

TEVATRON Named Top Ten Engineering Feat

Fermilab's TEVATRON has been chosen as one of the Top Ten Engineering Achievements of the last 100 years by the Illinois Society of Professional Engineers (ISPE). The society, which represents about 3500 professional engineers in the state of Illinois, presented the awards in May on the occasion of the ISPE's 100th Anniversary Conference in Champaign, Illinois.

The award described the TEVATRON as the "1000-GeV Proton Accelerator with Experimental Areas for both Fixed-Target and Colliding Beam Experiments," and noted that "the TEVATRON/TEVATRON I was a 1984 ISPE Outstanding Engineering Achievement." John O'Meara of CDF accepted the award on behalf of Fermilab.


Selection of the TEVATRON as an outstanding engineering achievement acknowledges both the creation of unique individual systems and their combination into a larger machine for carrying out research. Since this engineering requires the most highly developed, state-of-the-art equipment, its use for research frequently becomes the forerunner of uses which other engineers adapt for other purposes.

The society noted that "Fermilab was chosen because of its international eminence in the area of subatomic research and the enormously complex engineering systems that make the accelerator research possible. With the completion of the TEVATRON Project, Fermilab will produce the most powerful center-of-mass energies available anywhere in the world. These proton-antiproton collisions will provide enormous research opportunities for exciting new physics."

Other projects receiving recognition as Illinois Top Ten Engineering Achievements in the last century included the AT&T Bell Laboratories 5ESS Digital Switch; the Borg-Warner automatic transmission for automobiles; the Chicago Bascule Bridge; the first nuclear power plant - Dresden Station; the first controlled self-sustaining nuclear reaction; the geodesic dome; the Illinois Highway System; the



Robert Bergendoff, P.E., (right) Chairman of the Engineering Accomplishments of the Last Century Awards Committee, presents the Outstanding Engineering Accomplishment Award to John O'Meara of CDF.

Metropolitan Sanitary District of Greater Chicago's system; and the University of Illinois College of Engineering. 

Director's Review of Accelerator Status and Upgrade Program to be held in Curia II.

July 3, 1986, from 9:00 a.m. to 12:30 p.m.: "Energy Doubler Low- β and Possible Upgrades," (D. Finley, R. Johnson, Q. Kerns, F. Mills, R. Shafer, P. Mantsch, T. Peterson, D. Edwards).

July 10, 1986, from 9:00 a.m. to 12:30 p.m.: "Experimenters Reaction - Loose Ends," (A. Tollestrup, R. Schwitters, P. Koehler, P. Grannis).

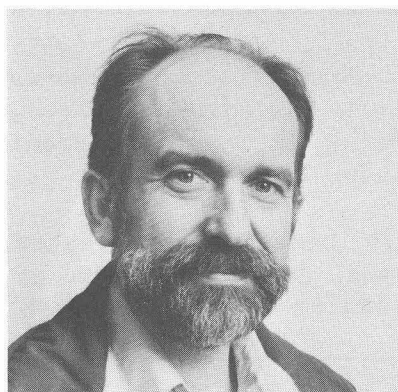
NOTE: The June issue of *Fermilab Report* will feature a transcript of the panel discussion "How Do We Sustain Good Science?" which occurred at the 1986 Fermilab Annual Users meeting. If you do not receive Fermilab Report, and would like a copy of the June issue, contact the Publications Office at ext. 3278.

Facilities Department Formed to Facilitate Research

Accelerator shutdowns are times of preparation when experimental apparatuses and beamlines are removed, modified, or installed. There has been a tremendous amount of construction completed within the last year. This construction includes three major new beamlines: the Wideband Photon Beam, the Muon Beam, and the M-West Beam. The Wideband and Muon beamlines which lead to the E-687 and E-665 spectrometers respectively, were commissioned at the very end of the last running period. Currently, the major activities involve assembling the experimental spectrometers. The new M-West beamline will be commissioned later this year and will provide beam for the new E-706 Liquid Argon Calorimeter spectrometer which is located in the M-West Experimental Hall. Also, the new M-Polarized beamline will be commissioned during the next running period. A record 16 beamlines will operate during the next running period, providing beam for 16 different experiments simultaneously.

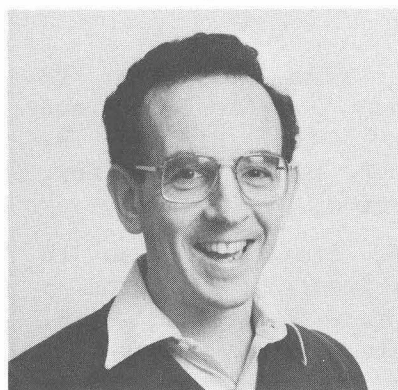
liasons, who are responsible for the fixed-target areas, into a single department. The department will organize the activities of the other support departments to insure that experiments are installed and operated with optimum efficiency.

The department will continue to place emphasis on individual Area Coordinators. Area Coordinators provide overall leadership and coordination for each experimental area. Along with supervising the beamline physicists, Area Coordinators will bring their expertise to bear on the problems of that specific experimental area, especially those problems or issues involving more



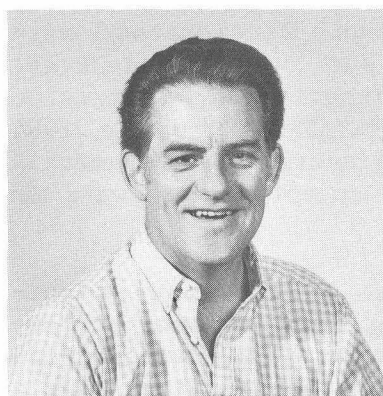
R. Stefanski

To help meet the challenge of bringing these brand-new facilities on-line and providing service to the other fixed-target experiments during the next running period, the Research Division Office formed the new Research Facilities Department. Ray Stefanski was named Head of the department, and Stephen Pordes was named Deputy Head. This department is a combination of the Facilities Support Department and the Research



S. Pordes

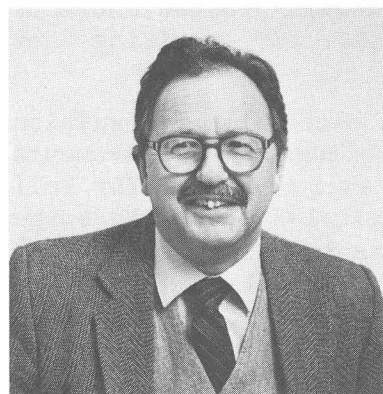
Division Beams Group. By combining these two groups into a single unit, the new department more fully matches the talents and skills of its personnel with the tasks that need to be accomplished. The department places most of the Research Division physicists, beamline physicists, and experiment



C. Brown



L. Stutte



D. Jovanovich

than one beamline. They will also act as support for the liaison physicists, serving as the representative of all experiments in that area, helping the Research Division satisfy each experiment's needs. "I envision the goal of this new department as bringing a higher level of support and service to the fixed-target experiments," said Ken Stanfield, Head of the Research Division. Chuck Brown will be Area Coordinator for the Meson Area, Linda Stutte for Neutrino, and Drasko Jovanovich for the Proton Area.

The new Research Facilities Department will continue to provide a number of other services to the user community here at Fermilab. In conjunction

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...**"Reorganization"** cont'd from page 2
with the Physics Section, Research Facilities will operate the detector construction facilities located in Lab 6. Another service they provide for experiments is zip-tracking of newly installed experimental magnets.

Another new group within the new department is the Particle Detector Group headed by David Anderson. This group works on the state-of-the-art detector technology that will be necessary for detectors of the future. Currently they are working on barium fluoroide crystals for possible use as an SSC calorimeter. They are also studying the effects of various dopants for liquid argon calorimeters like the one located in the new M-West Hall, and on developing new scintillators. This group is a valuable Lab resource, available to discuss any detector issue.

Fermilab is a service-oriented institution, where users have access to a top notch high-energy physics research facility intended to do cutting-edge science and train the next generation of physicists. The new Research Facilities Department is committed to providing an optimum level of support for all who come here to participate.

- Mark Bodnarczuk

"Hard Times Party"!

Join NALREC in celebration when they present a "Hard Times Party" on Friday, June 27, 1986, from 5:15 p.m. until 10:00 p.m. at the Kuhn Barn in the Village.

Enjoy bratwurst for \$1, and music by the **Burgundy Road** band. For more information call Dominick on ext. 3187.

(Special Note: the Users Center will be closed on June 27, due to the Hard Times Party.)

Barnstormers Fly for Fun

The Fermilab Barnstormers will host a Model Helicopter Fun Fly Contest on Sunday, June 29, 1986, at the Barnstormers' flying site, north of the Pioneer Cemetery.

Beginners as well as some of the most experienced people in the Midwest will compete. Competitor registration opens at 8:00 a.m. and contest flying will be at 9:00 a.m. Spectators are welcome. For more info, call Jim Zagel, ext. 4076



Benefits Notes . . .

Connecticut General Reminder

The Hospital Preadmission-Certification Program has been operational since November 1, 1985. Out of approximately 400 in-patient hospital stays, 10 hospital stays were not certified. To avoid this costly error, you should attach the wallet-sized precertification instruction card to your Connecticut General I.D. card. If you do not have a precertification card, please call the Employee Benefits Office at ext. 3395 or 4361, and one will be mailed to you.

Benefits Questions

Q: I will be getting married soon. Can I add my spouse on my medical and dental plans?

A: Yes, you can. You have 30 days from your wedding date to enroll your spouse on the plans without completing medical and dental evidence of good health. The insurance for your spouse will become effective on the date you elect it by completing the enrollment forms. The enrollment forms are in the Employee Benefits Office. You may also enroll prior to the wedding date, with the effective date the same as the wedding.

If you have questions about your benefits, please feel free to submit your questions to the Employee Benefits Office, M.S. #124, and we will try to answer them in *FermiNews*.



Sea Party Deal Surfaces

In recognition of Fermilab's contributions to the community, the Boston Sea Party, located on North Avenue in Carol Stream, made arrangements through the Activities Office to offer a 20% discount off food to employees, users, and their guests, during the month of July.

For reservations call 690-8450. All that is required is your Fermilab I.D. card. Enjoy!

Ratio of male to female ulcer patients in the United States in 1966: 20 to 1

Today: 2 to 1

- from *Harper's Index*

Trever Retires: Fermilab's Loss is Paw-Paw's Gain

Roy Jeffries has been working in the Computing Department at Fermilab for the past seven years. During those years, he has had a constant companion, ever present, always at his side: Trever, Roy's guide dog.

Roy has had Trever, a Labrador retriever, for almost 10 years. Trever is now 11 years old, (that's 77 in people years!) and Roy has decided that it's time for Trever's retirement.

July 11, 1986, will be Trever's last day, and then he can look forward to a happy retirement in Paw-Paw, Illinois, with Roy's niece, Connie, who has promised to take special care of Trever.



Trever had to overcome his fear of elevators and open stairways, and now when Roy says, "Stairs, Trever," Trever heads toward the closed door leading to the stairwell.

Roy says that Trever gets along quite well with the other Jeffries family pets, another dog and a cat. Roy says they all

run around the house playing together and there isn't any jealousy between the animals.

Roy will be attending classes at the Leader Dog School in Rochester, Michigan. The school, Trever's alma mater, specializes in dogs for the blind. Roy will go to Michigan for an extensive 3-week training period, during which time trainers will find a dog that is perfect for Roy. Roy's gait, temperament, personality, and needs all have to be taken into consideration when finding a new dog.

Roy wants to thank Fermilab employees for their kindness and friendliness towards Trever, but he emphasized, "I would appreciate it if people would refrain from speaking to or petting the new dog for a few months since it will be very difficult to train the dog, even without outside distractions."

Roy is always in need of a ride to work and home to Aurora, especially on Wednesdays when his sister-in-law has to make a special trip out to the Lab, so if you would like to be a volunteer driver, call Roy on ext. 3146.

Fermilab employees Ellie LaFountain, Merle Watson, and Marie Bidstrup have all been helping Roy get to work, taking turns during the week. Roy's hours are flexible, so he can fit into any schedule.

This story just proves the old saying: a dog is man's best friend.

- S. Winchester

Tennis Players Needed. . .

The Fermilab tennis team of the West Suburban Industrial Tennis League is looking for players to compete in both the A & B divisions.

Play will usually be at the Fermilab tennis courts, behind Kuhn Barn, on a schedule to be arranged later. Our competitors are Bell Labs, Argonne, Amoco, and Western Electric...and the competition is fierce.

If you are interested in further information, call Linda Even at ext. 4847. ☞

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