

The Tech



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VOL. LXXVII NO. 14

CAMBRIDGE, MASSACHUSETTS, TUESDAY, APRIL 9, 1957

5 CENTS

Leading Scientists Praise Killian As Possible Next Defense Secretary

President Killian has drawn unqualified praise but no outright endorsement, from leading scientists in the government, as a possible successor to Secretary of Defense Charles E. Wilson.

A recent newspaper article reported that a group of scientist-advisors to President Eisenhower had proposed Dr. Killian for the post to the President.

Dr. Killian denied the report, calling it "complete news to me."

One source indicated to *The Tech* that the scientist group was the Science Advisory Committee of the Office of Defense Mobilization, of which Dr. Killian is vice-chairman. Members of the committee include Prof. Jerrold Zacharias, and Visiting Institute Professors I. I. Rabi, and Edwin H. Land.

Dr. Land said, "Until it appeared in the papers, I had no personal knowledge of the situation." He added that, "Dr. Killian is most suitable for the position." "But," he said, "the Committee has made no formal attempt to promote Dr. Killian."

Although Secretary Wilson has not announced a decision to resign from his post, there have been many indications to that effect. The most oft-mentioned possible successor to Mr. Wilson has been former Secretary of the Air Force, Donald A. Quarles, who, last week, was named to the second-ranking position in the Defense Department.

Another scientist and Washington veteran who was considered a possible Killian booster, Dr. Vannevar Bush, Chairman of the MIT Corporation, emphatically declined to comment.

Chancellor Julius A. Stratton, the second-ranking Administration official, while not shedding any light on the possibility of Dr. Killian's Cabinet appointment, paid tribute to his "indefatigable dedication" and "great administrative ability."

"Dr. Killian," he said, "enjoys the confidence and the esteem of President Eisenhower."

As President, Dr. Stratton said, "he has done more for the Institute than any one can know." "In the government," said the Chancellor, "he is a superb group spokesman, able to represent the scientists and engineers without actually being one of them . . . he has a profound understanding of the whole defense picture."

In addition to the Science Advisory Committee, Dr. Killian is a member of the Army Scientific Advisory Panel (Chairman 1951-1956) and of the Board of Trustees of the Institute for Defense Analysis. In 1956 he was appointed by President Eisenhower to be Chairman of the President's Board of Consultants on Foreign Intelligence Activities.

He has been President of the Institute since 1949.

Observers privately conceded Dr. Killian only an outside chance of getting Mr. Wilson's job. The only strike they could offer against Mr. Quarles is the fact that Gen. Twining, an Air Force man, has been named Chairman of the Joint Chiefs of Staff and Quarles' appointment would give the Air Force a sweep of the top military and civilian posts. However, it was felt that President Eisenhower has not yet reached a decision—thus, "anything may happen."



President Killian, recently suggested for next Secretary of Defense.

Game Shapes Up

Killian To Ref Faculty Game

by F. Thomas Bond '58

It's Humanities and Science vs. Engineering and Administration in the big intrafaculty basketball game to be played next Saturday night as part of the All Tech Twin Bill. Because of the bitterness between the two teams, an "impartial" referee, James R. Killian, better known for his factory management, has been contracted to keep the teams at fighting distance. Other officials who will be present though they desire not to "run up and down that damn court", include Deans Rule and Fassett, Chancellor Stratton, Director of Admissions B. Alden Thresher, and MS department head, Col. Charles McAfee. As reported elsewhere, the Faculty game will be followed by the intramural All Star-varsity game.

21 Stars To Compete

Because of the severe nature of the Faculty conflict, both teams have been hard at work recruiting players with the result that 21 fine physical specimens have agreed to partake in the evening's festivities. As reported in Friday's *The Tech*, the Humanities-Science team is headed by such veterans as Professor Ingard, Stockmayer, Bartlett, Prouty, Frisch, and

Mahoney. To this impressive array six more names have been recently added, topped by that great scientist, military science, that is, Major Robbins. Though known throughout the Institute as the volleyball king, Major Robbins has agreed to try and spike a few baskets on Saturday.

Known as a man of iron in the Metallurgy Department, Prof. Nicholas Grant will be another stronghold for the S-H team. An ex-All Star, Prof. Grant will stake his great reputation on the scientists. Another physicist, Asst. Prof. D. O. Caldwell will be out to disprove the old adage that you can't teach an old dog new tricks. A deadly shot, he must be considered high on the list for possible outstanding player awards.

Rounding out the Science-Humanities team are two Browns, proving the point that if you want to brown, Saturday's the time for it. In this case it's Sanborn Brown from Course VIII and Gene Brown from Course III. Both of these men are known for their basketball ability (or lack of it) and will add further attractions to the night's fracas.

Rents To Soar In Defeat

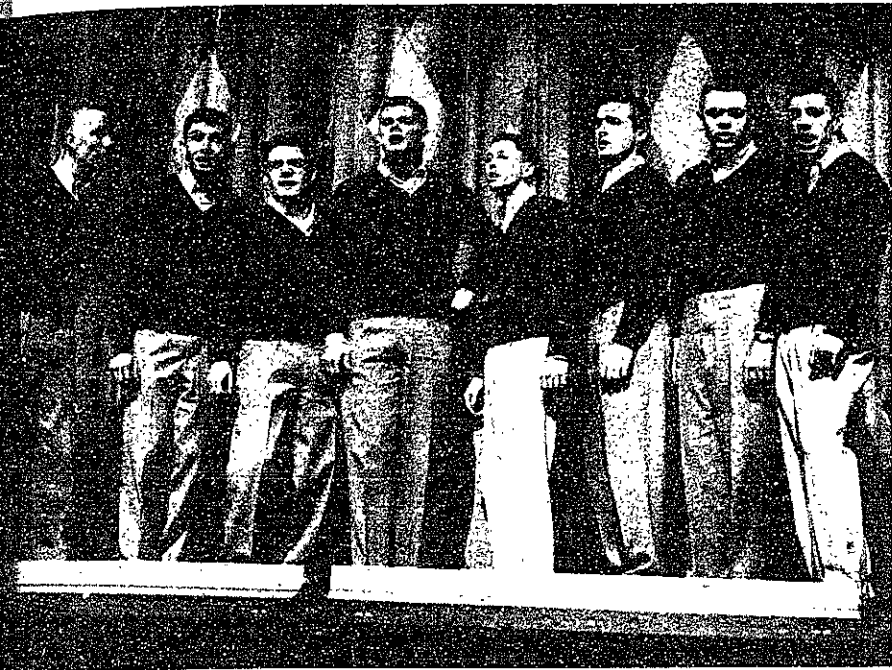
After realizing last Friday that only three die-hard engineer-administrators had signed up, this nucleus of Dean Holden, Prof. Miller, and John "The Stilt" Murphy set about to straighten out the matter in record time. Added to the squad as a true bonus baby was Treasurer Joe Snyder who promises that if the faculty drops this game their rents will go sky high. With money now no object in their path, the rest of the recruiting was far easier.

For that extra height, the Engi-
(Continued on page 3)

Frosh Break Even On Yearly Dance, Sat.

For the first time in modern recorded history, the freshman class managed to break even on its annual dance. Approximately 135 couples attended the dance in the Starlight Room of the Sherry Biltmore Hotel Saturday night. Bob Lienhard '60, president of the freshman class, said that everyone who attended was very gratified with the dance.

The evening was highlighted by Marlene Rheingold from Brookline who sang several songs with the orchestra late in the evening.



The Phi Gamma Delta octet, winners of the All-Tech Sing, during their final number, "He." From left are: Bob Root, Chuck Ingraham, Bob Williamson, Chuck Vicary, Joe Hendren, Eric Allen, John Stevenson and Norm Dorf.

PhiGam Wins All Tech Sing; Burton House Takes Egbert

The Phi Gamma Delta octet, directed by Chuck Ingraham '58, took top honors in this year's All Tech Sing competition, held last Saturday night, April 6, in Kresge Auditorium. Other winning groups in the contest, sponsored by the MIT Baton Society, were Beta Theta Pi's quartet, directed by Jim Rowan '57, which took second place, and Sigma Phi Epsilon's octet, led by Jerry M. Flower, which took third, Burton House won the "Egbert" award for good showmanship.

An audience estimated at three hundred persons laughed at the dry humor of M. C. Prof. William C. Greene, Professor of Humanities and heard performances by a total of seven choral groups. Sigma Nu's quartet, "The Techoes", led off the program, followed by Sigma Phi Epsilon and the Fijis. After a brief intermission Burton House revived the proceedings and were followed in order by Beta Theta Pi, Phi Delta Theta, and Sigma Alpha Epsilon.

In the winning Fiji lineup, Bob Root '57 and Norm Dorf '60 sang bass, Chuck Vicary '58 and Joe Hendren '59 baritone, Ingraham and John Stevenson '60 sang lead, and Eric Allen '60 and Bob Williamson '59 tenor.

When asked, director Ingraham said that "not many" of the group had had singing experience prior to entering MIT, and that they attributed their victory to the numerous appearances which they make each year at various local schools, since this is a good way to keep in practice. The winning numbers were "Rural Rhythm", "Ballin' the Jack", and "He". The Fijis have entered the Sing competition each year since 1954, and took third place in that year's contest, while the following year they placed second.

Burton Recaptures Egbert

This year marks the second time that Burton House has received the "Egbert", which chorus director Tom Kudzma, a graduate student, described as "An award for the most impressive presentation, or the best showmanship". In 1955, the first year of their competition, Burton won the "Egbert" also. It was the pair of elk antlers which are now hanging in the Burton Lounge. This year's "Egbert" took the form of an ornate Victorian-Era iron floor lamp, which originally burned kerosene but has since been electrified. It will, says Mr. Kudzma, serve to illuminate the antlers.

The combination of skits and songs which won for Burton included three numbers; "Plaustris Caballus", or "Hearse Horse", which used a funeral march as a theme and a coffin for atmosphere, followed by the "A Bah Cantata", the saga of two stuck-up flies in a molasses cup, and closing with "Lucky Old Sun", during which a grinning cardboard sun rose above the singers, carrying the phrase, "We Want Lower Rent".

'Brain Tickler' Fans Trade Smiles, Guiles At Real Riddle Stomp

From how many different places on the Earth's surface can a person walk 30 miles due south, 30 miles due east or west, then 30 miles north and end up at the starting point? (There is more than one.)

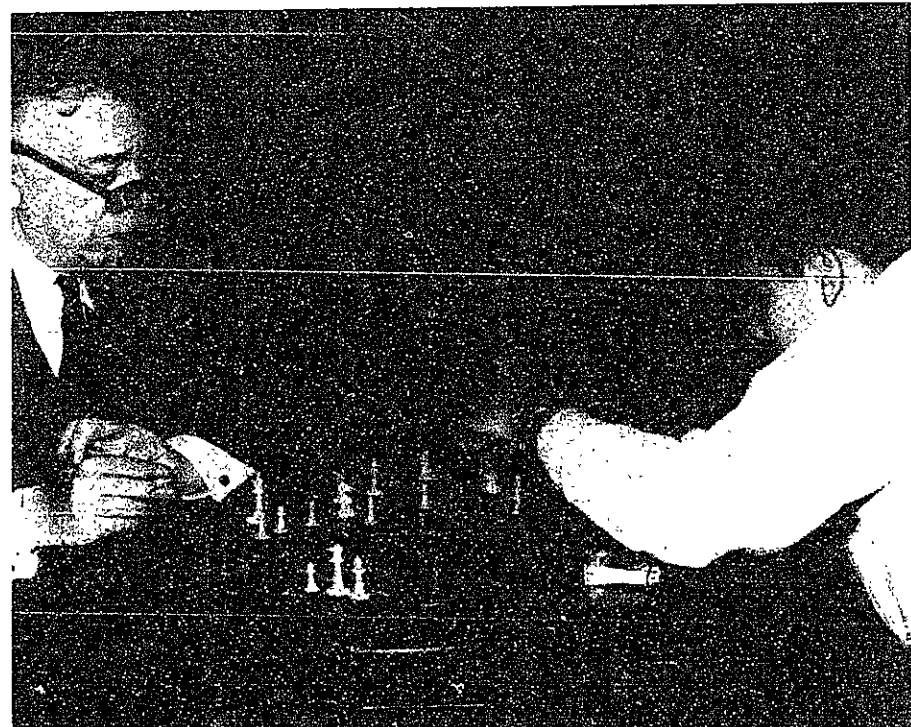
This "brain tickler" is typical of the many presented at an informal meeting of fans of the TV program "Brain Ticklers", Sunday afternoon in 10-250. The program was sponsored by the Lecture Series Committee and was moderated by Professor Eugene W. Boehne of the Department of Electrical Engineering. "Brain Ticklers" appears every Friday night on WGBH-TV, and is planned by Mr. John O'Brien of Lincoln Labs.

Mr. O'Brien discussed several ticklers which will be presented on future TV shows. One of these was the classic "Duddeny's Cigar Puzzle". It seems that two men, each with an unlimited supply of cigars are sitting at a square table. If they begin putting the cigars on the table, ON END, who will put the last cigar on the table before it is completely covered? (Assuming, of course, that each works to his best advantage). The answer is that the first man will have the privilege of putting the last cigar on the table.

Professor David Huffman, of the department of Electrical Engineering demonstrated the ancient game of Nim. The game involves dividing a pile of chips into several small piles and taking turns removing chips with certain specifications governing the number of chips that can be removed in each turn, the object being to remove the last chip. By applying binary arithmetic to the game it can be made foolproof and used as a profitable substitute for poker and other such games.

After the riddles had been exhausted, David Crocker '57 demonstrated the tic-tac-toe machine which he helped build for the 1950 Spring Open House. The machine astounds its victims by either winning or tying its opponent every time.

Warren Holland And Friend



Professor Wiener as caught in 5:15 Club during an hour of recreation. The famed mathematician was not victorious.

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reviews

Last Sunday, April 7, the Humanities Series presented pianist Ernst Levy in a program consisting of *Spozalizio*, *Eglogie*, and *Pastorale*, by Liszt, Schumann's *Kinderszenen*, Sonata #27 by Beethoven, and three sonatas, numbers 39, 36, and 42, by Haydn. This was the last of the 1956-57 Humanities Series concerts. It was also one of the finest.

Of the program given, the Schumann was perhaps the best. The Liszt was clear and objective, the Beethoven powerful, and the Haydn straight and moderate. Mr. Levy plays with great ease and clarity. His approach is sensitive but not delicate, his technique strong and purposeful but not powerful. He is extremely concise and straightforward. This was particularly noticeable in the Liszt, which he played with ease but not effervescence, and strength instead of fire. The Haydn, however, was not of this quality. Mr. Levy worked his way through the three sonatas, making them sound like Beethoven, then Liszt, then Bach. He reflected not a variety born of comprehension, but the confusion of misunderstanding. The interpretation was interesting but not convincing.

Mr. Levy has a quality of honesty and frankness seldom exhibited today. The concert was very satisfying, and we are looking forward to more programs by him.

—Dan W. LaDage

the kibitzer

When a bridge columnist is in the process of choosing a bridge hand to present, he is often attracted by ones which, either because of a concentration of high cards or extreme distribution, are spectacular in nature. However, since bridge tournaments are usually won through the correct play of commonly occurring hands, the temptation to present a flashy hand should be suppressed. In a hand played recently at the MIT Bridge Club Tournament, the East-West pairs had trouble with the following "common type" bridge hand.

S-7 5			
H-K J 10 9 5			
D-8 5			
C-K 7 4 3			
S-A Q J 10 8	N	S-9 6 3	
H-A 8 2	W E	H-3	
D-A 10 2	S	D-K J 9 6 4 3	
C-10 2	S-K 4 2	C-A 8 5	
	H-Q 7 6 4		
	D-Q 7		
	C-Q J 9 6		

North-South are vulnerable. The most frequent bidding sequence was the following:

West	North	East	South
1S	P	2D	P
2S	P	P	P

Since the king of spades is on sides, and the queen of diamonds falls, the hand makes seven cold. Even with poor breaks, four spades could hardly be defeated.

East has poorly evaluated his hand in the light of West's bidding, weak as it may appear. He has adequate trump support, following his partner's rebid, plus first or second round control in all other suits. In addition, he has a six card suit. There is certainly nothing to fear from giving his partner a single raise to three spades. Four spades is the correct contract.

—Howe Cohen '57 and Jerry Davis '56

calendar of events

WEDNESDAY, APRIL 10

Operations Research. Seminar: "The Empty Boxcar Distribution Problem." Mr. George J. Feeny, Manager, Operations and Electronic Data Processing Research, Stanford Research Institute.

ROOM 2-333, 3:00 p.m.
 Electrical Engineering Department. Colloquium: "Crude Data Processing." Professor Bernard Widrow, Electrical Engineering Department. Refreshments will be served in Room 10-280 at 4:30 p.m.

ROOM 10-250, 3:30 p.m.
 Biology Department. Colloquium: "The Ultrastructure of Skeletal Tissues." Dr. Diego Carlstrom, Biophysics Department, Karolinska Institutet, Stockholm, Sweden. Tea will be served in Room 16-711 at 3:30 p.m.

ROOM 16-310, 4:00 p.m.
 Civil and Sanitary Engineering Department. Hydro-mechanics Seminar: "The Water Resources Research Program at Harvard." Arthur Maas, Professor of Government, School of Public Administration, Harvard. Coffee will be served at 3:45 p.m.

ROOM 48-208, 4:00-5:00 p.m.
 Technology Catholic Club. Talk on man-made and God-made hearts, lungs, and intestinal tracts. Speaker: Dr. Paul R. Hinchey.

ROOM 2-190, 5:00 p.m.
 Electrical Engineering Department — Cooperative Course. Pre-interview talk by representatives of American Gas and Electric Company, regarding cooperative program opportunities for Course VI sophomores. Freshmen invited. Bring your questions.

ROOM 10-250, 5:00 p.m.
 Lecture Series Committee. Lecture: "Reporting America to Britain." Speaker: Alistair Cooke, British correspondent, and M.C. of the television program "Omnibus." Admission free.

KRESGE AUDITORIUM, 7:30 p.m.

THURSDAY, APRIL 11

Nuclear Engineering. Seminar. Marius Troost (G).
FACULTY CLUB PENTHOUSE, 1:00-2:00 p.m.
 Mathematics Department. Harvard-MIT Joint Mathematics Colloquium: "Curvature of Submanifolds in Euclidean Space and Uniqueness Theorems." Professor S. S. Chern, of the University of Chicago. Tea will be served in Room 2-290 at 4:00 p.m.

ROOM 2-390, 4:30 p.m.
 Physics Department. Colloquium: "New Results on the Scattering of 80 Mev Pi-Mesons on Nuclei." Professor James Rainwater, of Columbia University.

ROOM 6-120, 4:00 p.m.

FRIDAY, APRIL 12

Mechanical Engineering Department. Seminar: "The Method of Internal Constraints and Some of Its Applications to Dynamic Problems." Professor Enrico Volterra, Department of Mechanics, Rensselaer Polytechnic Institute. Coffee will be served in Room 3-174 from 3:00-3:30 p.m. (Note: Due to the holiday on April 19, next week's seminar will be held on Thursday, April 18.)
ROOM 3-270, 3:30 p.m.
 MIT Musical Clubs. MIT Concert Band, conducted by John Corley, in a performance of works by Stravinsky, Debussy, Roussel, and Harris. Admission free.
KRESGE AUDITORIUM, 8:30 p.m.

SATURDAY, APRIL 13

MIT Outing Club. Beginner mountain climb to Mt. Chocorua, New Hampshire. Details and "sign-up" at bulletin board in Building 2.
WALKER MEMORIAL LOBBY, 11:00 a.m.
 MIT Bridge Club. Monthly Master Point Tournament.
BAKER HOUSE CAFETERIA, 1:30 p.m.
 Lecture Series Committee. Film: "High Noon," the Academy Award-winning western, with Gary Cooper, Grace Kelly, and Katy Jurado. Admission: 30 cents.
KRESGE AUDITORIUM, 5:30, 7:30, and 9:45 p.m.

SUNDAY, APRIL 14

MIT Outing Club. Beginners' Rock Climb. Instruction given. Sign up on Building 2 bulletin board.
WALKER MEMORIAL, 9:00 a.m.
 Humanities Department. Organ recital by Mary C. Vivian of Cambridge, Mass. Admission free.
MIT CHAPEL, 4:00 p.m.

MONDAY, APRIL 15

Civil and Sanitary Engineering Department. Sanitary Engineering Seminar: "Detection of Escherichia coli by the Radio-Carbon Method." Sein-Hla (G); "The Metabolism of Benzene by Activated Sludge," Dr. G. W. Malaney, Professor of Bacteriology at Ohio State University.
ROOM 1-146, 11:00 a.m.
 Geology and Geophysics Department. Seminar. Lecture: "On the Structure of Gneiss and Migmatites." Professor E. H. Kranck, McGill University.
ROOM 24-417, 4:00 p.m.
 MIT Outing Club. Weekly meeting.
WALKER 306, 5:00 p.m.
 MIT Hillel Society. Passover Seder. Evening services from 6:00-6:30, followed by the Seder.
CAMPUS ROOM, GRADUATE HOUSE, 6:30 p.m.
 MIT Dames. Lecture: "Have you ever seen the inside of a prison?" Dr. Miriam Van Waters, penologist. Refreshments will be served.
ROOM 3-370, 8:00 p.m.

TUESDAY, APRIL 16

Metallurgy Department—Ceramics Division. Seminar: "Soil Stabilization with Acidic Phosphorous Compounds." Professor A. S. Michaels, Chemical Engineering Department.
ROOM 4-142, 9:00 a.m.

CALENDAR OF EVENTS

Material for the Calendar of April 17-24 is due in the office of the editor, Miss Dorothy Knox, Room 3-339, not later than noon on Thursday, April 11. Due to the holiday on Friday, April 19, material for the Calendar of April 24 to May 1 will be due not later than noon on WEDNESDAY, April 17.

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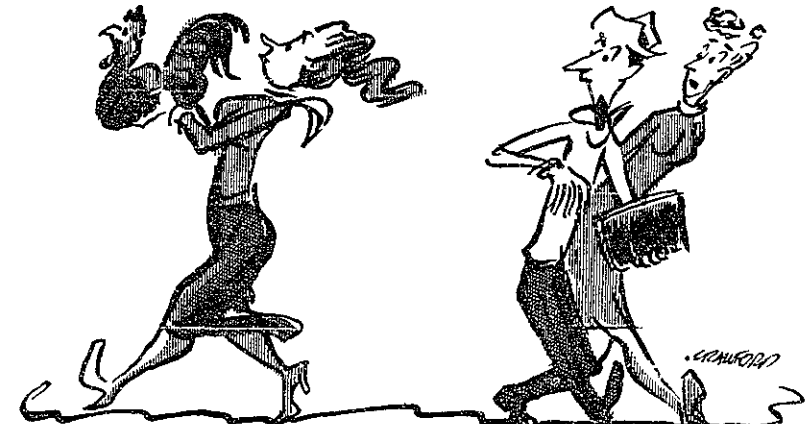
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HOW MUCH IS THAT DOGFISH IN THE WINDOW?

Dear Mom and Dad (writes Zelda May Nirdlinger, soph). You have been asking me to account for all the money I spend. There follows a day by day summary of recent expenditures. Don't forget, you asked for it.

- MONDAY:**
- \$2.78 — telegram to the Secretary of the Army, offering to go instead of Elvis.
 - \$0.26 — pack of Philip Morris, my favorite, and yours, if you know a good thing when you taste one!
 - \$0.50 — sorority fine for oversleeping and missing my first hour class twelve days in a row.



I bought a rooster named Ralph

- \$2.95 — I bought a rooster named Ralph to wake me in the morning. (Can't sleep with an alarm clock ticking all night.)
- TUESDAY:**
- \$0.50 — sorority fine for not cleaning my plate at dinner. (I just couldn't! Dinner was Ralph.)
 - \$0.50 — sorority fine for dating undesirable boy. (Roderigo is not undesirable! Some people say he is "fast" and a "devil" but I say he is just insecure. Why else would he go steady with eight girls?)
 - \$0.26 — pack of Philip Morris. What joy! What zest!
- WEDNESDAY:**
- \$557.38 — a motorcycle for Roderigo. (He is giving up all his other girls for me, but they are so widely scattered that he needs a fast conveyance to go around and tell them all goodbye.)
 - \$0.26 — pack of Philip Morris. (Have you tried them yet? If not, you've got a big treat coming. Light one soon. Light either end.)

- THURSDAY:**
- \$0.50 — sorority fine for staying too long in the shower. (Gee whiz, a girl gets mighty dirty polishing a motorcycle!)
 - \$0.52 — two packs of Philip Morris — one for Roderigo. (Dear Roderigo!)
- FRIDAY:**
- \$0.26 — pack of Philip Morris — a happy smoke for a happy day. Yesterday Roderigo broke with the last of his girls, and today he is mine, all mine!
 - \$8.57 — new dogfish for zoology. (I was dissecting a dogfish in zoology when I happened to look out the window and see Roderigo riding by with Mary Ann Beasley on his buddy seat. I got so upset I threw the dogfish at them.)

- SATURDAY:**
- \$2.59 — a carton of Philip Morris, one pack for me, the rest for Roderigo. (I was foolish to be angry about Mary Ann. Roderigo explained that she meant nothing to him—just helping him with English lit. Similarly, Grace Krovney is helping him with Spanish, Betsy Pike with econ, Mazda Notkin with psych, Lola Tweet with phys ed, etc. The least he can do is give them all Philip Morris.)

Well, mom and dad, you can see how expensive college is. Send money. . . . Love and kisses, Zelda May

©Max Shulman, 1957

The price may vary from place to place, but Philip Morris continues to be a natural smoke that daunts no purse, however small. It is made in regular and long size by the sponsors of this column, and is ignitable at either end.

Scientists, Humanitarians Unite For All-Tech B-Ball Clash



An array of some of the faculty and administration participants in the All-Tech Basketball Game this Saturday night:

- | | | | |
|-------------------------------|----------------------------------|-----------------------------|-----------------------------|
| 1. Dr. Roger W. Prouty | 5. Col. Charles M. McAfee, Jr. | 9. Prof. Sanborn C. Brown | 13. Prof. David O. Caldwell |
| 2. Dr. Thomas H. D. Mahoney | 6. Major Vernon E. Robbins | 10. Dean Robert J. Holden | 14. Robert M. Whitlaw |
| 3. Prof. Walter H. Stockmayer | 7. Chancellor Malcolm G. Kispert | 11. Prof. B. Alden Thresher | 15. Eugene R. Chamberlain |
| 4. John Murphy | 8. Pres. James R. Killian, Jr. | 12. Dean John T. Rule | 16. Dean William Speer |

BASKETBALL

(Continued from page 1)

neers reached into the air (aeronautical engineering) for Holl Ashley, that 6' 6" giant who may actually defy the rest of the team, and play ball. Famed for his rocket shot which has never been duplicated, in fact never made, Holt promises to supply a lot of action in the big battle.

Chamberlain To Play

Another center with a famous center's name, Gene Chamberlain, better known as "Red", will be out to demonstrate his famous "stuffshot" which has to be seen to be believed. Though it's been ten years since he last competed in athletics, "Red" promises not to let the rusty gate get in his way.

"Jumping Joe Jefferson" and his famous ricochet shot will be on hand to supply the Engineer-Administration team with some added points. Unusual in the sense that he does not use the backboard for his ricochet, Jumping Joe promises to take it easy on the heads of the men opposing him.

The mechanical engineers sent as their representative none other than another Brown (this should really add to the confusion), Prof. George Brown who boasts the highest reciprocal scoring average in his high school's history. A deadly push shot and a long long set from the bench are Prof. Brown's greatest assets.

White bucks William Speer of hot rod fame is still another addition to this greatest array of talent ever assembled on a single basketball floor. Associate Dean Speer promises to add a little color to this otherwise somewhat lacking game. A gunner from way back he could really prove dangerous, if his teammates will give him a chance.

Assistant Chancellor Kispert rounds out this team of "fine whole men". Known by those who know him well as "Elbows", the Waban wrecker, Mr. Kispert brings action and not words into the clash. This is a great opportunity for all Tech students to discover the true duties of an Assistant Chancellor.

Although both teams are still searching for ringers, the names mentioned above promise to be the mainstays of the squad. The game in all likelihood will be played in the armory, though check your nearest bulletin board for possible last minute changes. It's rumored that the Engineering-Administration team feels that Major Robbins will be too much at home on the hardwood of that famous structure, and are pressing for Walker Memorial.

No matter where the game is played though, cameras will be allowed. President Killian, as mentioned above will be on hand with whistle in mouth to supply all the necessary officiating and then some, in a scene to be repeated with Deans Rule and Fassel, keeping sure everything should be on the up and up, and as an added attraction *The Tech* will supply free liniment to all in need.

Jazz Band to Perform

Other services are fast coming to the support of this great contest. Beaver Key will be on hand to supply refreshments, while the Q Club will handle the official cheerleading. Alpha Phi Omega is in charge of selling tickets which go for the miserable sum of 60 cents apiece, or a buck a couple, and can be obtained in Building 19 (the work or at the door). In addition to the All American entertainment provided, a jazz band and an added secret attraction will provide entertainment, all for the benefit of TCA's Boys Work Division, as fine a charitable organization as exists on the campus.

FIESTA DEL VINO

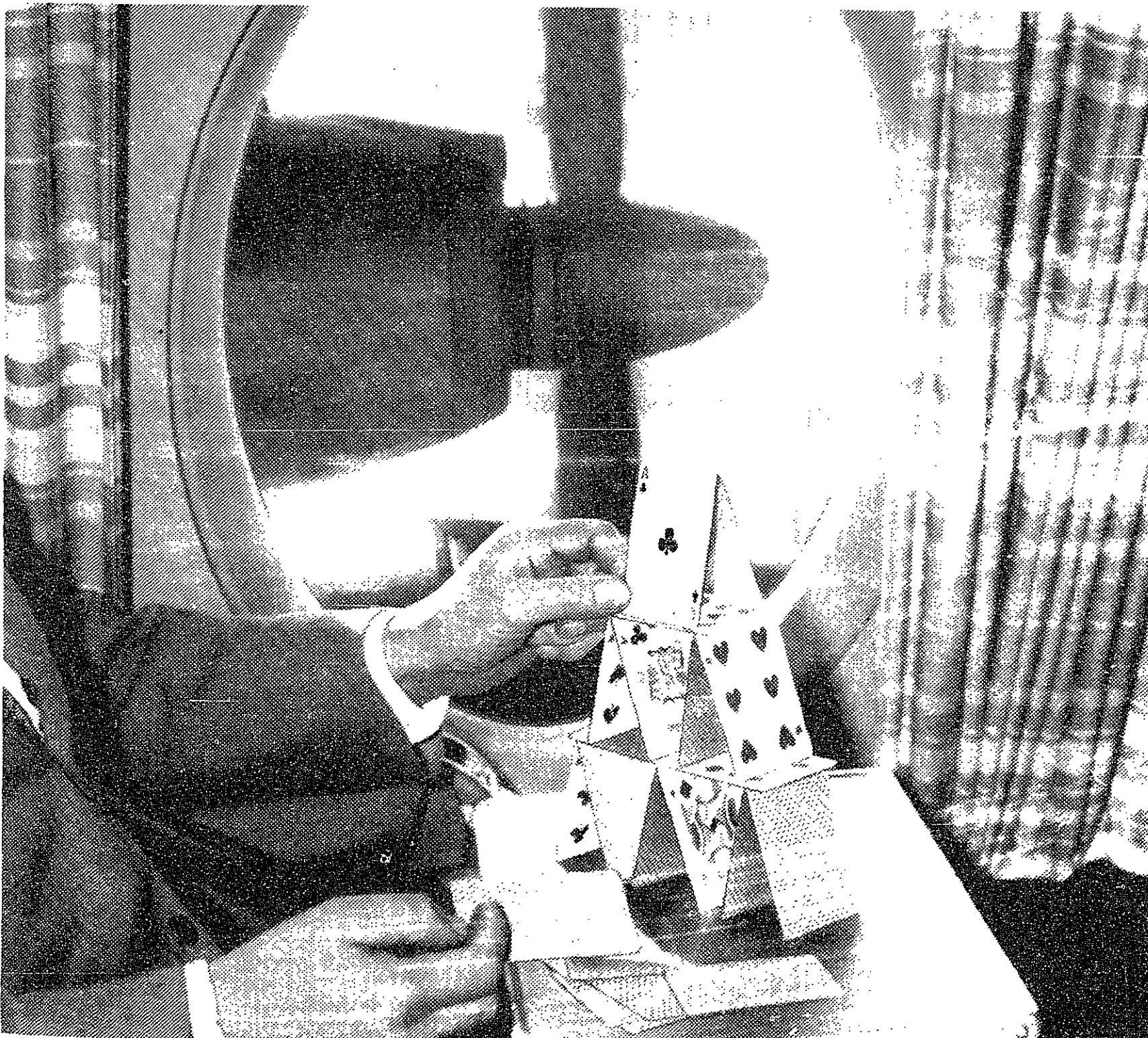
East Campus is planning a dance, Fiesta Del Vino, in Walker Saturday, April 13 with music by Jack Marshall. Tickets are \$2.00 at the door or \$1.50 from any East Campus Head Chairman, or Joe Burgiel, Jr., Fiesta 1957. Price includes wine.

CONCERT BAND

The MIT Concert Band will give a free concert — including world-famous Stravinsky, Holst, Mahler and Debussy — in Walker Saturday, April 13.

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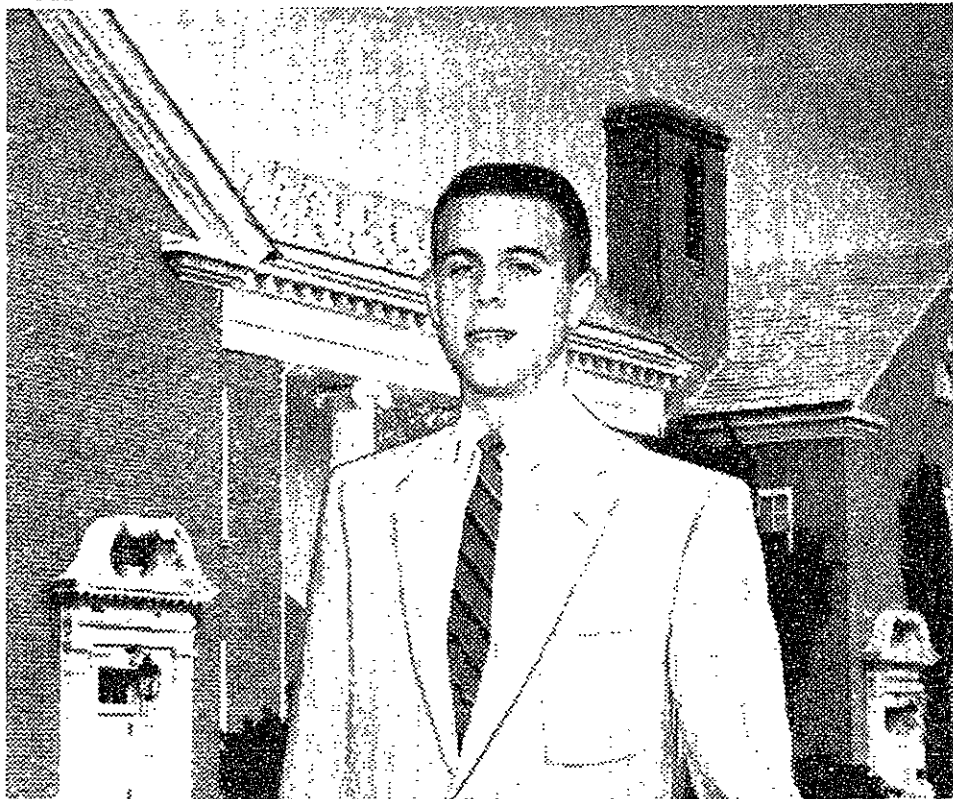
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G. Edward Gearhart was graduated from the University of Delaware in June, 1956, with a B.S. in chemical engineering, and is now working for his Ph.D. in chemical engineering at Lehigh. At Delaware, he was editor-in-chief of the yearbook, "Blue Hen," active in sports and secretary of the Engineering Council.

Ed Gearhart asks:

What does Du Pont mean by "on-the-job" training?



Denton Harris answers:

Training is pretty much full-time at Du Pont, Ed. The main objective is to train men to reach their full capabilities as soon as possible. So we give the new man responsibility the day he arrives, and increase it as opportunities are available and he's ready for more responsibility.

That's the basic, guiding policy. But Du Pont has many departments. And training has many facets.

In some plants, the college graduate being trained for supervision is moved

through all areas of the production cycle. In others, where the technical phases are more involved, he may spend time in a laboratory or development group before moving on to production.

It works the same way in sales. The graduate may first learn the laboratory side of the products he's going to sell. Or he may start right out on learning selling techniques. That all depends on the products and markets involved.

The same on-the-job principle applies to new men in specialized fields of research, development or design... including daily contacts with supervision, frequent lectures, discussions and conferences. Periodic changes in assignment, too.

It's carefully planned, individualized training, Ed. We've found it's the most effective way to broaden a man quickly. Du Pont is a growing organization. And men with leadership potential are always in demand.

Denton B. Harris joined Du Pont's Engineering Research Laboratory in June, 1952, after completing work for an M.S. in civil engineering at the University of Massachusetts. He's currently working on an unusual project—a broad study of the philosophy of design. The objective is to learn more about people's design preferences, and the trends behind new concepts in industrial design. This new assignment came after Denton gained several years of experience in various kinds of civil engineering at Du Pont.

Are you interested in research work? About 2000 Du Pont scientists and some 3500 other employees are now engaged in research. Laboratory facilities of the highest quality are available at the Du Pont Experimental Station near Wilmington, and elsewhere throughout the country. Full information about research work at Du Pont is given in "Du Pont Research." Write for your copy of this free booklet to E. I. du Pont de Nemours & Co. (Inc.), 2507C Nemours Building, Wilmington, Delaware.



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CLASS OF '58

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Four Point Plan For Game

By Pat J. McGovern, Jr.

Few statements can be said with the certainty of the following: "No matter who wins the All-Tech basketball games, the affair will be one heck of a good time for all members of the MIT Community, and especially Techmen and their dates."

The events carry a more significant meaning than the "gay college times" object. They have been planned to accomplish four distinct goals, not the least of which is supporting the TCA Boy's Work Project which is doing an outstanding job in awakening interest in science and engineering among the underprivileged children in the settlement houses of Boston. The funds that the sixty cent admission charge will raise (it's a dollar special if you bring a date) will be capably employed by the Boy's Workers in developing the scope and interest of their exhibitions, fairs, and demonstrations.

Another accomplishment of the evening, incidental to the Boy's Work charity theme, will be an uplifting of the general tone of Bostonian sentiment about the student body of MIT. The recent riots did little to maintain a feeling of respect and trust between the MIT undergraduate body and the local community. Our Institute Committee through the Public Relations Committee has been working industriously at the problem of regaining some of the rapport and respectability which seemingly irresponsible actions may have lost for the Tech student, both locally and nationally. The idea of the entire MIT Community getting together to promote an event which

will financially support a project that aids their external environment cannot do otherwise but produce beneficial publicity for the student body, and for the Institute as a whole.

The last two purposes are somewhat allied. The first is the improvement of student-faculty relationships. A technical education requires that the instructor impart to his students the feeling of scientific integrity, and the requirements of personal sincerity and dedication to his work. This can best, indeed, only be accomplished when there is a feeling of fellowship and mutual understanding between the professor and his student associates. Playing together on the basketball court is one form of expression for the desire of both the faculty and administration to achieve a more successful relationship between themselves and the undergraduate body.

The other element is that most intangible item, and yet one of the necessary to any organization; namely, spirit—MIT School Spirit. Instructors find it one of their most valuable assets in providing their charges with a productive education. The athletic departments find it the necessary component in developing successful teams and in offering a personal satisfaction to the players. Student activities know that it is part of their lifeblood. It is the part of MIT that is most apparent to our guests, whether they are attending a party on campus or just chatting with a student. This last is really the most vital goal of the All-Tech Basketball game. Be there and you will see some of it in action. In fact, you will be a part of it.

Varsity To Clash With All-Stars In Hoop Twin Bill Saturday Night

MIT's 1956-57 basketball season reaches its peak in excitement and outstanding play this Saturday night at 8 o'clock with the most outstanding double-header in the Institute's cage history. The first half of the TCA benefit twin bill will feature two faculty squads previewed elsewhere in this issue. Following this, Tech' dynamic varsity, fresh from a successful season, will take on the all star team, composed of the top players in intramurals as picked by *The Tech*.

Sophomore Bob Polutchko, leading scorer and rebounder for the Engineers this year with a 15.8 points per game average, should spark the varsity's efforts.

Top rebounder for the all stars is 6' 1" Dave Crockett, '58 who paced the intramural champion East Campus hoopsters with his work off the boards.

Boston Intercollegiate all star Murray Muraskin '57, is the varsity's greatest outside shooting threat.

The all stars are fortunate to have three outside sharpshooters in Student House's Gene Shaw '60, and Sigma Chi's Bob White '60 and Larry Flanagan '57.

Hustling sophomore Lee Cooper '59, can be counted on to fire up the varsity's spirit, in addition to scoring on jumpers and driving shots.

The best jump shooter during the intramural season was Tom Courtney '60, East Campus standout who tallied 96 points in five playoff games.

Playmaking and slick passwork will be the chore of Paul Larsen '58 for the varsity. Paul has done some pretty fine defensive work this year too. The all stars' Ken Auer '58 has the same strong points as Larsen, as his adept ball handling sparked D.U. to a winning season.

Big man to watch for the varsity is 6' 6", 210-pound Walt Humann '59. Walt is a definite rebound threat, and his height should be of immeasurable value to the Beavers.

The all stars' biggest man on the court will be 6' 3", 185-pound Dick Bradt '60 of Baker House. Dick has a great jumpshot and is an aggressive rebounder, and undoubtedly will play outstanding ball Saturday evening.

Inside shooting and driving are the fortes of the varsity's Marty Goldstein '57 and the all stars' Don Aucamp.

Strong man for the varsity is 6' 3", 210-lb. Dave Rachofsky '58. Dave can be counted on to do a capable job under the backboards as well as some inside shooting.

D.U.'s Dave Larsen '58 can be counted on for all-around play to aid the all-stars as he averaged over 15 points a contest during the season.

Sam Wilensky '59 and Dennis McGinty '58 will aid the varsity with their rebounding and jump shooting, and these same skills will be exhibited by the all stars Bill Trautman of Grad House and Warren Goodnow '58 of Beta Theta Pi.

THE COOP

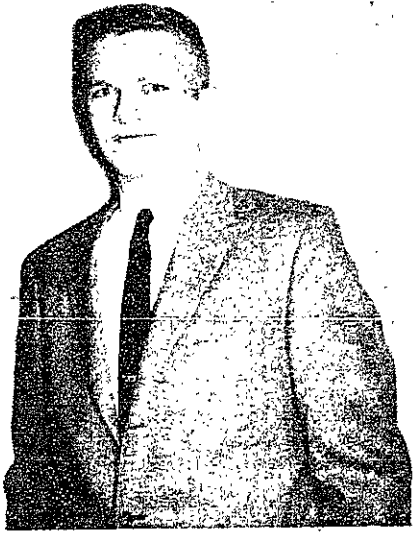
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Alar Toomre, Course XVI Senior, To Receive Marshall Scholarship



Alar Toomre, one of 12 graduates picked for this year's award.

Alar Toomre '57 has been awarded a Marshall Scholarship, which entitles him to two years study at a British university.

Mr. Toomre has elected to do research in Physical Aerodynamics at the University of Manchester, and will take up his studies there this fall.

The Marshall scholarships were established in 1954 as a gesture of appreciation for Marshall Aid. They provide for two years of post graduate study at British universities for twelve American students, selected annually on the basis of scholarship and character. The grant covers tuition, transport to and from the United Kingdom, and a sufficient living allowance.

Regional committees make preliminary selections and forward them to Washington where the British Ambassador, assisted by an advisory committee, makes the final selections, which are approved by the Commission in London.

Mr. Toomre is a senior in course XVI. He lives in Hempstead, New York.

Five Tech Students Will Study Abroad On Fulbright Grants

Five more MIT students have been selected for graduate study abroad on Fulbright scholarships this month—eight in all have been named this year.

The awards are to Chester D. Bell, G, VI-A, of Kirksville, Mo., for digital computers at the University of Sydney, Australia, Charles A. Homsey '53, G X, of West Roxbury, Mass., for Chemical Engineering at the University of Sheffield, England, Peter A. Sampton '57, of Scarsdale, N. Y. for Architecture in Paris, France, Ovadia R. Simha G IV-B, of Norman, Okla., for city planning in Delft, Holland, and Earl R. Flansburgh, G IV-A, of Ithaca, N. Y., for architecture (prefabrication and construction), at the Building Research Station in Watford, England.

The Fulbright Scholarships are for graduate study abroad in the academic year 1957-58. As provided by the Fulbright Act, all students selected by the Board of Foreign Students, members of which are appointed by the President of the United States. The purpose of these and other scholarships given by the International Education Exchange Program is to promote mutual understanding between the people of the United States and the people of other countries.

Restriction To 4/5; Limit Goes To Thirty

Quadrangle Club voted Sunday to raise the legal representation from any one living group from three-fourths to four-fifths, and to provide for an additional five members who would be elected in the Sophomore year to take care of "extremely deserving" sophs not already in the Club.

The four - fifths representation, which would apply only to the group of 25 elected during the spring term, came as a compromise between leaving the Constitution as it now stands (three-fourths) and eliminating all restrictions. The general opinion was that all living groups must be represented to make the group influential throughout the whole class.

The five extra positions, raising maximum membership to 30, would be filled only if exceptional cases presented themselves after the first elections. They need not, and probably will not all be filled.

"ONE OF THE YEAR'S BEST"
—Crowther, N. Y. Times

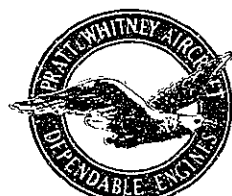
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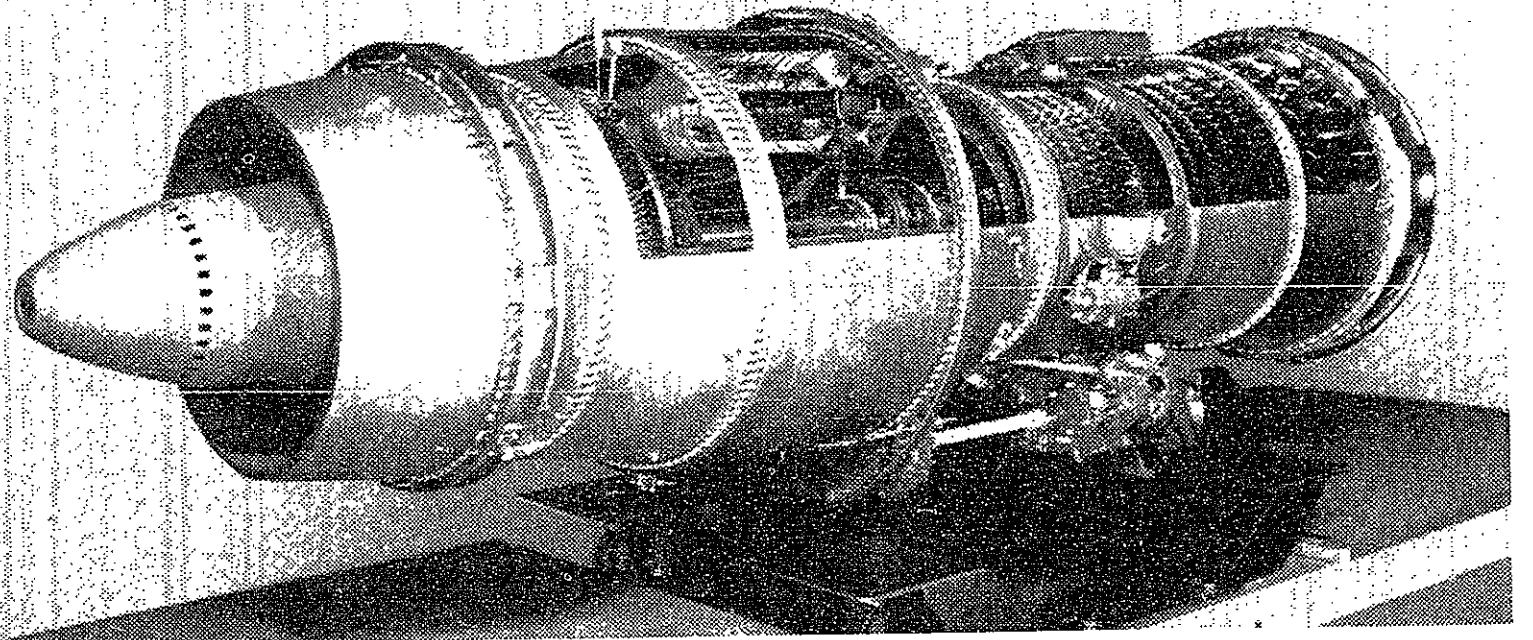
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A LOOK at the record

From its founding in 1925, Pratt & Whitney Aircraft has been essentially an engineering company. Its primary objective has been the design and development of new aircraft engines of superior performance and dependability. The guiding policy has always been, simply, that technical excellence must be the paramount objective, attained through constant effort to improve upon the best.

As early as 1928 Pratt & Whitney Aircraft's Wasp engines powered Navy seaplanes which brought back world records in altitude, range and speed from competitions in Switzerland, Germany and France. The following year, Wasp-powered Army Air Corps airplanes were flying combat formations at 30,000 feet.

All through the 1930s the power, range and fuel economy of the Pratt & Whitney Aircraft Wasp and Hornet engines were developed, and the engines seasoned

with experience. Wiley Post, the Lindberghs, Martin and Osa Johnson, Amelia Earhart, Admiral Byrd and Roscoe Turner were among the host of famous pilots who made aviation history with Wasp power.

During World War II, 50 percent of the aircraft powerplants for the American air arms were engineered by Pratt & Whitney Aircraft. Three of the five key fighter airplanes, a host of medium and heavy bombers, and 98 percent of all the military transports used Pratt & Whitney Aircraft engines.

The postwar development of the J-57 gained the company a position of engineering leadership in the jet field. It powered the first jet aircraft to fly faster than sound in level flight, and is now used in six supersonic fighters, three bombers and the first two American commercial jet transports.

Broadly diversified engineering careers at Pratt & Whitney Aircraft offer truly fine opportunity for young men equipped to deal with challenging assignments. You will find many answers to important questions about careers at P & W A in our informative booklet, *Jet Engineering*. For a copy, write to Mr. F. W. Powers, Engineering Department.