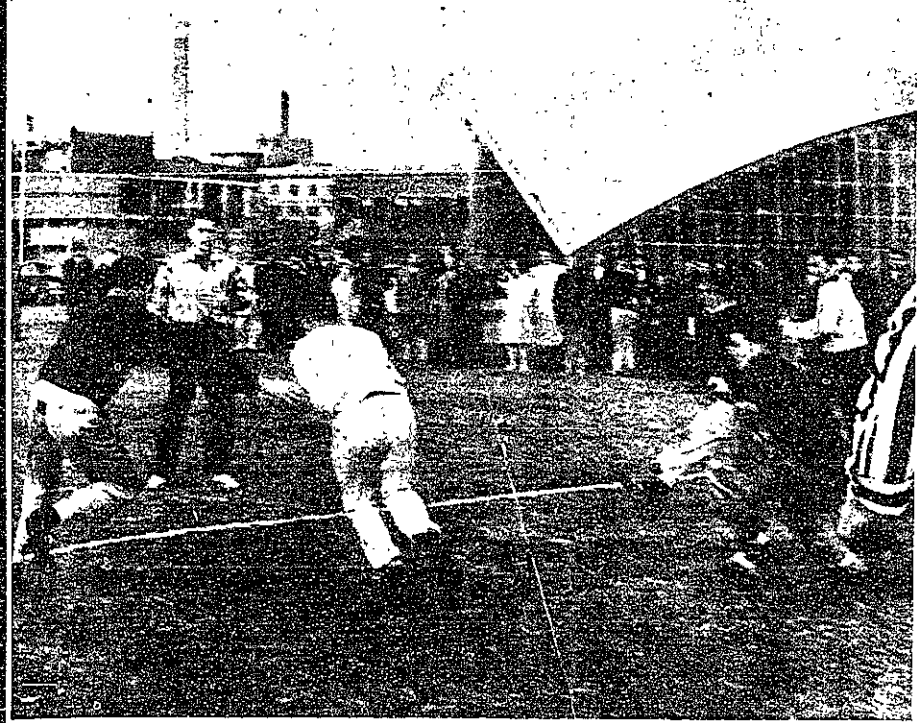


Delts Down Phi Gams in Thrilling Last Minute to Gain IM Crown



Delta Tau Delta end Dan Michael '60 snares a short pass and heads goalward as dark-shirted Phi Gams Hal Smith '57, Larry Boyd '59 and Bob Williamson '59 charge in for the bag. This tag was not enough, however, as the Delts won the intramural championship 7-6. For complete story see page 5.

USAF Says No More Scrambles With New Lincoln Lab Radar Setup

MIT's Lincoln Laboratory recently announced the development of a device that will eliminate serious and baffling obstacles to the tracking of aircraft with ground radar. The project, financed by the military, will aid considerably in the coastal defense of the country.

Two years ago a group led by Dr. R. E. Richardson began a study of spots on radar scopes. Operators called them "angels." These spots were caused by reflection of radar beams from mysterious objects in the sky which eluded detection for years. Not only did these spots interfere with reflections from actual aircraft, but quite often, Air Force fighters were "scrambled" to intercept hordes of imaginary "attacking" angels.

Seagull Gremlins

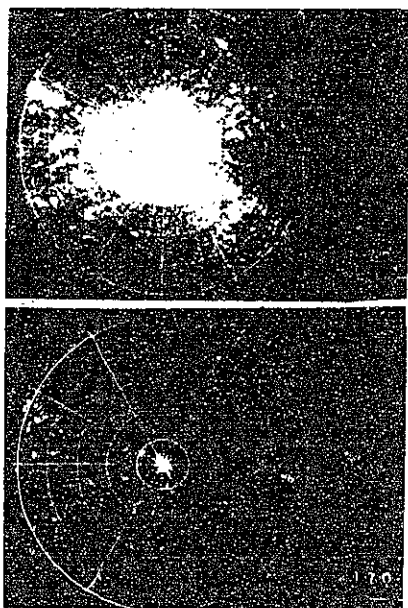
From the surveillance of a radar scope located on the Cape, the investigators found that birds were the troublemakers. Motion pictures taken of the spots on the scope revealed that they moved in random directions and were affected by air currents. The blame was laid to birds when the spots exhibited a seasonal behavior, appearing more often in summer than during winter months and usually more often during the daytime.

When weather was bad, the radar showed fewer "angels" offshore. On their way to and from work on such days, observers noticed more seagulls than usual waddling about on the ground.

Although it would seem that radar reflections from birds would be small, in actuality, it was found that a seagull would look about the size of a part of water flying around. Due to the resonance of such an object to the beam being used, a very large "blob" appeared on the radar scope, even when a gull was twenty miles distant. Calculations revealed that if the birds were uniformly distributed at four birds per square mile, the scope could be completely covered.

Dr. Richardson and his colleagues succeeded to develop a means of varying voltage within the radar apparatus, winding up with an "anti-bird" circuit which completely eradicated the images, except for seagulls feeding at one copious food supply.

Since it was learned during the study that birds might be the cause of the line of radar spots that precedes a storm cloud, such information might prove helpful to weather forecasters.



Before and after photos show how "bird eliminator" affects radar picture in recent Lincoln Lab development.

MIT Radar To Aid Landing Planes

MIT meteorologists, Professor James M. Austin and Mr. Morton Glass have reported progress in radar research that may make aircraft landings and takeoffs even safer. Announcement was made at a Miami Beach conference of the American Meteorological Society.

A new electronic device, developed at MIT, may enable radar weather observers to predict short range changes in visibility which are a predominant hazard to aircraft, particularly while landing.

Conventional measurements at Boston's Logan Airport have shown that when precipitation increases, the ceiling and visibility close down. Reliable short range forecasts, therefore, during the few minutes when an aircraft is in the traffic pattern and making its final approach are extremely important.

The new piece of equipment, called an iso-echo-contouring device, integrates and corrects the weather information that appears on a radar scope, thereby giving the weather observer a more complete and up-to-the-minute

World Communication Wires Buzzing As Burton "Pay" Phones Cough Up Change

Telephone cables around the world were buzzing over the weekend with calls emanating from Burton House. Two pay telephones in the lobby of Burton went berserk around noon Saturday and were spitting back dimes, nickles and quarters as fast as they could be deposited by Burton residents.

News was slow in spreading through the dorm until Sunday, when the two helpless phones were mobbed with calls to moms and dads and girls throughout the country and around the world.

Calls were reportedly made to such places as Honolulu, Japan, Hong Kong, England, Paris and to the American Embassy in Moscow. A call to Venezuela was stymied when the caller was informed of a two-to-three-hour waiting period before the party could be contacted.

People throughout the country were receiving unexpected calls. One enterprising student reportedly called California in order to acquire the unknown number of a party in Florida.

Grades, Study Time, Intelligence Not Correlated In Recent Study

There is, apparently, only a slight relation between the time a student spends in studying and the grades that he receives, according to a recent analysis of the use of student time by the Illinois Institute of Technology.

A preliminary study had indicated that students with high, average and low cumulative averages spent very nearly the same amount of time in their studies each week. Average study time was 1.5 hours per week for each hour of class. Highest average reported was 4.0; lowest 0.34.

Students were divided into four nearly equal groups, according to hours of preparation per hour of class. Students with superior, average and low ability were found in each of these four groups. That is, a student of low ability would be expected to put in a great deal of time just to keep up with his studies, while one of high ability could slide through college with a minimum of study effort.

To test this, the survey group was again divided into three groups of high, average and low ability. The results indicated that, even though ability was taken into account, there was still little correlation between grades and study time.

Why No Correlation?

Why should there be no apparent relation between grades and amount of time spent in study? The answer may lie in one of the following: (1) Students vary widely in their ability to make effective use of study time. (2) Grades may not bear a close relation to the amount learned. (3) Courses vary widely in difficulty, even though they carry the same number of credit hours. (4) Other unanalyzed, or even immeasurable, personality characteristics may be more important in determining a student's grades

than either ability or amount of time spent in study.

The survey indicates, then, that though a student has high ability, and spends a great deal of time on his studies, this is no guarantee of high grades. There are many other factors involved.

Another interesting result of the survey answered the question, "Are students really working as hard as they claim to be?" At the beginning of the study each student was asked to record his estimate of the amount of time he spent each week in study. This figure was then compared with the amount of time he actually spent studying during the survey week.

Fairly close estimates (within three hours per week) were made by 36% of the students.

Act Soon On Kent, Rockefeller Religion Fellowships, Grants

In addition to the Danforth Foundation Fellowships announced earlier this year, two other religious fellowships are available for interested students.

The Kent Fellowships are open to college graduates "who are committed to a religious approach to life and who look forward to professional service as teachers or administrators in higher education." Information is available at the Dean's Office, or from Dr. Richard C. Gilman, National Council on Religion in Higher Education, 400 Prospect St., New Haven 11, Connecticut. Applicants must take the Graduate Record Examination Aptitude Test on January 17. Applications close on January 24.

The Rockefeller Theological Fellowship Program awards are made to men and women "who are not planning on seminary or graduate theological work, but who would be willing to consider the ordained parish ministry" during a "trial year" in theological school. Nominations close December 1. Information is available at the Dean's Office.

December 15 Date For NSF Aspirants

All students considering applying for a National Science Foundation Cooperative Fellowship for graduate studies should consult with his department head or department graduate registration officer about which of the two available forms of NSF fellowships he had best apply for.

The due-date for applications is December 15. However, the MIT committee preparing recommendations will be greatly assisted in the very extensive work preliminary to making these recommendations if as many applications as possible are submitted before the deadline; as much as one week before, if possible.

Lines of waiting callers waxed into boisterous mobs as a dime, nickle or quarter became the only requisite link between Burton lobby and the rest of the Globe.

According to Professor Howard R. Bartlett, Burton's House Master, the phones were reported out of order three times during Sunday. To the dismay of the spirited callers, a telephone repairman finally appeared on the scene of operations around 6 p.m. and proceeded to "fix" the two machines. In the true experimental spirit of engineering students, the disappointed callers tried again and were surprised to find that the phones still "worked."

Once again, lines swelled outside the booths, and world wires hummed. Some callers, not moved by the prospect of oral communication, sent telegrams home, paying for them in varying combinations of the same coins.

The third call of the day was made to the telephone company and the evening's operations ended with a call to St. Louis and a comment by the operator to the effect that the caller should go ahead and drop the same quarter eight times.

According to Al Buffered, Burton House President, no action will be taken on the part of the house Judicial Committee against the students since every effort was made to make the telephone company aware of the difficulty that existed.

Academy Of Science Graduate Resident Associateships Open

A program of post-doctoral Resident Research Associateships has just been announced by the National Research Council of the Academy of Science. These associateships are offered in the biological, physical and mathematical sciences, engineering, as well as in certain areas of psychology. Each carries a stipend of between \$5985 and \$7510.

These positions are open to citizens of the United States who, besides having a doctorate, have "demonstrated superior ability for creative research."

The participating laboratories in the scheme are the National Bureau of Standards (Boulder, Col., and Washington, D.C.), the Naval Ordnance Laboratory (White Oak, Silver Spring, Md.), the Naval Research Laboratory (Washington, D.C.), the Navy Electronics Lab (San Diego, Cal.), and the U. S. Army Chemical Corps Biological Warfare Lab (Ft. Detrick, Frederick, Md.), as well as at the Air Force Installations in Bedford, Mass., Alamogordo, N. M., Rome, N. Y., and Dayton, Ohio, on behalf of the Air Research and Development Command.

Application materials may be secured by writing to the Fellowship Office, National Academy of Sciences—National Research Council, 2101 Constitution Avenue, N.W., Washington 25, D.C. Applications for 1959-60 close on January 19, 1959. Awards will be announced about April 1.

The Tech



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Letters

To the Editor:

The *President's Report* of MIT offers a welcome reassurance that the administration and faculty regard the problem of training the undergraduates for professional competence as a matter of primary importance. We applaud their diligence and ceaseless efforts in our behalf. President Stratton reminds us that "... the country looks to MIT and to its sister institutions for leadership." It is regrettable, however, that no mention is made of the task of preparing future leaders who will be morally active as well as professionally qualified. The cause of peace and world sanity demands that the men who would change our lives with their repeated offerings of new discoveries shall assume the responsibilities of educating the layman in the promises and dangers of their "brainchildren," and that they shall make sure that their inventions will be used for the progress of mankind and not as instruments of its retrogression. We need both Tellers and Paulings, men who are not willing to reap the honors of scientific reputation while remaining morally inert.

Undoubtedly the moral education of the MIT undergraduate is a matter of great importance. The compulsory humanities curriculum forces awareness to the ethical, cultural, aesthetic and religious values of the great world civilizations. It provides the potential leader with a wealth of ideas with which to compare his own. The acceptances of positions of civic, military, and moral leadership of such respected members of the MIT corporation as Dr. Vannevar Bush, Dr. James Killian, Mr. George Humphrey, and General James Doolittle are examples worthy of imitation by any member of the MIT Community.

We cannot afford to overlook the moral values in the gift of an MIT education. We must make every attempt to reassure ourselves and the world that we are ready and willing to assume our responsibility to society, and that we will never become moral jellyfish or the pawns of irresponsible politicians or dictators.

Respectfully,

Steven N. Goldstein '61

The lack of moral responsibility and competent insight in government officials is a field of much comment and deserved criticism (see our comments on the Kissinger lecture in last Friday's paper). We are glad to see the increased interest in this issue and hope it will bring results.

—Ed.

flask and flagon

Round

My vehicle had round wheels. After I locked the brakes in a screeching halt before the tavern, they were no longer round. I made a note: "Order new round tires!" in my Coop book, and entered the round revolving door. I missed the first time 'round and had to come around again. My head was spinning 'round and 'round as I surveyed the motley crew in the tavern. There was Yule Logger, my buddy, with a mug of Schafter beer. What beer! What a buddy! Yule was round. Real round. His shiny bald dome was round and smooth and golden tan just like my favorite round Schafter beer. What a buddy! I worshipped him for the resemblance.

"Yule, buddy!" I yelled across the barroom.

"Boozer, buddy!" he flung back. "Join me for a round mug of round Schafter beer!"

"I'm coming 'round for it right now!" I rejoined as I rounded the corner of the bar.

Yule was snuggling with the barmaid. She was round. She moved slightly to look at me, leaving two round craters in Yule's vest. "Round!" I thought.

I had to say something. I *had* to! I couldn't let on that women scared me. They always made me buy them round Schafter beer. And all the time I wanted it *all* for myself.

"My, what round eyeballs you have!" I commented, not looking at her eyeballs.

She answered, "Yes, I know. Just like my favorite round..."

I shot her dead. I could not stand to hear her say what she was going to say. I would have to buy her a mug of round Schafter beer, and then another, and another, and another... Then it would be gone, and I couldn't have any.

"Women are all alike," I said to Yule.

"Yeah," he mused, dumping the round barmaid in a ball on the floor. "Have a round Schafter."

The bartender brought it.

"Do you know why they call it round?" I asked him.

"Is it because they make it of malt and hops, and the hops are oblate spheroids?" he queried.

"You squarehead!" I shrieked. I pushed his bald head into the mug of golden tan Schafter beer.

"That'll teach you, squarehead!" I bellowed. It was like fitting the proverbial square peg into the round hole. I pushed hard. His occipital lobes gave, and he passed into the Forever, blowing bubbles in the golden Schafter. The bubbles were round.

"Let's go, Yule," I said. We went. We took the keg of Schafter with us.

—Emmanuel P. Papadakis G.

limelight:

Communications Biophysics

When one first thinks of Building Twenty, he usually thinks of it as just the ROTC building. This, however, is not the case. It is also the home of several groups working in various phases of research. Among these is the Communications Biophysics section of the Research Laboratory of Electronics. Headed by Professor Walter A. Rosenblith, this group of thirty specialists whose talents range from physics and mathematics to psychology and physiology has been working since 1951 on making a quantitative study of the electrical activity of the nervous system, with particular emphasis placed upon the brain. Much of the work carried on here is done in cooperation with various hospitals in the area, such as the Mass. General and the Mass. Eye and Ear Infirmary.

The research facilities of the Biophysics group were greatly enlarged in 1952, with the completion of a nine by twelve foot anechoic chamber. This room was specially constructed with foot thick wedges of fiberglass and sound-proofing materials to exclude external noises and to reduce to a minimum the reflection of sound waves from the walls. To counteract the problem of vibrations caused by the frequent use of Vassar Street by heavy trucks, the chamber was placed in a double shell of concrete blocks, separated by a dead air space, and built upon a special foundation. Thus, this addition to wing E has the undisputed claim to being one of the quietest places on campus.

Using this anechoic chamber, the group has carried on an extensive research program, analyzing electrical responses to various sensory stimuli. This painless testing program has been carried out upon anesthetized animals, generally cats or monkeys, in which a system of fine wire electrodes pick up the electrical responses of the brain to varying sound patterns. These responses are amplified in the adjoining recording and computing room. Here, the impulses are recorded on magnetic tape and are sent through special computers designed by members of the group to analyze wave shape and response time. The group has also been interested in the study of brain wave patterns in cooperation with one of the computer groups at Lincoln Lab. The acquisition of these computing facilities has greatly increased the accuracy of their experimental results.

This group also carries on a limited testing program on humans, in which an "electrode cap" placed on the subject's head will pick up the electrical impulses which the brain generates without piercing the skin. For example, it is possible to tell rather accurately when a subject just hears a sound. One possible outgrowth of these experiments would be the testing of hearing in infants. Thus, if there is a chance that an infant may have partially lost his sense of hearing, an analysis of the electrical responses of his brain to certain sound patterns could determine the extent of the loss. Work is also being done, though to a lesser degree, with the senses of sight and touch. The senses of smell and taste are generally not suited for this type of program, since they are not as highly developed and vary from one individual to the next. The cooperation between the scientist and the engineer, both interested in how the brain responds to external stimuli, is just one example of what is being done in the newly created Center for Communications Science. "What hath God wrought?"

David Nickles '62

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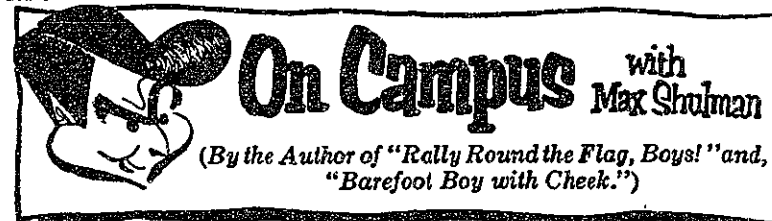
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THE CLOTHES YOU SAVE MAY BE YOUR OWN

In this column we take up fashions for college men, which means of course, the Ivy Look. Today's Ivy Look clothes have made a great stride forward. Not only do they have thin lapels, three buttons, narrow trousers, and a minimum of shoulder padding, but—now hear this!—this year they are *actually covered with ivy!*

This new development, while attractive beyond the singing of it, nevertheless gives rise to certain hazards. For instance, people keep trying to plant you on Arbor Day. Indeed, this is precisely what happened to two SAE's of my acquaintance, Walter R. Gurlash and Fred Rasp. Before they could protest, they were snatched up, planted, limed, and watered, and today they support a hammock in Cut and Shoot, Vermont.



Let us now discuss shirts. Again this year the campus favorite is the good old Oxford with button-down collar and barrel cuffs. This is without doubt an admirable garment, but let me ask you a question: if you don't wear anything but Oxfords, what do you do with all the cuff links people have been giving you for your birthday since you were twelve years old?

Well sir, some fellows have their wrists pierced, but what E. Mackenzie Sigafos, a Chi Psi of my acquaintance, did was to take a dozen pairs of his handsome gold monogrammed cuff links and string them together in a charm bracelet for his girl, Jo-Carol Isobar.

(It turned out, incidentally, to be a mistake. In short order so many admirers accrued to Jo-Carol on account of her gorgeous bracelet that she grew tired of plain old E. Mackenzie, and one night when she was seated on a bench in Lovers Lane throwing sticks for E. Mackenzie to retrieve, she suddenly, cruelly, without warning, told him they were through.

"I am heartbroken," said E. Mackenzie, heartbroken. "But if go you must, give me back my charm bracelet."

"No, I will keep it," said Jo-Carol.

"What for?" said E. Mackenzie. "You can't wear it. The initials on the cuff links are all mine—E.M.S."

"Ha, ha, the joke is on you," said Jo-Carol. "Yesterday I was voted Miss Chinese Restaurant of 1958."

"So?" said E. Mackenzie.

"So," replied Jo-Carol, "E.M.S. does not stand for E. Mackenzie Sigafos. It stands for *Eat More Subgum!*"

A broken man, E. Mackenzie today squeezes out a meagre living as a pendulum in Cleveland. Jo-Carol was killed in a tong war.)

But I digress. We were talking about well-dressed men, and the one essential for every well-dressed man—and every well-dressed woman too—is a well-dressed cigarette—neat, compact, flavorful, and correct for work or play, sunshine or shower, repose or revelry, darkness or light. And where does one find such a perfect companion? Just go to any tobacco counter and ask for Philip Morris. Ask for it in long size or regular. Ask for it in soft pack or hard. But ask for it; that's the important thing. Don't just stand there making cryptic gestures at your tobaccoist. He may be armed.

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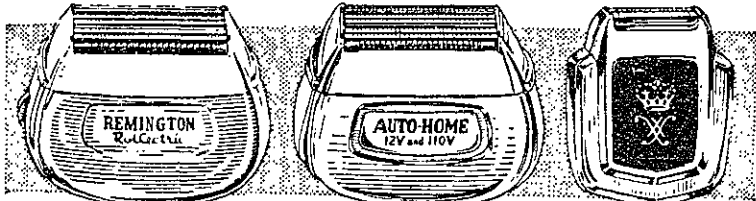
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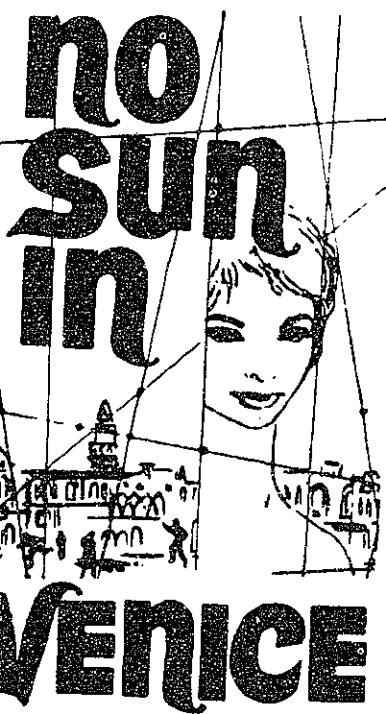
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Appointments on Monday and Tuesday, December 1-2, can be arranged through the Student Placement Center.

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SPORTS WRITERS
With the coming winter sports activity there are several openings on The Tech sports staff. For interesting assignments and lots of fun contact Dave Packer at the sports desk (Ext. 2731) and Sunday or Wednesday night. At other times call 3217.



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Coaches Rate Tech Soccermen High, Better Team in '59

A conference of soccer coaches Sunday from New England colleges rated the MIT varsity team eighth out of 24 schools in the area. The group gave the Engineer squad 550 out of 1000 possible points in the rating system. The University of Connecticut kickers led the poll with 909 points, followed by Harvard, Trinity, Amherst and Springfield.

Charles Batterman, MIT varsity soccer coach, said that the Beaver team should be much improved next year with the return of Andrus Villu, a center halfback who excels on defense. Villu has been away from Tech on an exchange program. Batterman also pointed out that the MIT squad will lose only three men by graduation, captain John Comerford '59, Subin Banharnsupvat '59 and Derrick Chin '59.

The conference chose to retain this year's set of soccer rules for the coming season.

An announcement of special interest to fall graduates in Engineering and Science

B.S. • M.S. • Ph.D.

Lockheed Missile Systems Division has created a number of special, new openings with unusual opportunities for fall graduates in electrical engineering, mechanical engineering, aeronautical engineering, mathematics or physics.

The Division is engaged in a broad program of basic research in all areas of scientific activity in missile and space technology, including advanced systems research; nucleonics; physics; chemistry; mathematics; design; test; electronics; flight sciences; and manufacturing. Some of the important studies under investigation are: man in space; space communications; ionic and plasma propulsion; space physics; nuclear propulsion; magnetothermodynamics; oceanography; computing machine memories; human engineering; noise suppression; materials and processes; boundary layer control; electro magnetic wave propagation and radiation; and operations research and analysis.

Lockheed is systems manager for such major long-term projects as the Navy Polaris IRBM; Air Force Q-5 and X-7; Army Kingfisher and other important research and development programs.

The Division was honored at the first National Missile Industry Conference as "the organization that contributed most in the past year to the development of the art of missiles and astronautics."

LOCATION

Headquarters for the Division are at Sunnyvale on the San Francisco Peninsula and new modern Research and Development facilities are located in the Stanford Industrial Park in nearby Palo Alto. A four thousand acre company-owned static test base is located in the Ben Lomond mountains thirty miles from Sunnyvale. Other Division locations are at Van Nuys and Santa Maria, California; Cape Canaveral, Florida and Alamogordo, New Mexico. Together, they occupy more than two million square feet of laboratory, engineering, manufacturing and office space and provide the latest in scientific and technical equipment.

ASSIGNMENTS

Upon joining the Division, you are assigned to your special areas of interest and work directly under distinguished leaders in your field. The company encourages and sponsors individual communication with other scientists, the publication of papers and articles, and participation in symposiums and conventions. Every opportunity is given members of the technical staff to participate in the initiation of advanced technological developments.

GRADUATE STUDY PROGRAM

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IMPORTANT

The number of these special openings is limited. If you are interested, please **wire collect** directly to Mr. R. C. Beverstock, College Relations Administrator, 962 W. El Camino Real, Sunnyvale, California, giving your major, and degree level.

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Delts Edge Fijis 7-6 in Year's Top Game; Gazers Take "B" Title

Last Minute Scoring Decides "A" Crown

In the hardest fought, best played intramural football game in history Delta Tau Delta defeated Phi Gamma Delta 7-6, Sunday, to win the A Division crown.

A smashing defensive battle all the way, all of the scoring came in a last minute of play. The Delts intercepted a Fiji pass and moved to the one yard line on the top-notch passing of quarterback Ernie Potter '59.

With 50 seconds to go Potter hit Dan Michael '60 in the end zone for the score, and heaved one to Nick Kneen '62 for the extra point.

Long Passes

With time running out, the Fijis at the kickoff roll but it refused to go in the end zone, and ended on the Phi Gam 2 yard line. In three quick plays Fiji quarterback Al Beard completed two spectacular long passes to Bruce Nelson '60 and Don Aucamp '57 for the tally just as time ran out making the score 7-6.

The extra point play, high point of the game, was a pass from Beard to Aucamp, but was broken up by fast moving Potter, to end the game with the Delts champions 7-6.

Over 200 spectators lined both sides of the field for the game, played in crisp, sunny football weather.

Defensive Battle

The entire game was a striking defensive battle as both teams were forced to make punt after punt. The Delts gained virtually no yardage on punning plays as the Fiji defense constantly broke through into their back-



Fleet Fiji Bob Williamson casts a frightened look at the pigskin which he has just caught as Terry Bray '62 rushes in to make the tag for the Delts. Teammate Mike Haugh '59 whirls to follow the play and Fiji Chuck Ingraham '59 heads in to lead interference.

line to halt most running and make long passes impossible.

The first quarter set the pace for the game as neither team succeeded in making a first down. Early in the second quarter the Fijis made the first scoring threat as a 4th down punt center went over the Delt punter's head and gave the Phi Gams the ball well into scoring territory.

But the Delt defense held as it never seemed to fail at crucial times. The rest of the quarter went without outstanding offensive play, although the Fijis appeared to be rolling once as Beard completed several short passes to Chuck Ingraham '58 and Aucamp for a pair of first downs, only

to be halted early in Delt territory. The halftime gun left the score 0-0.

Injuries

Early in the third quarter Potter was cut above the eye as his glasses broke as he made a hard tag. A few plays later the rugged play showed more clearly as Fiji defensive stand-out Ed Pollard '60 was knocked out in the tough line play.

Near the end of the quarter the Fijis moved into scoring territory again, within ten yards of a tally. However, fast moving Dan Michaels intercepted a pass in the end zone and the game seemed to settle once again into a defensive clash.

(Continued on page 6)

Maynard's Passing Wins for Sky Gazers

The Sky Gazers overpowered Student House 12-0 to earn the title of Division B Intramural Football Champions in a hard-fought game at Briggs Field Saturday afternoon. In order to clear up the cloud of confusion as to the real nature of the Sky Gazers, it might be well to explain that they are a group of U. S. Air Force 2nd Lieutenants doing graduate work in meteorology here at the Institute under a special program.

Quarterback Charles Maynard's fine passing and ball handling proved to be the deciding factor in the victory for the Sky Gazers. Sparked by his brilliant aerials in the second quarter the Gazers moved from their own 28 yard line to pay dirt in only three plays, the touchdown coming on a 25 yard pass from Maynard to Darryl Copeland. After returning the kick-off to the 20 yard line, Student House attempted a pass which the Sky Gazers intercepted. Student House then nabbed a Sky Gazer pass only to lose the pigskin once again via the interception route. Thus the first half ended with three consecutive aerial thefts in a wild display of flying footballs.

After a scoreless third period in which neither team made any serious threat, the Sky Gazers capitalized on an intercepted pass early in the final quarter and tallied their second marker on a short pass from Maynard to Copeland. Undaunted, Student House marched all the way to the Sky Gazer 4 yard line, but time ran out with the Sky Gazers on top, 12-0.

Phi Kappa 3rd

Phi Kappa annexed third place in the B division as they blanked Walker 8-0 Saturday. Heavy winds hampered long aerial attempts by both clubs. The only TD in the tilt came in the second period as George Snyder '59 flipped a 10-yard pass to Dave Sabo '61 for the score.

Last Play Score

The Phi Kaps tallied again on the last play of the game as Roger Travis '59 trapped a Walker back in the end zone for a safety.

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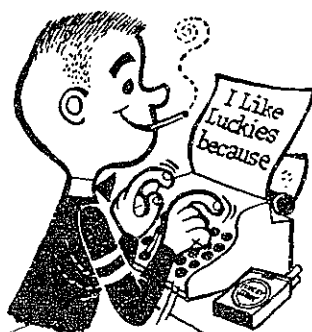
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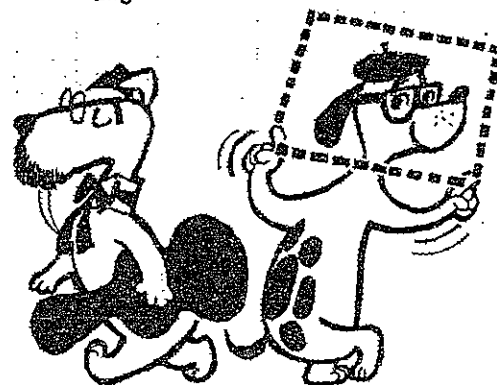
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English: UNHIP DOG



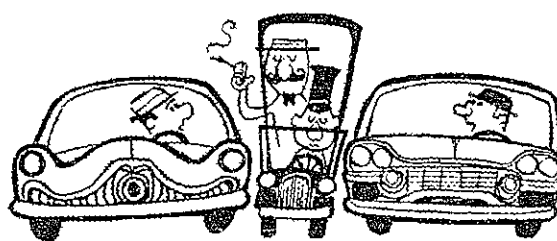
Thinklish: SQUARDALE

English: SCREWBALL BULLY



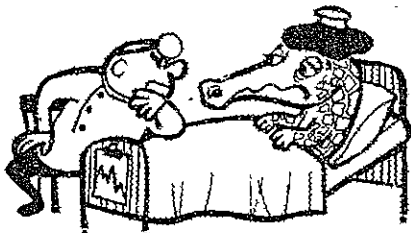
Thinklish: MEANIAC

English: EXTREMELY NARROW CAR



Thinklish: SLIMOUSINE

English: SICK REPTILE



Thinklish: ILLIGATOR

English: CROWDED COLLEGE GROUNDS

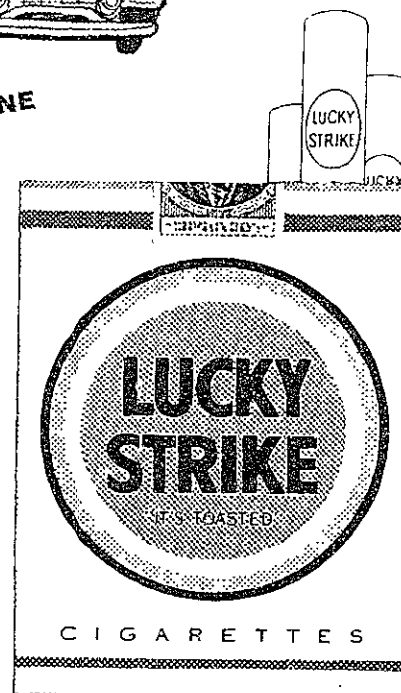


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The A division consolation contest set for Saturday between Sigma Alpha Epsilon, champions of League I, and Beta Theta Pi, League II victors, was cancelled by mutual agreement. The houses will equally divide the total number of intramural trophy points for third and fourth places.

Their passing, especially in the first quarter was spectacular as Kneen and Michael hauled in Potter's short medium length passes which led to the score.

Delt defensive center Lloyd Fisher played his best game ever as he constantly broke through the Phi Gam

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FIJI-DELT FOOTBALL

(Continued from page 5)

Delts Move

As an overtime looked inevitable, the Delts changed the picture late in the last quarter as Bob Fisher '62 intercepted a Fiji pass and moved into Phi Gam territory. A fourth down Potter-Kneen pass and a ten yard penalty on the losers put the ball on their 15, and another beautiful pass by Potter to Kneen in the right flat gave the Delts first and goal on the one yard line.

Potter opened up scoring with a quick buttonhook to Michael in the left flat, and a similar throw to Kneen made the score 7-0 for the Delts with 50 seconds left.

Taking the kickoff on the two, Beard's long passes against a two man Delt line put Aucamp across and a short incomplete pass to Don for the

extra point ended the game with the Delts champions.

Not enough can be said about the defensive play of both teams. Larry Boyd '59, Pollard, and Bruce Blanchard '55 were the Fijis top tag men, while Fisher, and Joe Verdeber '60 did equally well for the Delts.

Even though hard rushed, Delt quarterback Potter threw well, as did the Phi Gams Beard. Speedy Bob Williamson '59 did some fine running for the Phi Gams, although the Delt defense was hard to crash.

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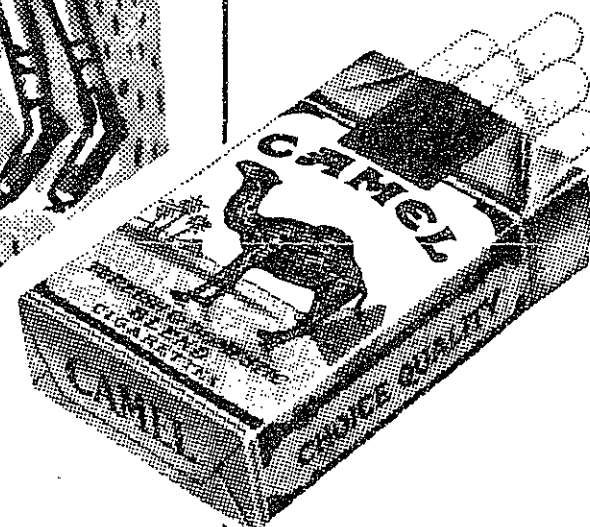


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A Campus-to-Career Case History



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Since Stu was hired, he's climbed poles, installed telephones and worked with architects and contractors. He's designed ventilating systems and studied labor-management relations. He's handled million-dollar-a-month settlements

with connecting telephone companies for mutual use of Long Distance lines. And he's learned how complex bookkeeping is reduced to punches on IBM cards.

Today, Stu is a Staff Engineer in San Diego. He programs equipment and money for engineering projects as far ahead as 2½ years in one of the fastest growing areas in the United States.

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