

## Task force sets funding priorities for DOE

### Funding of the Main Injector deferred pending recommendation by HEPAP

On September 19 and 20, a task force of the Secretary of Energy Advisory Board convened in Washington, D.C. to help DOE's Office of Energy Research (OER) set its research priorities.

The task force, composed of 15 scientists and chaired by Nobel laureate Charles H. Townes, was requested to advise the Office of Energy Research on the manner and level at which it can support its OER funded programs in basic energy science, fusion, nuclear physics and high energy physics on a budget that will remain flat or declining. All OER programs with the exception of the Superconducting Super Collider (SSC) were subject to review.

Secretary of Energy James D. Watkins told the task force only to set priorities and not to suggest modifying projects or stretching-out construction schedules. According to Admiral Watkins, "In a time of budget austerity, the Department has to give highest priority to the most cutting-edge science. While assessments of priorities in specific fields have been carried

out, there is a need to develop an integrated view of scientific priorities across a number of fields." The task force heard presentations from all the relevant laboratory directors and DOE program officers. Fermilab Director John Peoples made a presentation on both the Fermilab Research program and Main Injector project.

#### Panel sets priorities

Following the presentations the task force concluded that in an era of enforced fiscal restraint, it is not possible for the Office of Energy Research to complete all nine proposed DOE facilities over the next decade and continue to support its base programs at existing levels. Prefaced by warnings that America is "underfunding basic research" and "endangering its scientific infrastructure," the panel proceeded to recommend funding priorities.

#### HEPAP to determine the fate of the Main Injector

The task force recommended that appropriations for both high energy physics initiatives—the Fermilab Main Injector and the SLAC B factory—be de-



***"I will continue to push vigorously for the Main Injector project. I believe it is the best way to exploit the potential of the Tevatron for the discovery of new physics."***  
**John Peoples,**  
**Director**

ferred until the High Energy Physics Advisory Panel (HEPAP) reviews them. The task force recommended that HEPAP reexamine the entire U.S. High Energy Physics program and set priorities within the context of the new budget realities.

The future of the Main Injector depends on the outcome of a HEPAP review, which will begin October 28. During the October meeting, HEPAP is likely to recommend forming a subpanel to evaluate the continuation of Main Injector funding and the initiation of B factory funding.

According to Director John Peoples, the panel will probably need about six months to complete its work. If HEPAP gives the Main Injector project a favorable

review it is possible the project could be placed in the FY93 budget. "I will continue to push vigorously for the Main Injector project," said Director John Peoples. "I believe it is the best way to exploit the potential of the Tevatron for the discovery of new physics."

"Needless to say, these developments are not good news," said John. "But even without the Main Injector we will have the strongest program in the United States for the next decade."

#### Fermilab remains a dominant force

According to John, the Linac Upgrade will be completed in 1992 as scheduled and the Accelerator Division will continue to make im-

***Continued on page 2.***

## Task force continued from page 1

provements to the Tevatron and the other accelerators. The Research Division, Physics Section and Computing Division will be supporting major upgrades of the CDF and DØ detectors. DOE continues to give these upgrades a high priority.

In addition some major changes to the Neutrino and Muon areas are under consideration in order to accommodate new initiatives for E799/P832, a pair of experiments designed to improve our knowledge of CP violation in the neutral K system; and P815, the next generation neutrino experiment.

### Fermilab faces challenging future

"We have the highest energy collider in the world," said Director John Peoples. "We are well on our way to completing a very successful fixed target run. The Accelerator Division has already set records for reliability and efficiency and may set a new intensity record for the Tevatron before the run ends in mid-December. Our users are very pleased with the quality of the data that they have obtained since accelerator operations resumed in July. There is every expectation that the data will be analyzed and published

expeditiously. Our highest priority will shift from the fixed target experiments to the collider experiments in December. Our goal will be to bring up the collider and the experiments, CDF and DØ, as quickly and smoothly as possible."

In the 1992 collider run, for the first time both CDF and DØ will be ready to take data. "This data promises to be the most exciting taken at any accelerator in the world, as these two detectors will be searching for phenomena in completely unexplored territory," said John. As the Tevatron luminosity is increased with the

commissioning of the Linac Upgrade and other approved improvements, the CDF and DØ collaborations will push even deeper into the unknown territory.

The top quark remains the most celebrated quarry for CDF and DØ. At the moment and for at least ten years, Fermilab is the only place where a direct observation of this particle can be made, according to John. "Because the Main Injector offers the only opportunity for extending the search further into the unknown in this century, Fermilab will continue to press the case for the project to DOE."

## Tune in to the information channel

For the latest Laboratory information, look to channel 9. Fermilab's CATV TV system now has a 24-hour information channel, providing the most up-to-date reports from around the Lab.

**Jim Shultz** of Visual Media Services created the text information display that shares running time with *Video News*. Channel 9 of the Laboratory cable system keeps employees abreast of the latest developments with items of interest that include the cultural events schedule, employee benefits information, ES&H postings, weather bulletins, computer and data network updates,

research milestones, Lab volunteer notices and club meetings. Jim updates the text display every Monday morning or when needed.

Just watch channel 9 on any CATV monitor for the latest news and information. Catch the information channel in the atrium at the video kiosk. It will soon be available in the Industrial Center Building.

If you have any suggestions or would like to share information to be aired on the information channel, please contact Visual Media Services at x4364, MS 202, or e-mail FredU or Shultz. — *Fred Ullrich*

## Car Club opens its doors for 92-93 membership drive

The Fermilab Car Club will be accepting membership applications November 11 through November 22 in front of the Users Office located in Wilson Hall, 1 East between 11:30 a.m. and 1:00 p.m. The membership fee will be \$25 for two years.

The Car Club was formed about 15 years ago to provide a warm, dry place in the village for Lab employees and users to change their oil, according to **John Brown** (AD/EE Support). Today, the heated garage accommodates two cars and is equipped with



floor jacks, an air compressor, air tools, a tire changer, balancing bubble and drums for waste oil and antifreeze.

The Club, 100 members strong, uses membership fees to equip the garage with tools. Garage space is available on a first-come, first-serve basis. Members receive their own key to the garage, and all Fermilab employees and users are welcome to join.

Interested persons with questions regarding membership in the Car Club may call John Brown at x3535.

# Recruiting advertisement looks for talent; brings back award

How does the creative work produced by one Chicago ad agency measure up in its ability to recruit a specialized type of individual to an environment like Fermilab? A perfect ten if you use the Employment Management Association's (EMA) yearly *Creative Excellence Advertising Award* as a gauge.

The EMA, a national network of employment and human resource professionals, presented Jordan Tamraz Caruso Advertising, Inc. (JTC) with the Best in Category award for College Recruiting at an October 10

luncheon at the Westin hotel in downtown Chicago.

JTC has been working with the Fermilab Personnel Office for the past seven years developing recruitment advertisements designed to attract college graduates to Fermilab. The advertisements are published in the *College Placement Annual* (CPA), a recruitment catalogue with a circulation of over one million copies.

JTC's work in winning the EMA award showed incredible creative talent and attention to understanding

the needs of the Personnel Office, Personnel Manager **Jim Thompson** said. "Our recruitment advertising has really benefitted from this relationship," Jim said. "The ad in CPA has drawn some excellent results."



**Chuck Marofske (l) and Jim Thompson (r) display the Creative Excellence Advertising award.**

Shelley Krivich, JTC Account Executive responsible for the Fermilab ad, acknowledged that the success of the relationship between her company and Fermilab relied not only on the work of her creative team, but also on the constructive input of the Fermilab Personnel Office. "We're only as good as the clients allow us to be," Krivich said.

"It's certainly nice to be recognized in your own field," Krivich said of the EMA. The EMA is a professional society that provides a forum for the better understanding of employment and human resource-related issues facing American industry, education, business and government. "More than that, we're excited on behalf of Fermilab."

Both Jim Thompson and Krivich agreed that working with professionals like **Joy Thomas** (LS/Employment) and Laboratory Services Section Head **Chuck Marofske** to identify Fermilab needs while investigating JTC approaches was an integral part of producing the award-winning advertisement. Krivich, whose division specializes in recruitment advertising, said her company was pleased to be chosen as one of this year's recipients.

JTC Art Director Kurt Walters accepted the award as senior member of the art department. The company also took home the Merit Award for College Recruiting as well as the Merit Award for four-color trade and non-special interest organizations. Awards were presented in ten recruitment-oriented categories. The ads will appear this year in *College Placement Annual* magazines subscribed to by approximately 1,500 college placement offices around the country. — **Brian Dick**

## A HOME WHERE THE BUFFALO ROAM AND THE PARTICLES COLLIDE ALL DAY.



It's a place where prairie stretches for thousands of acres. A natural habitat where plants and lakes, wild buffalo and near extinct birds coexist.

But more surprising, it's an R&D facility where beams of protons and antiprotons collide, in one of the most technologically advanced accelerators in the world.

At Fermi National Accelerator Laboratory, we're not only renowned for our 1000 GeV Superconducting Particle Accelerator and our herd of buffalo. We're uncovering the truth about the top quark... developing and programming ultra high-speed microprocessor computer systems... and making astounding advancements in the fields of Cryogenics, Super-

conducting Magnet Design and Particle Detectors. And that's just the beginning.

At Fermilab, we specialize in discovering the truth about both the future and the past—and then we bring it to the present.

We're seeking Electrical and Mechanical Engineers, Computer Scientists and Physicists with the talent to continue our bold course of discovery. If you possess a Bachelor's or Master's degree and a highly questioning mind, please send your resume to: Mr. James L. Thompson, FERMI NATIONAL ACCELERATOR LABORATORY, P.O. Box 500, Batavia, IL 60510. Fermilab is an equal opportunity employer m/f.



**Fermilab**





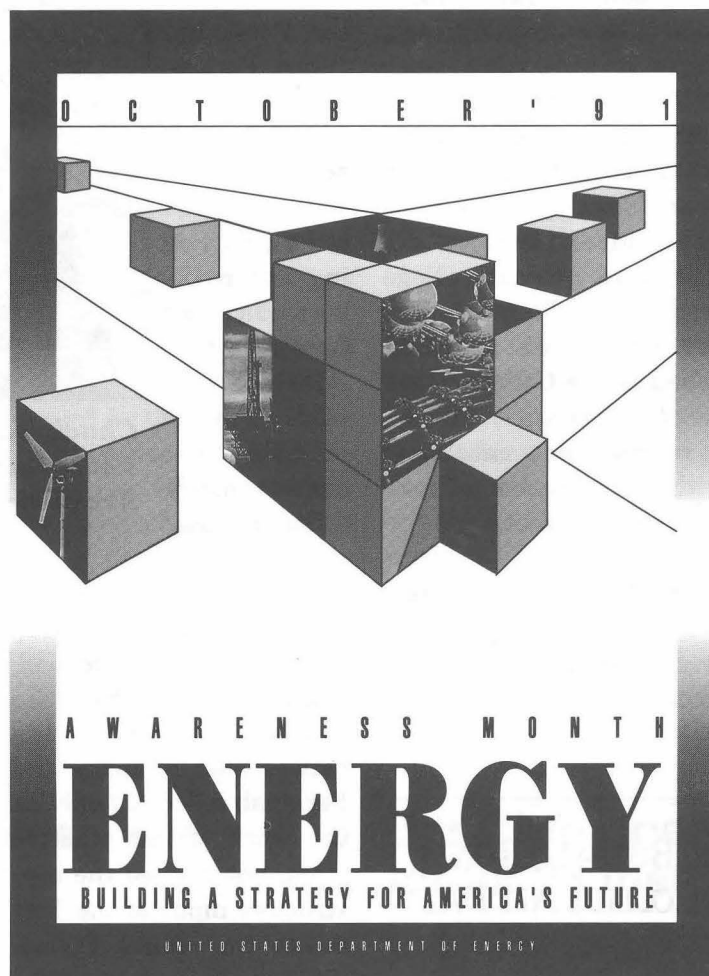
# October: Energy Awareness Month

Through public understanding and awareness of efficient energy use and conservation, we can all contribute to building an energy strategy for America's future.

As the next century draws near, the United States needs a comprehensive and balanced strategy for a secure energy future. Ensuring this will require the wise and effective development of all our Nation's energy resources, development of new technologies, greater use of alternative fuels, aggressive improvements in energy efficiency, scientifically literate citizens and an adequate science and technology work force to make well-reasoned decisions about energy options.

Our planning and decision making must integrate all these options in one comprehensive strategy to effectively ensure the availability of abundant and affordable energy for the future. The President, in signing the April 17 Executive Order on Federal Energy Management, noted the importance of energy efficiency:

"I'm very pleased to sign this Executive Order that directs all the Federal agen-



cies to take whatever appropriate action is necessary to reduce their energy use by at least 20 percent by the year 2000 and reduce fuel consumption by at least 10 percent by the year 1995."

Adherence to this order will mean that Federal facilities and the Federal vehicle fleet will experience substantial savings while cultivating an increased reliance on alternative fuels, alternative-fuelled vehicles and other energy-efficient products, Mr. Bush said.

"Such actions would then save up to an estimated \$800

million per year by our target year 2000 — the equivalent of up to 100,000 barrels of oil per day. So achieving these important and ambitious goals is part of our strategy for enhancing our overall energy security," Mr. Bush added. "An awful lot can be done just by the actions that I've outlined here."

And an awful lot is being done now, right here at the Lab, with the support and backing of the U.S. Department of Energy. Numerous projects are currently in the works: converting buildings to more efficient lighting; installing intel-

ligent building controls with sophisticated energy strategies; converting facilities to natural gas energy and installing systems that can utilize free cooling in winter.

Furthermore, studies have been commissioned to analyze energy savings from system upgrades at the Central Utility Plant; to study power correction in the 13.8 kv network; and to improve circuiting of cooling ponds. In coming weeks, additional opportunities to further help the Lab meet its energy goals will be highlighted.  
— Steve Krstulovich

## Passbook to savings on sale

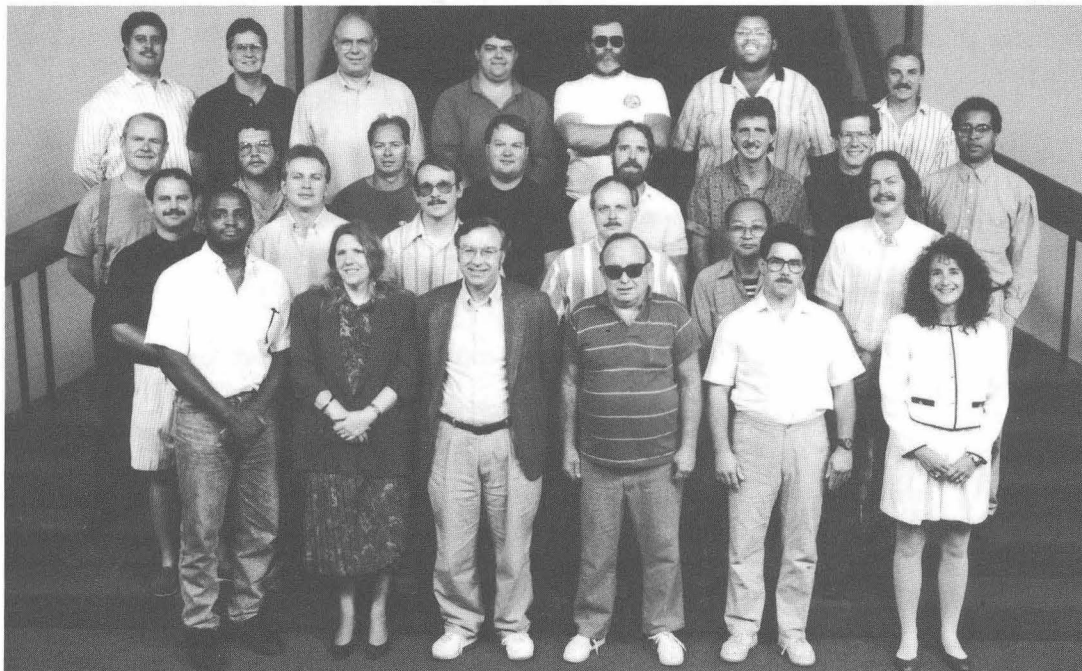
The Activities Office announces the Passbook '92, offering two for one savings and discounts from area retailers on many items such as golf, restaurants, airfare, hotels, car washes, dry cleaners, amusement parks, sports events and more.

Passbook '92 serves the Chicago and Northwest Indiana area.

Passbook '92 is on sale now at a discount rate of \$25 in the Activities Office, WH1E. A sample book is on display.

## Milestones

### Celebrating ten years of service



Associate Director for Administration Bruce Chrisman presented ten-year service awards to 12 Fermilab employees at a luncheon held in Wilson Hall 1 West on September 13. The recipients were (row 1, l to r): Leonard Nelson, Vicky White, David Finley, Delmar Buckett, Terry Morrison and Cindy Rogers. (row 2, l to r): Kevin McDonough, Gene Opperman, David Tinsley, Roger Zimmermann, Daniel Moon and Rick Coleman. (row 3, l to r): Alan Schoeberlein, Dyrrell Lewis, Richard Reisser, Bruce Vollmer, Daniel Van Lannen, Daniel Johnson, Ken Sievert and Harry Ferguson III. (row 4, l to r): Jose Cardona, Mike Kucera, Bruce Chrisman, Mark O'Malley, Jerry Lull, Ronnie Beard and Greg Gilbert.

## Repaving rough roads at A/B intersection

A subcontract awarded to Geneva Construction Company will allow the intersection at Roads A and B to receive an asphalt facelift just in time for winter.

Geneva Construction Company received the bid early this month to pave the intersection at Roads A and B. The job is expected to be finished by the end of October.

Work began during the week of October 14 to pave the intersection which has been torn up since the Meson beamline reinforcement earlier this year. The roadwork will include laying gravel shoulders and striping the lanes.

Paving the intersection will necessitate that Road A temporarily be closed to allow for the flow of construction traffic. According to the

subcontractor, some traffic delay along Road B is anticipated. Weather permitting, the work should be completed before the month's end.

Lighting standards have already been installed in advance of the paving. Your cooperation and understanding are requested while the work takes place.  
— Tom Pawlak

## International Film Society

Two award-winners will be screened in November: one a Shakespearean adaptation and the other a winner at Cannes. All films are shown in Ramsey Auditorium at 8 p.m. Admission costs \$2.

### Friday, November 8: *Henry V*

Kenneth Branagh adapted, directed and starred in this Shakespearean play incorporating 20th Century sensibilities. This Henry is rough and lusty. Oscar for Costume Design. G.B., 1989, (135 min.).

### Friday, November 22: *Sex, Lies and Videotape*

Winner of the Grand Prize of Cannes, Steven Soderbergh's first film is an intimate portrait of four characters whose lives are based on deception and denial. U.S., 1989, (104 min.).

## Harper's index

Estimated number of pigeons killed weekly in New York City by falcons: 150

Number of states with laws to protect Little League coaches from civil lawsuits: 13

Amount Woodstock, New York plans to earn by selling one-square-inch plots of the town for \$10 apiece: \$8,400,000



## Give it your energy

More than one-third of the petroleum we use in this country is burned as fuel for private automobiles and light trucks. In addition to saving oil, energy-conscious driving and good car maintenance can save the average family \$70 to \$100 a year in gasoline and diesel costs.

We can improve on our conservation efforts on the road. Here are some ways...

Use public transportation, a motorcycle, a moped, or a bicycle or walk to work.

**Share your ride.** Join a carpool or a vanpool. About one-third of all private automobile mileage is for commuting to and from work. If the average occupancy (currently 1.3 people per commuter car) increased by just one person, each commuter would reduce their cost, energy consumption and driving stress. And

the nationwide gasoline savings—which would reduce our reliance on more expensive imports—would be more than 600,000 barrels per day.

**Eliminate unnecessary trips.** Can you find one driving trip per week that could be handled by telephone or combined with another trip?

**Vacation at home this year.** Discover nearby attractions. But, if you are going away, remember to turn off the lights, lower heating temperatures in the winter and turn off air conditioning in the summer.

**Choose a hotel or campground close to where you live.** A nearby hotel or campground often can provide as complete and happy a change from routine as one that is hundreds of miles away.

**Take a train or a bus instead of the family car.** Save gasoline and relax.

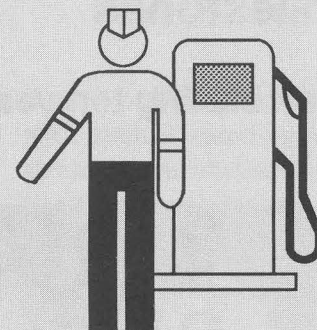
**Rediscover the pleasures of walking, hiking, and bicycling.** They're the most energy-conserving means of transportation and the healthiest for most people.

**Observe the posted speed limits on the highway.** The average automobile will save 17 percent of its fuel driving at 55 mph rather than at 65 mph.

**Accelerate smoothly and moderately.** Achieve your desired speed quickly, and then keep a steady pressure on the accelerator, just enough to maintain speed.

**Drive at a steady pace.** Avoid stop-and-go traffic. Frequently check the traffic situation well ahead of you. Adjust your driving to avoid unnecessary, wasteful acceleration and deceleration.

**Don't let the motor idle for more than a minute.** Turn off the engine. It takes less gasoline to restart the car than it takes



to let it idle. Generally there is no need to press the accelerator down to restart the engine.

**Don't overfill your tank.** Remove the nozzle or ask the gas station attendant to remove it when the automatic valve closes. This will eliminate any chance of spillage.

**Plan your trip carefully.** Select routes that will allow you to consolidate errands and avoid congested areas.

**Use your head before you drive.** Plan your trips. Try to use these tips as you drive. Record your gasoline use, and try to get more miles per gallon out of your car.—*Tips for Energy Savers, DOE*



## 1991 Fourth Annual National Red Ribbon Campaign

The U.S. Department of Energy is encouraging Fermilab employees to help create a drug-free America by participating in the National Federation of Parents for Drug-Free Youth (NFP) 1991 campaign being held October 19 - 27.

The campaign aims to mobilize communities into action by establishing parent/community coalitions to create a drug-free America. DOE and other federal agencies are participating in the campaign as part of the Drug-Free Workplace program.

Parents, youth, schools, religious institutions, government, business, law enforcement professionals, senior citizens, service organizations, media, medical and social services and private citizens are being called on to join the coalition for a drug-free America.

Participate in the Red Ribbon Campaign by wearing a red ribbon during the week to show your support and desire for a drug-free America.

# Fermilab golf league finishes season

## Two teams take home 'Champs' title

The Fermilab Golf League wrapped up the 1991 season with a year-end tournament and banquet held at the Edgebrook Country Club in Sandwich. This year, the coveted "Fermilab Champs" title belongs to two teams who played to a tie: the Fox Valley Wednesday League and the Prestbury League.

Alan Baumbaugh and Don Arnold organized the tournament with help from Paula Cashin, Mike Mascione, Chris Olsen, Dan Snee, Gary Verseput and Mike Ziomek.

The following teams received trophies:

### St. Andrews League

First place: Yasuo Fukui, Bob Johnson, Pat Liston and Mike Matulik. Second place: Mike Hislop, Steve Holmes, Ralph Pasquinelli and Fred Ullrich. Third place, tie: Steve Baginski, Al Flowers, Chris Olsen and John Najdzion; and Robert Barnes, Paula Cashin, Jack Furlong and Carolyn Longland. Most points: Jack Furlong (30). Low average: Yasuo Fukui (39).

### Tuesday Fox Valley League

First place: Kevin McDonough, Dave Seifert, Marty Solis and Gary Smith. Second place: Paul Allcorn, Steve

Baginski, Glenn Federwitz and Wayne Johnson. Third place: Larry Allen, Ron Currier, Don Mitchell and Bill Moorhouse. Low average: Herb Hill (41). Most points: Darrel Sigmon (37).

### Wednesday Fox Valley League

First place: Charlie Briegel, Gene Dentino, Ed West and Ed Wilmsen. Second place: Leon Beverly, Bob Clark, Ed LaVallie and Judd Wilcox. Third place: Al Guthke, Bob Scherr, Marty Solis and Bill Strickland. Most Points: Ed Pietras (31). Low average: Mike May (40).

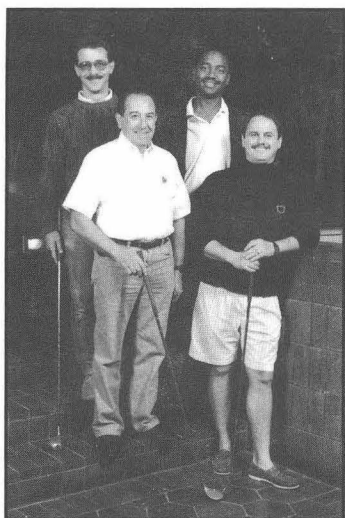
### Prestbury League

First place: Bob Andree, Don Arnold, Rich Dixon and Arnie Knauf. Second place: Alan Baumbaugh, Dyrrell Lewis, Rich Mahlum and Ken Treptow. Third place, tie: Bob Gatzke, Kevin McDowell, Rajendran Raja and Mike Tartaglia; and Joe Collins, Bill Koncelik, Joe Morgan and Don Rogus. Most points, tie: Don Arnold and Gerry Sorenson (28). Low average: Rich Vidal (41).

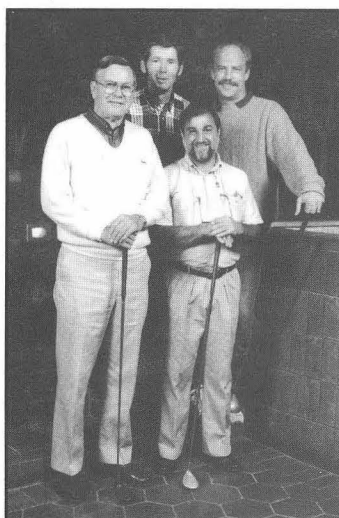
The new Golf League Committee members named a two-year term are Ralph Pasquinelli and Ed Pietras. — Don Arnold.



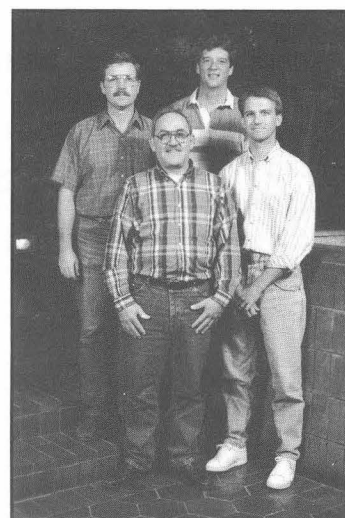
**St. Andrews League first place winners are:** (front) Bob Johnson, (back l to r) Mike Matulik and Pat Liston. Team member Yasuo Fukui not pictured.



**Tuesday Fox Valley League first place winners are:** (front l to r) Kevin McDonough, Marty Solis, (back l to r) Dave Seifert and Gary Smith.



**Wednesday Fox Valley League first place winners are:** (front l to r) Ed West, Gene Dentino, (back l to r) Charlie Briegel and Ed Wilmsen.



**Prestbury League first place winners are:** (front l to r) Rick Dixon, Don Arnold, (back l to r) Bob Andree and Arnie Knauf.



## Cla\$\$ified ad\$

### Motorized Vehicles

**1972 Porsche 914**, solid and reliable summer car. No heat. \$1600. Call x2650.

**1987 Nissan Sentra XE**, 5-speed, 4-dr., 58 k miles, 4 new tires, new exhaust system, exc. running cond; clean with one ding. \$4850. Call x3492 or 708-859-8699.

**Chevy 350 engine**, whole or for parts. Broken rod and hole in oil pan. Call Henry at x3820, 708-665-2434, FNAL::Ehschram.

### Miscellaneous

**O'Sullivan Stereo System Cabinet**, column style on casters w/ smoked glass doors and top. Like new, \$75; **Himalayan backpack** w/ aluminum frame. Like new, \$25; **Shotgun carrying bag** with shoulder strap, \$15; **Craftsman wet/dry shop vac.** 2.75 h.p., 16-gal. capacity, includes hose ext. and acces. nozzle tips. Like new, \$75. Call Larry at x3198 or 815-744-1686.

**Nintendo**, control deck, 2 controllers and NES Max, Zapper light gun and 17 games, \$199. Call Matt at 708-208-1751.

**1990 Suzuki 9.9 outboard engine**, elec. start, oil injection. Less than four hours use. Two year warranty left. Originally \$1800, asking \$950 o.b.o. Call Greg at x4596.

**Aquariums**, one 20 gal. with steel stand; the other, 10 gal. Also, some accessories. Call Henry at x3820, 708-665-2434 or FNAL::Ehschram.

### Real estate

**Two bedroom, 1 bath older house** for sale by owner, on Army Trail Road in Wayne, one block from general store. Large living room with fireplace, new deck, very private backyard, garage. \$110,000. Zoned business. Could be great for real estate office or antique shop. Will consider rental with option to buy. Call Dorothy after 5 p.m. at 708-393-3239.

**Roommates wanted** to share 3 bdr. house (2 bdrms. are available). Three min. walk to East Lab entrance. Ideal either for 2 single individuals or couple with 1 child. Furnished. No pets. \$225/month per room. Call Dhiman at x3105, x4901 or FNAL::Dhiman.

**House for rent** in Warrenville, very close to East Lab entrance. Three bedrooms, 1 1/2 baths, large yard, 2-car garage, no pets. Month-to-month rental available. Call 708-717-9068.

### Lost & found

**Sterling silver earring** lost in East parking lot. If found, please call x8113.

## Nalrec news

This is the last call to send in those favorite recipes to create the first Fermilab cookbook. Get your recipes in by October 31 so we can publish the collection by early Spring. Include your name, department, mail stop and phone number. Please mail your recipes to Nancy Bartlett, MS 315 or Charlotte Smith, MS 228.

### Remember the:

Christmas Dinner Dance; December 21, 1991 at the Fox Valley Country Club. Cost will be \$15 per person.

First Nalrec New Year's Eve Party; December 31,

1991 at the Fox Valley Country Club. Cost will be \$20 per person.

November Turkey Party; Friday, November 15 from 5:15 p.m. to 9:30 p.m. There will be 100 turkeys to raffle and a spinning wheel for pumpkin pies and other specialties. Italian Beef sandwiches will be served plus snacks. Also featured will be a five-piece band and a singer.

### Watch for notices:

About the upcoming Skiing Trip, Roller Skating Party, Maywood Park Racing Trip, Candlelight Bowling Party.

## Physics Today readers

The September 1991 issue of *Physics Today* featured a special issue on precollege education programs that may be of use to area educators. The Fermilab Education Office would like to make copies of this issue available to interested educators in the neighboring districts and is requesting the help of all *Physics Today* subscribers. If you or someone you know has a September 1991 copy of *Physics Today* and are willing to donate it, please send the magazine to the Education Office, MS 777. Your contribution will be greatly appreciated by educators interested in improving science education. — Susan Dahl

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