Sloan Dedicates Lab Thursday;
Killian, Bennett Attend Rites

"The Alfred P. Sloan Laboratory of Mathematics and Physics is one of the best gifts the Institute can ever receive," said Dr. Albert B. Backer, chairman of the Corporation of the Institute. Dr. Backer was the speaker guest of honor at the dedication of the new laboratory Thursday (November 30), at 7:30 p.m. Drs. James R. Killian, chairman of the Board of Trustees of the Institute, and Alfred P. Sloan, president of the Institute, were the speaker guests at Thursday's dedication.

At the dedication of the electronic accelerator and the Sloan Laboratory of Mathematics and Physics, Dr. Backer, Rear Admiral Rawson Bennett II, chief of naval research; Dr. James R. Killian, and Alfred P. Sloan, president of the Alfred P. Sloan Foundation.

Shaked Speaks

Tech, MIT Heads Miss Student Feelings

"Science and Foreign Affairs" was the topic of Dr. James R. Killian's talk in the lecture of the Carnegie series. He spoke at Caltech's Hald on Wednesday, November 30, at 7:30 p.m. Killian is Chairman of the Corporation of M.I.T. and recently retired from the position of Special Adviser to the President for Science and Technology, which was created especially for him.

The national goals and international aims of the United States first met Killian's scrutiny: "The overriding aim of our society is the achievement of a less dangerous world." Naturally, as the basis of our foreign policy he named military strength, and he emphasized this power as a deterrent to war (in the interest of a "less dangerous world"). To coordinate such great projects as those of defensive systems, we need many trained and dedicated project engineers. Several times during his speech, Killian stressed the growing demand for these men of decision.

This call upon education, if undertaken and followed, will be widely recognized in scientific circles. But Killian believes that a more pressing, and less stressed, demand upon scientific education is to prepare men to carry its culture into the field of government, and especially, of foreign policy.

At this point Killian reached an emotional peak as he deployed the personal and national advantage of a social, cultural, and economic incentive to attract talent. He also favored the stimulation of our educational system toward the training of these scientists for administration and the foreign service.

As a step toward this cross-roads of science, technology, and international affairs, Killian proposed 11 points, including the establishment of an independent, fully licensed Presidential commission, composed of scientists and technicians, and empowered to direct research in and determine the national policy of arms control.

"The Laboratory is one more Dr. Killian emphasized our intellectual and scientific leadership as the securest of national power and world authority.

Katzenbach Eyes Control Problems

Edward L. Katenback will lecture on "Control and Command Problems," at 1 p.m. today, in 109 Kerckhof. Katzenbach is a member of Air Research and Development Command, U.S. Air Force.

Dr. George Mayhew, Caltech English professor and personal friend of Katzenbach, described him as a "historian with administrative experience." Katzenback was quoted as saying that military control of scientific personnel will be important in the coming military organization in the research world.

Haye was graduated at Harvard, and is Director of Harvard's Defense Study Program before going to work for the Air Force.

Picture here are part of the 30 couples that attended the annual ASUCC Christmas dance in Baldwin Hall Lounge.
Letters

Institute Is No Help In Guarding Student Autos

Editor, California Tech:

It is my opinion that a very serious and important problem on this campus has too long gone unattended and has caused huge losses to the owners. This is the problem of theft and vandalism to student autono.

The problem is so serious that Hertenstein, who is head of the Physical Plant, and directly in charge of student parking, stated that, although he did not know of the ASCIT resolution, the most he could do is to double the campus guards' route, and were checked on foot every hour. In the view of the seriousness of the problem, we are of the opinion that he would immediately double the frequency of guard inspection to every 30 minutes.

Observation three nights later revealed something less than promised by Mr. Hertenstein. The guard appeared in T.P. at 2:15 a.m. and at 4:30 a.m., both times in a car. In the first check, the guard gave ample warning to would-be-thieves, not only by headlights, but also by parking in front of, and inspecting the lot for a full five minutes before leaving through the student lot. At 4:30, the guard did not even enter the student lot, and, when interrogated, turned out the spotlight on the gym, displacing the northwest corner of the lot with the gym!

It is a well-known fact that where lighting increases, crime decreases. The lot is about 15 per cent illuminated by a single mercury vapor lamp. The same is true of the nearby Keck parking lot, which is perhaps 20 per cent of the lot receiving significant lighting.

Other lighting is available in other areas of T.P. and the Keck lot. In fact, the T.P. lots are roughly 100-125 parking stalls in all of T.P. and Keck which receive 85% of the illumination from existing installations.

The Pasadena Police Department has been contacted in near-by areas of the campus, and is high-

V A R S I T Y S E C O N D , F R O S H T H R D

In Conference Harrier Meet

Occidental didn’t scare very easily Saturday as they took their 9th SCIAC cross-country championship with a 21-point win over the Claremont (2nd, 3rd, 4th, 5th, and 7th) team total, leaving Caltech (the only other team to place more than one runner in the top ten) a strong but disheartened second. Remaining teams were Whittier, 88; CHM, 90; Pomona, 111; and Redlands, 133.

Claremont’s Ed Laughton, winner in 25:10 of a three course over four miles of hilly Whittier countryside, was the only non-Oxy runner to beat Pat Barlow, who took sixth place for Tech in 25:57. This was identical to Dick Tuft’s finish in the 1959 conference meet.

Also scoring for Tech were Richard Harris, 10th in 24:28; Marshall Johnson, 17th; Art McGarr, 21st; and Bill Glmaee, 25th, in a field of 38 runners.

In the freshman race of the same day Tech belted their 2-2 dual meet record by taking third place behind Oxy and Whittier over the three-mile course. Newl-

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This airplane is actually a flying classroom. The course taught in it is Air Navigation, under real conditions. The students are young men who have been selected as possible future leaders of the Aerospace Space Program. Graduation after 32 weeks of training will win each of the students the honored silver wings of an Air Force Navigator and an Officer’s Commission.

For certain young men, this training can open the way to a bright career of executive potential. Right now the Air Force is scoring impressive technological advancements in the fields of navigation, guidance and tracking, electronics and radar. And here is where he is training to be a navigator or an officer of the United States Armed Forces.

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Marking another Milestone

Rich in history and rich in promise, too—that's York County, Pennsylvania. And the telephone company covering this prosperous and progressive community has recently become a member of the General Telephone family.

York's pattern of growth is typical of the areas Gen Tel serves in 31 states. Long famous for its fertile fields and well-kept farms, the county has enjoyed a remarkable industrial expansion since World War II.

Typical, too, of these growing areas is their growing need for more telephones. And that is where Gen Tel comes in with the experience to provide improved service and the willingness to invest in modern communications equipment.

This is just one of the ways we are working to supply more and better telephone service for a growing America—present and future.

GENERAL TELEPHONE & ELECTRONICS

DECK THE HALLS

The time has come to make out our Christmas shopping lists, for Christmas will be upon us quicker than you can say Jack Robinson. (Have you ever wondered, incidentally, about the origin of this interesting phrase “Quicker than you can say Jack Robinson”?) Well sir, the original phrase was French—“Plus vite que de dire Jacques Robespierre.”

Jack Robinson is, as everyone knows, an anglicization of Jacques Robespierre who was, as everyone knows, the famous figure from the French Revolution who, as everyone knows, got murdered in his bath by Danton, Mirza, Caliga, and Aaro Burr.

(The reason people started saying “Quicker than you can say Jacques Robespierre” (or Jack Robinson as he is called in English-speaking countries) is quite an interesting little story. It seems that Robespierre's wife, Georges Sand, got word of the plot to murder her husband in his bath. All she had to do was save his life was call his name and warn him. But, alas, quicker than she could say Jacques Robespierre, she received a telegram from her old friend Frederic Chopin who was down in Majorca setting lyrics to his immortal “Warsaw Concerto.”

Chopin said he needed Georges Sand's help desperately because he could not find a rhyme for “Warsaw.” Naturally, Georges Sand could not refuse such an urgent request.

(Will sir, Georges Sand went tramping off to Majorca, but before she left she told her little daughter Walter that some bad men were coming to murder daddy in his bath, and she instructed Walter to shout Robespierre's name when the bad men arrived. But Walter, also, had been we-bathing that morning on the Riviera, and she had come home loaded with sea shells and salt water taffy, and when the bad men came to murder Robespierre, Walter, alas, was chewing a big wad of salt water taffy and could not get her mouth open in time to shout a warning. Robespierre, alas, was murdered quicker than you could shout Jacques Robespierre (or Jack Robinson as he is called in the English-speaking countries).

There is, I am pleased to report, one small note of cheer in all this grisly tale. When Georges Sand got to Majorca where Chopin was setting lyrics to his immortal “Warsaw Concerto,” she was happily able to help him find a rhyme for “Warsaw,” as everyone knows who has heard those haunting lyrics:

“In the fair town of Warsaw,
Which Napoleon's hame saw,
Singing cockles and woulds, nine alive of—"

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The rich texturing of fine oxford, the skillful tailoring give the assurance of being well-dressed. Case in point: the Arrow Tabber, the authentic British type improved with self-snap tabs. Your wardrobe is incomplete without this Arrow shirt. $5.00 cum laude collection by ARROW

But I digress.

We were speaking of Christmas gifts. What we all strive to do at Christmas is, of course, to find unusual, offbeat, different gifts for our friends. May I suggest then a carton of Marlboro Cigarettes?

What? You are astounded? You had not thought of Marlboro as unusual, offbeat, different? You had regarded them as familiar, reliable smokes whose excellence varied not one jot or little from year to year?

True. But at the same time, Marlboros are unusual, offbeat, different, because every time you try one, it’s like the first time. The flavor never runs, never gets luke-warm. Each Marlboro is a fresh delight, a pristine pleasure, and if you want all your friends to clap their hands and exclaim, “Yes, Virginia, there is a Santa Claus!” you will put them at the very top of your Christmas list.

And for further Yuletide joy, give Marlboro's nonfiltered companion cigarette, mild, flavorful Philip Morris—the regular size or the sensational new king-size Commander. You'll be welcome aboard!
Solid opportunities with solid state devices

A recent addition to the EE curriculum is a new course in solid state devices. Since the number of students taking the course has tripled, EE has had to add more laboratory space to handle the increased enrollment. Significantly, the number of EE's majoring in solid state devices has also increased.

Western Electric is training university EE's, including Bell Telephone Laboratories. 397 EE's are now working at Western Electric's Allentown and Laureldale, Pa. plants. Some of these EE's are doing research for Bell Telephone Laboratories, the remainder in Western Electric's own research and development laboratories and plants.

These new developments have been a direct result of the "National Plan," a new emphasis on the nation's scientific needs. Western Electric is now spending more money on research than ever before. And the number of EE's working in Western Electric is increasing day by day, making this a great time to join this growing field.

Today, solid state devices are widely used in the electronic arts. While you study EE at Caltech, you will have the opportunity to participate in the design of new solid state devices. You will also have the chance to plan new methods of mass production. In addition, you will be able to work with highly trained scientists in our research laboratories in a variety of fields.

The EE curriculum at Caltech is designed to give you a solid foundation in the basic sciences. In a recent survey, 95% of Caltech's EE's expressed satisfaction with their training. They also said they were well-prepared for challenging careers in industry.

Western Electric's job is to manufacture the miniature radio tubes that make possible modern communications. And it's up to the EE's to design the electronic circuits for these tubes. You can help in this exciting field by joining Western Electric.

Caltech's EE curriculum offers you the opportunity to become a solid state device expert. You will learn how to design and manufacture these devices, as well as how to use them in a variety of applications. In addition, you will be able to work with some of the most highly trained scientists in the world.

Our EE graduates are in high demand. They are working in the electronic arts, in industry, and in government laboratories. And many of them are working in research and development laboratories, developing new products and methods of mass production.

If you are interested in working with solid state devices, there is no better place to start than with Western Electric. We offer a unique opportunity to work with a group of highly trained scientists in a variety of fields. And our EE's are well-prepared for challenging careers in industry.

If you are interested in learning more about Western Electric, drop by our offices at Bell Telephone Laboratories, 1101 Stewart Ave., Ithaca, N.Y. or write to our Placement Office, 1101 Stewart Ave., Ithaca, N.Y. 14850.