



## URA Sets Search Committee for New Lab Director

Universities Research Association, Inc., (URA), manager of Fermilab for the U.S. Department of Energy, has announced the make up of the URA Search Committee for Director of Fermilab, which will seek a replacement for Director Leon M. Lederman. Lederman has announced his retirement effective July 1, 1989.

Committee members from the URA Fermilab Board of Overseers are Harold K. Ticho (Chairman), Vice Chancellor for Academic Affairs, University of California, San Diego, (who chaired the Search Committee ten years ago following Robert R. Wilson's resignation from Fermilab); Kenneth Heller, School of Physics and Astronomy, University of Minnesota; Albert Silverman, Newman Laboratory, Department of Nuclear Studies; and Robert R. Wilson, Professor Emeritus, Cornell University, and Director Emeritus, Fermilab. Raymond L. Brock, Department of Physics and Astronomy, Michigan State University, will represent the Fermilab Users' Exec-

utive Committee. *Ex-officio* members of the Search Committee are Edward A. Knapp, President, URA; and Harry Woolf, Institute for Advanced Study, and Chairman of the URA Fermilab Board of Overseers.

According to Ezra D. Heitowit, Vice President of URA, the Search Committee will hew closely to the procedure which eventually brought Lederman to Fermilab's directorship: The Committee will invite recommendations, place an ad in prominent publications, and conduct interviews at the Lab.

"URA is strongly committed to Fermilab," Heitowit said, "and we foresee a healthy physics program at the Lab for at least the next ten years, regardless of developments at the SSC.

"The Committee is embarking on its search mindful that, while Leon Lederman cannot be replaced, we must find, in his successor, someone who will continue to guide Fermilab with equal vision and wisdom." ❁

### *Re: organization*

## Accelerator Division Has New Head, New Goals

At the Accelerator Division meeting on December 6, 1988, Fermilab Deputy Director John Peoples announced the appointment of Gerry Dugan, formerly Head of the Pbar Source Department, as Division Head, replacing Helen Edwards. Michael Harrison, formerly Head of the Main Accelerator, will become Deputy Head of the Division, and will focus his attention on the proposed TEVATRON upgrade. These appointments and others within the Division (see page 2) become effective on January 1, 1989.

Dugan set out specific operational goals for the Division, including continued good reliability for the Accelerator, increased luminosity for the Collider, more intensity for the next fixed-target program, and work on plans for the aforementioned TEVATRON upgrade.

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## TSS/MDTF Reorganizes in Light of Future Programs

As of November 1, 1988, the Technical Support Section (TSS) Magnet Development and Test Facility was reorganized into two groups. Gerry Tool (formerly of the Accelerator Division Electrical/Electronics Support Department) became Head of the Magnet Test Facility (MTF). Jim Strait became Head of the Superconducting Magnet R&D Group at Lab 2.

This separation of effort reflects two large and vitally important tasks facing the TSS.

The first is to build up MTF to meet testing needs of the TEVATRON upgrade and SSC programs. The Low-Beta Quad project is the first of the TEVATRON upgrades. If funding is approved, plans call for a new 150-GeV Main Injector, followed by a new

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**"Accelerator" continued from page 1**

The future of the TEVATRON upgrade will be one of the subjects addressed by a subpanel of the High Energy Physics Advisory Panel (HEPAP), which will review physics potentials from the present up to the Superconducting Super Collider (SSC) era. According to Peoples, Don Edwards, who is leaving his post as Accelerator Division Associate Head for Accelerator Systems, will pull together a report which will bring into sharp focus the details of Fermilab's upgrade proposal. Based on the subpanel's findings, HEPAP will then make recommendations to Robert O. Hunter, Jr., Director of Energy Research for the Department of Energy (DOE).

In other Accelerator Division organizational changes: Stephen Holmes will become Head of the Main Accelerator Department, with David Finley Associate Head (TEVATRON) and Phil Martin Associate Head (Main Ring). Jack McCarthy will become Head of the Injector Department, with John Marriner Associate Head (Pbar Source), Vinod Bharadwaj Associate Head (Booster), and Gerry Jackson Associate Head (Instrumentation).

Peoples closed the meeting by extending the Lab's thanks to Don and Helen Edwards, who are joining the Universities Research Association team presenting an SSC M&O contract proposal to DOE. Peoples noted that the Edwards' had worked on nearly all of Fermilab's accelerators, and were instrumental in the continuing success of the TEVATRON Collider. ❀

**"TSS/MDTF" continued from page 1**

new TEVATRON with an energy of 1.5 to 1.8 TeV. The success of the SSC program will also critically depend on the resources of MTF for magnet testing over the next several years.

The second task is to build up our capabilities for advanced superconducting magnet R&D. Most of the R&D testing is centered in Lab 2 in the Village. Important work remains in the refinement of the design of the magnets for the Low-Beta Quad program. New design features in the SSC dipole must also be developed and evaluated in Lab 2 in anticipation of SSC dipole fabrication at Fermilab. Finally, the development of an 8-tesla dipole for the new TEVATRON will press magnet technology well beyond the current state of the art. - **Paul Mantsch**

**Next in the Arts & Lecture Series:**

**The Waverly Consort - January 29, 1989 - \$11**

"10 brilliant singers and players performing music of the Renaissance." This program of English and Italian Renaissance music is titled "Sing We and Chant It."

A free pre-concert lecture/demonstration by musicologist Eugene Enrico and the Waverly Consort explores the musical connections between Italian and English music of the late 16th century, and a special souvenir program booklet for each audience member is being provided with assistance from the National Endowment for the Humanities.

For more info, call ext. ARTS. - **Tammey Kikta**

**Benefits Notes**

**Supplemental Retirement Accounts (SRA)**

Effective January 1, 1989, all employees are eligible to participate in an SRA even though they may not be eligible to join the regular retirement plan.

The SRA is funded by employee-only tax deferred contributions. The amount eligible for tax deferral is subject to IRS regulations. Currently, the Lab offers several SRA's: TIAA-CREF, Fidelity, Dreyfus, and T. Rowe Price. SRA information is available from the Benefits Office.

**Fidelity SRA**

Fidelity Investment is converting to a computer system specifically tailored for retirement-plan record keeping. This system will provide participants with a consolidated statement for all fund activity in their 403(b) account. Participants will no longer receive separate statements for each fund, each quarter, but one statement for their entire 403(b) account. Statements will be sent to participants two to three weeks after the end of each quarter.

Beginning calendar year 1989, a \$12 annual maintenance fee will be assessed. This fee will be deducted in December of each year. If you close your account at any time during the year, the fee will be deducted at that time.

Please call Fidelity Retirement Services at 1-800-343-0860 if you have any questions.

- **Paula Cashin**

## A Day of Celebration Marks Fermilab's 20th Anniversary and the Dedication of the Feynman Computing Center

Fermilab was awash in dignitaries, pomp, and circumstance on December 2, 1988, when the Laboratory acknowledged the past in celebrating the twentieth anniversary of the groundbreaking for the Lab, and looked to the future with the formal dedication of the Feynman Computing Center.

The late Richard P. Feynman (1918-1988), after whom the Center is named, was hailed by Fermilab Director Leon M. Lederman as "one of the giants of our age in theoretical physics. His contributions to the body of our understanding are as many as they are profound. Quantum electrodynamics was perhaps the jewel of his oeuvres, but his ability to teach and communicate were legendary and included Feynman diagrams ('computational power for the masses') and Feynman lectures for college freshmen (and their professors). . . In naming this Center after him, it is our fervent hope that out of this architecturally elegant computer house, good science will emerge which would have pleased him very much."



*Leon M. Lederman speaking at the Dedication of the Feynman Computing Center. Behind him on the dias are (l. to r.) Carl Feynman, Gweneth Feynman, Jeffrey A. Appel, Hilary J. Rauch, Robert R. Wilson, and James D. Bjorken. Not pictured: Joan Feynman.*

Feynman shared the 1965 Nobel Prize in Physics for his work in quantum electrodynamics. He also formulated the so-called "Feynman diagrams" as a way of visualizing the intricate mechanisms of subatomic physics, and as a guide to the calculations required to describe the basic interaction processes. These calculations are among those done on the computers at the Center.

The dedication ceremony, which began at 12:00 noon at the Center, was attended by Richard Feynman's wife, Gweneth; his son, Carl; and his sister,

Joan. After introductions by the Director, James D. Bjorken, until recently Associate Director at Fermilab and now with the Lab's Theoretical Physics Department, spoke on "Feynman the Physicist." Fermilab Director Emeritus Robert R. Wilson, who served as architectural consultant to the design of the building, reminisced about "Early Days with Feynman." Hilary J. Rauch, Manager of the Department of Energy's (DOE) Chicago Operations Office, delivered "A Word from Our Sponsor," and Jeffrey A. Appel, Head of the Fermilab Computing Department, ended the ceremony with observations on "Building for the Future."

Designated the Central Computing Facility during construction, the Center is now home to the Lab's Digital Equipment Corporation VAX Cluster, the Amdahl 5890/300 scientific computer (soon to be doubled to an Amdahl 5890/600), and various support elements of the Computing Department, such as the Instrument Repair Group, the Data Acquisition Hardware Groups, and the Physics Research Equipment Pool.

Funded by a Congressional Line Item, the project's goals are stated to be a five-fold increase in "the computing capacity available for scientific applications and to provide new space for these and related activities," according to the Department of Energy's description.

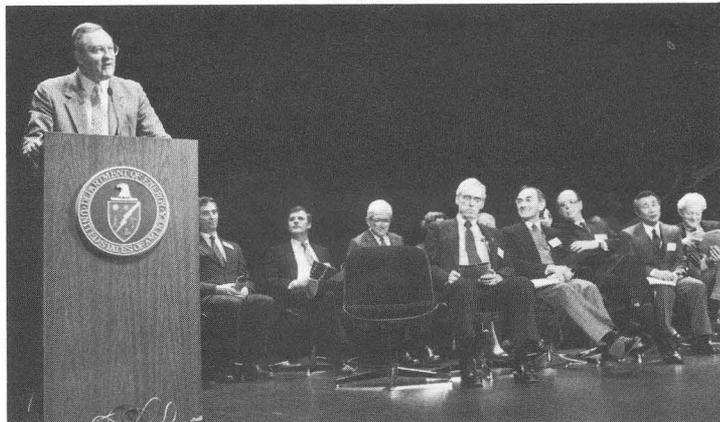
"The new building provides growth space. . . for a decade and beyond," said Appel. "In addition, the facility allows for upgrades without interruption to the current system."



"The Next Twenty Years," the formal segment of Fermilab's twentieth-anniversary observation, began with a luncheon address by Bill Kurtis, WBBM-TV (Channel 2) anchorman, and continued with a program in the Ramsey Auditorium. Leon Lederman again served as master of ceremonies, introducing the invited speakers: Illinois Governor James R. Thompson; Harris W. Fawell, Member of Congress from Illinois' 13th District; Robert O. Hunter, Jr., Director of the DOE Office of Energy Research; Harry Wolf, Chairman of the Universities Research Association Fermilab Board of Overseers; Leonardo Baroncelli, Consul General of Italy; Haruhiko

*Continued on page 4*

## Celebration" *continued from page 3*



James R. Thompson speaking from the stage of the Ramsey Auditorium. Speakers and members of the platform group shown in the photo include (l. to r.) Fermilab Deputy Director John Peoples; Jeffrey Miller, Thompson's Chief of Staff; Norman F. Ramsey, past President of URA; Harris Fawell; Harry Woolf; Leonardo Baroncelli; Haruhiko Shibuya; and Leon M. Lederman.

Shibuya, Consul General of Japan; and Michael Witherell, Professor of Physics, University of California, Santa Barbara. The program concluded with the first showing of "Water to the Ropes: The Evolution of an Accelerator," a videotape history of the Lab produced by Fermilab Visual Media Services.

And then it was time to party. Fermilab staff, visiting scientists, and invited guests ate buffalo burgers and partook of refreshment while they roamed the Wilson Hall Atrium, which was festooned with paraphernalia evocative of the Fermilab site's prairie history, including a tee-pee, hand-painted old-west street scenes, and "covered wagons," and peopled by square-dancers, Indians, and a country-and-western band.

The food, the fun, and the festoons were pulled together by members of Laboratory Services Section (LSS) Head Chuck Marofske's intrepid party team:

J. Barry, C. Sazama, and B. Burwell of the LSS/Accommodations Department, including M. McAuliff, R. Bahr, S. Cannon, J. Dieter, K. Falkner, C. Love, E. Martins, M. Oudt, D. Pegues, J. Pesetski, I. Schramer, O. Smith, E. Stupak, J. Sullivan, H. Thompson, M. Valenzuela, and A. Valesquez of Food Service; and C. Bentham, M. Garcia, P. Naber, L. Olson-Roach, M. Snyder, B. Kobiella, D. Lee, I. Corral, H. Jensen, M. Perez, M. Schomer, and J. Snyder of the Housing Office.

Representing the Activities Office were M. Paul, E. Berry, J. Guyer, and S. Winchester.

The Business Services Section (BSS)/Buildings Management crew: P. Loomis, N. Barnes, R. Fonseca, J. Hernandez, R. Skokan, and J. Trevino, as well as the personnel of Custodial Contract Management.

From BSS/Emergency Services: R. Dorner, and G. Verseput and Security contract personnel; Roads & Grounds crew members B. Hall, R. Lootens, W. Becker, C. Chandler, D. Cooper, M. Garcia, S. Grumboski, D. Hanson, J. Kalina, R. Kujath, L. LaSourd, B. Needham, A. Parker, J. Plese, D. Shemanski, L. Thomas, O. Trevino, and C. Winders.

LSS/Publications Office services were provided by R. Fenner, S. Hanson, and S. Novack.

LSS/Visual Media Services support came from F. Ullrich, S. Colson, R. Hahn, J. Olsen, and M. O'Toole. L. Johnson and J. Stevens provided Duplicating support.

M. Cullen and J. Lemke pitched in from the Directorate, as did P. LaVallie from the Lab Services Section Office.

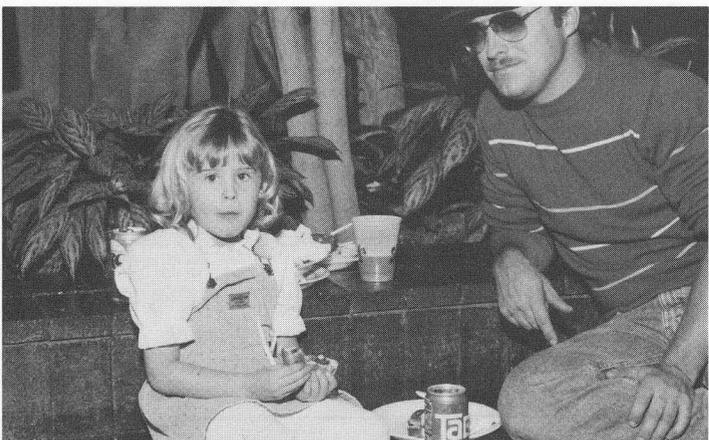
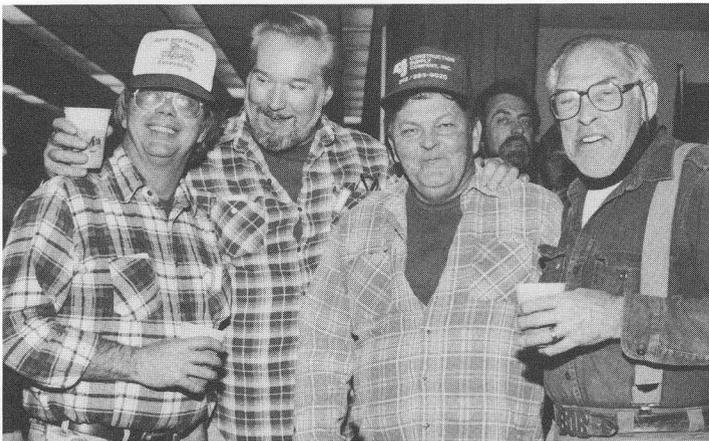
Fermilab Artist A. Gonzales provided the designs for the poster and kerchief sent to all employees.

Universities Research Association picked up the check.

The photos (by R. Hahn of Vis. Med. Serv.) on this page and page 5 tell the rest of the story.

*(The bulk of the information contained in the Feynman Computing Center Dedication segment of this article was supplied by the Fermilab Public Information Office.)* ❁





## ***Trudy's News from NALREC***

If the holidays don't have you partied out, the **Employees' Christmas Party** on Thursday, December 22, at the Village Barn will be a blast beginning at 5:15 p.m. Music will be furnished by the *very popular* Hometown Boys from Elburn, Illinois. For more info, call Pat LaVallie at ext. 4365 or me, Trudy, at ext. 3228. - **Trudy Kramer**

### **Mileage Reimbursement Increases**

Since January of 1985, when Fermilab's mileage reimbursement rate was set at 20.5 cents per mile, the government's index of automobile fuel costs has increased and the Internal Revenue Service has revised their allowable rate for business use of personal autos.

Effective December 1, 1988, the mileage reimbursement rate for business use of personal autos is 22.5 cents per mile. - **Chuck Marofske**

### **A Note to Fermilab Authors:**

Authors of Fermilab preprints, FN's, and TM's can send their manuscripts via the VAX Cluster to the Publications Office at WH6NW\_PRINT. The Talaris printer at that queue address will support MASS-11 and LaTeX formats.

We ask authors to include an accompanying note specifying:

1. Mail station and extension/off-site telephone number, and experiment number, if appropriate.
2. The category of publication (preprint, FN, TM) for that particular manuscript.
3. Complete information on the journal or conference (if any) to which the manuscript has been submitted.
4. The number of author copies (if any) desired.

Authors who wish to continue the past practice of delivering a hard copy of a manuscript to Publications are, of course, free to do so.

Please send manuscripts electronically during normal working hours only (8:30 a.m. - 5:00 p.m., Monday through Friday).

Ratio of engineers to lawyers graduated each year in Japan: **10:1** In the United States: **1:10**

Tons of jelly beans the White House has purchased from the Goelitz Candy Company since 1981: **12** - from *Harper's Index*

## **FermiNews Cla\$\$ified Ad\$**

### **FOR SALE**

#### **Motorized Vehicles:**

1982 FORD ESCORT, 4 spd, good condition, very reliable. \$1000. Call John Holm at ext. 4420 or 820-8176 after 5:00 p.m.

1983 RENAULT LE CAR, sport 3-door, 59,000 mi, rally lights, tach, sun roof, A/C, 4-spd, mag wheels, cloth interior, good cold-weather starter, front wheel drive. \$1200 or best offer. Call Ernie at ext. 3626 or 815-895-6823.

1986 MUSTANG LX HATCHBACK, white, w/V-6 engine, factory T-tops, auto. trans., A/C, premium factory stereo/cassette, full power incl. windows and locks, tilt, cruise, alarm, transferable warranty, extra clean. \$7995. Call Jon at ext. 3281 or 355-7075 evenings and weekends.

#### **Miscellaneous:**

TWO STEEL-BELTED SNOW TIRES, G78-15, one mounted on Chevy Caprice wheel. \$25. ONE 8-FT SLIDING GLASS DOOR, bronze color, good condition. \$50. Call James Engelbrecht, ext. 4073.

CRAFTSMAN 10-IN. FLEXIBLE DRIVE CHAIN SAW, \$225. CRAFTSMAN 12-IN. BAND SAW/SANDER. \$175. (Both for \$350). Call Rich at 879-5896 after 6:00 p.m.

TWO SIAMESE CATS, show quality, 18 mos. old, spayed, all shots, A.C.F.A. registration, allergy forces sale. Call 668-6726 evenings.

SEARS 4-BURNER GAS STOVE, white, w/hot plate in center, oven, broiler, excellent for canning. Call Tom at 393-2336.

SEARS PORTABLE CLOTHES WASHER, good condition, \$150 or best offer (\$450 new). Call Jim at ext. 3435.

### **FOR RENT**

BATAVIA HOME on west side, 4 or 5 bedrooms, full basement, two-car garage, near high school, no dogs, short-term lease. \$900/mnth. Call Harvey Bruch, 896-8919 after 6:00 p.m.

TWO-BEDROOM APARTMENT, 1-1/2 baths, five minutes from Fermilab, close to I-88, heat included. \$550/mnth. Call Dejan Trbojevic, 851-4208.

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