



## 1988-89 TEVATRON Collider Run Sets New Records

On September 7, 1988, the TEVATRON at Fermilab reached its design luminosity of  $10^{30} \text{ cm}^{-2}\text{sec}^{-1}$ . During the week of September 9 through September 12, 1988, the TEVATRON achieved a new record initial luminosity of  $1.25 \times 10^{30} \text{ cm}^{-2}\text{sec}^{-1}$ . (For purposes of comparison, CERN's previous record luminosity was  $4 \times 10^{29} \text{ }^{\dagger}$ .) The TEVATRON's integrated luminosity for one week reached 204 inverse nanobarns, while the integrated luminosity for one store was 50.1 inverse nanobarns (CERN's best to date: 22.9  $^{\dagger}$ ).

The largest pbar stack equaled 46.6 milliamps (CERN has had about 60 $^{\dagger}$ ), and 142 milliamps of pbars were stacked during that week, with an average stacking rate of 1.16 milliamps per hour. There were three stores with initial luminosity  $> 10^{30}$ :

Store 1578 (2200 9/7)  $1.02 \times 10^{30}$

Store 1580 (0815 9/9)  $1.25 \times 10^{30}$

Store 1583 (1930 9/10)  $1.1 \times 10^{30}$

Under the leadership of Gerry Dugan, the accelerator has thus far delivered 625 inverse nb. Two hundred and four of these were delivered from the 5th through the 12th. Thus, the prospects are very encouraging for the Collider Detector at Fermilab reaching and even exceeding the goal of 1000 inverse nanobarns on tape for the 1988-1989 Collider run.

( $^{\dagger}$  Comparisons with CERN results are as of press date. CERN's 1988 Collider run with their new ACOL machine should be just under way as you read this. It is expected that CERN performance figures will be substantially improved in the near future, so we may be in for a real horse race.)

### In Memoriam

John T. (Terry) Carroll  
1942-1988

Dr. John T. (Terry) Carroll, 45, passed away on Saturday, September 3, 1988, at his home in Aurora. Dr. Carroll was a physicist with the Collider Detector at Fermilab. Previously, Dr. Carroll had been at the Stanford Linear Accelerator, and at CERN where, in 1981-1982, he was a member of the UA-1 team that discovered the W particle.

Dr. Carroll graduated *magna cum laude* from St. Mary's College in Winona, Minnesota; he received his masters and Ph.D. in physics from the University of Wisconsin.

He is survived by his wife, Lee, daughter Farren, his parents, two sisters, and one brother.

Memorial donations in Dr. Carroll's name may be made to the Interfaith Food Pantry in Aurora.

### Hold That Phone

Now you really can "Reach Out and Touch Someone," because the old rotary-dial telephones at Fermilab are being replaced by Touch-Tone units. Replacement has already begun in Wilson Hall and will spread to the rest of the Lab apace.

Carolyn Hines of the Communications Department wishes to point out that these new phones are owned by Fermilab (the old equipment was leased), and as such are government property, subject to all the rules and regulations regarding misappropriation of same.

### Wilson Hall Traffic, Entry Changes

Fermilab staffers are reminded that, due to construction work on the Wilson Hall entrance, the horse-shoe drive in front of Wilson Hall will be closed to all traffic for the duration of the project, as will the front entrance to Wilson Hall. In addition, traffic flow around the west side of Wilson Hall and the Auditorium will be **one way** in a counterclockwise direction. For complete details on traffic and entry, contact Security, ext. 4949.

# WAVES Jazz Dance



Jazz, tap, breakdancing, ballet, acrobatics, belly dancing, four-wheel-drive choreography on roller-skates: Once the motion begins, WAVES will wash over you and leave you on your feet cheering! Having developed a reputation as one of the most innovative jazz dance troupes in the country, WAVES makes its Chicago-area debut on Saturday evening, October 15, 1988, at 8:00 p.m. in Fermilab's Ramsey Auditorium.

From London to New York City to its home town of Philadelphia, the youthful, exuberant, 18-member troupe known as WAVES celebrates the sheer joy of movement that is vernacular dance. Founder/director/choreographer Shimon Braun used his training with Martha Graham, Robert Cohen, Glen Tetley, Jack Cole, Jo Jo Smith, and in gymnastics to create his innovative wave technique, which involves sinuous movements of the whole body. His choreography combines jazz dance with gymnastics, modern dance, ballet, the martial arts, and of course, the vital energy of street dance. The classical ballet and modern jazz-dance training of the company allows WAVES to shine in its ensemble work.

Don't miss this opportunity to experience "one of the hippest, most diverse, and totally entertaining cultural events" of the year. Admission is \$12. For further information or phone reservations, call ext. ARTS weekdays between 10:00 a.m. and 12:00 noon, or 1:00 and 4:00 p.m. Phone reservations are held for five days; due to ticket demand, those not paid for within five working days will be re-sold.

- **Tammy Kikta**

## Voter Registration Offered at Lab

A voter registration drive for voters who live in DuPage and Kane counties will be held on Monday, September 26, and Tuesday, September 27, from 11:30 a.m. to 1:30 p.m. each day at the west side of the Cafeteria. Two pieces of identification are required, one of which shows the voter's current address. For more info, call Doug Michael, ext. 2087.



## The Activities Office.

### Gym Memberships

It's that time again!!!! Current gym memberships will expire on October 1, 1988. New memberships may be purchased at Wilson Hall in the Activities Office, WH1E, during the week of September 26- 30. After October 1, memberships are sold in the Activities Office from 12:15 p.m. to 1:15 a.m. only, and at the Recreation Office, 16 Potowatomi.

The Recreation Facility, located at 16 Potowatomi, is a place to burn calories. It also provides the opportunity to meet new friends. For a minimal membership fee of \$30.00 (\$15.00 for students), you have the use of a full-size gymnasium, perfect for basketball, volleyball, tennis, badminton, and soccer, and may join any or all of the Facility leagues. The weight room consists of a Universal Multi-station unit, butterfly machine, free-weight system, exercise bikes, Concept II rowing machine, Nordictrek, speed bag, and heavy bag. In the same building is a free-exercise room, as well as locker and shower facilities. Classes in aerobics, weight training, and self defense are also offered periodically.

To have fun, meet people, get into shape, or just to work off some stress, become a member of the Recreation Facility. For further information, call Jean at ext. 3126. - **Jean Guyer**

### Sunday Evening Doubles League

The Fermilab Sunday Evening Doubles League is preparing to move indoors for the winter. Matches are held in the Recreation Facility, so gym membership is a requirement. If you'd like to participate, contact Linda Even, Vax Mail LLE, or ext. 4847 between 12:00 noon and 1:00 p.m. - **Linda Even**

### Fermilab Basketball League

The Fermilab Winter Basketball League is gearing up for another successful season. The league is open to Fermilab employees, visiting researchers, and current Security personnel at Fermilab. Adult members, 18 or older, of their immediate households also qualify. Games are held at the Recreation Facility on Thursday nights and will start in October. Teams, groups, or individuals wanting to join can contact Jean, ext. 3126. Gym membership is required.

- **J. Guyer**

Price of dyeing a dog pink at the Village Dawg Shoppe in Rockville Centre, New York, (with shampoo and cut): **\$87** Price of a purple mohawk: **\$37**

## **Benefits Notes**

### **New Rules on SRA's**

Starting January 1, 1989, TIAA-CREF supplemental retirement account withdrawals will be subject to the same rules as mutual-fund SRA's.

The Tax Reform Act prohibits cash withdrawals from any SRA unless you are 59-1/2 or older, terminate your employment, are disabled, withdraw the funds because of "hardship" (not yet defined by the IRS), or if the money is to be distributed as a death benefit.

If you are planning to use your TIAA-CREF SRA's for retirement, you should do nothing. However, if you are using your SRA as a savings account for some future purchase, you may want to consider a withdrawal (subject to a 10% tax penalty) before the new restrictions apply. It is possible that the new rules governing withdrawals will be less harsh. As currently drafted, the Technical Correction Act pending in Congress would permit access to amounts accumulated in your SRA before 1989.

If you decide to make a withdrawal before the new restrictions take effect, the distribution must be made by TIAA-CREF by December 31, 1988. To insure that your check can be issued by then, all forms, properly completed, should be received by Friday, December 16, 1988. SRA withdrawal forms can be obtained by calling 1-800-842-2777.

**- Paula Cashin**

## **Prairie Project Seeks Volunteers**

The Fermilab Prairie Restoration Project will conduct its annual seed harvest on September 24 and October 29, 1988, at the unprotected prairies in Markham, Illinois. Volunteer harvesters will meet at 10:00 a.m. at the McDonald's restaurant on 159th St., two blocks east of Kedzie Ave. A van will leave Wilson Hall at 9:00 a.m. on those dates for those needing transportation. Harvesting will last until 3:00 p.m.

On September 25 and October 30, 1988, the harvest will take place in the Fermilab Prairie Project itself, inside the Main Ring. Follow the directional signs posted on site.

No previous experience is necessary to join the harvest. Be sure to wear field clothing; plant snippers will be useful. For more information, call ext. 3351.

## **Sports Reports from the Family Picnic**

Eight children between the ages of 9 and 14 signed up to play singles tennis on a hot, sunny, picnic morning. Manuel Savoy was the chief organizer of the tournament; the matches were eight-game pro sets.



*Going to the net are (l. to r.) M. Savoy, M. Punzi, I. D'Angelo, L. Finstrom, L. D'Angelo, and G. De Lesquen. Not pictured is S. Czop.*

First place in the tourney went to Guenolee De Lesquen. She defeated Manuel in the final 10-game pro set. Massimiliano Punzi came in third after defeating Steven Czop in the playoff match. The other participants were Larrissa and Igor D'Angelo, and Lenny Finstrom.

All the players received a reward for their efforts. The level of play was judged to be very good, and everyone had a fine time. **- L. Even**

\* \* \* \* \*

Five volleyball teams, captained by Rene Padilla, Linda Even, Stefano Miscetti, Riccardo Paoletti, and Alma Karas, met the challenge at the annual Fermilab Family Picnic. Almost all the players were ready to begin at 8:30 a.m. on a Sunday morning! You can't say they don't love to play volleyball!



*"I Barbari Rossi," (l. to r.): A. Fioretti, H. Appel, T. Yasuda, S. Miscetti, A. Reis, and Y. Tan.*

When the dust had settled on the Village playing fields after a six-hour marathon tourney, Miscetti's international collaboration, "I Barbari Rossi" ("The Red Barbarians"), had carried the day by besting Linda Even's second-place squad 15-10 and 15-11. All the teams were exhausted, but all the teams played well to the end, then retired to a well-earned reward of donuts and swimming. **- Stefano Miscetti**



## ***Trudy's News from NALREC***

On Friday, September 23, 1988, NALREC will celebrate fall with the annual **Oktoberfest**, featuring German food and drink plus a DJ playing music to suit all tastes. Oompah on over the the Village Barn at 5:15 p.m. and join in the fun.

On October 21, also a Friday, at 5:15 p.m., NALREC's **Country & Western Party** offers western food and libation, and a foot-stomping band. Be sure to wear your western shirt and boots for this one.

On Sunday, October 30, the NALREC **Children's Halloween Party** for kids eight years and younger will feature a haunted house and refreshments, among other treats.

December promises to be the busiest month of all. On December 17, the elegant NALREC **Dinner Dance** will be held in the Wilson Hall Atrium. On Sunday, December 18, we will again sponsor the **Children's Christmas Party**, featuring Santa Claus, gifts, and refreshments. We're hoping to fit the **Employee's Christmas Party** at the Village Barn into the schedule on Tuesday, December 20. Watch this space for more details on all of the above.

NALREC is reaching out beyond the Lab for entertaining events, such as the musical *Gypsy* at Drury Lane Theater in Oakbrook Terrace on September 22. The special NALREC price is \$12 (regularly \$20) and a meal is available for an extra \$9.25. Tickets are available from Jesse Guerra at ext. 4305. Jesse is also the man to see about several NALREC-sponsored tours, such as the Roman Holiday Tour, the employee group trip to Disney World, and several ski trips. - **Trudy Kramer**

## **Congratulations to:**



## **Interactions & Events**

### **et al.**

**Jeffrey (Accel. Div./RF) Ruffin** has been accepted as a member of the Aurora Big Brothers and Big Sisters organization. Jeffrey has volunteered to see his assigned Little Brother three to five hours every week for one year. The goal of the program is to assist youngsters to become mature, productive citizens of tomorrow. The organization states that "It is our conviction that a person who volunteers time in this capacity has a positive sense of community responsibility. Congratulations on having such a person [at Fermilab]."

**Barbara Bennett**, of the Neutron Therapy Facility, has achieved a bachelor of science degree in the medical health arts from the College of St. Francis in Joliet.

**Joyce Wickenberg**, whose husband, **Bill**, is with the Collider Detector at Fermilab, has earned a master's degree in business administration from Illinois Benedictine College. She is employed as a manager for AT&T Technologies, Lisle.

## **FermiNews Cla\$\$ified Ad\$**

### **FOR SALE**

#### **Motorized Vehicles:**

1988 TOYOTA TERCEL COUPE, 14K miles, AM/FM cassette w/ 4 speakers, AC, 5 spd. \$7600 or best offer. Call Dave, ext. 2309 or 393-6713 evenings.

#### **Miscellaneous:**

CANNONDALE RACING BICYCLE, 12-spd., 53 cm, Shimano and Campy components. \$400. Call Rich Rebstock, ext. 3630.

FRIGIDAIRE MICROWAVE, 750 watt, excellent condition. \$125. KENMORE DEHUMIDIFIER, 20 pint, thermostatically controlled. \$100. Call Dave at ext. 4533 or 851-0763 after 5:00 p.m.

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