

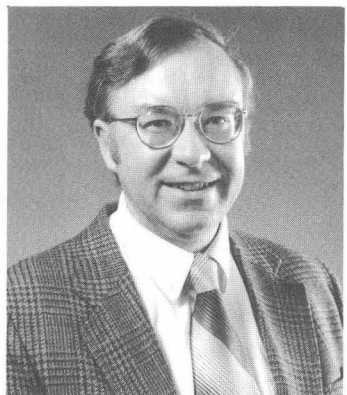
## Accelerator Division leadership changes announced

Director **John Peoples** has announced the appointment of **Stephen Holmes** as the new Head of the Accelerator Division. This appointment is effective August 26, 1991 for a term to run until September 30, 1994.

In his new role as Accelerator Division Head, Steve assumes responsibility for coordinating the large number of accelerator enhancements now underway which are expected to assure the discovery of the top quark at Fermilab in this decade and to create new capabilities in the fixed target arena. Steve will also continue to serve as Fermilab Main Injector Project Manager.

Steve Holmes will be assisted by four Associate Division Heads.

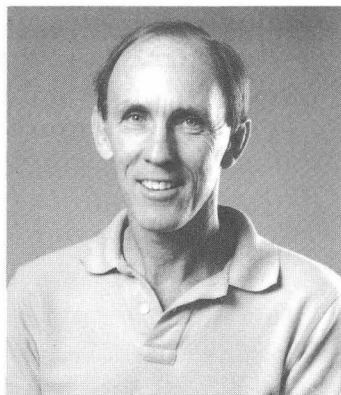
**David Finley** is designated the Associate Ac-



*David Finley*

celerator Division Head for Administration, Environment, Safety, and Health (AES&H). The new AES&H office has been created in order to assist the Division Head with the requirements of running a technically oriented division of over 500 people in an atmosphere which provides an appropriate level of attention to issues relating to ES&H. The Associate Head for AES&H will advise the Division Head on policy regarding ES&H matters, and work with the other Associate Heads to provide consistency in divisionwide implementation of the Laboratory's Environmental, Safety, and Health policies. The Associate Head for AES&H will also supervise the Division Headquarters staff.

**Richard Andrews** is named Associate Head for Support. The Associate Head for Support is prima-



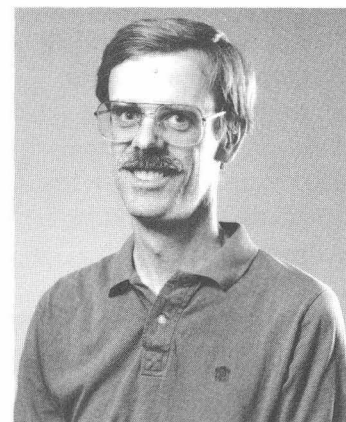
*Richard Andrews*

riarily responsible for coordinating the activities of the Support Departments. In his new capacity, Dick will coordinate job assignments within the Support Departments to facilitate the activities of the Systems and Main Injector Departments. He will also serve as liaison to Facilities Engineering Services on issues related to civil construction outside of the Main Injector Project, and as liaison to the Computing Division.

**Dixon Bogert** is appointed the Associate Accelerator Division Head for the Main Injector Project and Deputy Project Manager. The Associate Head for the Main Injector serves to support the Fermilab Main Injector Project Manager. His primary responsibility is support for planning, budgeting and scheduling and coordination of design and construction of the Fermi-



*Dixon Bogert*



*Stephen Holmes*

lab Main Injector (FMI). "The Main Injector is an interesting and challenging project," said Dixon. "It is critical to the success of several important high energy physics research experiments in the later 1990s."

**Vinod Bharadwaj** is designated the Acting Associate Accelerator Head for Systems. As Head for Systems, Vinod is primarily responsible for coordinating the activities of the Systems Departments. He will coordinate accelerator operations and designate run coordinators with the  
**Continued on page 6.**



*Vinod Bharadwaj*

# Rocky Kolb presents lecture tonight

## Day One of Creation: A Day Before Yesterdays

**Dr. Edward W. Kolb,  
Head, NASA/Fermilab  
Astrophysics Center**

**Friday, September 6,  
8:00 p.m.  
Ramsey auditorium  
Admission: \$3**

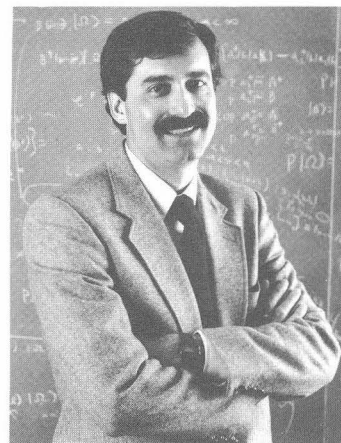
Since our ancestors first gazed into the night sky and wondered about its origin, the study of the Universe has evoked some of our deepest emotions. Indeed no field of science, perhaps no human endeavor, plays a larger role in our cultural heritage than our perception of the Universe. Since the mid-1960s the big-bang theory has held center stage as the preferred

scientific model for the origin of the Universe. Dr. Edward Kolb, an acknowledged world leader in the study of the early Universe, will identify recent discoveries and the associated implications in his lecture, *Day One of Creation: A Day Before Yesterdays*, on Friday, September 6 at 8:00 p.m. in Fermilab's Ramsey Auditorium.

The big-bang model proposes that the Universe began as the result of a gigantic explosion 15 billion years ago. Recent technological advances have allowed astronomers to observe the Universe in unprecedented detail. Some scientists, as well as non-scientists, have questioned whether the big-

bang can survive as a viable model for the origin of the Universe in light of these new observations. In contrast, supporters claim that the evidence in favor of the big-bang has never been stronger. Dr. Kolb will also look at the issues at the forefront of modern cosmology, such as the possibility of creation of the Universe from nothing, unseen dark matter, cosmic inflation, the role of particle physics in the early Universe and the ultimate fate of the Universe.

Edward "Rocky" Kolb is head of the NASA/Fermilab Astrophysics Group at Fermi National Accelerator Laboratory. He is also a Professor of Astronomy and Astrophysics, and Professor in



**Edward "Rocky" Kolb**

the College at the University of Chicago, as well as a member of the Enrico Fermi Institute. Dr. Kolb has written several popular articles and books on particle physics and cosmology, and frequently gives public lectures at the Adler Planetarium.

## It was a great summer!

Some college students will be setting a new fashion trend when they return to their campuses this fall. They will be sporting Fermilab T-shirts designed by summer employee **Catherine Berger**.

Catherine, a Yale sophomore, designed a T-shirt which she has shared with 25 college students who spent the summer working at the Lab. The front of the black T-shirt features the Fermilab logo and the phrase "Where Charm and Beauty Abound and the Quest for Truth continues..." The back lists the names and nicknames of twenty-six summer employees.

The students met on the second floor crossover last Friday to pick up their T-shirts and to bid one another farewell. As they head back to school this week, the students are leaving with mixed emotions.

"The summer at Fermilab has been great," said Catherine. "It was a terrific place to meet a lot of intelligent people."



*Working at Fermilab was "cool," "great," "terrific," the students said. As they prepared to return to school, they promised to keep in touch with each other and many hope to meet at the Lab again next summer. (L. to R.) Catherine Berger, Aarati Didwania, Chris Green and Jud Althoff wearing T-shirts designed by Catherine Berger.*

**Jud Althoff**, a sophomore engineering major at the Illinois Institute of Technology, said he learned more this summer than he learned the entire year at school. "The hands-on experience was invaluable," said Jud.

## Progress continues on Education Center

The fascinating world of quarks and quasars will soon be explored at the Fermilab Science Education Center. With its opening planned for early 1992, the Center will become home to the innovative and highly popular science education programs co-sponsored by Fermilab and Friends of Fermilab.

Each year thousands of teachers and students participate in the many workshops, field trips and classes presented at Fermilab. Aimed at enhancing the quality of science and mathematics education at the precollege level, these programs serve students from preschool to high school and their teachers. The new facility, which will include science classrooms and a specialized library for teachers, will make it possible to increase the number of schools served by the science and mathematics programs at Fermilab.

The Center is a collaborative effort between Fermilab and the education community. School districts are members of the Program Advisory Group which plays an important role in determining the programs offered through the Center.

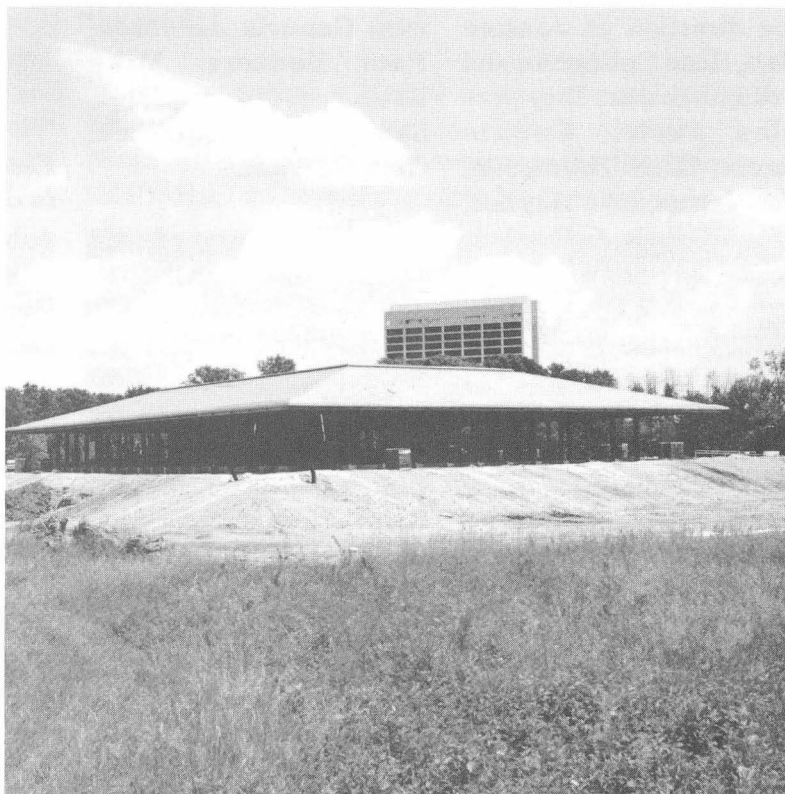
## Resource Center and programs to be housed in the Science Education Center

When complete the Center will house the Teacher Resource Center (TRC) and both the formal and informal programs. Fermilab offers 40 precollege education programs developed over the past ten years.

The Teacher Resource Center is a clearinghouse for ideas, materials and resources. As a provider of materials and services to interested librarians and science educators, the TRC is the hub of a science education network in DuPage and Kane Counties. The resources available at the TRC help teachers make their classrooms more stimulating learning environments for students.

The formal programs include teacher enhancement workshops and institutes, opportunities for research participation, development and distribution of instructional materials, Laboratory tours, special events, science shows and a variety of outreach activities. The overall goals of the precollege programs are to enhance the quality of science and mathematics education, to encourage all young people to be scientifically literate and to encourage motivated students to pursue careers in science, engineering and technology. Special emphasis is given to participation by members of underrepresented groups.

Informal science includes hands-on science that encourages creative investigation and thoughtful questioning that leads to a real understanding of science and its applications and implications. Interactive teaching stations, environmental activities, audio-visual materials, computers and a science playground will all be part of the Center's informal science offerings. The interactive teaching stations, *Quarks to Quasars*, are being developed in five areas: accelerators, detectors, scattering experiments, the structure of matter and the structure of the Universe. The science lab will include table top interactive displays in many areas of science and mathematics related to the school curriculum. A year round program including special events, summer camps and classes for children and/or their parents as well as a lecture series for adults will be part of the informal offerings of the Science Education Center.



*A wooded setting and a view of the interpretive prairie trail enhances the prairie-style architecture of the Science Education Center.*



# The Taste of Fermi a smashing success

The 1991 Taste of Fermi held August 16 was a wonderful success. It featured great food, the ever popular dunk tank, dancing, pony rides, a craft show, games for the young and the young-at-heart and of course the opportunity to enjoy an evening with coworkers, family and friends.

Like any well-orchestrated event, the success of The Taste of Fermi was dependent upon the time and talents of many people. Nalrec would like to thank all those great people listed below who contributed to this effort.

The following employees and users had a great time dishing up delicacies under the direction of **Joanne Hall, Rose Callaghan and Trudy Kramer**. They were **Alan Petitt, Connie Kania, Rich Thompson, Ed Pietras, Ron Haynes, Chuck Grozis, Jo Gordon, Jose Cardona, Clara Morton, Sue Grumboski, LeRoy Middlebrooks, Darrell Sigmon, Sharon Austin, Eric Austin, Jess Rugg, Linda Bagby, Gordon Bagby, Bob Johnson, Elizabeth Gallas, Cathy Brinks, Sandra Leone, Donatella Lucchesi, Denise Bumbar, Ed Kuns, Merle Haldeman, Peg Haldeman, Jen Hall, Ed West, May West, Brenda Kirk and Jamey Butteris**.

The set-up and clean-up crews and the grill main-

tenance and runners played an invaluable part. They were **Joe Villa, Mike Urso, Nancy Bartlett, Gene Dentino, Ed LaVallie, Jesse Guerra, Joanne Hall, Rose Callaghan, Joe Morgan, Trudy Kramer, Ed Justice, John Jones, Jeff Gordon, Gary Smith, Keith Meisner, Rene Padilla and Paul Gentry**.

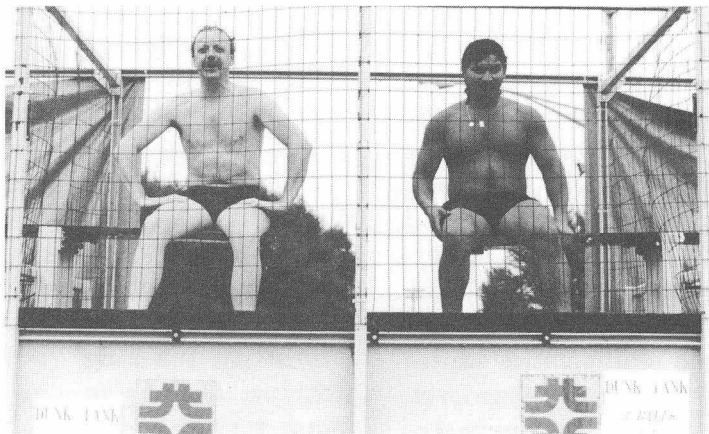
Handling the never-ending-line were the ticket sellers **John Kowalski, Mike Frett, Nancy Bartlett, Glenn Lee, Angie Velasquez, Mary Guerra and Regina Richardson**.

The "cute balloon people" who delighted the children were **Genevia Jacobsen, Pam Venters, Mike Urso, Deidre Diei, Sandra Cutts-Bone and Gina Carranza**.

Taking shots and still smiling were dunk tank participants and workers **Nancy Bartlett, Jim Kalina, Joe Villa, Don Rapovich, Rich White, Angie Velasquez, Joe Collins, Brian Pientak, Ray Fonseca, Paige Brown, Dick Andrews, Antonio Scalisi, Stefano Buono, Karen Smith, Gayle Stevens, Al McInturff, Drue Wallace, John Arogoni, Dan Riffle, Conrad Metz, Tim Burke, Leighann Nurczyk, Monica Sachse, Bill Hickey, Don Iverstein,**



*Doing a little clowning around are (l. to r.) Pam Venters and Genevia Jacobsen (BS/Stockroom).*



*"Go ahead make my day," taunted (l. to r.) Brian Pientak and Ray Fonseca and many were happy to oblige!*

**John Pratscher, Holly Rodriguez, Bruce Mahl, Denslay Hoffman, Glenn Latino and David Griffin.**

Contributing their talents to the craft show were **Alma Karas, Kyoko Kunori, Lisa Jenkins, Betty Petitt, Emily Ullrich, Cliff Horvath, Trudy Kramer, Carol Anway-Weise and Charlotte Smith**.

Preparing games and fun for everyone were **John Satti, Paul Satti and Sharon Rowland**.

Seeing to all the necessary details and insuring that the evening was safe as well as fun, special thanks goes to **Roads and Grounds, Buildings Management, Electrical Department, Security, Accommodations, Personnel, Recreation Office, Chuck Anderson and staff, Food Services, Argonne Credit Union and the Fire Department**.

Lastly to all the attendees, thanks for coming. See you next year! —*Charlotte Smith*

# Applause applause applause applause applause applause

## Dombeck named Illinois Honor Science Teacher

Robin Dombeck (LS/Education Office) was named an *Honor Science Teacher in Illinois* and was certified to conduct inservice science workshops throughout the United States. The certification was issued by the National Science Foundation, Illinois State Board of Higher Education, Illinois Science Teachers Association and Illinois State University.



**Robin Dombeck**

Robin received the certification after completing a three-year intensive preparation program. Along with the certification certificate, Robin received a congratulatory letter from Lynne Haeffele, Supervisor of the Center on Scientific Literacy, Illinois State Board of Education. Haeffele recognized Robin's accomplishments in the field of science education and said, "I view the *Honors Science Teachers* as one of our most valuable resources in the quest of the national goal—to make our students first in the world in science and mathematics by the year 2000."

## Loskot and Rodewalt dart champions

Jim Loskot (RD/Cryo) and Buzz Rodewalt (RD/Cryo) placed first in the Fox Valley Dart Association summer league team competition. Fourteen teams competed for this title. Jim and Buzz also tied for first place in individual



**Jim Loskot (l.) and Buzz Rodewalt (r.) Fox Valley Dart Assoc. champs.**

The final competition was held August 7 in the Users Center. This event ended a nine week season.

If you are interested in joining the Fermilab Dart Club, contact Buzz Rodewalt or Jim Loskot at X3357.

## Chappa and Stanfield receive Desert Storm tribute

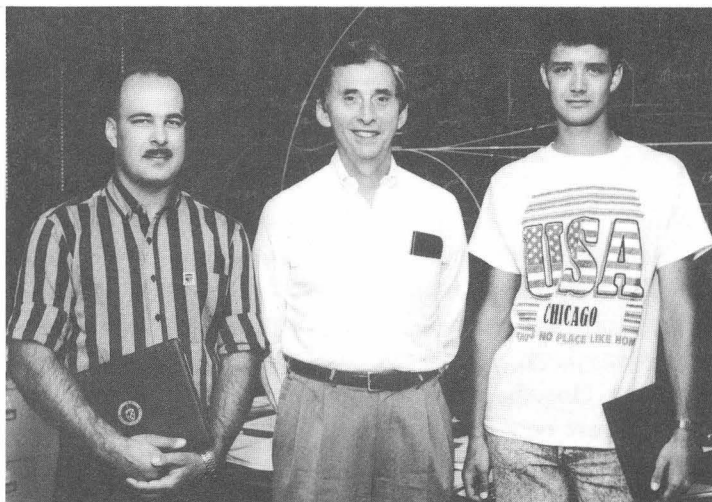
Steve Chappa (RD/EE Dept.) and Eric Stanfield (RD/DØ) received *The Secretary's Desert Shield/Desert Storm Service Tribute* award for their participation in the Operation. The tribute award was presented on August 28 by Director John Peoples.

The award, signed by Secretary of Energy James D. Watkins, Deputy Secretary of Energy W. Henson Moore and Under Secretary of Energy John C. Tuck, carried the following inscription:

"We, at the Department of Energy, Gratefully Salute Steve Chappa/Eric Stanfield for service in support of Operation Desert Shield/Desert Storm.

"Your service, as a member of our Nation's Total Force, whether in the Persian Gulf or elsewhere around the world, advanced the cause of freedom. Your sacrifice and the sacrifice of your family are fine examples of the courage and commitment that guides this Nation and lights the way for all freedom loving people of the world."

Steve served as a Marine reserve corporal in the 2nd Battalion Weapons Company. Eric, a specialist in the Army reserves, served as a helicopter mechanic and crew chief in the 7th Corps of the 316th Medical Evacuation Unit



**Director John Peoples (c.) presents The Secretary's Desert Shield/Desert Storm Tribute award to Steve Chappa (l.) and Eric Stanfield (r.). Both men have returned to work at Fermilab after a tour of active duty in the Persian Gulf.**



## Give it your energy

### Laundry energy savers

You can save considerable amounts of energy in the laundry through conservation of hot water and by using your automatic washers and dryers less often and more efficiently.

- Wash clothes in warm or cold water, rinse in cold. You'll save energy and money. Use hot water only if absolutely necessary.

#### Washing machines

- Fill washers (unless they have small-load attachments or variable water levels), but do not overload them.

- Don't use too much detergent. Follow the instructions on the box. Oversudsing makes your

machine work harder and use more energy.

- Presoak or use a soak cycle when washing heavily soiled garments. You'll avoid two washings and save energy.

#### Clothes dryers

- Fill clothes dryers but do not overload them.

- Keep the lint screen in the dryer clean. Remove lint after each load. Lint impedes the flow of air in the dryer and requires the machine to use more energy.

- Keep the outside exhaust of your clothes dryer clean. Check it regularly. A clogged exhaust lengthens the drying time and increases the amount of energy used.

- If your dryer has an automatic dry cycle, use

it. Overdrying merely wastes energy.

- Dry your clothes in consecutive loads. Stop-and-start drying uses more energy because a lot goes into warming the dryer up to the desired temperature each time you begin.

- Separate drying loads into heavy and lightweight items. Since the lighter ones take less drying time, the dryer doesn't have to be on as long for these loads.

- If drying the family wash takes more than one load, leave small, lightweight items until last. You may be able to dry them, after you turn off the power, with heat retained by the machine from earlier loads.

- Save energy by using the old-fashioned clothesline. As a bonus, clothes dried outdoors seem fresher and

cleaner than those taken from a mechanical dryer.

### Ironing

- Remove clothes that will need ironing from the dryer while they are still damp. There's no point in wasting energy to dry them thoroughly if they only have to be dampened again.

- You can save ironing time and energy by "pressing" sheets and pillow cases on the warm top of your dryer. Fold them carefully, then smooth them out on the flat surface.

- Save energy needed for ironing by hanging clothes in the bathroom while you're bathing or showering. The steam often removes the wrinkles for you.—*Tips for Energy Savers*, DOE

## Nalrec cookbook

Nalrec would like your favorite recipes to create the first Fermilab cookbook. Please send your recipes to **Nancy Bartlett**, MS 315 or **Charlotte Smith**, MS 228. Recipes must be submitted by October 31 and include your name, department, mail station and phone number. If you have any questions, contact Nancy at x2902 or Charlotte at x4550. Thanks for your help.

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## Accelerator Division leadership changes continued

acquiescence of the Division Head. He will also coordinate accelerator studies; and serve as liaison to the Research Division and the Technical Support Section.

The Accelerator Division and its leaders face many future challenges. Its primary goals for the months ahead are to:

- raise the luminosity of

the Tevatron beyond  $5 \times 10^{31} \text{ cm}^{-2} \text{ sec}^{-1}$

- carry out the work safely in an environment of which we can be proud

- develop plans for the Accelerator Division for the next decade.

Of the recent appointments and challenges facing the Laboratory, Director John Peoples stated in a

letter to members of the Accelerator Division, "We have a strong tradition of excellence in building and operating accelerators. The Tevatron is the highest energy collider in the world and many of you helped make it happen. With the new team, we can expect that the Tevatron will continue the tradition."

## Benefits notes

### Open enrollment: medical and dental plan election

It's that time of year again when employees have an opportunity to transfer their medical and dental coverages from one plan to another. This year the Laboratory continues to offer the Connecticut General traditional medical plan and four health maintenance organizations: Rush Anchor/Access, Dreyer HMO, HMO Illinois and CIGNA/Access. The Laboratory also continues to offer the traditional Connecticut General dental plan and the CIGNA Dental Care plan.

A summary and comparison of the medical and dental plan options will be mailed to employees' mail stations the week of September 9. Please review this information and share it with your families.

The medical HMO representatives are scheduled to meet with employees in Ramsey Auditorium on Monday, September 16, 1991 at 8:30 a.m. and 10:30 a.m. and on Tuesday, September 17, 1991 at 1:30 p.m. and 3:30 p.m.

The CIGNA Dental Care plan representative is scheduled to meet with employees in Ramsey Auditorium on Monday, September 16, 1991 at 1:30 p.m. and 3:30 p.m. and on Tuesday, September 17, 1991 at 8:30 a.m. and 10:30 a.m.

Employees considering an HMO should attend one of these meetings. Spouses are welcome.— *Paula Cashin*, Benefits office

### Gym closing

The Fermilab gymnasium will be closed full time from September 9 until September 23. At this time, electrical work will be in progress. Normal operation will continue in the other areas of the Recreation facility. Your patience during this time is appreciated.— *Jean Guyer*, Activities Office

### September social hour

The Nalrec sponsored September social hour will be held Friday the 13th. There is to be a **special guest(s)** whom you won't want to miss. Music is by *Cruzin' the Loop*. There will be pizza and peanuts for munching. Be there or **BEWARE!**

## Congratulations to:



## SciTech offers discounts

SciTech, a science and technology interactive center, is offering half-priced admission tickets to Fermilab employees and their families during the month of September.

The hands-on museum has over 100 exhibits that demonstrate scientific principles with signs that say "Please Touch." SciTech is located in downtown Aurora's historical district and is open Wednesdays, Thursdays, Fridays and Sundays from 12 noon until 5 p.m., and on Saturdays from 10 a.m. until 5 p.m. Admission fees normally range from \$2 for children to \$8 for a family, so take advantage of this opportunity to pay only half of this amount!

Stop by the Activities Office, WH1E, and get a discount coupon for yourself or your whole family. You may present it at the SciTech admission desk any convenient time during September and receive the discount. — *Marilyn Paul*, Activities Office

## International Film Society

This month the Fermilab International Film Society offers movies that feature music, romance and adventure. All films are shown in Ramsey Auditorium at 8 p.m. Admission costs \$2. The September schedule is:

Friday, September 13: *Bird*

A tribute to the life of jazz great, Charlie "Bird" Parker. The alto saxophonist is played by Forest Whitaker. Oscar for best sound. Clint Eastwood, director, U.S., 1988, (163 min.).

Friday, September 27: *The Mark of Zorro*

Douglas Fairbanks, Sr. plays Don Diego, who is secretly the dreaded Zorro of Southern California, in this silent, tongue-in-cheek swashbuckler. Live piano accompaniment! U.S., 1920, (77 min.).

## Cla\$\$ified ad\$

### Vehicles

**1980 Pontiac Firebird Espirit.** Good con., new tires. \$1,800 o.b.o. Call Jill, X8077 or 708-897-0207.

**1982 Nissan 200SX,** 2-dr., AM/FM radio, good con. \$2,000 o.b.o. Call Jill, X8077 or 708-897-0207.

**1979 Ford Fairmont,** 75k mi., new front and rear brakes, newly painted. \$950 o.b.o. Call Steve, 708-972-6284 or 708-978-1627.

**1988 Pontiac Grand-Am,** 2-dr., 5-spd., cruise, stereo cass., tilt, custom wheels, sunroof. \$6,500 firm. Call Sherry, X4366 or 708-896-8383.

**1972 Oldsmobile Cutlass S,** no rust, 350-4 barrel, 4-spd., headers, pow. str., interior near mint, \$2,700 o.b.o. **1976 Chevy El Camino,** V8, auto., runs well, body rough, \$300. Call Steve, X4975.

### Miscellaneous

**Men's 10-spd. Nishiki bicycle,** 24". \$100. **Great Books - Vols. 1-54,** original cost \$1,200. \$350 o.b.o. **Cherry double bed w/head and foot boards,** \$200. Call Ellie, X3771 or 708-892-4676.

**Tan leather sofa,** 82", very good con. **Two black Scandanavian leather recliners;** Hand knit

**women's Islandic sweaters and jackets.** Call 708-971-8341.

**Diamond ring/gold ring set,** .45 carat, appraised at \$1,600. Asking \$850, negotiable. Call Mike, X4518.

**Hillary Canvas Tent,** 10ft. x 14ft., \$250. **Coleman Caboose Cargo Trailer,** great for towing behind a motorcycle, \$500. Both in very good con. Call Ray, X3233 or 815-758-0977.

**Goldstar 13" color VGA monitor,** like new, \$200. **Casiotone CT-370 electronic keyboard,** includes AC adaptor and some music books, \$75. **Weight set and bench,** one barbell, two dumbbells, free weights ranging from 1 1/4 lbs. to 17 lbs. Call George, X2899 or 708-416-3875.

**Queen-size bedroom set,** includes mattress and box spring, railings, head and foot boards, chest, dresser with mirror and one nightstand. Brand new, only used for two months. \$1,500. **Full-size box spring,** brand new, \$350. Will negotiate on both items. Call Millvenia, X3585.

**Brass/glass octagon dining table and chairs,** brass base with see through glass octagon surface. Four matching chairs, ex. con. Call Jeff, X3880 or 708-556-3721.

## Vendor discount rack

Stop in and check the vendor pamphlet racks for discount opportunities for Fermilab employees. The pamphlet racks are located in the Activities Office, WH1E. Some of the direct mail discounts available are:

- **A publishing company** offers up to 40% on gardening books, health and fitness books, travel guides and also children's *Curious George* books.

- **A designer and printer** of personalized stationary products has agreed to make their line available to Fermilab em-

ployees at 40% off the catalog list price. The line includes a variety of announcements, invitations, thank you notes, party accessories and Christmas cards. Enjoy the convenience of selecting your personalized stationary without the hassle of retail shopping. See the collection and pick up your order packet in the Activities office.

A coupon card is also available for the:

- **Wisconsin Dells:** Save 20%, with a coupon card, on a variety of attractions located at the Wisconsin Dells.

## Annual Reports available

Copies of the 1990 *Fermilab Annual Report* are available in the Publications Office, WH6NW. Stop by and pick up yours. No phone or mail orders, please.

## Harper's index

Average number of "uhs" used by college science professors while lecturing, per minute: 1.39.

Average number used by college humanities professors, per minute: 4.85.

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The deadline for the Friday, September 20 issue of *FermiNews* is Wednesday, September 11. Please send your article submissions or ideas to the Publications Office.