

FermiNews

The Newsletter of the Fermi National Accelerator Laboratory

RUN 1B START-UP SHOWING SIGNS OF SUCCESS

After nearly six months of shutdown for routine maintenance and upgrades, the accelerator is running near schedule and experimenters are hoping to soon begin collecting data from Run 1b.

"In general, startup has been highly successful," said CRAIG MOORE, past run coordinator. "The Main Ring and Pbar Source came up very well and the

Linac and Booster have performed well. The Main Ring is back at $2E12$ per pulse, which is about what it was when we went down."

Despite the good performance of the accelerator complex and a world record 200 milliamp stack rate on December 20, the increased intensity expected from the Booster, due to the recent

Linac upgrade, has not yet been achieved, said Craig. "But we have hopes that within a month that increased intensity will come."

According to BOB MAU (AD/Oper.) instabilities in the Booster are causing the lower intensity. "The Booster Group is working on special dampers that should be ready this month and will hopefully allow the in-

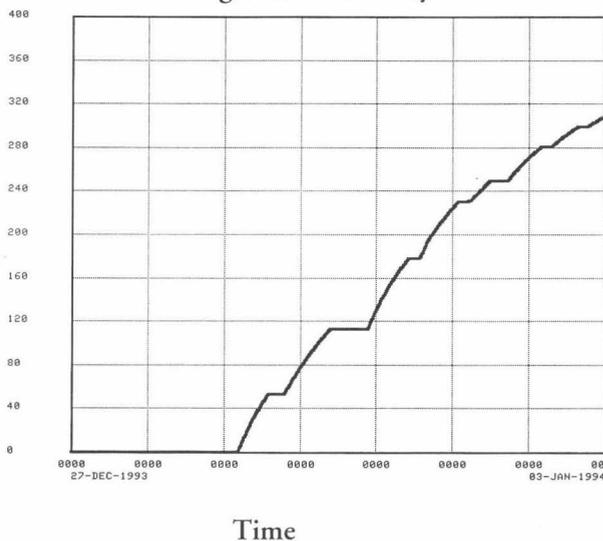
tensity to go up." Currently, the intensity has been near 2×10^{12} in the Main Ring, said Bob.

Much of the startup has remained on schedule, except for the Tevatron. "The Tevatron is behind because of problems with cryogenic failure. That has put us roughly two weeks behind on the Tevatron," said Craig. "However, if we compare this startup to the last startup, and use as a yardstick, the increase in luminosity from when the first shots started, you can see that we've accomplished in weeks what previously took months. And it is important to realize the dedication of some of the Accelerator Division staff and Operations Department as they gave up their holiday time for the start-up."

JOHN COOPER (CDF) agreed that the commissioning of Run 1b is progressing better than Run 1a at this present stage. "Over the holidays CDF received 300 inverse nanobarns and put half to tape," said John. Most of the modifications made during shutdown at CDF are working fine, he added. "We look forward to a good long run."

At $D\emptyset$, early beam has shown no large problems, said PAUL GRANNIS ($D\emptyset$). "Forty hours of dedicated data-taking were completed between Christmas and January 1. The first new crop of W and Z bosons were rolling off the production analysis line by the beginning of January." Paul said that $D\emptyset$ hopes to log three to four times more data than in Run 1a. ■

Integrated Luminosity



BUSINESS SERVICES TO INSTALL NEW GENERAL LEDGER SYSTEM

Results of a July 1991 study commissioned by the Fermilab director made clear the need for new business systems at the Laboratory. This article describes a new general ledger system, the first step in a series of planned upgrades. Next steps: replacement of requisitioning and purchase-order systems.

WHAT WILL THE NEW SYSTEM DO?

After 18 months of interviewing over 50 managers and staff throughout the Laboratory, the Business Services Section has chosen a new general ledger system that will provide Fermilab staff with access to timely and accurate financial and budgetary data.

The new system, which will replace the Laboratory's current cost-accounting system, was designed so that it can be integrated with other new Business Services systems in the future.

The components of the new general ledger system include budget/financial information system reporting, general and administrative cost allocation, billing and accounts receivable and DOE reporting.

The primary objectives for the general ledger system are to:

- provide those responsible for finance and budgeting with the tools to capture, report and distribute to divisions and sections the financial and budget data that they need.
- improve accuracy and controls on accounting processes and data and
- satisfy the current and projected DOE requirements for financial and statistical information.

PAT CURRY, Financial Management System project manager, said the new system will not be a substitute project management system, but it will provide project managers with information from within the general ledger system that will help them manage their projects more effectively.

The new system, in addition, will not replace the existing feeder systems including PARS (Purchasing, Accounts Payable and Receiving System), said Pat, but it will take information from the feeder systems and bring it into the general ledger for purposes of reporting financial information.

HOW WAS THE SYSTEM CHOSEN?

A Financial Management System (FMS) project team, recommended by the 1991 assessment, was established to develop, acquire and implement a new, more technically-advanced system. The members of the FMS project team include Pat Curry, JIM CONNORS, DENISE ENDERS, DEBBIE GRIFFIN, RICH KARUHN, RICH KNOWLES, JEFF KROMA and ED WILMSEN. A steering committee, consisting of Associate Director BRUCE CHRISMAN, JIM FINKS, AL SCHMITT, VICKY WHITE, VICKI DAVIS, MARK BALKCOM, DIXON BOGERT and Assistant Director JACK PFISTER, oversee and provide guidance for the project team.

"If the people who are going to use the system are not happy with it, then we won't cut over to the new system. We will work with them until they become happy." —Pat Curry

To begin the selection for a new general ledger application software package, the project team began in June 1992 to interview personnel who use financial data in their jobs to determine what their requirements were for financial information. A source evaluation board was formed in February 1993 to select a new general ledger application software package based on these requirements.

The members of the source evaluation board (Vicki Davis, HARLAN DICK, BILL KONCELIK, TED WILLIAMS, JERRY BILTGEN, Ed Wilmsen, Jack Pfister, Pat Curry and ex-officio members JOE COLLINS, ALICIA FILAK, DAVE GASSMAN

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Members of the FMS project team (row 1, l to r) Jim Connors, Debbie Griffin and Denise Enders. (row 2, l to r) Pat Curry, Ed Wilmsen and Jeff Kroma. (Not pictured) Rich Karuhn and Rich Knowles.

F E S S - U P

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

The subtitle of this column reads, "a section seeking world class." In a broader sense, FESS and all the Fermilab service sections seek to perform "world class" service to the research programs at Fermilab. In a continuous improvement mode, we seek to furnish facilities and work environments for our scientists to do "world class" physics research.

All of our contributions, in whatever role we serve, can make a "world class" difference.

— *Wayne Nestander*
head FESS

■ IN PROGRESS

The hardstand on the west end of the CDF parking lot will be upgraded.

Although parking will be temporarily disrupted in that area, the improvements will more than offset the inconvenience.

■ JUST A REMINDER

It is against Illinois law to throw household trash in ANY dumpster on Laboratory grounds. If you observe anyone who appears to be throwing household trash in a dumpster, please notify Security Dispatch immediately at x3414. Waste removal is very expensive and we must all be diligent to keep costs to a minimum.

■ PROJECT UPDATES

Exterior lighting has been installed along the walking path between the Lederman Science Education Center parking lot and the west Wilson Hall parking lot. Lighting has also been installed along the sidewalk from the Center's parking lot to the building. There is ample parking space in the Science Center lot that is only a short stroll through the woods from Wilson Hall.

■ FIRE PROTECTION WATER SYSTEMS RENOVATION

Working against the encroaching weather, teams from FESS O&M and E&P, in conjunction with outside contractors, have completed the flushing, inspection and repair of the entire underground Industrial Cold Water (ICW) network serving fire protection needs for most of the site. Renovation of these crucial systems are important to the Lab's mission, and this milestone marks a key point in this work. Other improvements to these systems that have been completed include intake structure modification at Casey's Pond to reduce silting, replacement of worn pumps at

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**Work Request Center**

Telephone x3434, Fax x8769

Mail Station 300

BROWN BAG SEMINAR
COMING TO LAB

A brown bag seminar, presented by the Wellness Works Committee, will be held on Tuesday, February 8 from noon to 1 p.m. in the Wilson Hall 1 West Conference Room. The seminar, *Women and Heart Disease*, will be given

by Dr. Marianne Malloy, a cardiologist with Elmhurst Clinic. The seminar is sponsored by Merck Pharmaceuticals and is free of charge. Friends and family members are invited to attend.

GERMAN
CLASSES

German classes resumed January 11, 1994. Classes are held at Lab 7 at 4 p.m. for beginners and 5:30 p.m. for intermediates. For more information call Angela at 708-355-8279 or Brenda Kirk at x3440.

F E S S

FERMILAB FACILITY FACTS:

The total area of buildings on the Fermilab site is approximately 2,000,000 square feet.

Casey's pumphouse, replacement of Casey's strainers with improved strainer media, addition of bypass systems to improve network reliability and provision of year-round chemical treatment to reduce ICW biological fouling. Currently, the FESS work teams are taking flow calibration measurements on the ICW network to characterize the internal condition of the underground piping. This data will be analyzed in conjunction with newly completed AutoCAD field survey drawings of the ICW network to assess hydraulic parameters. Using this information, further renovations to the ICW network will be completed next year, together with ICW control and monitoring upgrades and a program to inspect and flush sprinkler systems throughout the site on the ICW system. A special thanks to JIM NIEHOFF, JACK FURLONG, DENIS BOWRON, JACK MILLS, CHIP KEE and PAUL UPSHAW for an outstanding performance.

■ AT YOUR SERVICE

The FESS Building Services is comprised of three groups who provide service to the Fermilab population: Fire System Maintenance, Wilson Hall Building Crew and Custodial Services. KENT COLLINS is the manager of Building Services.

The Fire System Maintenance Group performs preventive maintenance, alterations, testing and repairs to the fire protection equipment site-wide. This includes fire alarm systems, sprinkler systems and specialty systems like the CDF and DØ detector halon systems. All of the fire protection equipment (over 10,000 items) has recently been bar coded to enable tracking and control of maintenance and testing activities.

The Wilson Hall Building Crew's main responsibility is maintaining Wilson Hall, but they can be assigned to the Kuhn Barn and the Users Center and special functions for the Director's Office. When a Wilson Hall resident requests that furniture, boxes or other

work (pulling cable, replacing ceiling tiles, patching concrete floors, regluing carpeting, minor painting) be done in or around his/her office, that person calls x3824 to request work. A work ticket is printed out and assigned via a work ticket board. The crew is also responsible for running the projection machine for the Fermilab Film Society.

Custodial Services for the site are performed under a contract by Capital Services. Their contract includes providing supplies and labor as well as cleaning program management. They are responsible for routine daily and periodic cleaning and emergency clean-ups. Special cleaning services can also be requested directly from Capital by calling x2798 and providing them with a budget code.

The Building Services groups provide unique and varied services to the Fermilab and Wilson Hall community. For further information or to request that work be done, please call x3824.

ES&H RELEASES PERFORMANCE INDICATORS

In an effort to improve the Laboratory's performance in the areas of environment, safety and health, every quarter the ES&H Section prepares a summary of performance indicators. The performance indicator program provides a mechanism for management to track statistics and trends in such areas as personnel safety, operational incidents and environmental releases.

The summary reports are prepared each quarter by KEN HORSEY and DON COSSAIRT of the ES&H Section and are available in the ES&H Section, WH7E, for employees interested in knowing the Laboratory's progress in environment, safety and health.

In the recently completed third quarter summary of performance indicators, in

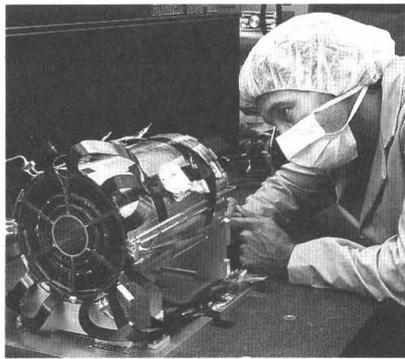
the area of personnel safety, it was noted that the Laboratory continues to have no radioactive or hazardous material overexposures and is maintaining the occupational radiation exposures at approximately the same level as in the past. In the area of operational incidents, there were no unplanned safety function activities or violations of operating procedures. In the area of environmental releases, the report stated that no environmental incidents have occurred at the Lab for five quarters. ■

CDF and DØ prep for new run

In preparation for Run 1b, many improvements and modifications were made to both CDF and DØ detectors during the shutdown this past summer and fall.

Among the work conducted at CDF was the replacement of the silicon microstrip vertex detector (SVX) with a new radiation-hard SVX'. Other improvements included the installation of a new lower mass corrugated beam pipe, a new position sensitive electron trigger and a new data acquisition system capable of handling higher rate.

At DØ, a cosmic ray veto system was installed along with new trigger and data acquisition electronics and new detectors to sense backgrounds from the Main Ring. The level 0 trigger and the calorimeter level 1 trigger were also upgraded during the shutdown. In addition, new gas systems and calibration electronics were installed.



(Top) Humberto Gonzales (RD) aligns one of the two barrels of the CDF SVX in the CDF clean room. (Bottom) Angie Prosapio (Physics) prepares a scintillator board for installation into DØ chambers. Angie also prepared cables and installed boards during the shutdown.

ENCLOSURE WORK BEGINS

About 85 representatives from construction companies gathered at Fermilab on December 15 for a prebid conference on the largest single piece of civil construction, with a cost estimate of \$18.1 million, since the initial building of the Laboratory in the early 1970s. The project, known as the Main Injector Enclosure, is "mostly an earth-moving and concrete project" according to RICH FARRITOR (BS/Contracts).

The winning contractor will carve out the 10,600-foot oval ring to a level ranging between 20 and 30 feet below grade. The task will be to cut the hole, to form the enclosure either by installing precast concrete segments or by casting in place, and then to fill the hole back up. When complete, the typical interior dimensions of the enclosure will be eight feet high by 10 feet wide.

The prebid meeting provided an opportunity for contractors to learn more

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LEDGER SYSTEM

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and GREG WOJCIECHOWSKI) reviewed vendor documentation and proposals and attended system demonstrations and site visits to vendor-software-installed locations.

The vendor evaluation was completed in July 1993, following the review of five software vendors. The source evaluation board then issued a report in August to BSS Head Jim Finks, who served as the source selection officer.

The report described the vendor evaluation performed by the board and contained an application software vendor recommendation. During August, Jim approved the recommendation that

Oracle Corporation's Government Financial System be selected as the new general ledger system. In September, the application software was procured and DEC hardware was selected. Pat expects to test the hardware and operating system software this month. The technical acceptance testing is expected to be completed in February 1994, with system cutover occurring by August 1994.

WHEN WILL WE CHANGE TO THE NEW SYSTEM?

Between technical acceptance and cutover, several major milestones must be completed. The major hurdles the FMS project team faces before cutover

next year are interface programming acceptance in April and user acceptance testing in June. The interface programming involves linking the old feeder systems to the new general ledger system.

According to Pat, the most important challenge is the user acceptance test. "If the people who are going to use the system are not happy with it, then we won't cut over to the new system. We will work with them until they become happy and want the new system . . . [after all] the people who selected the system are the users themselves. That's important." ■

People & Events

NEMEC RETIRES

Long-time employee **LORETTA NEMEC** has retired after serving Fermilab for 20 years. Loretta began as a temporary employee in 1972



and assumed her secretarial position in Vehicle Maintenance in 1973.

Loretta said she "truly enjoyed getting up in the morning and going to work." "I enjoyed everyone," she added.

In retirement, Loretta will be devoting time to her historical doorknob collection (which was exhibited on the Second Floor Gallery in 1985 and 1991) and working on "getting the house in shape."

OLSEN RETIRES

JAN OLSEN, a secretary in Visual Media Services, retired January 12 after 15 years of service to the Lab. Jan began working in VMS on October 9, 1978.



Jan's plans for retirement include building a new home in Florida.

Jan said she felt working at Fermilab was a privilege. "This is an exciting place to work [no matter] how small a part you play." Jan added jokingly, "Now that I am leaving, it will not be possible for **RUTH CHRIST (LS)** to be in two places at once." Jan said she and Ruth have been mistaken for each other as long as Jan has been at the Lab.

ARTS SERIES PRESENTS

JAZZ PIANIST ELIANE ELIAS WITH JAY ANDERSON, BASS & TAKEISHI SATOSHI, DRUMS

"Elias' opening performance...was startling. Playing with percussive finger control, she wasted no time in making a strong case for herself as one of the most gifted new jazz performers."—Don Heckman, *LA Times* July, 1988.

Don't miss Eliane Elias as she performs in Ramsey Auditorium on January 22 at 8 p.m. No matter what the project, a love of jazz and classical music devel-



Eliane Elias

oped at a tender age always seem to figure in. She will be joined by bassist Jay Anderson and drummer Takeishi Satoshi.

Tickets are \$9. For reservations, call xARTS weekdays from 9 a.m. to 4 p.m.

BENEFITS NOTES

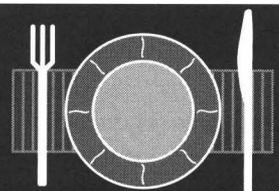
DON'T FORGET: CLAIM YOUR FSA

Employees who participated in a Flexible Spending Account during 1993, either a Health Care or Dependent Care Reimbursement Account, must send in all claims for 1993 medical, dental or child care reimbursements by March 31.

Pick up claim forms at the Employee Benefits Office, WH15SW (Note: new location). Claims should be mailed to the address on the back of the form.

Chez Leon Menu

Lunch (Wed) \$13.00 • Dinner (Thurs) \$23.50
Reservations: x4512



Wednesday, January 19 • Pasta w/sundried tomatoes and pepperoni sauce, orange and rosemary pork tenderloin, vegetable of the season, fudge pecan pie

Thursday, January 20 • Mussels in white wine and thyme, veal scaloppini w/mustard cream sauce, white beans w/tomatoes and garlic, sautéed spinach, raw mushroom salad, brandied pear and currant strudel w/brandy custard sauce

Wednesday, January 26 • Lebanese platter w/pita, kebobs w/vegetables, rice pilaf, baklava

Thursday, January 27 • Marinated cheese w/olives and whole garlic, grilled salmon filet w/watercress dressing, new potatoes w/dill, vegetable of the season, chocolate cake w/raspberry framboise sauce

LAVALLIE TAKES USERS OFFICE HELM



The User's Office is now under the direction of PAT LAVALLIE. Pat recently took the helm following the departure of JOY MILETIC.

Pat is now in charge of registering all users and providing administrative support for the Users Executive Committee, among many other duties. Experimenters needing the services of the Users Office should see Pat on WH1E.

MOVIES

The Fermilab International Film Society presents movies from all over the world. Movies are shown at 8 p.m. Fridays in Ramsey Auditorium. Admission is \$3 for adults, \$.50 for children 12 and under.

January 28

■ *Flirting*, a boy from an Australian boy's boarding school is drawn to a cosmopolitan black African girl from a similar girl's school. John Duigan, dir. Australia, 1992. (132 min.)

Harper's Index

Number of emergency-room admissions in 1992 for injuries involving snow blowers:

2,800

Price of a life-sized computer-controlled triceratops, from the Neiman Marcus Christmas catalogue:

\$93,000

URA SCHOLARSHIP APPLICATION INFORMATION

Candidates for Universities Research Association scholarships are reminded that applications are due March 1. Applications are available from and should be returned to Personnel Services, WH15E, MS 124.

Scholarships are awarded on the basis of S.A.T. (Scholastic Aptitude Test) scores.

URA awards a number of scholarships

to regular, full-time Fermilab employees' children who are currently high school seniors and who will begin a four-year college degree program next fall. The maximum amount of the scholarship is \$3,000 for tuition and fees and is renewable for four years if the student progresses in good academic standing.

Applicants will be notified regarding the scholarships in early April.

Congratulations!

To Kimberly Olson-Hamilton and JEFF DINGBAUM (CD-DCD-NHM) on the birth of their son Tyler Jeffery. Tyler was born on November 6, 1993 at 6:19 p.m. at Edward Hospital in Naperville. He weighed nine pounds, four ounces and was 21.5 inches long. Tyler is welcomed by sister Hannah, age 6. • To Beatrice S. and JOHN D. ROOF (RD/CDF) on the birth of their son Michael Salas. Michael was born on December 18, 1993 at 1:32 p.m. at Central DuPage Hospital in Winfield. He weighed five pounds, 10 ounces and was 19 inches long. This is the Roof's first child. • To Judy and JOHN VAN BOGAERT (AD/RF) on the birth of their son Bryan Richard. Bryan was born on December 27, 1993 at 2:30 p.m. at Delnor Community Hospital in Geneva. He weighed eight pounds, 10 ounces and was 21 inches long. Bryan is the Van Bogaert's first child.



Nalrec news

Elections were recently held for the 1994-95 Nalrec Board of Directors. The new board is (Row 1, l to r) Joanne Hall (BS), vice president; George Davidson (BS), vice president and Nancy Bartlett (TS), secretary. (Row 2, l to r) John Kowalski (RD), treasurer; Jesse Guerra (RD), president and Gary Smith (RD), vice president. Nalrec gratefully acknowledges the valuable volunteer contributions for 18 years made by recent retiree Glenn Lee (AD/Mech Support) (Inset). His volunteer services and cooperation with Nalrec have improved the quality of employee services and recreation. Glenn was Nalrec vice president for nearly six years.—Jesse Guerra

CLASSIFIEDS

■ VEHICLES

1992 Chevy Cavalier, 40k miles w/ extended warranty 60k miles/4yr. Perfect aqua teal body, A/C, PS, PB, AM/FM cass, new brakes, \$8,400 o.b.o. Call x3382 or 708-978-1060.

1989 F150 Supercab pickup XLT Lariat package, 351 V8, 3,400 miles, full options, many extras, excellent condition, \$11,500. Call Mike at x3371.

1986 Toyota Corolla hatchback, 4 door, A/C, AM/FM/cass, good condition, no rust, \$4,500 o.b.o.; 1985 Honda Accord hatchback, 2 door, AM/FM/cass, good condition, no rust, new muffler, \$3,800 o.b.o. Call 708-406-9256.

■ REAL ESTATE

3 bedroom, 2.5 bath town home in the Oaks of St. Charles, 1/2 block to bike trail, 8 miles from Lab. Interior completely repainted in Dec., new carpet 12/20, living-dining room w/ fireplace, eat-in kitchen, large pantry, den & powder room on 1st floor,

large master suite w/private full bath, 2 bedrooms & full bath on 2nd floor, finished rec room & work-laundry room in basement, 2 car attach. garage, deck & screened enclosure off living room, association takes care of external maintenance, snow removal & lawn care. Call x3381 or 708-513-1337.

■ MISCELLANEOUS

Car phone antenna, \$15; BMX race bikes, EIF cruiser w/spare wheels, \$200; BADD frame & fork, \$75; Design 12 speakers, \$100. Call Greg at 708-557-2523.

Panasonic microwave, 2 yrs. old, \$90; Sony 19 in. color TV, \$200; vacuum cleaner, \$20; dining table w/4 chairs, \$30; queen mattress, \$30; single mattress, \$10; sofa, \$50; drawers, \$20; phone w/answering machine, \$50. Call 708-406-9256.

Wanted: Canon camera body, "A" series model (A-1, AE1, AT1...). Call JJ at x4328.

MI ENCLOSURE

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about the physics goals of the Main Injector, to tour the construction site and to ask specific questions of the team of experts who included Rich; DIXON BOGERT (AD), deputy project manager of the Main Injector; TOM PAWLAK (AD), project engineer for civil construction; and TOM LACKOWSKI (FESS), who specializes in soils and structures.

The Main Injector Enclosure package is the seventh bid package for the \$250-million Main Injector project slated to be completed in 1998. Previous packages included wetland mitigation, the MI60 enclosure, an above-grade service building, a site preparation package, the development of a three to four acre hardstand and the "U"-shaped precast concrete elements that will form the walls of the enclosure. ■

FOR YOUR HEALTH

Free blood pressure checks will be given Tuesday, January 18, 1994 from 11:30 a.m. until 1 p.m. in the Wilson Hall Atrium.

WINTER FEST

The Children's Center invites you to their Winter Fest and Opera *Stone Soup* on January 27 at 7 p.m., Ramsey Auditorium.

FermiNews

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FermiNews is published by the Fermilab Publications Office

MS 107, PO Box 500 Batavia, IL 60510 • 708-840-3278 • FNAL::TECHPUBS

Fermilab is operated by Universities Research Association, Inc.

under contract with the U.S. Department of Energy

The deadline for the Friday,
February 4 issue is
WEDNESDAY,
JANUARY 26.

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