

# The Village Courier

 national accelerator laboratory

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## INTERIOR PLANNING FOR HIGH-RISE

A pleasant lounge...carpets...proximity to other sections...you may have thought wistfully of these as you bicycled from the Physics Department to a meeting in the Snake Pit, or slogged to the Cafeteria for lunch in the rain...

All these and more are planned for the sixteen-story Central Laboratory, into which most NAL offices and sections will move in the next few months. No specific moving dates have been set; too many as yet unknown factors are involved, but the interior of the building is being readied for occupancy as quickly as possible, and discussions of locations and space allocations for Laboratory Sections are under way.

The interior of the sixteen-story structure is very open and airy, and to maintain this feeling, the open office concept will be used in any group which can function well in such an arrangement -- with no permanent walls or corridors. Instead, low dividers will provide privacy where desired, particularly around work stations. In this way, comments Donald Getz, "Everyone will be able to stand up from his or her desk and look out a window. Also, we are trying to eliminate the problem of 'inside' and 'outside' offices as status symbols."

It will be a very colorful building. The architect, Alan H. Rider, of the Washington, D. C. office of Daniel-Mann-Johnson and Mendenhall, has suggested accent colors, one for each floor, based upon a scientific progression of color values. Thus, the first floor will be yellow; the second floor, ochre; the third, olive green; the fourth, light green; the fifth, dark green; the sixth, aqua blue; the seventh, light blue; the eighth, dark blue; the ninth, purple; the tenth, light purple; the eleventh, dark red; the twelfth, red; the thirteenth, dark orange; the fourteenth, orange; and the fifteenth, yellow again. How much of the accent color will actually be used on each floor is still being decided. Carpeting throughout the office areas will be the same -- a neutral brown.

New furnishings are planned for the entire building, and DUSAF is taking bids now for the first phase. Delivery dates will be a large factor in determining moving dates. Commented George Doddy of DUSAF, "We've all worked very closely together -- NAL, DUSAF, and the interior design consultants -- to make this a functionally and aesthetically coordinated installation. I think it's a very exciting one."



*...Looking northeast from the Cross Gallery toward the Central Laboratory...*

The location of offices in the building is being discussed now and is still subject to change. The floor numbering system is in the European style, with the so-called first floor actually on the second level of the building. Don Getz gave a capsule description of the plans for some of the floors:

The ground floor, which has high ceiling,

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## HIGH RISE INTERIOR (continued)

will be used as heavy laboratory and shop space. The cafeteria kitchen will also be located there. The main entrance to the building, with a receptionist to greet visitors, will be on the first floor. The cafeteria, perhaps open 24 hours daily if there is a need for it, will be in the south portion of that floor. The west wing will probably contain a model and exhibit center, and possibly, a small stationer's-newspaper stand. The most striking feature of the first floor is the atrium in its center. There you'll be able to sit in or stroll through the garden-like atmosphere and watch the jets passing overhead through the skylight. A Laboratory Operations Center will be located in the east wing.

The roof of the auditorium is accessible from the first floor; in good weather, it will surely prove a pleasant place for gathering. The reflecting pool in its center was included for both economic and aesthetic reasons.

Personnel Services -- Personnel, EEO, Public Information, Medical Offices, etc., will occupy both wings of the second floor. A comfortable lounge is planned for the area at the south end which connects the two wings. "One of the problems of a scientific laboratory is communication and cross-fertilization of ideas. A pleasant place to go for coffee and a chat may encourage more of that," commented Don Getz. "CERN has a wonderful coffee lounge, one which we'd like to emulate. Unfortunately, we don't have surroundings to compete with the Alps."

The Library and the Physics Department theorists will be on the third floor, in the south and east wings, respectively. The rest of the third floor space is not allocated yet.

The Director's Office and conference rooms will probably be on the fourth floor, in the south portion overlooking the Cross Gallery. The balance of this floor is still vacant.

Both wings of the fifth floor are given over to money matters -- the business office, payroll and accounting, contracting, purchasing, and the legal office.

The AEC will have its offices in a portion of the east wing of the sixth floor, but the rest of the space has not been assigned yet.

The west half of the seventh and eighth floors will be used for computers for analysis of experimental results, as well as the data link to Argonne. Present plans call for the installation of the 6600 computer, coming from Berkeley this Spring.

Plans for the rest of the building are still too tentative to discuss. One entire floor or equivalent space on two floors, will be occupied by Technical Services -- plant operations, modifications, drafting, and the like, but the exact location hasn't been decided. Space for the Physics Department, Research Services and other Laboratory Sections, is still in the planning stages, but "anyone whose work makes it necessary to be in the building will have space available." The building is planned for a maximum capacity of 1200 people.

There is no need to fear that the Village, such an important part of NAL's development, will become a Ghost Town once the Central Laboratory is completed. Some of its buildings, those north of Neuqua, the Director's Complex, and possibly some others, will continue to be used as laboratory space for visitors and some NAL personnel.

In addition, the Laboratory has asked the AEC for permission to spend some of the \$250 million authorized for construction and development of the site to convert some of the houses back into quarters for short-term visitors to the site.

*All in all, it should be an exciting Spring around NAL!*

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## LESSON FOR THE DAY

An electrostatic wire septum module was inadvertently captioned as a Lambertson iron septum magnet in the February 8 issue of the Crier. To clear up any possible confusion, both units are pictured below.

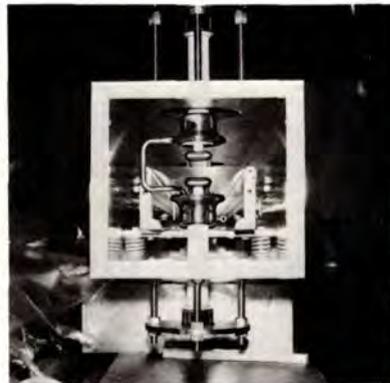
The Lambertson magnet, named after the Berkeley scientist who introduced this concept for beam handling, behaves in a fashion similar to a regular bending magnet in deflecting a beam using a magnetic field. The trick is to provide an adjacent aperture free of a magnetic field for a second beam, usually only a fraction of an inch away from the high field region, separated by a thin magnetic iron shield or septum. The net effect of the septum is to increase the spatial and angular separation of the two beams. The shield thickness on the unit shown below is 0.150 inches. This tiny gap of iron must shield out a field of about 7 kG for a 500 GeV/c beam.

The electrostatic wire septum is composed of a 10-foot array of parallel, hair-like stretched tungsten wires surrounded by strong electric fields. It is used in a way similar to the Lambertson. In the case of the electrostatic septum, the beams can be even closer together. However, the Lambertson magnetic septum can effect much larger beam separations.

Both these units are necessary to accomplish the splitting and separation of the beam line.



*The Lambertson iron septum magnet*



*Electrostatic wire septum*

### CONGRATULATIONS!

The first three graduates of the NAL Machinist Apprenticeship Program were honored at a luncheon on February 15 in the Village Barn. Larry Chiplis, Nelson Sample, and Roger Hiller have attended classes at Argonne, and satisfied all of the other requirements of a four-year apprenticeship program under the supervision of machinists and toolmakers in the NAL shops. The program meets certification requirements of the U.S. Department of Labor. Chiplis and Sample are now fully qualified instrument machinists, and Hiller is an instrument welder. They have all been with NAL since 1969.

Certificates were presented to the three men by Bill Jones, NAL Machine Shop Foreman. Those attending the luncheon included members of the apprentice committee and shop foremen. Hank Hinterberger, Director of Technical Services, and Chuck Marofske, Personnel Manager, were also present.



... (L-R): *Victor Horbath (Business Agent, International Association of Machinists Union), Bill Jones, Nelson Sample, Larry Chiplis, Roger Hiller, Chuck Marofske, and Hank Hinterberger...*

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## ORIENTATION SESSIONS STARTED FOR NEW EMPLOYEES

The first of what will be a regular series of orientation meetings to acquaint new employees with NAL, was held on Wednesday, February 14th, in the Curia.

In welcoming the group to the NAL "family," Dr. Robert R. Wilson said, "I hope you will take pride in the work we are doing at the Laboratory and will find it an interesting and enjoyable place to be." Richard Carrigan, Director of Personnel Services, explained the organizational structure of the Laboratory and spoke about the scientific role of NAL. Kennard Williams, Manager, EEO Office, Chuck Marofske, Personnel, James Campbell, Business Office, Richard Auskalnis, Purchasing; Halsey Allen, Safety Officer; and Leonard Grimstead, Fire Chief, also spoke. The program was concluded with a tour of the site conducted by Helen Severance, Public Information Officer.

Only those who joined the Laboratory in November and December of 1972 were invited to attend this first session. Employees who have started work since the first of the year will be invited to the next one, sometime during March. Others who wish to attend any subsequent meetings may do so by calling Helen Severance, Ext. 3351.

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## IT'S THAT TIME AGAIN --

You can get federal and state income tax forms from the Personnel Office, 21 Sauk, if you need them. Copies of U.S. Government publication No. 17, "Your Federal Income Tax, 1973 edition," are also available for the asking, according to Mildred Meyer, so long as you return them. There isn't any comparable guide through the intricacies of the state forms, unfortunately.

W-2 forms were mailed to all employees in January. If you haven't received yours, or lost it, call Payroll, Ext. 3242.

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**!!! REMEMBER, CREDIT COSTS LESS AT YOUR CREDIT UNION !!!**

## CLASSIFIED ADS

WANTED - An elderly lady to baby sit school-age child, Abraham Lincoln School District, from 7 a.m to 5:30 p.m. Child attends half-days (1 p.m. to 3); babysitter will see to child getting to and from school. Call Ralph Ovitt, Ext. 3400 or 896-6521 after 5:30.

FOR RENT - Large two bedroom apt. in Naperville, 2nd floor of house, furnished; avail. March 20 to June 30. Rent negotiable. Call H. Abarbanel, Ext. 3753 or 357-1699 or M. Einhorn, Ext. 3749.

FOR RENT - By the week or month --- 2 bedroom air-conditioned house, on the waterfront of Pine Island, Florida, near Fort Meyers. Call Art Streccius, Ext. 3788 or 392-4905.

WANTED - An audio expert to assist community theater in rehearsing, presenting and recording new musical. Call A. Roberts, Ext. 3201.

WANTED - Ride or car pool - Butterfield Road and Naperville Road area. Call J.A. Appel, Ext. 3758, or 668-0864.

FOR SALE - 1961 Alfa Romeo Jiuletta Sprint. Good condition, 50,000 miles, new clutch and valve job, \$350. Call Ronald Walker, Ext. 3791 or 355-3380.

FOR SALE - 23" Solid State Motorola black and white TV. Contemporary cabinet, like new. Call Don Mendenhall, Ext. 3724 or 896-9308.

FOR SALE - 1971 Fiberglass Boat, 19 foot, 165 horsepower, stern drive, full canvas trailer. Call Mr. Semmelman, Ext. 3701 or HO 9-4624 after 6 p.m.

FOR SALE - Excellent track horse, Morgan and quarter gelding. Very gentle - \$100.00. Call Bess on Ext. 3222

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