

FermiNews

The Newsletter of the Fermi National Accelerator Laboratory

F. O. Box 139
Batavia, IL 60510

JOEL BUTLER APPOINTED COMPUTING DIVISION HEAD

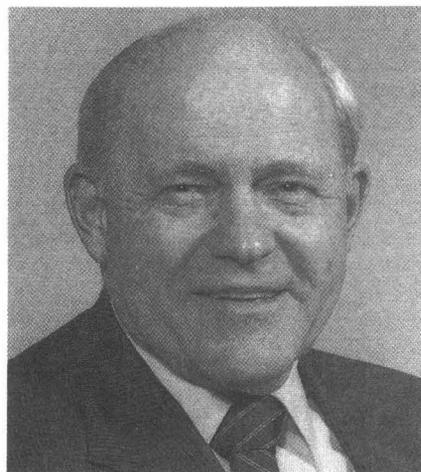
JOEL BUTLER, former deputy head of the Computing Division, was appointed head of the Computing Division effective January 1. Joel replaces TOM NASH who is now associate director for scientific technology and laboratory information.

Under Joel's leadership the Computing Division will continue its role of providing computing support for the experimental program and try to expand its support for the Lab staff. "Over the last few years we solved the problem of reconstructing events for the major

collider and fixed-target experiments. We are now working on providing quicker access to the data."

The division is also trying to find easier ways of communicating using computers. They have begun networking initiatives such as teleconferencing and bringing ISDN (integrated service digital network), a high speed data connection, into the homes of some employees. In addition, the division will embark on a new mission to foster collaboration with industry and to initiate projects and activities in high-performance computing. "We can learn a lot from other disciplines," said Joel.

Joel said he will be working with his staff to continue the work that Tom initiated. "The division was formed because of the increasing role computers were playing at the Lab and Tom Nash was its founding father. VICKY WHITE (the division's new deputy division head) and I will try to meet the challenges and improve on the Lab's computing needs." ■



John Toll

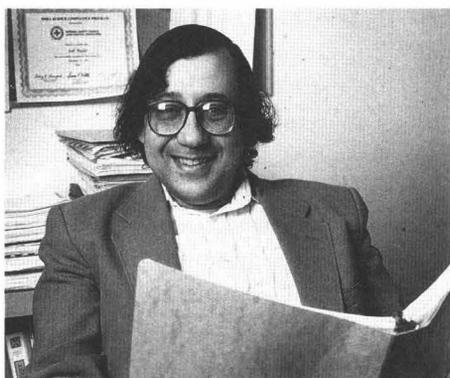
URA HEAD JOHN TOLL RESIGNS

Universities Research Association president John Toll has announced his resignation, effective upon selection of a new president.

Toll has headed the consortium since December 1, 1989. He said he felt that under his leadership, URA "made real progress, but unfortunately we lost the SSC." Toll added, "It is very important we support Fermilab. We could better defend (it) with a new leader."

A search is currently underway for a new president.

URA is a private, not-for-profit consortium of research universities that operate Fermilab and the SSC for the U.S. Department of Energy. ■



Joel Butler

FermiNews

Friday, February 18, 1994 • Volume 17, Number 3



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Supercomputing 93 page five

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FFLA: A HISTORY OF GIVING TO SCIENCE EDUCATION

In 1982, a small group of educators, laboratory physicists and energetic volunteers met to discuss ways in which Fermilab's unique intellectual and physical resources could be used to enhance precollege science education. The group developed its first program, a summer institute for science teachers, and aggressively sought funds from the private sector — foundations, corporations and individuals — to underwrite the program. In order to provide the legal framework for receiving private grants, the group drew up articles of incorporation as Friends of Fermilab (FFLA), a not-for-profit membership corporation under the aegis of a volunteer board of directors.

With the enthusiastic support of Leon M. Lederman, then Fermilab director, the young organization grew and prospered. The need was clear — teachers were seeking innovative methods of making science teaching more effective. Their students, from kindergarten through twelfth grade, yearned for science classes that would capture their interest and imagination. FFLA developed programs to meet the demand and teachers and students flocked to

Fermilab in ever-increasing numbers. Additional grants from federal and state agencies were garnered to meet FFLA programming needs as programs grew dramatically in both number and scope. Representatives of national laboratories throughout the U.S. visited Fermilab to observe how the partnership between Fermilab and FFLA provided the fertile soil to nurture successful precollege science education.

In the late 1980s, the Department of Energy emphasized the importance of improving precollege science education and acknowledged the federal government's responsibility in this field. At the same time, one of FFLA's earliest goals was being realized with the development on-site of a dedicated education building, the Leon M. Lederman Science Education Center.

In 1989, the Fermilab Education Office was established to provide a central administrative structure for the Lederman Science Center and other science education programs developed through FFLA for the Education Office. Precollege science education was thus formally incorporated into the



The 1989 Friends of Fermilab Board of Directors: (l to r) C. Marofske, G. Reed, J.I. Peters, J. Meyer, J. Tollestrup, R. Fieseler, M. Cox, J. Fisk, G. Zahrobsky and M. Bardeen. (Not shown) S. Jovanovic (president), V. Ball, D. Green, C. Hill, B. Lach, L. Lederman, C. Safanda, D. Schramm, J. Schramm, M. Turner, C. Viola, W. West and C. Woods.

All members of the Fermilab community are invited to join Friends of Fermilab and contribute toward the continuing success of precollege science education programs.

Laboratory.

Through years of work, FFLA has delivered a thriving precollege science education program to the Laboratory. As a private corporation, FFLA was able to continue to provide services essential to the Laboratory's education mission that the Education Office, by its very nature, could not. These services included both federal grants-seeking and private fundraising as well as liaison to the regional education and business communities. FFLA funds can be used with greater flexibility than Laboratory budgets and FFLA, with oversight from a board of directors, operates with an independence that permits the organization to respond to challenges promptly and effectively. And FFLA's membership structure gives both the Laboratory and the education community opportunities to be involved with science education.

In 1989, a Memorandum of Understanding (MOU) between Fermilab and FFLA was signed by Director JOHN PEOPLES and a FFLA board member. The MOU formalized Fermilab's commitment to support FFLA and at the same time secured the FFLA board's

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F E S S - U P

*The Confessions of a Section Seeking World Class*FROM THE
SECTION
OFFICE

As promised, The FESS customer service survey was sent out in January to 250 key customers. The responses to this survey are due back to FESS by February 14, 1994.

Once the replies are in, we will take the information and establish a baseline to track our progress in meeting our customers' expectations. We will be posting our results monthly and invite you to drop by WH5E to look at our charts and discuss them with us.

■ PROGRESSION

As part of its predictive maintenance

program, the Operations and Maintenance (O&M) group has a contract with a vibration analysis vendor to bi-annually test the Laboratory's critical rotating equipment. Reports are now back from the tests run in December 1993. The information contained in the reports will help the O&M staff to identify problems with rotating equipment such as misalignment, imbalance and lubrication. The information will also help the group to establish a database that will show bearing condition trends. This nondestructive testing on over 150 pieces of critical equipment will make it possible for O&M to schedule maintenance on this equipment before it breaks down.

■ MAIN INJECTOR UPDATE

Eighteen bids for the continuation of the Main Injector Enclosure, the largest of the Laboratory's civil projects,

were received on January 11, 1994. The low bidder was Wil-Freds of Aurora. Wil-Freds is no stranger to our site, having constructed Industrial Buildings 1 & 2 in 1970 and the Antiproton Enclosure and Service Building in 1984.

The first precast concrete enclosure elements were produced the first week in February and the erection of the structural steel frame for Service Building MI-60 began a week later. While these projects have been delayed by the severe weather, the site preparation work has progressed well with the

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Work Request Center

Telephone x3434, Fax x8769

Mail Station 300

PEOPLES ELECTED AAAS
FELLOW

The American Association for the Advancement of Science recently announced the election of JOHN PEOPLES to the rank of Fellow. John was elected by his peers in AAAS. The only AAAS members eligible to attain this rank are those whose efforts on

behalf of the advancement of science or its applications are scientifically or socially distinguished.

AAAS is the world's largest general science organization and numbers more than 134,000 members worldwide. The

association publishes the journal *Science*; provides unbiased and accurate information on science and technology to the government and works to improve science, mathematics and technology education.



F E S S

FERMILAB FACILITY FACTS:
7,980 rolls of paper towels and 5,520 rolls of toilet paper were used site-wide during the period of July 1992 to July 1993.

installation of temporary power, duct banks, underground utilities and concrete box culverts now more than 60% complete.

■ BETTER FOR YOU

Snow removal at Fermilab is a team effort. In addition to the full crew available from Roads and Grounds, employees from Business Services, Accelerator Division and Laboratory Services (23 in all), can also be called upon when needed. When conditions such as snow-packed roads, blowing and drifting snow, sleet or icing exist, the team is activated. During off hours the security captain determines if any of these conditions exist and calls a lead groundskeeper. The lead groundskeeper then calls out the appropriate number of employees.

During a major snow, the Roads and Grounds crew are asked to work around the clock. They are given a two-to-three hour sleep break during the night. A bunk room is located on the mezzanine level of the Roads and Grounds building at Site 37.

The crew has a full complement of equipment to fight winter's nastiness. Six dump trucks with salt spreaders and snowplows, six pick-up trucks with snowplows, three end loaders and various snow blowers and hand tools are used to combat severe conditions and keep the 80 parking lots, 50 miles of roads and innumerable walkways and stairways around the site free of ice and snow. There is also a contract in place for help during larger storms, adding an additional dump truck, two pick-up trucks, one end loader and accompanying contractor personnel.

The Roads and Grounds crew are a team whose goal is to make the Laboratory's roads and grounds clear and safe to use by you, their customer.

■ AT YOUR SERVICE

A Crane Management Office (CMO) has been established within the Operations and Maintenance (O&M) group. This office is in the process of locating the various types of cranes at Fermilab and identifying them. It is the intent of the CMO to provide users and operators with the documentation required

by OSHA and DOE regulations, repair history, annual inspections and information regarding required daily inspections. Please call x3250 for additional information or with your questions.

■ WINTER WEATHER VS. YOUR BUILDING

O&M personnel toured various buildings with building managers during the subzero temperatures to alert them to water line freeze up and precautions to take to prevent freeze up. In addition, O&M dispatched crews on a daily basis to check certain site buildings where water services were located. Heating systems and outside air dampers were also checked for correct operation.

Building managers are asked to monitor their buildings for potential problems. Special notice must be taken during thawing periods to check frozen lines for possible leaks, and roofs must be monitored for standing water due to frozen gutters and roof drains.

FRIENDS OF FERMILAB

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commitment to continue to seek funds for programs to be operated by the Fermilab Education Office. The MOU was further defined in 1990 by a Cooperative Educational Agreement between FFLA and Universities Research Association, and this agreement has since

been extended until fall 1995.

All members of the Fermilab community are invited to join Friends of Fermilab and contribute toward the continuing success of precollege science education programs. Membership,

which is tax-deductible, can be conveniently arranged through payroll deduction. For information on membership events and benefits as well as information on education programs, call STANKA JOVANOVIĆ at x3092 —*Barbara Grannis.*

FERMILAB'S COMMUNITY WORKS TOGETHER FOR CONFERENCE

Due to the hard work of many individuals across divisions and sections, Fermilab's participation in Supercomputing 93, an international technology conference, proved to be quite a success.

This conference is the "event of the year" for people who use and provide supercomputing, said BETSY SCHERMERHORN (CD). To gear up for such an event, people from the Laboratory's Computing Division, Laboratory Services Section, Business Services Section, Physics Section and Directorate all provided help.

Major computer companies, different scientific and research communities and government representatives participated in the conference, held in November in Portland, Oregon. Events

included research exhibits (such as Fermilab's), tutorials, symposiums and technical and poster sessions.

Participation in the event requires the approval of a selection committee. This is the third year Fermilab has participated in the event. At the Laboratory's 30'x30' research exhibit, Fermilab personnel demonstrated our computing features at four stages of the high-energy-physics investigation cycle: theoretical calculation, data acquisition and triggers, event reconstruction and analysis. Included at the exhibit was a miniature ACPMAPS computer; a workstation farm; a workstation-based demonstration of data acquisition, triggers and parallel data recording; a prototype analysis server; and a Mac-based interactive, multimedia kiosk that provided background information of high-



Lab employees pose in front of the computing exhibit prior to its shipment to the Supercomputing 93 conference in Portland, Oregon.

energy physics at Fermilab.

Betsy added that although many people in the Computing Division were involved in the exhibit, many others outside that division helped as well. "Assembling all this technology, coordinating it into a display, debugging the prototype, shipping it to Portland, setting it up again, looking after it for nearly a week, knocking it down and getting it home again was a mighty ambitious undertaking."

FFLA/Education Office Get High Marks at Review

In order to map out a strategy to maximize its potential as a provider of precollege science education programs, JOHN PEOPLES invited an external review committee to Fermilab in May 1993 to review the Fermilab Education Office and its programs. The seven-member committee was chaired by Professor Lynn W. Glass of Iowa State University. Its members included four physicists, two biologists and one chemist, all of whom brought a strong and broad background in science and science education to their task. In its report, the Visiting Review Committee gave Fermilab's Education Office high marks. Since precollege science education programs are thriving at Fermilab and the Leon M. Lederman

Science Education Center has been such a success, the committee's findings came as no surprise. The committee's praise for Friends of Fermilab (FFLA), however, confirmed the view of those who appreciated the importance of the partnership between FFLA and the Education Office.

FFLA was cited for its historically important role in the inception and development of science education programs. The committee noted FFLA's evolving mutually beneficial partnership with the Education Office and defined a role for the future of FFLA as a resource providing assistance and support to the Education Office. The committee also recognized FFLA's roles as fundraiser,

program promoter and link to the business and academic communities. Finally, it counseled representation for FFLA on the advisory board that reports to the director.

The Education Office emerged from the review process with sharper goals and with an increased potential for a continued positive impact on precollege science education. At the same time, by recognizing the crucial role FFLA plays in the success of Fermilab education programs, the review also gave the Fermilab community a greater appreciation of FFLA's continuing importance to Fermilab's mission in precollege science education.—*Barbara Grannis*

People & Events

MILLS TO RETIRE

Long-time employee JACK MILLS is retiring February 23, 1994. Jack began working at the Laboratory on November 15, 1979 in Plant Maintenance, currently FESS/O&M. He worked for several years in FESS/Engineering & Planning and recently transferred back to FESS/O&M.



Jack said he enjoyed working at the Lab and found it interesting and challenging. "I liked the atmosphere," he said.

After retiring, Jack plans to spend seven to eight months of the year in Sterling, Alaska fishing and hunting. He said he will eventually establish residency in the land of the midnight sun.

WINDERS TO RETIRE

CLARENCE WINDERS, a groundsman with FESS/Roads & Grounds Department since January 12, 1971, will retire from the



Laboratory February 25, 1994.

His colleagues at Roads & Grounds said Clarence will be remembered for his help in planting several thousand trees in his 23 years at the Lab and for time spent herding the buffalo.

After he retires Clarence plans to spend more time with his black powder gun collection and finishing those "elusive home projects."

ARTS SERIES PRESENTS

THE LARK STRING QUARTET: Winners of 1990 Naumburg Chamber Competition and 1991 Shostakovich International Competition

"The Lark unsheathed a glittering array of timbres...they are women of extraordinary musical ability."—*Washington Post*

Since the ensemble formed in the mid-1980s at Juilliard, this group has been on a continuous ascent to international renown and critical acclaim. Beginning with their gold medal winning performance at the Banff Competition in 1986, the Lark Quartet then went on to win top prizes at the major competitions of the world: Naumburg, the Shostakovich International Competition, the London International Com-



The Lark String Quartet

petition and other festivals in Italy, Germany and Australia. This outstanding ensemble brings their contagious enthusiasm for the string quartet repertoire to Ramsey Auditorium on Saturday, March 5 at 8 p.m.

The group, which is all women by chance, not choice, is noted for its passionate and thoughtful ensemble playing as well as its flawless execution. The program at Fermilab will feature Mozart's Quartet in B-flat, K. 589; Schnittke's String Quartet No. 2; and Mendelssohn's String Quartet in D, Op. 44, No. 1.

Don't miss the Lark String Quartet. Tickets are \$10. For further information or telephone reservations, call xARTS weekdays from 9 a.m. to 4 p.m.

WILSON SYMPOSIUM

An international symposium and tribute in honor of ROBERT R. WILSON on his 80th birthday, *Celebrating an Era of Courage and Creativity*, will be held March 4 in Ramsey Auditorium from 9 a.m. to 4:30 p.m. Copies of the preliminary program are available from Jean Lemke, Director's Office, x3211.

MOVIES

The Fermilab International Film Society presents movies at 8 p.m. Fridays in Ramsey Auditorium. Admission is \$3 for adults, \$.50 for children 12 and under.

■ February 25

Prospero's Books. John Gielgud stars in this bawdy rendition of Shakespeare's *The Tempest*. Peter Greenaway, dir. Great Britain, 1992. (102 min.)

HARASSMENT SEMINAR

The Wellness Works Committee is sponsoring a presentation by DIANE ENGRAM of the Equal Opportunity Office on *Sexual Harassment in the Workplace: What is it? What are your Rights?* The talk will be held on February 24 from 12 noon to 1 p.m. in the WH 1W Conference Room.

NALREC NEWS

Don't miss the Carnaval Brasileiro party tonight, February 18, at the Village Barn from 5:15 until 10 p.m. Music will be performed by Som Brazil. Brazilian chicken, rice and dessert will be available for \$2.50. Costumes are optional.

Harper's Index

Chances that a supermarket customer in an express checkout line has more than the allowed number of items:

1 in 4

Average duration of a yawn, in seconds:

6

NALWO ACTIVITIES

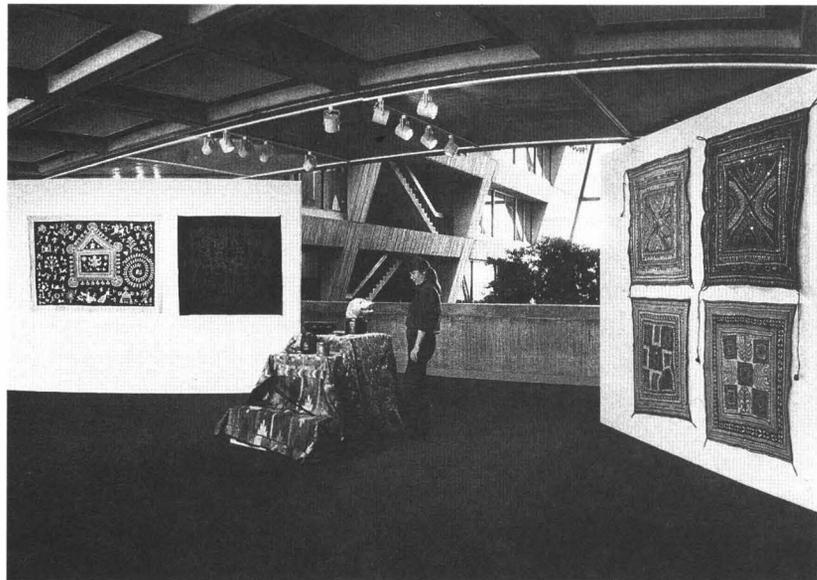
Nalwo will present a series of three slide presentations and discussions of the art treasures from the Art Institute of Chicago followed by a visit to the museum. BRENDA KIRK will give the talks on Friday mornings, February 25, March 4 and March 11 from 10:30 to 11:30 a.m. in the Users Center. She will then lead a trip to the Art Institute on Tuesday, March 15, leaving from the Users Center at 9:30 a.m. and returning there by 3 p.m. Bus fee is \$3, museum admission is free. Please attend one or all of

these art appreciation events! Call Brenda at x3440 or Selitha at 708-305-7769 for more information and to register for the bus trip.

Nalwo invites all Lab employees, associates, visitors and guests to a potluck supper at the Village Barn on Friday, March 11 from 5:30 p.m. to 8 p.m. Please bring a dish to share or pay \$3 at the door. All adults also contribute \$1 towards drinks. Pizza and babysitting are provided downstairs for children.

Congratulations!

To ROGER SLISZ (FESS/Roads & Grounds) on his engagement to JEAN KIDD (LSS/Publications). A wedding date has not been set.



Art Gallery Displays Work on India

Sheila Colson (LSS/VMS) admires a piece of sculpture on the Second Floor Art Gallery. The Gallery is currently exhibiting *India: Living Arts Unknown Masters*, folk art from the May Weber Cultural Arts Collection. The exhibit is on display through March 31.

May Weber of the May Weber Cultural Arts Foundation said the collection allows others to share the innocent, uncomplicated Indian attitude of passionate delight in the senses.

RESEARCHERS CHOSEN APS FELLOWS

The American Physical Society announced the election of Lillian Hoddeson, Stephen Holmes, Joseph Lach, Ernest Malamud and Catherine Newman-Holmes to the rank of Fellow.



Lillian Hoddeson

LILLIAN HODDESON (Directorate) was cited by the Forum on History of Physics for "organizing and providing written records of 20th century history of physics through projects and conferences covering solid-state physics, particle physics and national laboratories."



Stephen Holmes

STEPHEN HOLMES (AD)

was cited by the Division of Physics of Beams for "his leadership in the Antiproton Source, Booster and Main Injector design at Fermilab."

JOE LACH (RD) was cited by the Division of Particles and Fields for "work on techniques to produce beams of hadrons and measurements with

them to study hadron interactions. For precision measurements of hyperon polarization, their decays and magnetic moments."

ERNEST MALAMUD (Directorate) was cited by the Forum on Education for "his leadership in creating an innovative science museum which demonstrates complex concepts of modern science and technology in an attempt to raise science literacy amongst students and adults."

CATHERINE NEWMAN-HOLMES (RD) was cited by the Division of Particles and Fields for "contributions to the study of the W and Z bosons with the CDF detector and to the observation of new mesonic states in J/ψ decays."



Joseph Lach



Ernest Malamud



Catherine Newman-Holmes

LIBRARY NEWS

NEW IN THE LIBRARY

Many Particle Theory (tr. of Vielteilchentheorie). E.K.U. Gross, E. Runge, O. Heinonen. A. Hilger, 1991. QC174.17.P7 G7613 1991, locked cases.

Object-Oriented Programming. Peter Coad, Jill Nicola. Yourdon Press, 1993. QA76.64 .C62 1993, locked cases.

Clinical Positron Emission Tomography. Ed. by Karl F. Hubner et al. Mosby, 1992. RC78.7.T62 C56 1991, locked cases.

Image Reconstruction in Radiology. J. Anthony Parker. CRC, 1990. RC78.7.D53 P36 1990, locked cases.

3D Imaging in Medicine. Eds. Jayaram K. Udupa, Gabor T. Herman. CRC, 1991. R857.T47 A13 1990, locked cases.

The Electrical Engineering Handbook. Ed. by Richard C. Dorf. CRC, 1993. TK145 .E354 1993, reference.

Fundamentals of Engineering Electromagnetics. David K. Cheng. Addison-Wesley, 1992. TK153 .C442 1992, locked cases.

Differential Manifolds. Antoni A. Kosinski. Academic, 1993. QA614.3 .K668 1992, main.

Variational Methods in Mechanics. Toshio Mura, Tatsuhito Koya. Oxford U., 1992. TA347.F5 M87 1992, main.

Tensile Testing. Ed. by Patricia Han. ASM, 1992. TA418.16 .T46 1992, main.

A Guide to LaTeX: Document Preparation for Beginners and Advanced Users. Helmut Kopka, Patrick W. Daly. Addison-Wesley, 1992. Z253.4.L38 K66 1993, locked cases.

Internet: Mailing Lists. Ed. by Edward T.L. Hardie, Vivian Neou. Prentice Hall, 1993. TK5105.875.I57I56 1993, locked cases.

MAMMOGRAPHY SCREENINGS

The Laboratory is offering on-site mammography screenings for employees, retirees and spouses. The screening dates are March 14 to March 18. Screening times are Mon., Wed., Fri 8 a.m. to

5 p.m.; Tue., Thur. 8 a.m. to 3 p.m. Technologists from Delnor Community Hospital will conduct the screenings in the WH15NW conferenceroom.

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SUMMER HOUSING RESERVATIONS

The Fermilab Housing Office is taking reservations for summer accommodations. The deadline for receipt of reservations for on-site housing is March 4, 1994. Responses should be mailed out by April 15.

Requests can be for any period in summer and need not commence June 1. People currently in Fermilab housing may request extensions into the summer but are reminded that current occupancy does not guarantee placement.

All persons using housing for summer will be asked to state that they will make steady use of housing for the period they request. If the space will not be used for some portion of the visit, Housing should be notified. A

fee equal to two weeks rent will be charged to an individual or group if two weeks notice of cancellation or postponement is not given prior to the scheduled arrival.

Postponements are allowed on a one-time-only basis, for a maximum period of two weeks. After that it may be necessary to reassign the accommodation.

Double occupancy will not be employed for dormitory rooms unless requested. The charge for the second person will be \$4 per night.

ALLOCATION PRIORITY

1. Theorists: six houses or apartments and five dormitory rooms.

2. Long-term commitments (foreign experimenters at Fermilab under official exchange agreement).

3. Running Experiments

(a) Families: at least one house or apartment per experiment in this category.

(b) Individuals: at least one dormitory room per experiment in this category.

(c) Remaining dormitory rooms, houses and apartments will be assigned until as many requests as possible from persons in this category can be met.

The starting dates for summer occupancy will be staggered during the week of June 1. For further information, please contact the Housing Office at x3777, e-mail FNALV::HOUSING or Fax 2823.

MAMMOGRAPHY *continued from page eight*

Mammograms are a covered expense under the CIGNA PPO plan. Delnor is a PPO provider and is able to obtain a reduced rate for CIGNA PPO members. Mammograms qualify as part of the \$200 annual physical benefit under the CIGNA PPO plan. They will be covered at 100% unless you have al-

ready received your \$200 annual physical benefit for 1994, in which case, it will be covered at 90%, if you satisfied the \$100 PPO deductible.

Registration will be held February 24 from 11:30 a.m. to 1:30 p.m. in the WH Atrium. A consent form and a

brief medical history will need to be filled out. Men may register their spouses and pick up forms to be brought along to the test.

For further information, call the Benefits Office at x3395 or x4362.

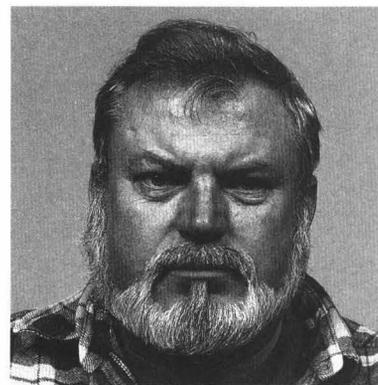
In Memoriam

TERRY LACHANCE of the AD/CHL Department passed away January 24. Terry started working at the Lab on March 7, 1983 in the RD/Cryogenics Department. After joining the Accelerator Division, he worked as a technical specialist in CHL.

Jerry Makara, CHL group leader, said, "Terry was a dedicated, hard worker who always gave 100% effort to his

job. As an excellent technician who went up the ranks to supervisor, his heartfelt concern for his fellow workers was exemplary. All of us will miss his talents, humor and overall good nature."

Terry, a resident of Yorkville, is survived by his wife Carol, his son Russell, his daughter Jaclyn and his mother and brother.



CLASSIFIEDS

■ VEHICLES

1992 Jeep Cherokee Lerado, 4-dr, burgundy, 34K, auto, power windows & locks, A/C, cruise, AM/FM/cassette, excellent condition, \$16,500. Call 708-393-6148 evenings.

1986 Toyota Corolla, 4 door hatchback, A/C, AM/FM/cassette, no rust, good condition, \$3,800 o.b.o.; 1985 Honda Accord, 2 door hatchback, A/C, AM/FM/cassette, no rust, good condition, \$3,300 o.b.o. Call 708-406-9256.

1980 Ford E-250 van, low miles, dependable, loaded, too much to list, \$2,000. Call Ed at 708-690-1145.

■ MISCELLANEOUS

Roy Jeffries (CD) and his dog Cody are seeking transportation to work and home again on Mondays. Arrival time is flexible. Home address is 370 Spruce St., Aurora. If you can be of assistance, call Roy at x3146 or 708-896-7393.

Airless sprayer, used twice, \$40; gas heater, "Modine," 150K BTU, good condition, \$75. Call Ed at 708-690-1145.

New (never used) set 1/3/5 Promotion metal woods w/stiff steel shafts, \$100/set. Call Dwight at x2233.

80MB Apple drive for Powerbook, \$100. Call Jim at x4460 or 708-717-7224.

Wells Cargo enclosed trailer 5' x 8', new tires, spare, \$1,150; 2 Design 12 speakers, \$100; car phone antenna, \$10. Call Greg at x3011.

4 tickets to The Mikado, Sat. Apr. 9, 1994 at the Norris Center, St. Charles, \$23/ea. Call Sue at x4630 or 708-406-1896.

Sony color TV, 19", \$110 o.b.o. Call 708-406-9256.

30" gas stove, white, excellent condition, \$100. Call Ron at x4663 days or 708-466-1823 eves.

■ REAL ESTATE

2nd story, 2 bed, 2 bath condo w/ many upgrades, incl. fireplace in living room. Private end unit located on river, extra large 1 car garage, use of pool, tennis court & clubhouse, \$93,999. Call Barbara at x3865.

DOE EXPANDED CORE VALUE #6

We respect the environment.

- We recognize our leadership role and responsibility to improve the quality of the environment for future generations.
- We recognize the importance of the environmental impacts of our operations and develop and employ processes and technologies to reduce or eliminate waste production and pollution in these operations.
- We place high priority on the protection of public health and safety and restoration of the environment through cleanup of environmental damage caused by past operations.

LIBRARY NEWS

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Going From C to C++. Robert J. Traister. Academic, 1993. QA76.73.C153 T74 1993, locked cases.

When returning borrowed materials, please be sure to return them either by dropping them in the Library book drop located at the circulation desk or by handing them to a Library employee. Do not assume the items you borrow will be considered returned by simply leaving them on some surface in the Library.

The deadline for the Friday,
March 4 issue is

WED., FEBRUARY 23.

Please send your article
submissions or ideas to the
Publications Office.

FermiNews

*The Newsletter of the
Fermi National Accelerator Laboratory*



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