FERMINEWS

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MESON AREA CONTINUES PACE WITH SUCCESSFUL CONSTRUCTION

...Workmen lower the four-foot diameter pipe into the ditch between the F-3 manhole and the Meson Target Hall...

It was a dramatic four-day success for Fermilab and the teams of people who squeezed the work into four days when the weather eased its misery last week.

A crucial 421 feet of concrete pipe was laid between the F-3 manhole, just north of the master substation, to the Meson Target Hall (Meshall). The laying of the pipe--each segment 12 feet long with an inside diameter of four feet--began at 8 in the morning of Feb. 13 and ended unceremoniously in bitter cold around 9 p.m. Feb. 16.

The teams had been waiting for more than a month to finish the work on this major phase of reconstruction of the Meson Area. The weather was the enemy that had shut them down, bringing anxiety to the men who watched their timetable for revitalizing the Meson Area yield to elements beyond their control.

To Ernest Malamud, head of the Meson Department, and John Elias, associate department head, it meant that one more of a number of major construction hurdles had been passed and that they were on their timetable of bringing beam back to the area in early May. The planned hiatus began in October of last year.

The new pipe, which replaced steel beam pipe with a 10-inch inside diameter, now allows the Meson Area to take the primary proton beam, split it and direct the two new beams to two independent targets. The diameter of the old pipe was too narrow to allow the Meson team to split the incoming beam.

Now the next phase is progressing. Crews are constructing and installing in the four-foot diameter pipe the support systems that will ensure the beam is adequately controlled and split. Part of this phase consists of welding together 60-foot lengths of pipe, inspecting them by x-ray and then inserting them into the mother pipe on specially constructed carriage rollers. Cable trays carry lines for power control, cooling water, safety units and other support services. The heavier power cables rest on the bottom of the large pipe.

This new design considerably increases the versatility of the Meson Area and simplifies the overall construction and installation of the support services. The alternative was to construct a second line similar to the old one and duplicate existing systems for this second line.

"A strong effort is underway now to continue the evolution of the Meson Area toward ever higher energy operation as the accelerator energy increases and toward more intense and higher energy secondary beams," said Elias and Malamud in the March 1979 issue of "Fermilab Report." "Clearly, we are now aiming for the Tevatron."

Martam Construction Co. installed the transitions at each end of the pipe. Excavating the berm and then the hard job of installing the 421 feet of concrete pipe during last week's "break" in the weather was done by the Reliable Excavating Co. of

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...Installing a section of vacuum pipe in the Meson Target Hall are, (L-R), Bob Jensen, John Williams and Pat Liston...

Mendota, Illinois. Mel W. Magnuson and Jim Moncrieff of the Architectural Services coordinated work between the suppliers and installers of the pipe, and made an important contribution to success by obtaining heat and lighting to enable the work to continue to completion.

Malamud and Elias had high praise for all of the persons who at one time or another were involved in this phase of the construction. Alan Jonckheere, a Meson Department physicist was primarily responsible for the beam optics of the two-way split, together with Roger Dixon and Sharon Lackey of the Switchyard Group. Anthony Glowacki, Meson Department chief engineer, supervised the design and construction with assistance from Dwaine Johnson and Mike Mascione.

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Q.U.O.T.A.B.L.E.....

"People react to Nature's glorious and bewildering display of wonders somewhat as they do to a magic show. Some sit back and enjoy the performance while others are compelled to search for rational explanations."

Prof. Sheldon L. Glashow
Harvard University

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ART EXPERT TO SPEAK ABOUT EXHIBIT

Dr. Jack V. Sewell, curator of oriental art at the Art Institute of Chicago, will speak at Fermilab March 30 about a new art exhibit at his gallery.

Free and open to the public, the talk about "The Ideal Image: The Gupta Sculptural Tradition of India and Its Influences" will begin at 8:30 p.m. in the Fermilab Auditorium.

The exhibit at the gallery will run from March 24 through May 6 in the Morton Wing. This prestigious showing of 74 sculptures in stone and bronze from public and private collections in this country, Europe and India, will appear at only three galleries during its American tour. The other two are the Asia House Gallery in New York and the Kimbrell Art Museum in Fort Worth, Texas.

In describing the Gupta Period in India, which covers approximately the early 4th to the early 7th centuries, Sewell said that seldom in history does a person find a period in which the national genius is so fully and typically expressed in all the arts as in Gupta India.

"In 320 A.D., Chandragupta I was crowned King of Kings of an empire that would, through his conquests and those of his successors, include all northern India," said Sewell. "Art historians have variously characterized the dynasty he founded as the 'Indian Rennaissance,' 'The Golden Age' or the 'Classic Phase' of Indian arts and sciences."

Sewell has been with the Chicago Art Institute since 1954. Four years later, he was promoted to his present post. He has his doctorate from Harvard University, specializing in the art of India, China and Japan.

Tickets for his talk may be obtained from the Guest Office, CL-1W, Ext. 3124.

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BASKETBALL TEAM ROLLS WITH 6-3 RECORD

At the halfway point in the Batavia Park District Basketball League season, the Fermilab "Over 30" team is holding its own with a 6-3 record. The performance is particularly notable because the team lost its first two games. Members are C.Ankenbrandt, E. Barsotti, B.Cox, D. Greene, E. Gimnig, D.Roupas, J.Rosen, R.Lipton, D.Gustavson, I.Gaines, J.Cumulat and R.Loveless.

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PERSONALITY ON PROFILE...
Meet Bob Lootens
Keeper of the Atrium

He blends in with the scenery, and most of the time people don't know he's there.

Many people have seen the handiwork of Robert J. Lootens so frequently that they take it for granted. It's always been there and always will be.

But not quite...

Unless the many trees and tropical plants in the Central Laboratory's atrium and the 200 potted plants scattered throughout the building's 15 floors received constant attention from the knowledgeable Lootens, they would not be thriving as vigorously as they now do.

Four years ago, Lootens took on the job of keeping Fermilab green and growing. He takes care of the watering, struggles relentlessly to keep insects and soft shell scale under control, continually prunes and fertilizes the plants and worries about their lighting, over which he frequently has little control.

When Fermilab's plant expert-in-residence looks at his subjects, he sees things most people don't. For example, when Lootens walked into the Public Information Office for an interview, the first thing he said was "There's a dead stalk." Then he removed some other non-thriving parts of the bamboo plant in the office, all this, before he even sat down to talk.

Lootens works hard at keeping up with the latest in plant technology. He has taken horticulture courses at the College of DuPage, and in January attended a short

...Bob Lootens...

course on tropical plants given in Orlando, Florida. In that short course, he learned the latest about new equipment, sprays, plant problems and viruses.

Knowledge he applies daily in his work.

The blond haired, confident young man takes pride in his knowledge about plants, built up through experience, and sometimes by trial and error during those four years. He's concerned that he can't give the plants as much attention as they need because he also has other responsibilities with the grounds crew. But it's not unusual to find him on his own time giving that extra bit of tender loving care to an ailing plant.

So you've just met Lootens, a man with two families: Kathie, his wife, Becky 6, and Chad 3, and of course....

His plant family.

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Inter/National Film Society Presents

"THE BICYCLE THIEF"

Friday, March 9 8:00 p.m. Fermilab Auditorium

This 90-minute Vittorio DeSica film deals with a poor married man, his son and the bicycle that provides their livelihood. Just when the bicycle is needed for a long-sought job, it is stolen. The film follows the man's desperate search through the streets of Rome to find the treasured bicycle.

Admission: Adults..$1.50 Children..50¢

APPLICATIONS FOR GARDEN PLOTS NOW AVAILABLE

The Fermilab Garden Club is now accepting applications for garden plots.

The applications are available in the Recreation Office, CL-1W, from Helen McCulloch. All garden assignments this year will be made by mail through the Fermilab Garden Club.

The club will hold its spring meeting today, March 1, at 5 p.m. in Curia II, CL-2W. The group plans to discuss plot assignments, its constitution, rules and other club business.

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REMINDER ABOUT SIGMA XI LECTURE

Dr. Simon Ostrach of Case Western Reserve University will speak tonight at the Sigma Xi meeting at 8 p.m. in the Fermilab Auditorium.

The lecture is free and open to the public.

His topic will be "How to Solve Complex Problems Without Being Smart." In his talk, he plans to describe a logical and powerful approach for handling complex situations. At Case, he is the Wilbert J. Austin distinguished professor of engineering.

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HARRIS LECTURE ON SHOPPING APPROACHES

Neil Harris will speak about shopping March 16 at 8:30 p.m. in the Fermilab Auditorium.

In his talk, "From the Emporium to the Shopping Mall--The Architecture of Shopping," Harris will examine the influence of shopping malls on American culture. He is a University of Chicago historian.

Fermilab, the Illinois Humanities Council and the National Endowment for the Humanities are sponsoring his appearance.

Tickets may be obtained from the Guest Office, CL-1W, Ext. 3124.

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SUMMER HOUSING DEADLINE NEARS

The deadline for summer on-site housing applications is March 30.

That's when they must be in the hands of the Housing Office. Responses to the applications will be mailed April 17, and experimenters and their families can begin to occupy their housing the week of May 28.

For further information, contact the Housing Office, Ext. 3777.

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FINAL CALL FOR TOKYO STRING QUARTET

The Tokyo String Quartet will give a concert Saturday, March 3, at 8:30 p.m. in Fermilab Auditorium.

All seats are reserved, and tickets may be purchased at $4 each by calling the Guest Office, Ext. 3124.

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INTEREST SOUGHT IN NURSERY SCHOOL OR DAY CARE CENTER

Fermilab employees and users have been sent a questionnaire to determine if there is an interest in establishing a nursery school or day care center.

Completed questionnaires should be returned to the Fermilab Guest Office by March 9. The questionnaires seek to determine the number of children ages 3 through 6 and the times that parents would be interested in having their youngsters cared for.

For additional information, call Cynthia Albright, 232-7476. After an analysis of the questionnaires, a decision will be made as to whether a nursery school, day care center or a combination of both would be the most practical, Albright said. There also is the possibility that none will be set up if the demand is not adequate, she added.

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