MIT Contacts Venus With Radar; Stratton and Eisenhower Faint Heat

David Villemurien '63

MIT's Lincoln Laboratory has contacted the planet Venus by radar. The examination of Earth's nearest neighbor planet is man's first success in such a try, according to G. Rex Stout, the associate director of the Lincoln Laboratory, who released the news as "the kind of thing for which we are educating." He went on to say, "It is a magnificent achievement; the reward of a vast amount of experience compiled by MIT from the days of the Radiation Lab in World War II and since. This is in keeping with our mission; it is really an advance in the frontiers of science."

The Cecil Pratesi

President Eisenhower cabled the Lincoln Laboratory to all (involved for this notable achievement in our peaceful ventures into outer space.

In the super-powered research radar at Millstone Hill was the instrument that accomplished the electronic feat on February 19 and 12 of last year. This radar "shot" was over a hundred times greater than the previous distance covered for radar.

Five Minutes to Venus and Back

The radar pulsing at the velocity of light took 20,565 seconds to travel to Venus and back. This gives an accurate measurement of the Earth-Venus distance slightly smaller than the astronomers had estimated.

Dr. Robert Price, head of the research team, said that only the "craziest" kind of information about the Morning Star's surface could be received. With such sensitive equipment, a better description could have been made for Venus itself.

"We have found a permanent cloud layer which is reflective but diffuse over the entire planet, and we have made attempts to learn about its surface."

Already, however, it is known that Venus is a "hot" planet, and the light reflecting yellow color suggests the planet may be hot, even though it could indicate a liquid covering.

Signal Buried Deep

A highly sophisticated technique was devised to evaluate the 19-watt signal that was "echoed" from the 50-kw kilowatt pulses sent out by the station.

The tiny return signal was buried under a "rush" of noise created by the "radio receiver's" devises, the MASON (Metropolitan Area Sensing) Enhanced Radar (MSER) amplified the signal with little noise. Even then it took months of analysis with the aid of digital computers to isolate the return signal.

Eight On Team

The research team was headed by Dr. Robert Price and Dr. Paul E. Kirtley, both of MIT, and 16 others of their achievement as part of the expanding art of radio astronomy.

Dr. Paul E. Kirtley, who contacted the nearest neighbor of Earth was chosen Director of Institute Science—Dr. John Gintell. Dr. John Gintell was the only candidate. However, the election for this position was made January 30 (Continued on page 3)

The Tech
NEWSPAPER OF THE UNDERGRADUATES OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Volume LXXIX, No. 11
Cambridge, Massachusetts, Tuesday, March 24, 1959

5 CENTS

In Case of Fire

The fire alarm on the 2nd floor of the Baker House, which had been in use for 100 years, had been put out of service by a fire alarm company. There were 500,000 dollars worth of equipment in the Baker House that was damaged.

Mars Next

The Robert A. Boit prizes are open to all undergraduates at MIT. The Boit Essay prize offers $75, the Boit Fellowship (FSP) $75, and the Boit Prize for Imaginative Writing $75.

Theme to Win Money Awards

Undergraduates will have a chance to win up to $800 in prizes in a writing contest sponsored by the Humanities department.

The Boit Prize is open to all undergraduates at MIT. The Boit Essay prize offers $75, the Boit Fellowship (FSP) $75, and the Boit Prize for Imaginative Writing $75.

Applications for the April 30 deadline for the Boit Essay Prize will be accepted through the Humanities Department.

Five-Story Garage To Cut Institute Parking Problem

Suzanne Bus Concluded

The committee recommended that student space be made available for a telephone booth system between the Institute and the business district. The areas are centers where a shuttle bus system is needed, and high and public transportation service is inadequate.

Committee Cites Reasons

Mr. J. E. Kehl, Executive Assistant to the President, said that if the recommendation is followed for the construction of the telephone parking space at 5 a.m., four cars could thus be parked on the same land area occupied by one car on an open lot; b) other activities will be required to demand all present Institute land; c) acquiring and developing land for open lot parking would approach twice the cost per car of a structure located

With this issue THE TECH suspends publication until Friday, April 19, and the Spring Carnival program and the annual appearance of the Insta-box, the crusading, the fighting, the yellow BOSTON DAILY RECORD. Learn this: you never knew things you never thought of, scandal stories, murders, and even the phone when the REAMER appears Monday, April 4.

Spring Sparks Students

Ed Underliner, '63

The busy numbers of last Friday and Saturday ushered in the off peak season for college cars across the world. Party, party was the cry as the scientists of tomorrow showed themselves in telephone booths, showed the dancing crowd, and held open bar fights with Hi-Fi sets.

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Fraternities and Feelings

The seminarians’ “Day of Beckoning” has again come. The whole day is set aside for the fall term’s initiation ceremonies.

The fraternity man, in particular, takes a longer look at the myriad of names and point averages that does the average student. On the surface these differences are as great as any important part in his group’s rushing program; and nothing is as important to a fraternity as its self-perpetuation.

There is, however, another significant and extremely important aspect of the greek system. We believe that, for the most part, the things which we do are a very good attribute of the fraternity. It shows something of the stochastic character of the house. We are all here for an education. That comes first. A fraternity shouldn’t shirk away from that in its education. Its influence should add other non-academic dimensions to life at MIT. In doing this, however, it should not in any way be dealt with—indeed it should make use of—what amounts to a very limited “classical” formalism.

What we can hope to do is to open up a dialogue with the academic world—by no means perfect; but much better than nothing at all.
Open House Comm. To Outline Plans

The MIT Open House Committee will meet next week to outline its objectives and plans, and to formulate ideas for this year's May 2 observance of the Heavenly opening of the Institute to the public.

The meeting will include all department representatives and heads of the student honorary societies and service groups in the respective courses.

Letters have been sent to all activities asking what plans they are making for the event, which is expected to attract 20,000 people, including local high school students, local legislators, and the general public.

PARKING COMM.

(Continued from page 1)

Institute land; d) vertical arrangements would allow more people to pack close to the main buildings."

FEES DEFENDED

The parking committee gave the following reasons for the move. a) The Institute has substituted the present parking process at the cost of other important activities more directly linked to its purpose of education and research. b) the expense of any possible loop range solution to the parking problem is as prohibitive that it will only be paid for by the expense of curtailing the academic program budget. c) Many other urban schools are charging parking fees. d) a parking for might cause people who had marginal spots, i.e., void space along the public transportation, to drop from the list of permit holders, reducing demand for space.

PLAYBOY OFFERS DREAM DESIGN FOR NEW WEST-CAMPUS DORM

An up-side-down penthouse, low-temperature devices, and a high-speed cutting machine will be featured at the Mechanical Engineering Department's Freshman Dinner.

The dinner at the Faculty Club Tuesday evening, April 14, will acquaint freshmen with the advantages of choosing mechanical engineering as a vocation.

Dr. John C. Fisher, General Electric Research Laboratory, and Dean H. O. Senior, School of Engineering, will describe the field from a professional viewpoint. Professor J. R. Keenan, head of the department, will then answer any questions that the freshmen might have.

Invitations will be mailed to the entire Freshman Class by April 6.

VENUS RADAR

(Continued from page 1)

Venus experiments will be reported.

The accuracy of the Venus experiment is emphasized by the closeness of the theoretical predictions of the earth's location to its actual position after traveling the 56 million miles after leaving from a moving target back to Earth.

In Carl Overhage, director of Lincoln Labs, emphasized that the radar image can contribute a unique "step in the problem that has been breathing new air since he looked at the heavens."

Radar can change the present astronomical estimates into accurate values.

ME Dept. Shows Modern Devices At Frosty Dinner

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PLAYBOY WEEKEND MID-WAY, as featured in the spectacular April issue, is a perfect place to study the latest spring vacation, summer vacation, and post-graduation. This ideal layout for a bachelor's dormitory comprises separate but integrated owner-vacationer in the living room, with glass walls facing lake and pool (there is continuous with poolside); at left is master's wing, two steps up from the living room, with glass wall overlooking pool, private patio and bath; at right is master's wing, providing sleeping and dining area, overlooking area with glass walls facing lake and pool; in the dark den overlooking the water. Cost is not mentioned, but PLAYBOY does provide a handy do-it-yourself guide.
Do You Think for Yourself?  

**TAKE THIS TEST AND FIND OUT!**

1. Does it bother you to admit that you haven't read a very popular book?  
   YES [ ]  NO [ ]

2. Do you think there are degrees of cheating in a game or examination?  
   YES [ ]  NO [ ]

3. Are there certain foods you feel sure you'd dislike without ever trying them?  
   YES [ ]  NO [ ]

4. Would you be seriously concerned to read in your horoscope that catastrophe would fall upon you tomorrow?  
   YES [ ]  NO [ ]

5. Do you often fall short of cash several days before your pay or allowance is scheduled to come through?  
   YES [ ]  NO [ ]

6. When you're driving, do you like to be first getting away from a stop light about to change?  
   YES [ ]  NO [ ]

7. Would you be reluctant to learn a new sport in the presence of friends who were experts?  
   YES [ ]  NO [ ]

8. Have you found it to be personally true that "a man's best friend is his dog"?  
   YES [ ]  NO [ ]

9. Do you believe your choice of a filter cigarette should be based on hearsay?  
   YES [ ]  NO [ ]

If you're the kind of person who thinks for yourself, then choosing a cigarette will be based on a careful study of the facts—not on quick decisions.

Men and women who think for themselves usually smoke VICEROY. Their good judgment tells them there's only one cigarette with a thinking man's filter and a smoking man's taste. And that cigarette is VICEROY.

*If you've answered "NO" to eight out of the nine questions above, you really think for yourself!*

ONLY VICEROY HAS A THINKING MAN'S FILTER... A SMOKING MAN'S TASTE!
A Winning Ingredient

During the past few weeks, practices have begun for the spring interscholastic teams at MIT. Some of these squads will have winning seasons, while others will endure mediocrity or even failure. The reason for their success or lack of it will be the material available, equipment, strength, luck, etc. In this last mentioned category, even something more indefinite—the desire to win.

This strong desire is shown by regular attendance at practices and hustling the field, whether in practice or competition. Every individual who comes so far is a freshman or sophomore and should possess the competitive spirit, otherwise he is a detriment to the team of which he is a part. If his other extracurricular activities are next to impossible, he should try out, knowing he can't give his best.
Tareyton

NEW DUAL FILTER

Tareyton

HOW THAT RING GETS AROUND!

Here's why Tareyton's Dual Filter Technology Coop... the REAL THING IN MILDNESS... the REAL THING IN FINE TOBACCO TASTE!

Lesson for today: In a few short months, New Dual Filter Tareytons have become a big favorite on U.S. campuses. For further reference, see your campus smoke shop.

We don't mean just at exam time, either. The comfort-conscious guy can tell at a glance that these smart Arrow shirts make warm weather a breeze. The medium-spread collar and fresh patterns are just right, alone or with a casual jacket. Arrow sports shirts come in a variety of fine patterns, priced from $4.00 up.

Obviously, he makes the grade A4RIR~I O

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TUESDAY, MARCH 24, 1959

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