

The Village Courier



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PROTON AREA OPENS PAGODA CONTROL CENTER



...Aerial view of Proton experimental area. Pagoda control center may be seen at right...

The last major component in the original design of the Proton Experimental Area was formally opened this week. The Pagoda housing the control center for the Proton Area was launched by the twist of a dial by Director Robert R. Wilson at a noon-hour ceremony Wednesday, February 25.

The Pagoda is glassed on four sides and rises some 30 feet from the ground, making it the best place from which to see the entire outlying experimental areas. From the vantage point of the control deck of the Pagoda a 360° view is possible. But the three experimental halls controlled from the Pagoda -- P-East, P-Center, and P-West -- lie buried deep underground.



...The Pagoda...

The Proton Area takes the primary proton beam from the accelerator with full intensity and energy. Experiments using the primary proton beam are located in three pits, identifiable at ground level only by the scalloped roofs over the top of what is actually a giant labyrinth. Two secondary beams are also generated by the Proton Area, the tagged photon beam and the broad band photon beam. Three crews of operators work around the clock in the Pagoda guiding the beam from the accelerator into the Proton Area facilities and into the three experiments running here simultaneously.

Direction of the Proton Area changed hands this week as Brad Cox became Proton Department Head, succeeding Roy Rubinstein who had held the position for the past 1½ years. During this period, the Area has grown considerably; it also has changed its main emphasis from construction to operation for physics experiments, of which there are now eight set up. The Tagged Photon Laboratory with its associated electron beam was brought into use; the three-way-split became operational, followed by operation of the quadrupole enclosures, and the use of the P-West Area for experiments. Several important physics discoveries have already been made in the Proton Area.

In the next few months the Proton Department will start construction of a High Intensity Pion Laboratory that will be an extension of the P-West line. The new line will contain 54 superconducting magnets -- the first superconducting beam line at Fermilab.

PROTON AREA OPENS PAGODA



...*(L-R) Roy Rubinstein, retiring head, Brad Cox, new head of Proton Area...*



...*New view of Meson Detector Building as seen from the Pagoda...*



...*Two interlaced spiral staircases lead up to control center...*



...*Crew chief Tom Prosapio describes operation of control panels...*

J. SANFORD RETURNS TO BROOKHAVEN



...*J. R. Sanford...*

Dr. James R. Sanford, Associate Director for Program Planning, has announced his acceptance of a position as Associate Director of Brookhaven National Laboratory and Head of the ISABELLE Design Study project at that laboratory.

In his letter to the Fermilab staff announcing Sanford's appointment, Dr. Wilson said, "While we can rejoice with Jim as he goes on to this tremendous new opportunity, and wish him God speed, we do so with tears in our eyes at losing this capable friend and colleague from Fermilab where he has accomplished so much to make our laboratory a success."

ART/SCIENCE COME TOGETHER AT FERMLAB

An extraordinary combination of art and technology is found in the piece of art recently created by Mrs. Lois Kane for Fermilab. Using the shield from scrap coaxial cable, Mrs. Kane created a wall hanging now located in the small dining room at the west end of the Fermilab cafeteria.

Mrs. Kane designed and wove the unusual decoration at her home in Ann Arbor, Michigan. She is the wife of Dr. Gordon Kane, a frequent visitor in the Fermilab Theory group. Her husband helped solve some of the technical problems in this undertaking. Her idea for the hanging evolved during a one-month stay at Fermilab last summer when she learned of the scrap program of the Laboratory in which odds and ends of coaxial cable are rolled onto a spool as they are returned to Material Supply for re-sale. While short lengths have little re-sale value they sparked Mrs. Kane's artistic imagination. At the end of the summer she went home with some 7,000 feet of such scrap and started the weaving in her basement.

By squeezing and manipulating the copper cable, she has created different sizes and textures as well as an overall design which fills the entire 12' x 12' wall. She calls the hanging "Lines of Communication."

Coaxial cable is installed where it is needed at Fermilab to carry computer signals or high voltages. It is the same type of cable that is used to transmit television. In its original form, the braided copper used by Mrs. Kane is one of several layers that comprise the cable. She stripped away the black plastic outer coating and the inner conductor layer of the original cable.

About her work she says, "Fermilab is an exciting place where art and science come together. The artist and the scientist proceed in the same way toward their goals, and this is what I have tried to convey in my woven sculpture."

Lois Kane is also a weaver and spends at least one day each week teaching weaving; she works as a volunteer with handicapped people using weaving as therapy.

The Kanes have two children, Hal, 9, and Mollie, 6. Dr. Kane is a physicist on the staff of the University of Michigan.



..Lines of Communication, created by Lois Kane...



...Artist Lois Kane hanging unusual weaving...



...Kanes make final adjustments of cable sculpture

FERMILAB MIXED BOWLING LEAGUE STATUS

With the season two-thirds completed and a position round just finished, in first place are the Hockey Pucks, headed by Doug Maxwell, with 60 wins. Tied at 53 wins apiece are the Last Chance (captain, Harland Gerzevske) and the Wogles, led by Curt Owen. All three captains are in the Accelerator Division. Coming in a close fourth are the Gutter Dusters, headed by Ralph Ovitt, Machine Shop. High scores are as follows: Last Chance, high team series; 4 + 1, high scratch game; Roy Justice, Physics, high series and high game, followed by Tony Albano, Machine Shop, second in high series and high game. Jean Plese, Directors Office, leads the women's high series, followed closely by Barb Schluchter, Research Division. Barb holds the high score for women with a 202, followed by Marion Richardson, Neutrino.

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"ELIJAH" CONCERT SUNDAY

Mendelssohn's oratorio "Elijah" will be presented by the Elgin Choral Union and Symphony Orchestra under the direction of Thomas Wikman on Sunday, March 7 at 3:00 p.m. in Hemmens Auditorium, Elgin Civic Center. Soloists are Sarah Beatty, soprano; Isola Jones, alto; Richard Versalle, tenor; and Paul Geiger, baritone. Elliott Golub is concertmaster. Tickets are \$4 adults, and \$2 students and senior citizens. For further information, call Bob Goodwin, Ext. 3724.

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COLLEGE OF DUPAGE CLASSES AT FERMILAB

Among the classes being offered by the College of DuPage at Fermilab in the next few weeks are:

Blueprint Reading - 3 credit hours - \$30 - on Wednesday, 6:00 p.m. to 8:50 p.m.

Conversational French - 2 credit hours - \$20 - Wednesday, time to be arranged.

Air Conditioning and Refrigeration - 3 credit hours - \$30 - time to be arranged.

Call Ruth Thorson, Ext. 3324 for more information.

Physical Fitness - 1 credit hour - \$10 - Tuesday, 5:30 - 7:20 - March 30 to June 8.

Tennis - Tuesday and Thursday - 1-3 p.m., May 4 to June 10 - 1 credit, \$10

Monday and Wednesday, 6:30-8:30, May 3 to June 9 - 1 credit, \$10.

See Vivian Butler, CL-6E to register for these courses.

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...A NEW SYSTEM for refunding money lost in vending machines at Fermilab is being developed by Cafeteria Manager Eric Jarzab and representatives of vending machine suppliers. "We are trying to satisfy vending machine customers in a more efficient manner with as little inconvenience as possible," he says of the new system which will go into effect by April 1. Meanwhile, if you lose money in a vending machine, a refund may be obtained from the receptionist at the Cross Gallery or the cashiers in the Cafeteria or from the bartender at the Users Center. Abuses of the vending machines and of this refund courtesy may result in removal of the machines.

FERMILAB SOCIAL CALENDAR

Friday, March 5 - International Folk Dancing - Village Barn - 8 p.m. Everyone welcome.

Saturday, March 13 - NALREC St. Patrick's Day Dance - 8 p.m. to 1:00 a.m. - Village Barn - Corned beef, Irish treats. Cash bar. Music by the Mellowtones.

...DISTRIBUTED with this issue of The Village Crier is a calendar of social activities for the month of March, the schedule of films of the International Film Society for the spring and summer of '76. If you do not receive a copy with your Village Crier, call Ext. 3351, Public Information Office.

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CLASSIFIED ADS

FOR SALE - Auto AC, add-on type, prev. on Pontiac Tempest, good cond. \$50. T. Soszynsk, X3263.