**3:30 p.m.** DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

**4:00 p.m.** Accelerator Physics and

Technology Seminar - 1 West

Speaker: S. Striganov, Fermilab

Title: MARS Physical Model

Developments and Accelerator and

Detector Applications

**Wednesday, April 20**

**11:00 a.m.** Fermilab ILC R&D Meeting -

(NOTE LOCATION) One North

Speaker: L. Emery, Argonne National Laboratory

Title: Lattice Design Work for ILC

Damping Ring by FNAL/APS

Collaboration

**11:00 a.m.** Computing Techniques

Seminar - FCC1W

Speaker: J. Shiers, CERN

Title: The LCG Service Challenges and

Service Ramp-Up

**12:00 p.m.** Special Lunchtime Video

Presentation - 1 West

Title: Einstein's Unfinished Symphony

Part 2 :  $E = mc^2$

**2:00 p.m.** Proton Driver General Meeting -

1 West

Speaker: B. Lundberg, Fermilab

Title: NuMI Facility With a 2 MW Beam

Speaker: I. Kourbanis, Fermilab

Title: Main Injector Upgrades

**3:30 p.m.** DIRECTOR'S COFFEE

BREAK - 2nd Flr X-Over

**4:00 p.m.** Fermilab Colloquium - 1 West

Speaker: N. Boccardo, University of Illinois,

Chicago

Title: Highway Car Traffic as a Complex

## Compton Award to Lederman At APS Meeting in Tampa

Leon Lederman, winner of the Nobel Prize in Physics in 1988 and Director of Fermilab from 1978 to 1989, received the Karl T. Compton Award yesterday at the annual meeting of the American Physical Society in Tampa, Florida. The Compton Award is presented quadrennially by the American Institute of Physics to a physicist who has not only made a significant research contribution but has also demonstrated distinguished statesmanship. The award, symbolized by a bronze medal, carries with it a \$10,000 prize.

Lederman said the award is a "great honor," and he is proud of his work outside of research.

Twenty-five years ago Lederman started the Saturday Morning Physics program, teaching high school students the principles of physics related to Fermilab research. Lederman then co-founded the Illinois Math and Science Academy. Two seniors from IMSA recently went to the Intel Science Talent Search finals in Washington, D.C., with Timothy Credo finishing second place and receiving a \$75,000 scholarship. "I read the newspapers in the morning and things can look pretty gloomy," said Lederman. "Then I go to IMSA and work with the kids, and my optimism is restored."

- Eric Bland



Leon Lederman

**Director's Corner**

### Good Morning!

Neutrino physics has a central place in the plans for Fermilab and for particle physics over at least the next decade. Fermilab is the only laboratory in the world now operating an experimental program with neutrino beams, which now includes MiniBooNE and MINOS.



Mike Witherell

Recently several divisions of the American Physical Society published a report on the future of neutrino physics called "The Neutrino Matrix." In it they gave a vision of the future projects needed to make dramatic progress in understanding neutrinos.

As part of that vision, the Neutrino Matrix recommends a comprehensive U.S. program to complete our understanding of neutrino mixing, including "a timely accelerator experiments with comparable  $\sin^2 2\theta_{13}$  sensitivity (0.01) and sensitivity to the mass hierarchy through matter effects." The proposed experiment that meets that need is NOvA, which would use neutrinos from the NuMI beamline. At its recent meeting, the Fermilab Physics Advisory Committee gave a strong recommendation for stage 1 approval of NOvA.

As Robin Staffin discussed when he visited Fermilab recently, the DOE and NSF are charging a neutrino Science

System: The Physicist's Point of View

## Weather

Partly Cloudy 79°/57°

[Extended Forecast](#)

[Weather at Fermilab](#)

## Security

[Second Level 3](#)

## Wilson Hall Cafe

**Tuesday, April 19**

Chicken & Rice Soup

Mushroom Swiss Burger \$4.75

Baked Meatloaf with a Roasted Tomato

Demi-Glace \$3.75

Parmesan Baked Fish \$3.75

Southwestern Turkey Wrap \$4.75

Ham & Pastrami Calzones \$3.25

South of the Border Burritos with Chips &

Queso \$4.75

The Wilson Hall Cafe now accepts Visa, Master Card, Discover and American Express at Cash Register #1.

[Wilson Hall Cafe Menu](#)

[Chez Leon](#) is now open. Call x4512 to make your reservation.

## Search

[Search the Fermilab Today Archive](#)

## Info

## CD's Judith Nicholls Bids Farewell to Friends at Lab



Judith Nicholls (left) receiving her 30-Year Service Award from Associate Director Bruce Chrisman. (Click on image for larger version.)

Judith Nicholls, who offered invaluable user and program support in CD, retired last Friday, April 15 after more than 30 years of service at Fermilab. She has been with CD since in 1973 when she moved to Chicago after working on computers at Harvard University. The Kansas City, Missouri native has a Ph. D. in high energy physics from Brandeis University and an undergrad degree from Boston University. Her favorite projects at the lab were the beginning of the Internet in 1992 and writing the Unix User's Guide that was part of the VMS Migration Project. "It was brand-new and exciting to be involved with the Internet so early," she said. "Fermilab and SLAC had the first two web pages in the US." She loved her work, but "will definitely miss the people here the most."

And the people will miss her. "She has been remarkable as an advocate for the computer users here and made a big difference to so many people," said CD'S Joy Hathaway.

Nicholls and her husband, retired RF engineer Gil Nicholls, will travel the world and help others do the same through their travel agency business. Friends of

Assessment Group (NuSAG) to advise the Office of High Energy Physics on how best to turn the vision described in the Neutrino Matrix into a concrete plan. As the next step in the process, NuSAG will evaluate the science case for NOvA and other neutrino experiments later this year.

## Accelerator Update

**April 15 - April 17**

- During this 72-hour period operations established one store that provided approximately 25 hours and 41 minutes of luminosity to the experiments
- A shorted P2 transfer line quadrupole halts stacking
- Magnet replacement completed Sunday morning

[Read the Current Accelerator Update](#)

[Read the Early Bird Report](#)

[View the Tevatron Luminosity Charts](#)

## Announcements

### Fermilab Art Gallery

The exhibit "My Artistic Side - An Employee Art Show" is now on display in the Fermilab Art Gallery. An artist reception will be held on April 20 from 5:00 p.m. to 7:00 p.m. The Fermilab Singers will also perform.

[more information](#)

### Earth Day is this Friday

Fermilab's Earth Day tree-planting activities for employees and their families, sponsored by Roads and Grounds, will be held on Friday, April 22 with a rain date of Monday, April 25. Bring a shovel, and wear boots and gloves (and this year, bring your own lunch, too). The area to be planted this year is directly west of Warehouse II.

[more information](#)

Fermilab Today is online at:  
<http://www.fnal.gov/today/>

Send comments and suggestions to  
[today@fnal.gov](mailto:today@fnal.gov)

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Nicholls are having a farewell reception in her honor today, April 19, at 3:00 p.m. in the Wilson Hall Art Gallery on the 2nd floor cross-over. Please stop by for cake and punch to reminisce with Nicholls about her work and life at Fermilab.

- *Eric Bland*

### In the News

#### **From MSNBC, April 17, 2005**

##### **Just how far could Einstein get today?**

*Society might work against his kind of genius*

By Joseph B. Verrengia

Will there ever be another Einstein? This is the undercurrent of conversation at Einstein memorial meetings throughout the year. A new Einstein will emerge, scientists say. But it may take a long time. After all, more than 200 years separated Einstein from his nearest rival, Isaac Newton.

Many physicists say the next Einstein hasn't been born yet, or is a baby now. That's because the quest for a unified theory that would account for all the forces of nature has pushed current mathematics to its limits. New math must be created before the problem can be solved.

[read more](#)

### **symmetry Magazine**

If you are receiving too many or not enough copies of *symmetry* at your mail station at Fermilab, please contact Judy Treend at x6633.

### **Get Blown Away**

On Sunday, May 1, SciTech Hands On Museum will host its annual Wild Weather Day. The event begins at 1 p.m. with former Chicago National Weather Service Director Paul Dailey. A Safety Seminar follows at 2:30 p.m., and a SciTech Wild Weather Demonstration begins at 3 p.m. Other activities include face paintings and interactive weather-related exhibits. Admission is \$7.

[more information](#)

### **Fermilab Association of Rocketry**

The Fermilab Association of Rocketry is having its monthly club meeting on April 20 at 5:00 p.m. The group will meet at the Users Center piano room.

[more information](#)

### **Upcoming Activities**