A gamma ray telescope designed and built by two MIT professors went into orbit April 27. Dr. George W. Clark and Dr. William L. Kraushaar, both associate professors of physics, conceived and constructed the unique space probe. Designated S-15, the satellite was fired from the missile base at Cape Canaveral, Florida, by the National Aeronautics and Space Administration. Both scientists were present at the launching. According to Dr. Kraushaar, "the satellite is performing very well. Data is as good as we could hope for."

**Undeformed Tech Crew Beats Yale Varsity; Harvard Edges Lights**

By Sandy Wagner '61

Rapidly emerging as a strong power in national rowing circles, the MIT crew added to the eights placed on them by outstanding performances, against Yale on the Housatonic River in Connecticut and against Harvard and Dartmouth here on the Charles.

In Saturday's races the Tech varsity rowed a fine race as they took the Win in a dual race at New Haven by the convincing margin of 21/2 lengths, and in Cambridge the lightweight varsity came within five feet of upsetting the Harvard eight, while leaving Dartmouth in the rear.

In other races on the Yale waters, the Eli freshman and junior varsity crews both won races against the Beaver contingent in two clear contests in which the winning margins were just a half length and a length, respectively.

**Two Lightweight Wins**

On the Charles, MIT picked up victories in two preliminary races as the second freshmen and third varsity shells won their races for the second week in a row. Tech's only undefeated lightweight eights easily conquered Harvard and Dartmouth. In later races the freshman crew of Gary Zwart lost

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**700 STUDENTS IN RIOTS**

Clark, Kraushaar Satellite Aloft

By Jeff Travers '64

A gamma ray telescope designed and built by two MIT professors went into orbit April 27. Dr. George W. Clark and Dr. William L. Kraushaar, both associate professors of physics, conceived and constructed the unique space probe. Designated S-15, the satellite was fired from the missile base at Cape Canaveral, Florida, by the National Aeronautics and Space Administration. Both scientists were present at the launching. According to Dr. Kraushaar, "the satellite is performing very well. Data is as good as we could hope for."

A Juno II rocket boosted the 82-pound payload into orbit. The slim, cylindrical S-15 rumbles end over end as it travels through space. Estimates on the lifetime of the satellite vary widely, but it will be in orbit several years at least. According to a description of S-15 prepared by the NASA, a lifetime of one year will be sufficient to accomplish the objectives of Kraushaar and Clark's experiment.

According to Dr. Kraushaar, the telescope will measure the spatial distribution of gamma rays, from which it is possible to deduce the distribution of matter and cosmic rays in space. Our galaxy is a disk 100,000 light-years in thickness, containing gas molecules and dust particles, as well as large bodies such as stars and planets. Collision of cosmic rays with gas or dust particles produces unstable neutral pion-one. These pions rapidly form pairs of gamma rays. Unlike cosmic rays, gamma rays travel in straight lines, unaffected by magnetic fields. High energy gamma radiation is picked up by the Kraushaar-Clark probe.

Basically the device is a sandwich of crystal layers which convert gamma rays into electrical signals. The instrument contains a detector which converts gamma rays to electron pairs. These cause the crystals to scintillate, registering on a photomultiplier. The

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MIT's Director of Admission, Prof. B. Alden Thresher, will retire from his present position as of June 30, 1961, at the age of 65.

To date, no announcement has been officially made by the Administration as to who Thresher's successor will be.

Thresher was born in Dayton, Ohio, in 1896. He was educated at the Hotchkiss School, M.T.T. (S. B., 1920), and Harvard (A. M., 1928).

During World War II, Thresher served as a Special Consultant in the Office of Field Services, where he aided in procurement of scientific and technical specialists for the armed forces. He received a certificate of appreciation for this service.

He was Chairman of the College Entrance Examination Board for the years 1958-1959, and has served on many of its committees and its Board of Trustees in past years.

Producer Thresher is married to the former Irene Kattolwen, who is presently a State Senator in the Massachusetts Legislature.

This month marks the opening of new parking building and the new student building. The building will be open to the public on Monday.

Monday night several hundred students from MIT and Boston University congregated about the State House to protest Fidel Castro's visit to the United States. The incident was followed by a disjoined series of disturbances in Cambridge, including a demonstration on Harvard Square. Metropolitan Police claimed that the riot took approximately 30 MIT students, including two freshmen, into custody. None were booked, however. The incident began at 7:30 p.m. when a relatively small group of 50-60 people on the front of Beta Theta Pi fraternity at 119 Bay State Road. An effigy of Castro, clad in an ROTC uniform and impaled on a bayonet, was placed on Beta flagpole. The milling crowd chanted "Fidel, Castro No!"

At 8 p.m., police moved in, arrested the effigy, and dispersed the crowd.

MIT's Student House became the focus of police action when several persons were arrested in the basement and on the roof. Joseph Wright '61, a student, was arrested here on the roof. Wright's own words: "I came to the frat house with a group of friends, and the police pulled me out. I asked to talk to Wright." Wright was punched in the stomach and warned to "knock the wind out of him" and was carried off in the back of a three-paddy wagon. The student house wasuggestions of police action when several persons were arrested in the basement and on the roof. Joseph Wright '61, a student, was arrested here on the roof. Wright's own words: "I came to the frat house with a group of friends, and the police pulled me out. I asked to talk to Wright." Wright was punched in the stomach and warned to "knock the wind out of him" and was carried off in the back of a three-paddy wagon.

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(Plans to run on page 2)

At approximately 8 p.m., a large hole in the building was forced, presumably by BU students, around 8:30. As a result, two windows were broken, presumably to extinguish the small blaze.

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Monday Marks Opening Of New Parking Building

Next Monday morning the gate will open on the new parking building in East Campus. The five story structure will accommodate about 400 cars, but an East Campus parking lot sticker will be required for admission.

The circular ramp at one end of the building will permit users to enter and leave with a minimum of conflict, while 8% foot parking lots will provide ample room to maneuver. The facilities of the basement and the traffic flow pattern will be temporary until the Parking Committee determines public reaction to the present system.

Soon after the building is put into operation, a counting apparatus is to be installed at the entrance. The purpose is to keep track of the building's occupancy.

The parking space in the new building is constructed.