

FermiNews

The Newsletter of the Fermi National Accelerator Laboratory

DECLINING HEP BUDGET MANDATES CHANGE

Fiscal year 1995 promises to be another difficult funding year for high-energy physics, and Fermilab must make further changes in the use of resources to carry out the physics program with fewer dollars.

Fermilab's base budget (excluding Main Injector construction funds) in FY94 is \$200,438,000. The President's budget request for FY95 is \$194,750,000. Although the exact outcome of the FY95 budget process is not yet final, next year's funding will probably fall about 3% short of this year's. "Assuming 3% inflation, the loss in purchasing power is 6%," Associate Director BRUCE CHRISMAN said. "This comes on top of an 8% loss in purchasing power in FY94, for a total drop of 14%."

To carry out its mission with a lower budget, Fermilab will have to reduce staff. The Directorate has set 2,100 as the target number for full-time equivalent employees (FTEs) by early FY95, down from 2,270 in November 1993,

and 2,243 currently. FTEs include regular employees, day workers and term employees. It is hoped that many of these reductions can be achieved by normal attrition—retirement, expiration of term appointments and voluntary reduction in force.

"Next year is going to be difficult," Bruce said. "Our budget problems in FY94 were partly offset by a rate reduction by Commonwealth Edison, which saved the Lab several million dollars." The rate reduction will not be in effect next year.

"Division and section heads are now looking at their goals and determining their staffing needs," said CHUCK MAROFSKE, head of the Laboratory Services Section. The Directorate is conducting a detailed organization and budget review.

"We are taking a different approach from the one we have used in the past," Bruce said. "Division and section heads

are making their budget presentations not only to the director but also to the other division and section heads. Through this exercise, we hope that we can identify organizational efficiencies and save costs by changing the way we do business."

The new budget process "gives us all a better grasp of the real situation the divisions and sections are facing as a result of budget cuts," said Deputy Director KEN STANFIELD. "It helps us find solutions that benefit the Lab as a whole. We have no choice but to reduce staff. This process gives us essential information on which to base difficult staffing decisions."

Despite next year's lower budget, the deputy director points to hopeful signs for the future. "DOE has demonstrated its commitment to Fermilab as the key laboratory in the current U.S. particle physics program," he said, "and intends to provide full funding for constructing the Main Injector." He said that both DOE and Congress have had a favorable first response to HEPAP's Drell Subpanel's recommendation of a constant level of funding for high-energy physics plus a \$50M/year "bump" for three years beginning in FY96. The House of Representatives has voted to restore \$25M in operating funds to the FY95 budget.

"Fermilab is at the heart of the U.S. program, with important, exciting physics to do," he said. "We now face the challenge of achieving the results that are within our grasp, in some of the toughest times our field has seen." ■

FermiNews



Friday, June 17, 1994 • Volume 17, Number 10

URA Scholarships	page two through three
Health & Fitness Day	page four
Soccer at Fermilab	page five
People & Events	pages six through seven

URA SCHOLARSHIPS AWARDED TO SENIORS

The Universities Research Association has awarded its annual scholarships to 13 sons and daughters of URA employees. The scholarships are designated for graduating seniors beginning a four-year degree program the following fall. The maximum amount of the scholarship is \$3,000 towards tuition and fees and is renewable for four years if the student stays in good academic standing. Awardees were selected on the basis of Scholastic Aptitude Test (SAT) scores.

LILY CHOU, daughter of WEIREN CHOU (SSC transfer, to start in August), is also a recipient of the Shell Freshman Scholarship at the University of Texas at Austin. Lily plans to study computer science at the University of Texas and eventually pursue a master's degree. She is a graduate of Duncanville High School in Duncanville, Texas.

ANDREW JACOB COOPER is a graduate of Batavia High School and the son of DØ physicist WILLIAM COOPER. Andrew will be attending the University of Illinois' School of Engineering to study computer science. He has been recognized as a Commended National Merit Scholar, Illinois State Scholar, National Honor Society member and was co-valedictorian of his class.

JOSEPH DONALD COSSAIRT, son of DON COSSAIRT (ES&H), will be attending Illinois State University in the fall to pursue a degree in criminal justice. Joseph is an Illinois State University presidential scholarship recipient and a graduate of West Aurora High School.

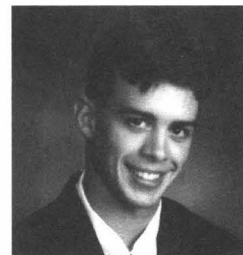
GWENDOLYN AMY GIERHART will attend the University of Illinois in the fall. Gwendolyn is the daughter of



Lily Chou



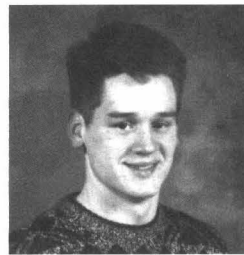
Andrew Cooper



Joseph Cossairt



Gwendolyn Gierhart



Andrew Hauser



Nancy He



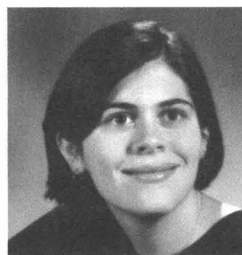
Clara Lipton



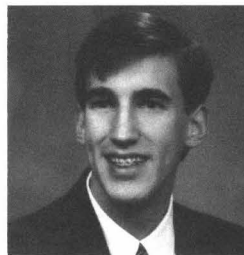
Julia Zhao-Hua Ng



Anne Pordes



Katherine Quigg



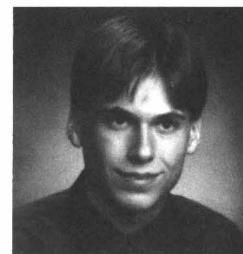
Matthew Roman



Jennifer Schmitt

TIM GIERHART (AD). A graduate of Rosary High School in Aurora, she is also a member of the National Honor Society and a member of Who's Who Among American High School Students. Gwendolyn plans to study animal sciences at the University of Illinois.

ANDREW JOSEPH HAUSER is a graduate of Marmion Military Academy in Aurora and will attend the University of Illinois in the fall. Andrew, the son of RICHARD HAUSER (AD), is a National Merit Finalist, Illinois



Bruno White

continued to page three

SCHOLARSHIPS

continued from page two

State Scholar and member of the National Honor Society. He is also a recipient of the Ted Bratton Civic Youth Award. He will study architecture at the University of Illinois.

NANCY HE, a graduate of DeSoto High School in DeSoto, Texas, is a National Merit Commended student, National Science Scholar and a member of the National Honor Society. Nancy, the daughter of SHIQI HE (CD), plans to major in either electrical engineering or computer science at either Cornell University, Northwestern University or the University of Texas at Austin. She plans to graduate with a Ph.D. to pursue research in space and particle acceleration.

CLARA ELISABETH LIPTON will be attending the University of Colorado at Boulder in the fall, where she plans to study political science. Clara, the daughter of RON LIPTON (RD/DØ), is an Illinois State Scholar and a graduate of York Community High School in Elmhurst. Clara plans to attend law school in the future.

JULIA ZHAO-HUANG, daughter of KING YUEN NG (AD), is a recipient of the Army, Navy, Air Force ROTC scholarship and the Seigle Family Foun-

dation scholarship. Julia, a graduate of Waubonsie Valley High School in Aurora, received the Waubonsie Valley High School Green and Gold Academic Awards in calculus, math analysis, physics and genetics and is an Illinois State Scholar. Julia will attend the University of Illinois to study pre-medicine.

ANNE RACHEL PORDES, a graduate of Glenbard West High School in Glen Ellyn, is a National Merit Commended Scholar and an Illinois State Scholar. Anne is the daughter of RUTH (CD) and STEPHEN PORDES (Physics). She will attend Columbia University in New York in the fall to study political science or economics.

KATHERINE KELLEY QUIGG will be attending the University of California at Berkeley this fall to pursue a major in genetics. Katherine, the daughter of CHRIS (RD) and ELIZABETH QUIGG (CD), is an Illinois State Scholar, a Saturday Morning Physics participant and a member of the National Honor Society. She is also a recipient of the Brown University Book Award for English and a graduate of Wheaton North High School.

MATTHEW JOHN ROMAN, son of MICHAEL ROMAN (RD), is a

graduate of Geneva Community High School. Matthew is an Illinois State Scholar and a recipient of the Marquette University Honor Scholarship. Matthew plans to study biochemistry at Marquette University in Milwaukee in the fall.

JENNIFER MARIE SCHMITT is a graduate of Batavia High School and will attend Illinois Wesleyan University in Bloomington in the fall. Jennifer, the daughter of RICHARD L. SCHMITT (RD), is an Illinois State Scholar and a member of the National Honor Society. She is the recipient of scholarships from the Batavia V.F.W., the Batavia Moose Lodge and Illinois Wesleyan. Jennifer plans to study music and would like to conduct or perform in the future.

BRUNO JOHN WHITE is the son of VICKY WHITE (CD) and a graduate of Glenbard West High School in Glen Ellyn. Bruno will attend the University of Chicago in the fall where he plans to major in physics. Bruno is an Illinois State Scholar and a recipient of the Rensselaer Math and Science Award. Bruno plans to become an experimental physicist. ■

LAB SCIENCE BOWL TEAM PLACES 4TH

The winners of the Fermilab Regional Science Bowl placed fourth at the DOE National Science Bowl competition held April 22-25 in Washington, D.C. Milwaukee's Rufus King High School competed with approximately 50 teams from other DOE facilities' regional science bowls to take fourth place honors.

At the Fermilab Regional Science Bowl held here in February, Rufus King beat

Batavia High School for first place and the chance to represent the Lab at the national competition. In Washington, the first three places went to teams from Atlanta, Bates and Dallas.

The top four teams all won trophies and trips. The Rufus King team will travel to Monterey, California for a science-filled study in conjunction with the Department of the Interior.

GET OFF YOUR BACK

A back injury can be very painful and can severely limit your lifestyle and activity. American workers complain more about backaches than any other physical problem except headaches. Three-fourths of the people in the U.S. experience back pain during their lives. Seventy-million people have back pain that interferes with their daily activities and worsens with age. One third of all

continued to page eight

HEALTH & FITNESS DAY DRAWS HUNDREDS

Fermilab's Ring Road was filled with more than just the usual Canada goose traffic May 18 as nearly 200 health-conscious Lab employees took part in the National Employee Health & Fitness Day (NEHFD) Fun Walk/Run Around the Ring sponsored by the Wellness Works Committee.

Two hundred and three employees donned their sporting gear to either walk, run, bike or rollerblade around the 4-mile ring. The majority of participants made their way around the entire ring, with only 17 of the "fun walkers" choosing to go half-way.

The fun walk/run, held as part of the national fitness

day, has become an annual event at the Lab and is drawing more people each year. Last May, approximately 100 athletes and/or would-be athletes took part in the NEHFD.

Each participant received a complimentary bottle of water and a coupon for a free piece of fruit or frozen yogurt

from the Cafeteria. Donated NEHFD pins, seat cushions, water cups and t-shirts, as well as a membership to the Fermilab Recreation Center and a season pool pass, were raffled to employees. As part of the day's events, the Laboratory Services Section also received the trophy for the highest percentage participation from a division or section. Laboratory Services had 25% of its employees walk the ring, while the Directorate came in second with 18% of its people taking part, and Business Services Section took third with a 13% turn out.



The winning LSS Walk-the-Ring participants: (row 1, l to r) M. Pitz, R. Navar, C. Marofske (LSS Head), J. Szyplik (row 2, l to r) S. Hanson, K. Campbell, A. Johnson, S. Colson, S. Shultz (row 3, l to r) R. Hahn, J. Kidd, D. Ingram, B. Williams, J. Isenhour (row 4, l to r) P. Noyes, F. Ullrich, C. Crego, M. West, P. Garrett, R. Atkinson. (Not pictured) P. Cashin, C. Foster, K. Gramly, N. Lanning, P. Lavaille, A. Richardson, L. Robbins, J. Thomas.

JOAN ROCK REACHES FOR PERSONAL BEST

When JOAN ROCK of the Accelerator Division first put on a pair of in-line skates she had two goals in mind: lose 40 pounds and skate once around Ring Road by the end of September.

A simple task, some might think, but for Joan it is different. Two months ago Joan could not walk down a flight of stairs because of severe arthritis in her knees. Not wanting to take medication of any kind for the ailment, she chose to follow a personal diet and exercise plan that would allow her to walk with more freedom and much less pain.

Joan's plan called for her to start out slowly, roller blading the distance between Main Ring Service Buildings and adding a sector a day. She thought she would be in condition and able to skate the entire ring once by September

23. Joan was wrong. On May 18 at the National Employee Health and Fitness fun walk/run around the ring, Joan skated the entire ring, and then on May 25, she did it again. She can now go up, and down, flights of stairs, months before she thought it would be possible.

"I've always been against medication of any kind," said Joan. "So what's the alternative? Lose weight and get some muscle."

Joan tries to skate every day during her lunch hour, and has only missed a few days since beginning the skating April 14. "I'm getting better and I haven't fallen yet. I plan to get even better." Joan said her support out in the ring has been fellow skaters DAVID ANDERSON (RD), MERLE HALDEMAN (RD) and SHARON AUSTIN (RD).

"They have been my cheering group and are helping me find a better pair of skates. They've been tremendous."

Joan added, "It really does help, if you just do it. You see, no matter what I do, I win. If it hurts and I can do it, I know I can live with the pain. If it doesn't hurt and I get better, I win."



Joan Rock on one of her daily skates along Ring Road.

EDUCATION OFFICE OFFERS SUMMER PROGRAMS

In this, the third in a series of articles on Fermilab's Education Office summer programs, we examine the High School Honors Research Program in Particle Physics.

The DOE Honors Program gives 60 talented high school students a unique opportunity to interact with physicists at Fermilab. The program is under the direction of physicist DRASKO JOVANOVIĆ (Physics) and ROBERT GRIMM, physics teacher at Fremd High School in Palatine. Physicists, physics teachers and counselors make sure that the students have a rewarding and exciting hands-on experience in the world of high-energy physics. This year's program will be held July 4

through July 17, 1994.

A lecture series with Fermilab physicists is scheduled for the mornings to give the students background physics necessary for their research. In the afternoons, teams of students will construct and use cosmic ray telescopes. Each experimental team will prepare a report on their work.

DOE funds the Honors Program in which six other national laboratories participate. Other program members include Argonne, Brookhaven, Lawrence Berkeley, Oak Ridge and Sandia National Laboratory. The grant provides funding for the educational program as well as for the students'

The DOE Honors Program gives 60 talented high school students a unique opportunity to interact with physicists at Fermilab.

travel and living expenses.

The governors of all 50 states and the District of Columbia select the students to participate in the prestigious program with each state naming one representative to each of the seven laboratories. Based on their interests and backgrounds, the students were matched to specialized honors programs in particle physics, supercomputers, materials sciences and life sciences.

SOCCKER AT FERMILAB: WHAT A KICK

Soccer has become one of the most exciting and popular activities at Fermilab. There was a joke circulating that CDF originally had scheduled the top quark announcement for Wednesday but rescheduled it for Tuesday when they learned that the CDF soccer team was playing that Wednesday evening. Jokes aside, soccer at Fermilab is a great way to exercise and have fun at the same time. The Fermilab Soccer League recently completed its second indoor season. Six teams numbering more than 100 players competed over a six-month period in a total of 75 games. For the second year in a row, the Tigers have won the indoor championship. They outdistanced their nearest competitors, Chakra, by two victories. A spirit of friendly competition prevailed throughout the season. There were many more closely contested games this year than last, as some of the weaker teams improved vastly over the course of the season.

Chakra won the inaugural outdoor season championship last year by several victories. This year's season, which started in mid-May, will extend until early September. Outdoor league play is open to Fermilab employees, users and their immediate families. New players are welcome during the season. Players at all levels of experience and skills are invited to join in the fun. Games are played in the Village on Tuesdays and Thursdays at 6 p.m. The players in the league have made many new friends from around the Lab and around the

world through the weekly soccer games.

The Soccer League is looking forward to playing on the new outdoor soccer field. The field may be available for league play as early as mid-summer. Don't miss the big opening celebration.

—Rich Andrews and Pat Mooney



Members of the Fermilab Soccer League at their end-of-the-season celebration.

People Events

MOVIE SCHEDULE

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. Coffee and cookies will be served on the second-floor mezzanine following each film.

June 24: *Ruby in Paradise*, Ruby, coming from a small town, is awe-struck by the majesty of Florida's Panama City; a once beautiful beach now slowly consumed by commercialism. Victor Nunez, director, U.S., 1993, 115 minutes.

ARTS SERIES PRESENTS

KOKO TAYLOR & HER BLUES MACHINE

Koko Taylor, Queen of the Blues. She earned the title in the tough blues world, taking her gritty music from the tiny Chicago clubs to giant festivals, network radio and television performances and the silver screen. She's received every honor the blues has to offer including the Grammy Award for Best Blues Recording in 1984. In fact, seven of her last eight albums have received Grammy nominations. The blues community's highest honor, the W.C. Handy Award has gone to Koko 10 times, more than any other artist. This

blues legend makes a concert appearance at Ramsey Auditorium on Saturday, June 25 at 8 p.m.

Koko developed her style from a potent mixture of blues and gospel influences. She followed her husband to Chicago at age 18 and she was soon sitting in with stars Muddy Waters and Buddy Guy. It was Willie Dixon who gave Koko her first national break, signing her to the legendary Chess Records label. It was on that label that she recorded her million-selling hit "Wang Dang Doodle" in 1964.

At the request of Taylor, please note there will not be an intermission. This concert may also be louder than many



Koko Taylor

Ramsey Auditorium events. Tickets are \$14. For reservations, call xARTS.

NALREC

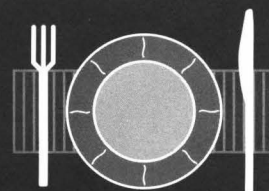
Having a hard time? Come to Nalrec's Hard Times Party June 24 at the Village Barn and ease your troubles. The party will run from 5:15 p.m. to 9:30 p.m. and will feature the band Croozin' the Loop. A six-ounce ribeye steak, baked potato, coleslaw, roll and butter will be served for dinner at \$3 a plate.

"Maybe I shouldn't have said that about his detector. Maybe he's right about muon tracking. Maybe I shouldn't have called his native intelligence into question. Maybe I should call him. It's Wednesday. Maybe he'd have lunch with me at Chez Léon."

Chez Léon—Delectable things happen on Wednesday.

Chez Léon Menu

Lunch (Wed) \$8.00 • Dinner (Thurs) \$20.00
Reservations: x4512



Wednesday, June 22 • *Lasagna Spinach Rolls w/gorgonzola dressing, green salad, fresh fruit plate*

Thursday, June 23 • *Fresh garden salad, grilled Norwegian salmon w/sorrel sauce, vegetable of the season, rhubarb/strawberry tart*

NALWO

The Nalwo Spring Tea, hosted by Nancy Peoples at her on-site home, brought together many women from the Lab. Thank you to our hostess, to all the women who contributed food, to the Cafeteria staff and Security for their support, to the Housing Office staff and the Nalwo organizers for their help, and even to the weather for allowing us to celebrate the arrival of spring on the Peoples' deck.

The Fermilab International Folk Dancers plan to continue dancing through the summer at Ramsey Auditorium, Thursdays at 7:30 p.m. On June 30, July 21 and August 25 folk dancing will be preceded by a picnic supper in front of the Village Barn at 6:30 p.m. In addition, the Fermilab International Folk Dance Performing Group will present a demonstration and teaching workshop at the Blackberry Farm Summer Festival on Sunday, June 26.
—Sue Mendelsohn

BARNSTORMERS

The Fermilab Barnstormers Radio Control Model Club will host the 5th annual Anthony Frelø Memorial Helicopter Fly-In June 25 and 26. Everyone is invited. Spectators are welcome and refreshments will be available. This is the first official Barnstormers summer event that includes two days of model helicopter flying fun. Pilots of all skill levels are encouraged to attend.

Harper's Index

Maximum flying speed of a dragonfly, in miles per hour: **30**

Number of U.S. colleges and universities offering the "Creative Dating Workshop": **100**

NEWS FROM THE ACTIVITIES OFFICE

CALLING ALL FEMALE VOLLEYBALL PLAYERS

The Fermilab Volleyball League is recruiting additional women for league play. Any woman interested in playing should contact Maxine at FNALV::MAXINE or Jean at x2548

or FNALV::JEANM.

SWIMMING LESSONS

Openings are still available for beginner and intermediate swimming lessons. The cost is \$20 for the five-week session from July 18 to August 19.

WEIGHT WATCHERS OFFERS PROGRAM

The North American Midwest Division of Weight Watchers will be holding an open house June 22 at noon in the WH15NW conference room for any employee interested in joining the Weight Watchers program. Weight watchers is offering a 12-week session

for \$119, a savings of \$27, and an additional two weeks free. If you are interested in joining, you may enroll at the open house or up to one week after in the Medical Office through MAE STROBEL.



DOE Quality Council meets at Fermilab

The Secretary's Quality Council, tasked to set the direction and approach of the Department of Energy's quality initiative, held its May meeting at Fermilab. "We try to reach as many DOE locations as possible," said Arch Durham, Assistant Secretary for Human Resources and Administration and permanent chairperson of the council. "We have met in Albuquerque, South Carolina, Washington, D.C. and now Chicago." Moving the geographical location of the meetings helps the members, who represent a broad cross section of the DOE complex, to gain a better understanding of the missions and goals of the various laboratories and facilities. "The common denominator of the group is that we are all working toward quality improvement," said Durham. In a brief interview for FermiNews, Durham said he believed in the goals of the quality initiative. "Employees need to know that there is something in the quality initiative for them. It will make their work easier, their life better, create a better workplace environment, help employees meet programmatic goals and secure customer satisfaction." During their May 10-12 meeting, Associate Director Bruce Chrisman, who also serves on the council, gave the visitors a tour of the Laboratory.

BACK PAIN

continued from page three

Americans suffer back pain severe enough to keep them home from work at least once. Each day about six million Americans are treated for low back pain.

Preventing back injuries, no matter how slight, reduces the potential of a possible health problem that could alter your lifestyle for the rest of your life.

According to a study of more than 600,000 workers' compensation claims conducted by the National Council on Compensation Insurance, almost one third of all the worker's compensation lost time cases are due to back injuries.

From January 1993 to the present, Fermilab recorded 16 back case injuries that resulted in 217 lost work days, 178 restricted limited duty days and associated costs of \$58,000. Of the 16 back injuries, five resulted while employees were lifting five gallon water bottles onto coolers. This accounted for 53 lost work days and associated costs of \$13,404.

The five key points of proper body mechanics are:

- Plan ahead. Get help if needed.
- Hold the object you are lifting close to your body.
- Bend your knees.
- Use a good base of support.
- Lift with your legs.

—Milton A. Dumas, ES&H

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CLASSIFIEDS

■ VEHICLES

1990 Mercury Cougar LS, silver w/ black inter., like new, runs great, 3.8L V-6, fully loaded, 77k highway miles, \$8,700. Call Jerry at x8779 or 708-453-0602.

1989 Honda Accord DX, white, PS, PB, AC, AM/FM/cass stereo, excell. cond., \$7,600 o.b.o. Call Marge at x3800.

1989 Chevy Corsica, 97k miles, very clean, sun-roof, AM/FM/cass, AC, cruise, new brakes and battery, tinted windows, \$3,800 o.b.o. Call Jackie/Dan at 708-264-0255.

1985 Honda Prelude, 86k miles, 5 spd., excell. cond., \$3,600. Call x3030 or x3027.

1979 Chevy Malibu, 4 dr. sedan, V6 200, auto, AC, newer tires, 130k miles but very reliable, great local-use car, \$450 o.b.o. Call Dane at x4730.

1979 Ford F150 pickup truck, 400 cu. in. V-8, 107k miles, runs well, body rough & has transmission leak(s), \$400 o.b.o. Call Russ at x2888 or 815-393-3314.

■ MISCELLANEOUS

1979 Rockford pop-up camper, sleeps 6, propane heater, stove, porta-potty, sink, table, \$1,200 o.b.o. Call 708-879-1283 or x3158.

John Deere lawn tractor, 11 H.P., 36 in. cut, \$800. Call x3011.

Truck camper top, furnace, stove, LP tank, sink, cold box, lifting wenches, needs work, \$100. Call Russ at x2888 or 815-393-3314.

Go-kart 8 H.P., off road, few hours, \$600; BMX bikes: BADD frame & fork, \$50; EIF cruiser plus spare wheels, \$175. Call Greg at x3011 or 708-557-2523.

■ REAL ESTATE

1 bdrm apartment for rent, bright, nice view, balcony, fireplace, xtra storage, swim pool, pets O.K., 15 min. drive from Lab, \$549/month, 1st month's rent free. Available July 1. Call Anna at x3635 or 708-293-3915.

Year-round 3 BR in N. Wisconsin, 1800 sq. ft. w/att. garage, 40 secluded acres on Iron River w/private island. In Chequamegon Nat'l Forest, 25 mi. W of Ashland, \$128,000. Call 708-393-3568.



The deadline for the
Friday, July 1, 1994
issue is WED., JUNE 22.
Please send your article
submissions or ideas to
the Publications Office.