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".....Take interest, I beseech you, in those sacred dwellings which one distinguishes by the word laboratories. Ask that they may be multiplied and furnished. They are the temples of the future, of riches and of well-being. There humanity grows greater, stronger and better; there one may learn to read the works of Nature, works of progress and universal harmony, while humanity's own works are too often those of barbarism, of fanaticism and of destruction."

-Louis Pasteur 1868

With this motto the new medical research building will be dedicated tomorrow, marking the completion of the first step in the Boston University-Massachusetts Memorial Hospital Medical Center.

The medical school as it stands today has not changed appreciably since 1940 when the Evans Memorial was completed. In 1953 Dean Faulkner polled the faculty on their needs for research space on the expectation of funds for building. This hope did not materialize, but the University purchased the Childrens Home, which stood where the new building now rises, through an agreement with the Archdiocese of Boston. Following passage of the Federal Health Research Facilities Act in 1956, Dr. Keefer, then dean, applied to the government for a grant of \$1.5 million in matching funds to construct a research facility. For years we have needed just such a building to give our eminent faculty modern, adequate research tools and space; to be able to attract new men of high calibre;

Schedule of Dedication Day Events

- 10:00-1:00.....Dr. Chester S. Keefer opens the program.
Distinguished guests speak on "The Role of Research
in Medicine. Auditorium Building A
- 2:30-4:00.....Tours and demonstrations in the New Science Building
- 4:00-5:00.....Formal dedication with Mayor John Collins attending
- 6:00.....Dedication Banquet, Statler Hilton
- Saturday, October 29
- 9:30-12:00 noon...Scientific programs in the auditorium and amphitheatre.

and to keep existing faculty from moving on to greener pastures. In the medical Athens that is Boston, research is necessary and vital to the advancement of knowledge and education.

Many months of collaboration between faculty and the prominent architectural firm of Shepley, Bulfinch, Richardson and Abbott resulted in a functional design with space tailored to individual needs. The Science Building is relatively large as research structures go, for it contains 86,000 sq. ft. of usable space with 50,000 sq. ft. of laboratories, service space, conference rooms, and animal care units. The basic science departments received one-third of the available area; medicine and the specialties, one-third; surgery and mental health, one-third. The dimensions of each module are twenty feet six inches square, the basic unit area of the buildings one hundred plus labs. Two electron microscopes, wondrously precise and exacting instruments, will paradoxically be located next to one of the least precise instruments of medicine, the psychiatry department. The latter will have several observation rooms. There are two controlled environment rooms for peripheral vascular studies; several electrically shielded rooms, one for Dr. Lemon's studies on the electrophysiology of neoplastic cell membranes; a virology lab with special isolation facilities for pathogenic viruses; and 80 ton low count radiation chamber constructed of World War II surplus sheet steel, coaxed from a most possessive, stubborn U.S. Navy; a lead-lined room for fluoroscopy with adjacent space for a high voltage radiation therapy unit.

The sixth floor, housing most of the research animals, has several modern operating rooms and special facilities for the care of highly radioactive "hot" animals. Architecturally the most sophisticated of the internal features is the heating and air-conditioning system, based on the principles of high velocity warm air heating and air cooling. Four separate circulating systems are employed: one for the animal room, one for the virology lab, one for all the other labs with three air exchanges per hour, and finally one for supplying "make-up" air for the sixty exhaust hoods. "Make-up" air is that fresh air which must be supplied to the hoods at the rate which the hoods blow air out. This air is supplied at 600 cu. ft. per minute velocity warmed or cooled to the lab's needs.

The seventh floor, the large open gallery, serves as a giant baffle plate to prevent air and fumes from the roof's exhaust vents from entering the fresh air inlets located in the gallery. Refrigeration units, electrical service panels and emergency diesel generator are in the basement.

All these features characterize the structure to be formally dedicated tomorrow afternoon, in the auditorium. President Case will officiate; Dr. Leicester Potter, MMH chaplain will deliver the invocation; Mayer Collins, Dr. James Shannon, Director of the NIH, Dr. Roland P. Wilder, president of the School of Medicine Alumni Assoc., and Dr. Keefer will speak. Dr. Shields Warren, Chairman of the university's board of trustees will formally present the building to Dr. Soutter. It will be a memorable presentation.

Floor Plan: chief features

- Basement...400 ton air conditioning unit...iron room...
fluoroscopy room, future 250 kv room
- 1...arthritis research lab, pathology, chemistry histo-chemistry and bacteriology labs.
- 2...special animal surgery labs, constant temperature areas, chromatography lab, radioisotope labs
- 3...steroid and immunochemistry labs, cancer biochemistry
- 4...neuropharmacology lab.
- 5...virus lab, graduate research lab, clinical research lab
- 6...animal colonies
- 7...penthouse

Special - Dr. Stanley Cobb, Bullard Professor Emeritus of neuropathology, Harvard will speak Friday on "Research in Psychiatry".

Dr. Vannevar Bush, Honorary Chairman of the MIT corporation, may attend dedication.

Dr. Ronald W. Adams, George Garcia, Dr. John Strieder and Dr. Richard Rosen will speak at the Banquet.

Calendar: Dr. Michael Luongo, Medical Examiner Suffolk County will address the Annual Smoker of Phi Delta Epsilon, Nov. 3, 8:00 P.M., Penthouse of the MIT Faculty Club.

Architectural notes: The exterior design is simple in keeping with modern concepts and the budget limitation. Blue glazed brick was chosen to match the limestone columns. The windows are sealed permitting installation flush with the brick exterior, giving the facade a flat appearance, atop the penthouse are aluminum screened cooling towers, which will be relocated when additional stories are added. The penthouse floor will remain open although additions are made. Architecturally, the unique features are the internal circulating air systems, the 9 inch thick iron room, and the flexible lab areas. There are only two or three low radiation iron rooms in the country.