

FermiNews

Fermi National Accelerator Laboratory

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Life on the Energy Frontier

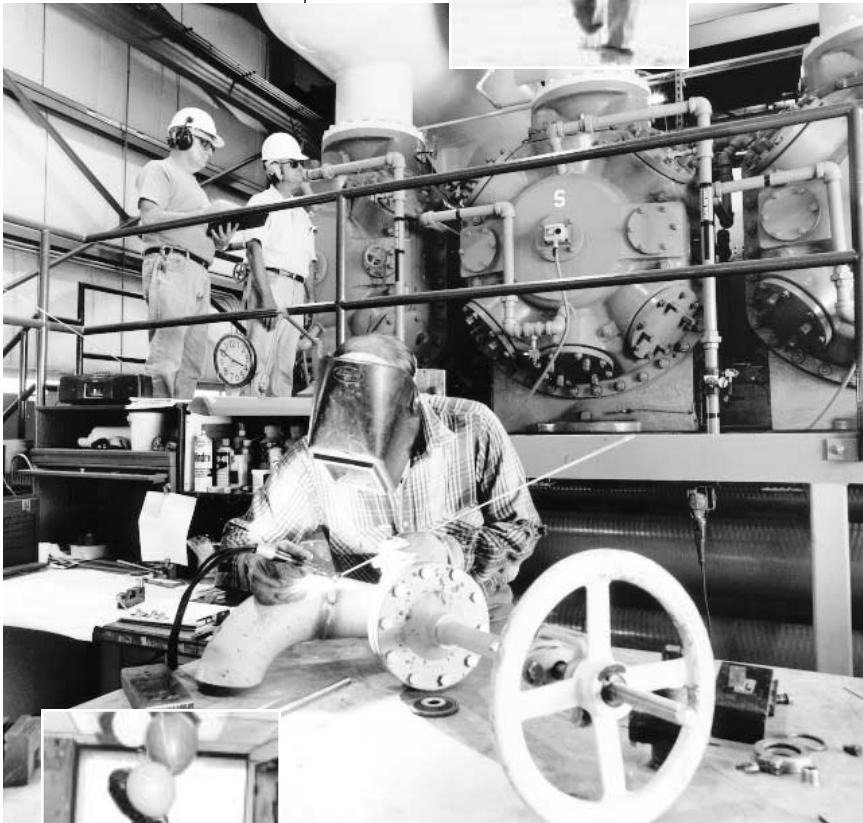
by Donald Sena, Office of Public Affairs

Life at a high-energy physics laboratory never stops. A given moment at Fermilab might find technicians working overtime to get fixed-target experimental halls ready for beam, Facilities Engineering staff inspecting critical machinery and monitoring construction, and Business Services personnel getting pay-checks out on time.

But life at Fermilab also includes a fireman engaged in a medical mission for charity, an accelerator expert displaying unique wood carvings in an art exhibit and a physicist/shortstop scooping up a ground ball and tossing it to a cafeteria employee covering second base, who guns the ball to a lab groundskeeper at first for a double play on the Fermilab softball field.

These and countless other activities make up the days and nights at the nation's busiest high-energy physics laboratory. *FermiNews* regularly chronicles the contributions of staff members throughout the Laboratory to the mission of research at the energy frontier. This special "Lab Life" edition of *FermiNews*—the first of a quarterly series—highlights some of the many other events that shape work and after-hours lives of the Fermilab community: special events, award winners, recreational activities and employee contributions within and outside the Lab.

On May 17, much of the Fermilab family came together in Wilson Hall's atrium for a party to celebrate the end of Run I collider operations and the beginning of a new fixed-target run. The occasion brought together Lab employees, users, contractors and others—all the people it takes to run a high-energy physics laboratory. Many at the party said the gathering generated a feeling of unity and common purpose. Lab Life aims to strengthen this sense of community by reporting and recording our common Fermilab family history, as we continue to work together in the quest to understand the fundamental mysteries of matter and the universe. ■



Photos by Reidar Hahn



Saving the Environment ... and Money

A study of Fermilab's waste, potential recycling codes and a new vendor spur the recycling subcommittee to intensify its efforts.

by Eric Berger, Office of Public Affairs

Kevin Moss and Kay Weber have declared war on Fermilab employees who like to fatten their trash cans.

"The big aim we have is getting people to realize that stuff like paper and cardboard shouldn't go into trash cans," said Weber, who, along with Moss, is a member of Fermilab's Waste Minimization Subcommittee.

Cardboard, paper and glass are among Fermilab's most often trashed items that are reusable.

Three years ago Fermilab officials decided the Laboratory could better minimize its waste. To start, they appointed the seven-person Waste Minimization Subcommittee, whose work has paid off. Through mid-1994, the Laboratory produced approximately 3,500 cubic yards of garbage per month. Now the amount has fallen to just less than 2,000 cubic yards per month.

FESS's management of dumpster contracts deserves some of the credit, but recycling formerly discarded items like cardboard has helped as well. Moss and Weber estimate Fermilab currently recycles between 30 and 50 percent of the paper, cardboard, Styrofoam and glass the Lab uses. These efforts save the Laboratory about

\$50,000 annually, due to receiving a return on recycled goods and, more important, not paying for unrecycled trash pick-up.

But the committee believes the efforts are not enough.

"We're not very good," said Weber, an engineer in the Accelerator Division. "I would say we can recycle at least 50 percent more. Some areas and groups are really good, but I do see a lot of garbage cans with stuff in them that really shouldn't be there."

Mandatory Recycling

Besides saving money, other legal factors could eventually force Fermilab to intensify its recycling efforts. Moss cited an

executive order from President Clinton mandating that government agencies buy 100 percent recycled products.

Another executive order calls for waste minimization performance measures, but exactly how Fermilab's next contract with the Department of Energy will treat these rules remains unclear, Moss said.

Additionally, Kane County recently passed an ordinance stating that any business with more than 10 employees must recycle its two largest commodities—paper and cardboard in Fermilab's case. Moss and Weber do not know how strictly the county plans to enforce the ordinance, but the consequences are potentially troublesome.

"What could happen is dump trucks will just refuse to take our garbage if we throw recyclables away," Weber said.

A New Beginning

A new contract for the pick-up of Fermilab's recycled goods has energized the subcommittee.

"Now that we have a new vendor we are going to try and get the word out again," said Moss, environmental protection group leader in the ES&H Section. "We have to start telling people how they're supposed to recycle, and what they can and can't recycle."

Moss and Weber's subcommittee, all volunteers, inked the new contract with Weyerhaeuser Co. in June when the previous contract with another vendor expired. "With the last contractor the people weren't picking up and the service wasn't there," Moss said.

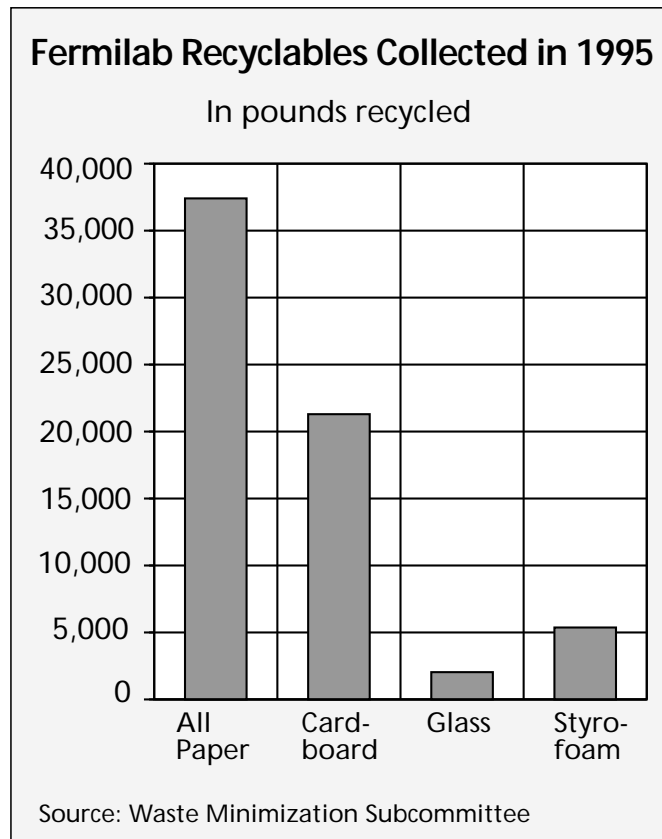
"We figured they were taking more than they were paying us for, there was no record-keeping and no regular pick-ups...even though the contract stated these things," Weber added.

Because of the new contract's recent startup, the committee still needs to firm up its logistics.

"A lot of people were calling us in the past wanting to do things, but we had to keep putting them off because the vendor wasn't servicing us very well," Moss said. "People who really want to start something up, now's the time for us to know about it."

There are currently eight main pick-up sites where Fermilab employees can drop off their cardboard, white paper, computer paper, junk mail (including newsprint, phone books and fax paper), glass and Styrofoam. Aluminum cans are also recyclable but different groups are responsible for collecting them.

"We hope people out in the Lab will do as much as they can to help us and help the recycling program," Moss said. ■



Above and Beyond the Call

Life at Fermilab includes much charity work, sometimes sending staff members to the far reaches of the world.

by *Donald Sena,*
Office of Public Affairs

Voluntarism among Fermilab employees is a common facet of life. Scientists give their time to teach students and high school teachers about high-energy physics; project leaders and experiment spokespersons provide tours of research areas, and many members of the Laboratory's own fire department volunteer at local area fire houses.

But Russ Wood, a fireman and emergency medical technician at Fermilab, took his altruism well outside the Fox Valley to reach communities on the periphery of health care. In February, Wood was a part of a 52-member medical relief mission—sponsored by two area hospitals and coordinated through a non-profit organization based in Houston—that set up a small hospital and health care clinic in Nebaj, Guatemala, a mountain village in a remote area of the South American country.

The goal of this mission, and those like it, is to treat people in parts of the world that have little or no access to health care. The team of specialists, which included surgeons, doctors, emergency medical technicians, recovery room personnel, dentists and pharmacists, treated about 2,200 patients in seven days, performing a variety of medical procedures. The work included 60 surgeries for hernias, tumors and other ailments; 200 eye surgeries, including treatment of cataracts; and 200 dental procedures, among other treatments. The volunteers also treated numerous people in the makeshift clinic for malnutrition. Vitamins constituted the largest number of prescriptions handed out by pharmacists, who distributed nearly 10,000 vitamins to villagers ranging in age from infancy to more than 80 years old.

Using his own vacation allocation to participate in the mission, Woods worked in the clinic most of time, performing triage on

Photo courtesy of Russ Wood



incoming patients; he also spent some shifts assisting in the surgery room and pharmacy.

Woods has been a fireman and EMT in the western suburbs for about 15 years and presently volunteers at the Glenside Fire Department. Before transferring to the Fermilab fire team six months ago, he worked in the ES&H Section's hazardous waste division for five years. The Guatemalan trip was his first relief mission and he said he hopes to participate again. His motivation for the charity work was quite simple.

"I wanted to go out and help those that are less fortunate than us," said Wood. "It also increased my awareness of how fortunate we are in the States" in terms of health care availability. ■

Russ Wood, a fireman and EMT in the Fermilab Fire Department, in Guatemala during a medical relief mission.

"I wanted to go out and help those that are less fortunate than us. It also increased my awareness of how fortunate we are in the States."

~ Russ Wood, Fermilab Fire Department

Fermilab Ph.D. Recipients: January to May 1996

The following people received their Ph.D.s during the first five months of 1996 for research conducted at Fermilab:

E-665: Muon Scattering with Hadron Detection

Arijit Banerjee ~~~~~ University of Pennsylvania

E-687: Photoproduction of Charm and B

Matteo Boschini ~~~~~ University of Milan
Barbara Caccianiga ~~~~~ University of Milan
Luca Cinquini ~~~~~ University of Colorado
Steve Culy ~~~~~ University of Colorado
Paolo Dini ~~~~~ University of Milan
Gabriele Gianini ~~~~~ University of Pavia
Gary Grim ~~~~~ Univ. of California, Davis
Massimiliano Gullotta ~~~~~ University of Milan
Marco Marchesotti ~~~~~ University of Pavia
Marco Massimiliano Merlo ~~~~~ University of Pavia
Luigi Milazzo ~~~~~ University of Milan
Matt Nehring ~~~~~ University of Colorado
Brian O'Reilly ~~~~~ Northwestern University
Laura Viola ~~~~~ University of Pavia

E-706: A Comprehensive Study of Direct Photon Production in Hadron-Induced Collisions

John Bacigalupi ~~~~~ Univ. of California, Davis
Steven Blusk ~~~~~ University of Pittsburgh
Woo Hyun Chung ~~~~~ University of Pittsburgh
Lucyna de Barbaro ~~~~~ University of Rochester
John Kuehler ~~~~~ University of Oklahoma

D-Zero: Study of Events in $p\bar{p}$ Collisions at 2 TeV in the D-Zero Detector

Erfan Amidi ~~~~~ Northeastern University
David Fein ~~~~~ University of Arizona
Azriel Goldschmidt ~~~~~ Lawrence Berkeley Laboratory
Michael Kelly ~~~~~ University of Notre Dame
Jean-Francois Lebrat ~~~~~ Saclay
Freedy Nang ~~~~~ Brown University
Mark Sosebee ~~~~~ Univ. of Texas at Arlington
Haowei Xu ~~~~~ Brown University
Jie Yang ~~~~~ New York University
Cary Yoshikawa ~~~~~ University of Hawaii

CDF: Study of Proton–Anti-Proton Collisions Using a Large Detector at B-Zero

Takashi Asakawa ~~~~~ University of Tsukuba
Farrukh Azfar ~~~~~ University of Pennsylvania
Patrizia Azzi ~~~~~ University of Padova
Thomas Baumann ~~~~~ Harvard University
Robert Dunn ~~~~~ University of Michigan
Michele Gallinaro ~~~~~ University of Rome
Douglas Glenzinski ~~~~~ Johns Hopkins University
Randal Hans ~~~~~ Yale University
Gareth Houk ~~~~~ University of Pennsylvania
David Kestenbaum ~~~~~ Harvard University
Mark Kruse ~~~~~ Purdue University
Arthur Maghakian ~~~~~ Rockefeller University
Andrew Martin ~~~~~ Univ. of Illinois, Urbana-Champaign
Simona Rolli ~~~~~ University of Pavia
Giuseppe Tartarelli ~~~~~ University of Milan
Jeffrey Tseng ~~~~~ Johns Hopkins University
Intae Yu ~~~~~ Yale University

E-769: Pion and Kaon Production of Charm and Charm-Strange States

Juan Astorga ~~~~~ Tufts University
Ali Rafatian ~~~~~ University of Mississippi

E-791: Hadroproduction of Charm and Beauty

Pauline Gagnon ~~~~~ Univ. of California, Santa Cruz
Penny Kasper ~~~~~ Illinois Institute of Technology
Judy Leslie ~~~~~ Univ. of California, Santa Cruz
Kuang Chung Peng ~~~~~ Illinois Institute of Technology
Attanagoda Santham ~~~~~ University of Cincinnati
Nicholas Witchey ~~~~~ Ohio State University



Photos by Jenny Mullins

NALWO: The Gentler Side of Life At Fermilab

by Leila Belkora, Office of Public Affairs

It's Thursday morning and, in experimental halls at Fermilab, exotic particles zip this way and that, physicists in their offices jot down equations on chalkboards, and construction crews hoist magnets into place in the Main Injector. But if it's Thursday, chances are good that a quiet group in the Users' Center is absorbed in a more delicate activity, composing poetry in a foreign language.

The poets are members of an English class that the National Accelerator Lab Women's Organization arranges for the spouses of Fermilab visitors, who may come from France, Japan or another of 20 foreign countries. Jeanette Antoniuk leads the lessons; she has a master's degree in teaching English as a second language. NALWO president Selitha Raja said the classes are the heart of NALWO's activities. Participation in other programs for spouses and newcomers has come down in the last few years, she said, but the ESL classes endure because NALWO provides an essential resource. As Raja points out, "It's difficult for a woman with two small kids who doesn't have a driver's license and who doesn't speak English to contact local colleges and find out about English lessons." Raja added, "We're lucky to have Jeanette Antoniuk volunteering her services."

Antoniuk has under her belt what might be the ultimate ESL teaching experience. "I've spent three summers in Chengdu, China, teaching English to Chinese teachers of

Members of NALWO's English class meet in the User's Center.

Jeanette Antoniuk volunteers as an English teacher for foreign visitors with NALWO. Antoniuk, who has taught English as a second language at various community colleges in the Chicago area, says her satisfaction comes from knowing that visitors "had a pleasant experience here" before they returned to their countries.



English," she said matter-of-factly. She doesn't have any trouble holding the attention of the Fermilab students.

"I try to make it as varied as possible," she said. "We play games, we sing, we work in small groups or as a class." Haikus—three-line verses with five,

seven and five syllables each—are part of the challenge. The hour from 9 to 10 a.m. is for "the real beginners," but the students often stay on for the next two hours. Antoniuk notes that her pupils are "all at different levels, but they pick up from each other."

At the NALWO coffee hour that coincides with the English class break, Raja reflected on the organization's mission and future. "More families used to live in the [Fermilab] Village. That gave us more of a community," she said. "More women in the past could afford not to work. Now most, if they have even a little free time, try to get some income."

Raja said lower participation means that the days of NALWO's "huge" cooking demonstrations are past; the group still does organize some fun outings, however. NALWO recently sponsored a tour of Frank Lloyd Wright's studio and visited Navy Pier in Chicago. Raja brightened as she remembered: "The fixed-target program brings in more people; the numbers should pick up a little now." ■

What's What With Wellness Works

By Leila Belkora, Office of Public Affairs

"Stress is a problem that people always seem interested in hearing about," observes Bernie Dugan, chairwoman of Fermilab's Wellness Works Committee, an organization devoted to promoting employee health and well-being. As they do each year after the Health Fair, Dugan and her colleagues are choosing the topics they will invite speakers to cover in the fall seminars. Stress management classes are among the more popular programs that Wellness Works has organized, and will likely return. Employees also showed strong interest in the recent seminar on depression, Dugan said. Mae Strobel, who has helped run the committee for about four years, says employees often request information related to nutrition and heart ailments.

Like the Engineering Seminar series, the Wellness Works activities survive without a budget. "Physicians that Fermilab uses have come to give presentations, and we get people in the lab to volunteer," said Strobel. One such Lab volunteer, Greg Wojciechowski in the legal office, has spoken about personal bankruptcy. Committee members include Fermilab physician Dr. David Morrison, and Karin Etter, Jean Guyer, Merle Haldeman, Audrey Hopper, Maureen Huey, Karen Murphy, John Roof and Sharon Strecker.

The Wellness Committee has broad objectives, including those of promoting a healthy lifestyle, educating employees to be wise consumers of medical care, and encouraging employees and visitors to use existing Fermilab resources for good health. The committee's most ambitious effort toward accomplishing these goals is organizing the annual health fair, which took place June 12. Dugan said the hospitals attending the fair are usually the same from year to year, but that she tries to add some variety in the smaller participants: "We try to change the clinics and demonstrations. This year we had a number of active demonstrations like tai chi, massage, biofeedback and yoga." Over one hundred employees checked their blood pressure, and 60 took advantage of glaucoma screening. Organizing the health fair "was a lot of fun to do," said Dugan, adding, "I'd like to thank all the employees who helped." ■



Photo by Reidar Hahn

The chiropractic booth ▲ was one of several offering free screenings at the Health Fair.

Sean Cannon, Food Service attendant, gets his eyes checked at the annual Health Fair. ▼

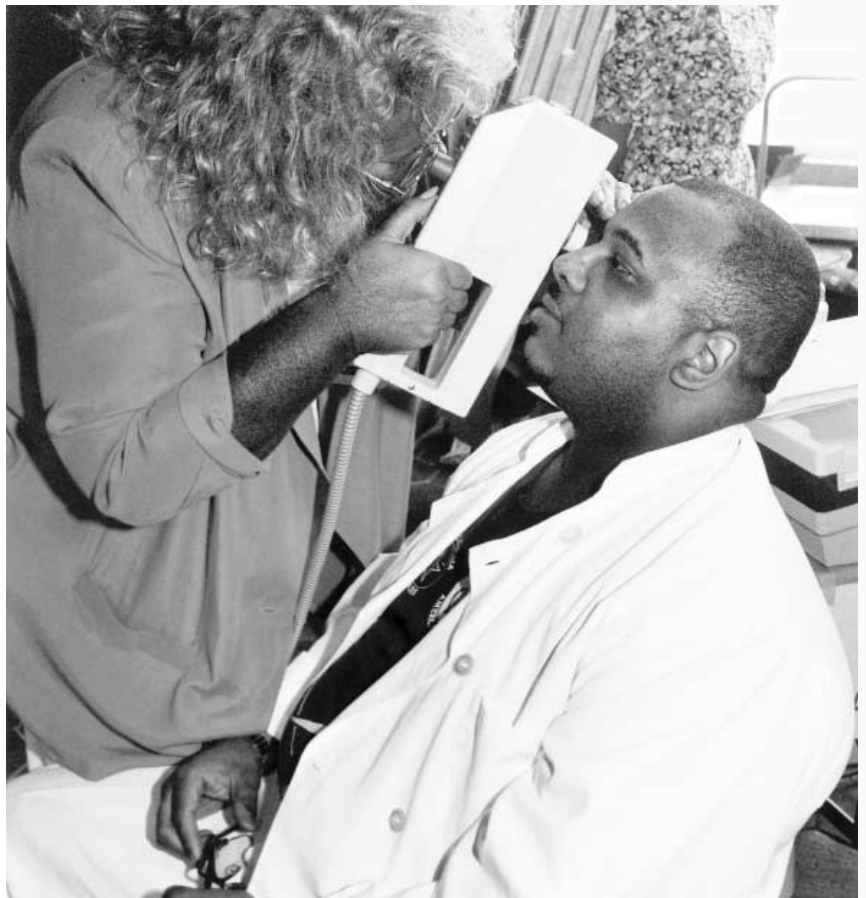


Photo by Reidar Hahn



~ Service Awards ~



20 YEARS OF SERVICE

On January 26, 1996, Ken Stanfield hosted a 20-Years Service Award luncheon at Chez Léon.

Row 1 (L to R): Robert Brooker, Charlie Hess, Dale Miller, Lois Deringer, Sharon Beverley, Stephen Merkler, Drue Wallace, Art Paulsen

Row 2: Ken Stanfield, Stanley Boyson, Irwin Gaines, Carl E. Wheeler, Sr., Jacoby Richardson, John C. Kedzierski, Jim Jensen, Randall Vincent, Alvin Tollestrup

Row 3: James C. Kalina, Mike Frett, Bill Bardeen, Jeff Appel, Chuck DeBaun, Michael Hrycyk

Not Pictured: Joyce Dieter, James Garry, Richard Hance, Patricia Oleck, Daniel Schoo, James Smedinghoff, John Steinhoff, Angela Velasquez



25 YEARS OF SERVICE

On June 14, 1996, Ken Stanfield hosted a 25-Years Service Award luncheon at Chez Léon.

Row 1: Bob Flora, Jawahar L. Ticku, Richard L. Dice, Joe Gehard, Ronald Davis, Rupert Crouch, David J. Ritchie, Shelby L. Jones, Steve I. Barath, Carl Lindenmeyer, Ed Podschweit, Buzz Rodewalt, Chuck Nila

Row 2: Keith Coiley, Patrick Gorak, Jim Engelbrecht, Roy Mraz, Darrell Sigmon, Bob Allen, Larry Rodriguez, John Slowiak, Ron Grosklau, Kurt Kasules, Wes Smart, Filip Johnson, Jeff Mack, Ken Stanfield

Row 3: Junior Jones, K.C. Kirksey, Robert Trendler, Chuck Chizzo, Bob Hall, Thomas Baird, Bob Lootens, Ken Schultz, John Reid, Alex Waller, Frank Juravic, Bob Morrison, Bob Angstadt

Not Pictured: Loren Anderson, Bill Beckley, Dixon Bogert, Karen Carew, David Dewitt, Donald Emery, Graciela Finstrom, Richard Graff, Raymond Gunderman, Keith Meisner, Charles McNeal, George Reichhardt, Guadalupe Rodriguez, Jerry Sasek, Daniel Smith, Demetrios Zafiroopoulos

URA Scholarship Recipients

The following students have received academic scholarships from Universities Research Association, Inc.

Susan Elizabeth Cooper,
daughter of William E. Cooper of D-Zero, will attend the University of Illinois at Urbana-Champaign, majoring in Ecology, Ethology and Evolution.



Emily Rae Petravick,
daughter of Donald Petravick of the Computing Division, will attend the College of DuPage, majoring in Business.

Andrew James Bianchi,
son of Armand (Butch) Bianchi of Technical Support, will attend the University of Illinois at Urbana-Champaign, majoring in Electrical Engineering.



Anand Raghu,
son of Usha Raghu of the Library, will attend the University of Illinois at Urbana-Champaign, majoring in Biology.

Kimberly Lynn Garnier,
daughter of George Wyatt of CDF, will attend Bradley University, majoring in Engineering.



Karen Anne Schmidt,
daughter of Eugene Schmidt of CDF, will attend Southern Methodist University, majoring in Sociology.

Jessica He,
daughter of Shigi He of the Computing Division, will attend Harvard University, majoring in Chemistry.



Roxanna Marie Webber,
daughter of Robert Webber of the Proton Source Department, will attend Southern Methodist University, majoring in Biomedical Engineering.

Jennie Beth Kanyok,
daughter of Anthony Kanyok of FESS Operations, will attend Northern Illinois University, majoring in English Education.



Alisha Joy Stenman,
daughter of Dan Stenman of Controls, will attend Trinity International University, majoring in Secondary Education.

Tali Klima,
daughter of Boaz Klima of D-Zero, will attend the University of Illinois at Urbana-Champaign, majoring in Psychology.



Lauren Meyer,
daughter of Larry Meyer of the Fire Department, will attend the University of Illinois at Urbana-Champaign, majoring in Psychology/Pre-Med.

Michael A. May,
son of Michael P. May of Mechanical Support, plans to attend the College of DuPage and then the University of Illinois at Urbana-Champaign, majoring in Architecture.



FermiNews congratulates these sons and daughters of Laboratory employees, and extends best wishes for their academic careers.

Fermilab Art Gallery

~ Photos by Reidar Hahn

When you think of Fermilab and its mostly technical cast of employees, a clear association with art rarely comes to mind. But a recent exhibit at the Laboratory suggests you probably should think again.

For the entire month of June, Wilson Hall's second-floor crossover housed the biennial Fermilab Employee Art and Crafts Exhibit. According to Janet MacKay, gallery manager, all Fermilab employees, users, graduate students, contractors and their families were eligible to submit their work to the show.

The Exhibits Committee set up this year's unjuried show, a long-standing Fermilab tradition. This year's exhibit showcased 82 pieces.

"We had a great response this year," MacKay said. "There was some really excellent work in this year's show." She added that "anything goes" as far as the types of work that are presentable. This year's art forms included weavings, rug hookings, photography, paintings, jewelry, pottery and wood-carvings.

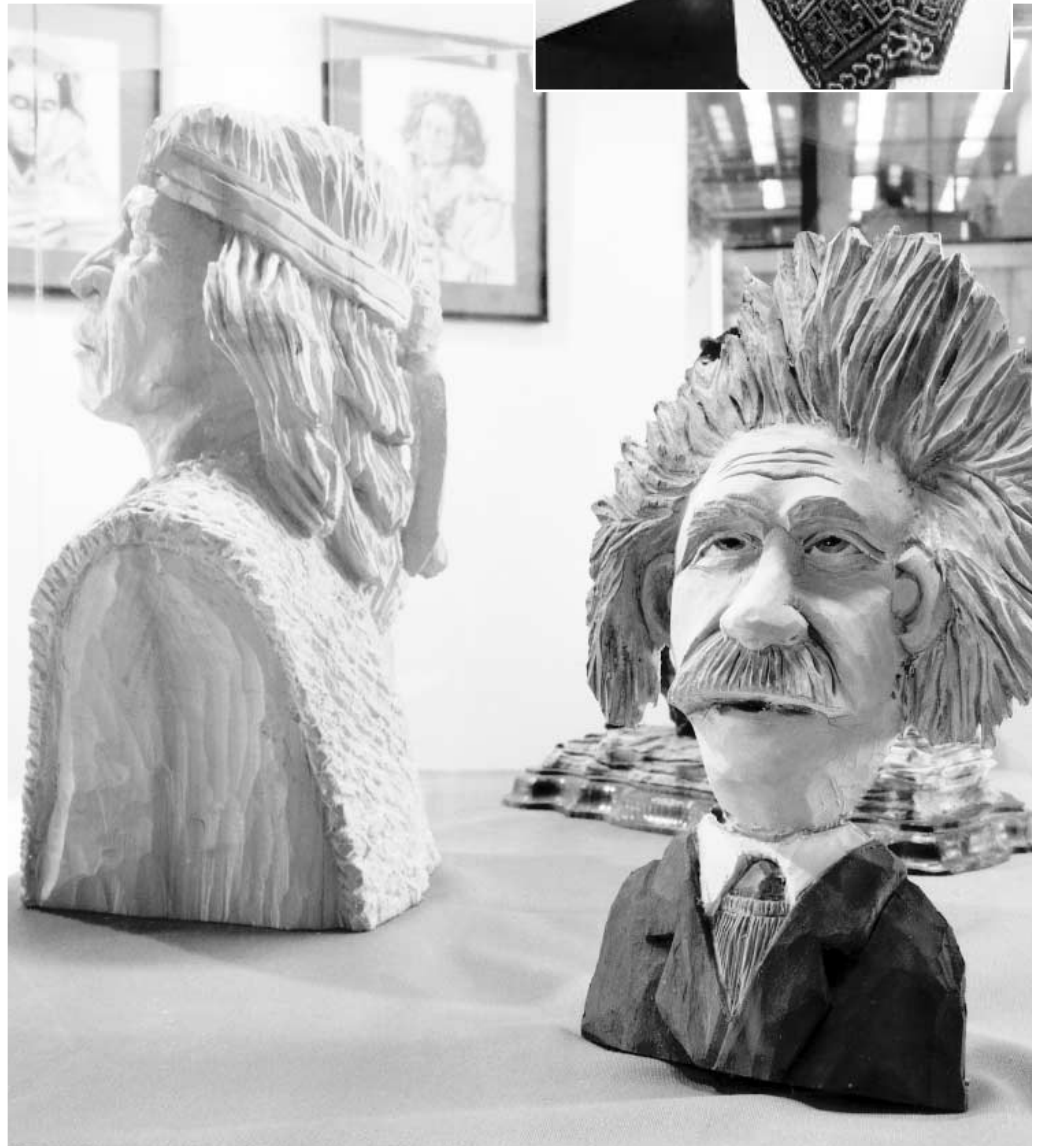
Why have a show when the overall mission of the Laboratory is the exploration of the subatomic realm? "Because there's a lot of talent out there, and it gives Fermilab employees an opportunity to show their stuff, and to show another side of themselves other than their work side," MacKay answered.

So wet your brushes, dust off the loom or start spinning your pottery wheel. It's not too early to prepare for the 1998 exhibit.

~ Eric Berger,
Office of Public Affairs



The Fermilab Art and Crafts Exhibit presented 82 pieces of work in June, including wood-carvings (seen below) by Bob Mau, head of Accelerator Operations.



Fermilab Arts and Lecture Series

The Fermilab Arts & Lecture Series has offered a wide range of high-quality cultural programs since 1972. The Arts & Lecture Series is open to the public. Tickets are sold on a first-come, first-served basis and are available for all events through our box office, by phone (840-ARTS), by fax (840-5501) or by mail order. Graduate students can get free tickets for the Lecture Series, and purchase Arts Series tickets for half price.

ARTS SERIES CALENDAR OF UPCOMING EVENTS

Luther Allison



August 24: \$17
Raised near the Mississippi Delta, Allison moved to Chicago in 1950, hardening his blues sound on the same streets as Buddy Guy, Otis Rush and Freddie King. Since coming back from Paris in 1993 to record "Soul Fixin' Man," he has been mostly on tour to rave reviews.



Christian McBride Quartet

September 28: \$15
Christian McBride, still in his early 20s, is the most sought after young bassist on the jazz scene. He has already made more than 70 recordings as a side man with artists such as Joe Henderson, Betty Carter, Pat Metheny and Joshua Redman.

Brentano Quartet

October 19: \$15
Since its inception in 1992, the Brentano String Quartet has been singled out for their technical brilliance, musical insight and stylistic elegance.

William Windom as Thurber

November 16: \$15
Probably first known for his Emmy Award winning role as the lead of NBC-TV's 1969-70 series, "My World and Welcome To It" based on the writings of James Thurber, William Windom will be bringing his one-man show back to Fermilab. Television credits also include "The Farmer's Daughter" and Doc Seth Hazlett on "Murder She Wrote." His film credits include "Escape from Planet of the Apes," "To Kill a Mockingbird" and "She's Having a Baby."

The Fermilab Film Society

Organized by a committee of volunteers, this organization presents art and foreign films every other Friday in Ramsey Auditorium. Tickets are \$4 and available only at the door. For more information about the upcoming films, call 840-8000. All Film Society presentations are open to the public.

If you would like to be on our mailing list for the Arts and Lecture Series, please call Kathy at 840-ARTS.

Upcoming films

July 26: *Matinee*

Gene, a 15-year-old boy, moves to Key West just prior to the Cuban Missile Crisis, the same time that a horror B-film maker comes to town. A movie about movies.

August 9: *The Story of Qiu Ju*

In this satire, the pregnant wife of a peasant appeals to higher authorities to force the village leader to apologize for kicking her husband in the groin.

August 23: *Lamerica*

Steno, a brash Italian con man, travels to Albania to reap riches from the country's battered economy. A film of raw beauty that was hailed as "the triumph of his year's New York Film Festival" by *The New York Times*.

September 6: *Ladybird, Ladybird*

Winner of the 1994 Berlin Film Festival Critics Award, this film chronicles the life of Maggie, a well-to-do mother, who finds hope and love with Jorge, a Paraguayan political refugee.

September 20: *32 Short Films*

About Glenn Gould

Winner of four Genie Awards (Canada's equivalent of the Oscar) including Best Picture and Best Director, this film is a unique portrayal of the controversial and eccentric life of Glenn Gould, the pianist considered one of this century's greatest musicians.

Fermilab Art Gallery

The Gallery on the 2nd floor of Wilson Hall is maintained by the Exhibits Committee, which displays the work of a wide variety of artists. Exhibits generally are in the gallery for a two-month period, with an opening reception the first or second Wednesday of the exhibition. If you would like to be on the mailing list for openings, please contact Janet MacKay at JMACKAY@FNAL.GOV.

Currently in the gallery is **Memory Landscapes**, an exhibit of paintings by Martyl and photographs by Ellen Carr Mederman. Coming up in September and October is an exhibit of computer-manipulated photography by Martina Lopez and Kati Toivanen.

Let's Go Clubbing

An update on some of the clubs active at Fermilab:



Photo courtesy of Fermilab Barnstormers

Jonathan and Amy Streets build Delta Darts in anticipation of the flying time contest.

Fermilab Barnstormers

The Fermilab Barnstormers love to fly, and it shows. The radio-control model club serves to foster interest in the building and operation of all types of radio-controlled flying models. The club promotes these interests through its Delta Dart Night, radio-control flying demonstrations at the Fermilab Flying Picnic and their quarterly fun-fly events. During March's Delta Dart Night for example, 25 children competed in building, trimming and flying their models. The three longest flight times lasted more than 28 seconds. Begun in the early 1970s, the group now has 45 members and a charter with the Academy of Model Aeronautics. All Fermilab, URA and DOE employees and users are welcome to join. For more information, call club president Dave Slimmer at x4334.

Amateur Radio Club

Radio wavelengths don't excite most high-energy physicists, who generally prefer shorter wavelength, higher-energy waves—but exceptions exist. One such exception is the Amateur Radio Club, a group that promotes interest in amateur radio, fosters activity in amateur frequencies, and provides communications during emergencies. The club operates an amateur radio station, WB9IKJ, on the 80-meter through 10-meter bands from site 50, and a

UHF repeater system from atop Wilson Hall. The club welcomes anyone interested in amateur radio, short-wave listening or other radio-related topics to attend their weekly meeting. More information about the club can be found at: <http://www.fnal.gov/orgs/radioclub/radiohome.html> or by contacting Dave Peterson at x3073.

Garden Club

After a long, wet spring, activity abounds at the Fermilab garden area, located in The Village. The Garden Club has 55 members who plant, weed and tend 142 plots. The plots are approximately 20' x 40', and have water access. The Garden Club also has a tiller available for rent at \$4/hour and free lawn mowers and compost when available. Plots cost only three dollars and there are many still available. For more information call Don Goloskie at x2277.

Don't Just Sing in Your Car

—Come Sing With Us

Fermilab hasn't had a choir in a long time, and we think it's time to start one up again. Interested in joining? We're meeting Tuesdays, noon - 1, in the Auditorium. Please contact Leila Belkora at x5681. ■

▼ THE SPORTS PAGE ▼

Winter Volleyball League

On April 8th, the Fermilab refereed volleyball league finals were held at The Village gym. Alma Karas's team was victorious in the championship game, beating the team captained by Cal Loomis and Elizabeth Galos.

The standings for the year:

1. Captain Alma Karas
2. Co-Captains Cal Loomis & Elizabeth Galos
3. Captain Andrew Heckler
4. Captain Ron Ray
5. Captain Brian Chase
6. Captain Ryan Hagler
7. Captain Kirsten Tollefson
8. Captain Raja Rajendran



The 1995/1996 Winter championship volleyball team, pictured left to right: front row, Rose Callaghan, Alma Karas, Yangling Ahang; back row, Inpeng Samayavong, Glenn Cooper, Don Flynn, Rocky Kolb.

Climbing Mount Everest: The stair "well" exercise program.

Congratulations to all who completed the "Climb Mt. Everest" fitness incentive program. The Recreation Office developed the program and Wellness Works sponsored it. From February 1 through April 30, 1996, participants logged either 216 flights of stairs for the low level or 432 flights of stairs for the high level to complete the program.

Recreation Notes

GOLF There is a two-man putting cage located in the village between the softball field and the volleyball courts. Use is first come, first served.

Village Pool Pool passes are on sale in the Recreation Office, WH15W.

CANOES Canoes are available for rent for onsite and off, weekdays and weekends. Cost is \$5 per day per canoe. Advance reservation and payment required. For more information, contact the Recreation Office.

We Tackled the Tower

On April 20th, Fermilab's "Bottom to Top Quarks" team competed with 15 other corporate teams in a race to the top of the 32-story Oakbrook Terrace Tower in an event called "Tackle the Tower," an annual fund-raiser sponsored by the American Lung Association of DuPage and McHenry Counties. Team times were determined by taking the average of the five fastest team members. The Bottom to Top Quarks team took first place in the team competition with an average of 3 minutes and 45 seconds.

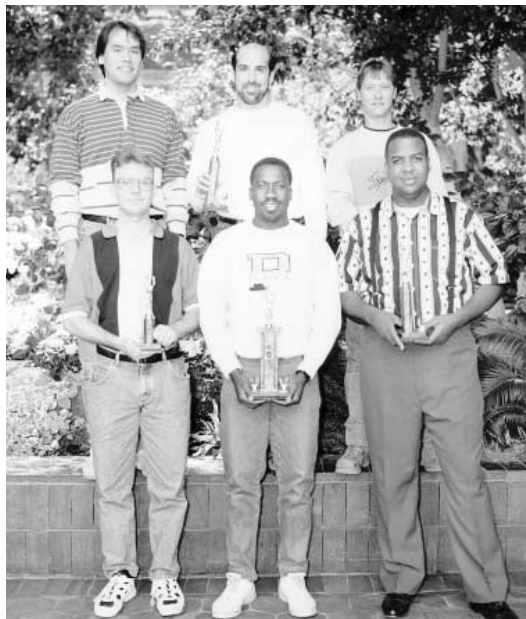
The Bottom to Top Quarks team is interested in expanding next year. If you are interested, contact Merle Haldeman at haldeman@fnal.gov.

Winter Basketball League

It was another exciting season on the Fermilab basketball courts. Al Sondgeroth's team, Wide Open I, walked away with the playoff championship, but not without a battle. The final game with Wide Open II was won by only one point.

The final season standings and records:

1. Wide Open I (Al Sondgeroth): 14-1
2. Wide Open II (Fred Lewis): 11-4
3. Bricklyn Yard (Keith Hronek): 9-6
4. Radiation Sickness (Kevin Pitts): 7-8
5. Team D-Zero (Giant DiLoreto): 3-12
6. 5-OHHH (Bernard Price): 2-13



First place team in the 1995/1996 Winter Basketball League, pictured left to right: front row, Rob McTaggart, Paul Upshaw, Larry Spires; back row, Mark Mattson, Al Sondgeroth, Brian LaVoy.

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