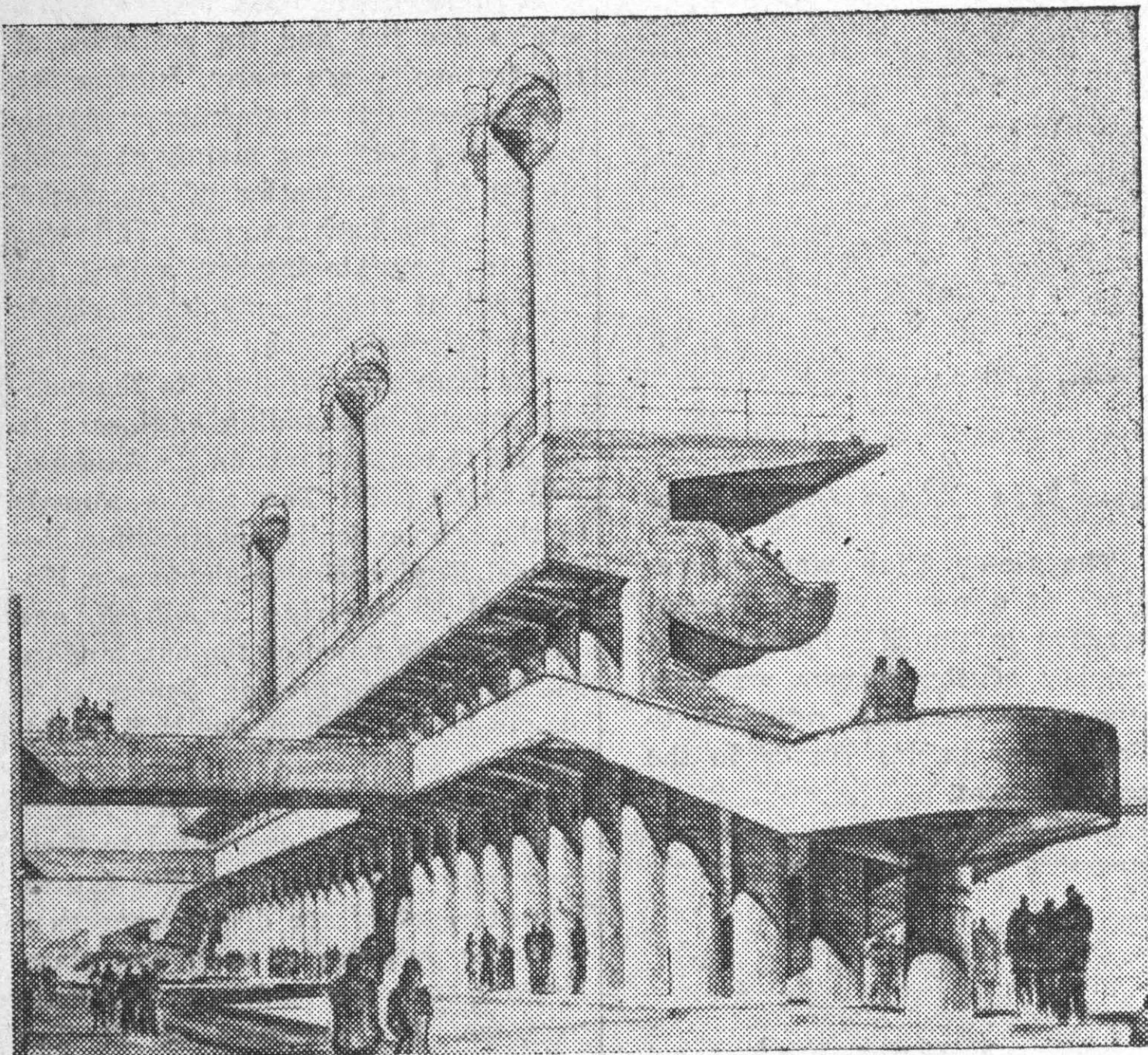


Millsap, Schneider, Johnson, Greene Selected As ANAK Initiates At IFC



West Stands Work Slated To Begin

The seating capacity of Grant Field will be increased to 40,000 at the termination of construction work to be started within the next two weeks. The \$614,000 contract for this work was awarded Tuesday, December 10, to J. A. Jones Construction Company of Charlotte, N. C., according to a statement made by Athletic Director W. A. Alexander.

A completely new concrete grandstand seating 14,000 people will replace the present West Stand, which now seats only 5,400. The new construction will be built over the old tiers and will include an overhanging upper deck where a large press box and six radio booths will be provided, having a space on top for photographers. All of the seats will be made of wood like the seats in the other stands. Since the new stands will extend over Fowler Street, this street has been narrowed approximately ten feet to allow room for the structure.

The work on these stands is scheduled to be completed within eight months in time for the 1947 football season.

Dr. Burton Speaks To Chemical Society

Following a dinner in Brittain Dining Hall last night the Georgia section of the American Chemical Society presented a lecture on "Atomic Energy and Radiation Chemistry" by Dr. Milton Burton, Professor of Chemistry at Notre Dame University.

In his lecture Dr. Burton discussed the effects induced in matter by high-energy particles and radiations of two types, those natural ones associated with nuclear changes, and the artificially produced high-energy particles and radiations similar to the natural ones. He also discussed some of the various possible applications of radiation chemistry.

Class Officers To Be Elected

The Student Council has issued a complete list of candidates for the election of class officers. The deadline for submitting applications for candidacy was Wednesday, December 11. The primary election will be held on Monday, January 13.

In order that each student may become acquainted with the candidates in his class, all candidates will be required to appear in person at a meeting of their respective class before the date of the primary election. These meetings will be arranged by the Student Council and notice will be given of them later. Also for the students' benefit the list of candidates is published herewith.

Seniors: Buddy Fiske, H. R. Henry, Joseph W. Howell, E. Calvin Johnson, W. C. (Bill) Mann, George Mathews, Robert F. Swinnie, Robert O. Wilhelm.

Juniors: Wally Buchanan, Leonard M. Diana, Douglas A. Donald, Rick Hemmingway, Al Newton, Bob Baker.

Sophomores: Tex Branson, George Broadnax, Jimmy Castleberry, William H. Green, Lewis Hook, William (Bill) La Roche, Berthold Gotlieb Stumberg, Jr., Jimmy Wall, Jim Williford, Carl "Steamboat" Fulton.

Freshmen: Paul A. Chubb, Tommy Coleman, Jack Griffin, William H. Hammond, James M. Norman, Jr., Ewell Pope, Derward "Dub" Terry, Austin W. West, Jr.

Outstanding Students Tapped In Ceremony

By Al Newton
TECHNIQUE Mgr. Editor

Traditional tapping for ANAK, the highest honor an undergraduate student can receive on the Tech campus, took place Friday evening, December 6, at the first of the three Interfraternity Council dances held last weekend, with Niles Millsap, Charles Schneider, Doyle Johnson, and Ken Greene composing the list of ANAK initiates.

Taking part in the tapping ceremonies were Bob Davis, president; George Mathews, vice-president; and Calvin Johnson, secretary-treasurer. The ceremonies were performed at 10:30 p. m. immediately preceding intermission.

Among the honors held by Niles Millsap on the campus are editor, *TECHNIQUE*; president, Pi Delta Epsilon; vice-president, Beta Theta Pi fraternity; treasurer, ODK; chairman, Publication Board; member, Student Council, Interfraternity Council, Phi Eta Sigma, Athletic Board, "T" Club; varsity tennis; and holder of the 1946 Southeastern Conference doubles title.

Charles Schneider has served as president, Student Council; president, A.S.M.E.; president, Ramblin' Recks; vice-president, Pi Tau Sigma; vice-president, Bulldog Club; Student-Faculty Honor Committee; Student Lecture and Concert Committee; and *TECHNIQUE* and *ENGINEER* staffs.

Doyle Johnson's activities include editor, *ENGINEER*; president, Alpha Chi Sigma; secretary, junior class; vice-president, A.I.Ch.E.; captain, R.O.T.C.; recipient, Phi Eta Sigma Freshman award, A.I.Ch.E. Junior award; member, Tau Beta Pi, ODK, Pi Delta Epsilon, Student Council, Phi Kappa Phi, A.S.M.E., Bulldog Club, and *TECHNIQUE* and *BLUE PRINT* staffs.

Ken Greene has served as editor of the *ENGINEER*; president of A.I.Ch.E.; member of ODK, Phi Kappa Phi, Tau Beta Pi, Phi Eta Sigma, Pi Delta Epsilon, Debating Society, Interfraternity Council; recipient of the A.I.Ch.E. Junior award and Gold "T"; and member of the Briarian Society.

Engine "Borrowed"

Anyone seeing or knowing the whereabouts of the Baby Jacket Gasoline Engine taken from the Machine Lab class room will please notify Dean Griffin at once.

Whoever "borrowed" the motor was apparently ignorant of its importance, for it is vitally needed in the laboratory for next quarter's book. It can be readily identified because of its special design; it has a steel sleeve in an aluminum jacket with a special 1 inch bore and 1 inch stroke piston.

Because of its necessity next quarter, it will be deeply appreciated by Major Case and the entire Machine Shop personnel if the motor is returned, which may be accomplished by the "borrower" without revealing his identity.



George Mathews is shown tapping Ken Greene during the ANAK ceremony at the Friday night IFC dance. Also pictured above are, left to right: Bob Davis, Charles Schneider, Doyle Johnson, Calvin Johnson, and Niles Millsap.

—Photo by Bill Evans

Tau Beta Pi Initiates 44 Outstanding Students

By Erskine Love
TECHNIQUE News Editor

Tau Beta Pi, national honorary society, initiated forty-four new members into the fraternity last Tuesday night. This is the largest group of initiates in the history of the Georgia Tech chapter, the reason being that many of the returned veterans who were eligible just before leaving school were initiated along with the regular quota of men who have just become eligible.

Tau Beta Pi is the highest honor that an undergraduate engineering student can acquire. Twice during the school year outstanding members of the junior and senior classes are elected. These students are selected on a basis of scholarship, leadership, integrity, character, interest shown in technical subjects, and participation in school activities.

Those initiated were:

H. O. Davidson, D. P. Chandler, F. M. Gribble, D. W. Moeller, K. P. Moseley, L. E. Ramos, G. S. Patrick, C. B. Moore, Jr., J. M. Davis, F. W. Smith, P. M. Gingles.

R. C. Dougherty, R. E. Spencer, E. L. Parker, R. W. Williams, A. J. Faustini, F. M. Hannill, G. C. Dunn, W. G. Quinn, J. F. Richards, M. S. Cohn, A. F. Latta.

A. O. Hollis, V. C. Watkins, J. H. Best, W. D. Hammersla, J. M. Hoftman, W. E. Newton, B. E. Stelzenmueller, Bob Street, Hal Henry, R. A. Robinson, S. A. Newton.

G. D. Malone, H. D. Roynes, D. M. Grill, H. L. Short, J. L. Hancock, Frank Bull, L. V. Roger, R. M. Thomas, W. C. Giegold, J. W. Weems.

I. M. Society Makes Tour of Atlanta Plant

Last Friday afternoon, the IM Society and other members of the IM department were taken through the Atlanta branch of the Chevrolet Assembly Plant. Mr. Johnson, the manager of the plant, took the group on an extensive trip along the many assembly lines and explained the various procedures that are used in the assembly of the Chevrolets.

One of the most interesting parts of the trip was the final assembly of the bodies, chassis, grill work and wheels. Even though different styles of bodies and different colors all go along the same assembly line, all of the parts come to the right point at the right time.

Ingram Made YELLOW JACKET Editor

WATCH REPAIRS

1/3 OFF

To Tech Students

W. O. BRYSON

327 Peachtree Arcade

Publication Board Appoints Alexander Business Manager

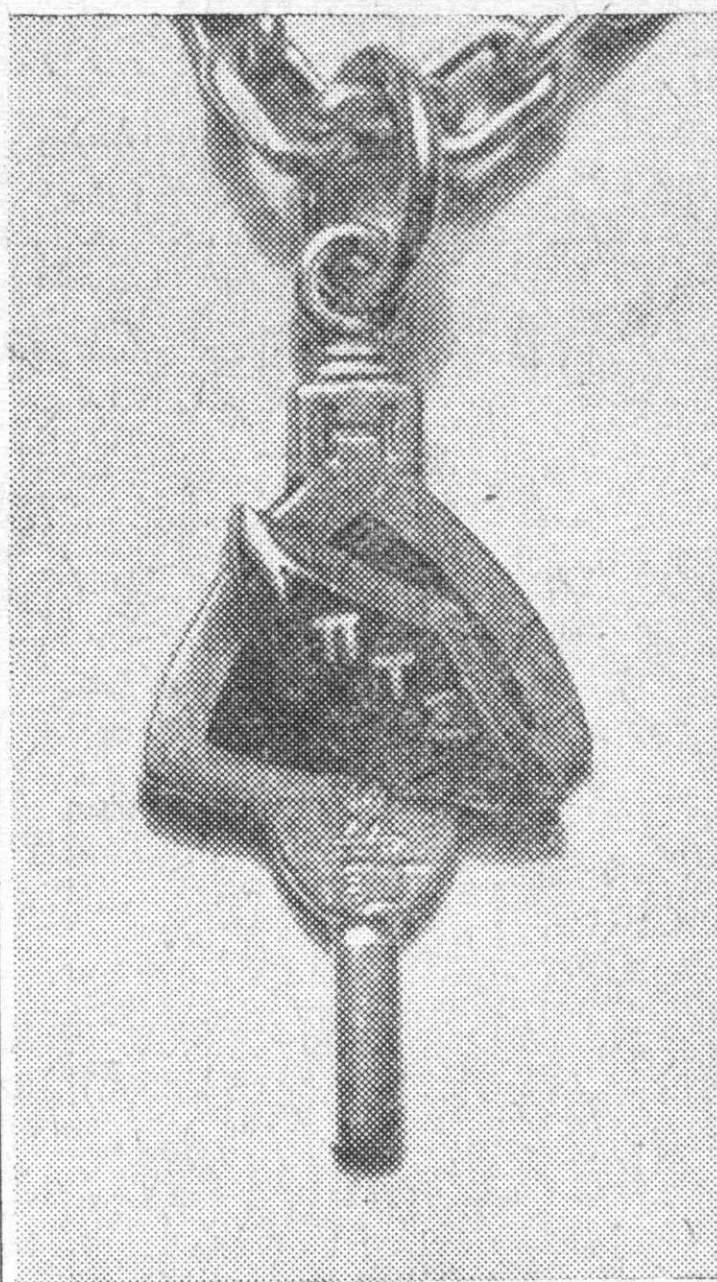
By Howard Johnston

The Publication Board announced Tuesday afternoon that Avrea Ingram is to be the editor of the recently reorganized YELLOW JACKET with Gene Alexander holding the position of business manager.

Ingram stated that the first issue will come out during the beginning of next week. This copy will be a special Christmas edition. As the most efficient method of distribution, cards will be placed in each man's post

office box and to obtain his copy he must present this card at the Information Desk upstairs in the Administration Building. An announcement of interest to seniors graduating at the end of this quarter states that any man in this category may subscribe for the remaining four issues by paying one dollar at the Information Desk in the Administration Building.

The YELLOW JACKET, discontinued several years ago due to the wartime emergency and shortages, is Georgia Tech's oldest publication. It was first issued back in 1897 and was titled THE GEORGIA TECH. In 1909, the title of this school magazine was changed to the present title. The first steps towards reactivation of the YELLOW JACKET were made last April. After months of work and careful planning by the staff, final approval was given by the school.



Pi Tau Sigma M.E. Fraternity

Pi Tau Sigma is the honorary Mechanical Engineering fraternity, selecting its members from outstanding junior and senior Mechanical Engineering students. To be eligible for membership, a student must not only stand high scholastically in his class, but he must fill requirements of character and leadership.

Pi Tau Sigma is an active fraternity. Absences from meetings and affairs are few and the activities of the fraternity are many. During the past semester the fraternity cooperating with ASME was mainly responsible for the reactivation of Engineers' Day on the Tech campus. This was held to stimulate interest among the students of neighboring high schools toward Georgia Tech.

The fraternity brought to the campus several outstanding engineers to lecture to the students on Professional Engineering. Pi Tau Sigma awards to the scholastically outstanding Mechanical Engineering sophomore a Mechanical Engineering Handbook, and engraves the name of the outstanding Mechanical Engineering Senior on a plaque in the hall of the M.E. building.

Members of Pi Tau Sigma realize that the fine work accredited to their fraternity will go on in the future. Therefore, they are deeply concerned with the progress of each new class. From it come the leaders in the years to come. The members of Pi Tau Sigma invite the men of the freshmen class to look forward to your responsibilities.

Prof. Wilcox Elected S.A.M. Representative

Prof. D. B. Wilcox of the Department of Industrial Engineering was elected to serve as Regional Representative on the Executive Committee on Student Chapters of the National Society for the Advancement of Management, at the New York City convention of the organization which was held last week. Prof. Wilcox will serve with Prof. Keeler of U.C.L.A. and Prof. Porter of New York University under the chairmanship of Dr. R. L. Jacobs, National Vice-President of the S.A.M. It will be his function to coordinate the expansion of this actively growing organization throughout the colleges of the Southern United States. Student groups desiring to establish chapters must submit their charters through this committee.

Georgia Tech's student chapter received very favorable mention at the National Convention. The new president of the organization is "Buddy" Fiske. Every other week prominent speakers and other interesting programs are arranged.

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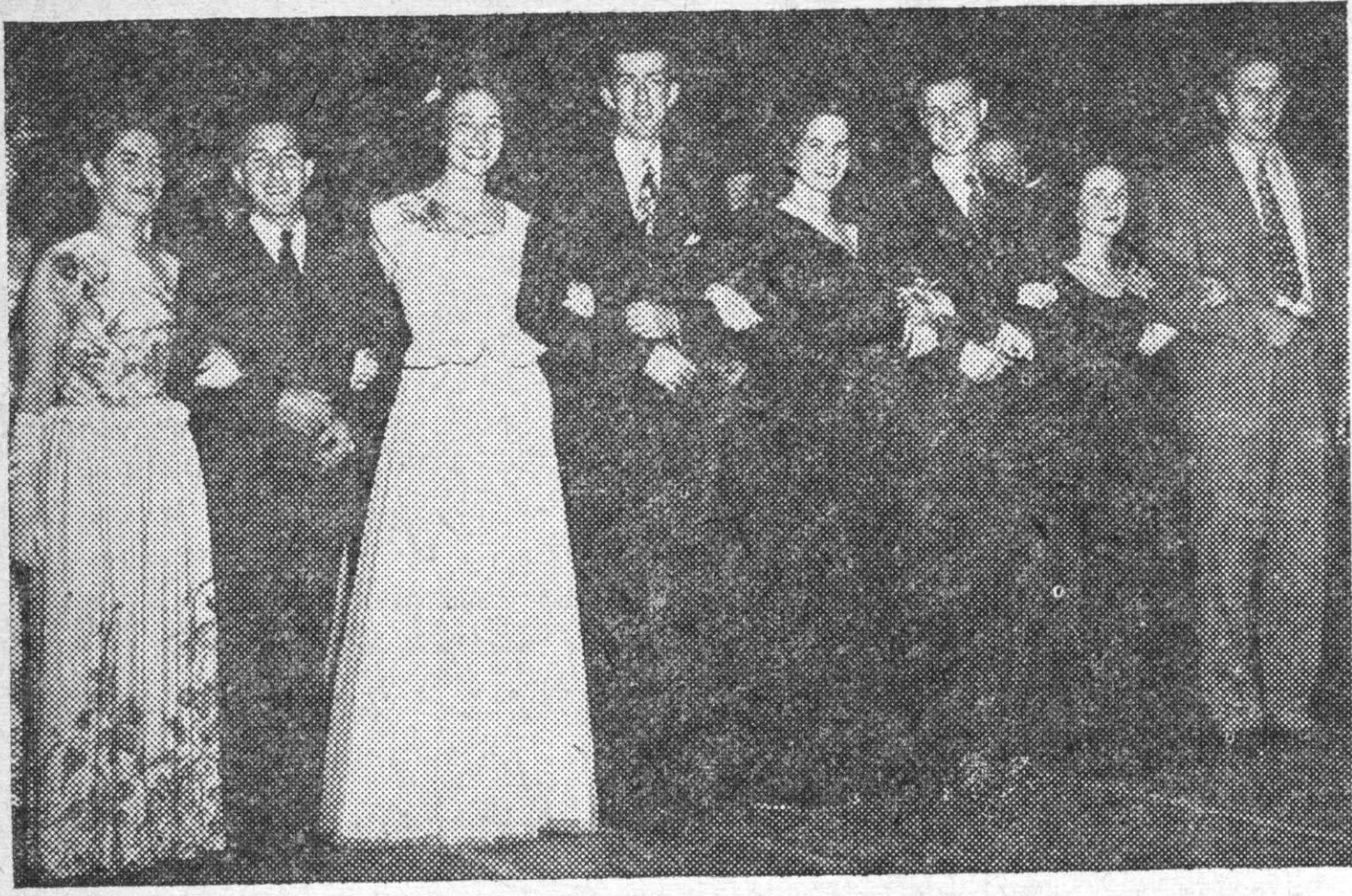
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IFC Leadout



—Photo by Bill Evans.

Shown above are the IFC officers and their dates in the IFC Leadout which took place Saturday night. Left to right are: Joe Maas, treasurer; Ed Likens, secretary; Calvin Johnson, vice-president; and Bob Davis, president.

New ROTC Program Offers Many Advantages For Vets

The advanced course of the new ROTC program now in effect at Georgia Tech offers a number of distinct advantages to the former service man. Many of the veterans in school have realized this fact and have already enrolled in the ROTC. Of the 530 students now in the ROTC, approximately one-fourth, or 125, are veterans of the armed forces.

It is believed that many of the veteran students when entering school last September decided to get settled first in their other academic work before beginning their military study. It is also believed that some of the veterans are not familiar with all the advantages which they may gain by pursuing the ROTC program of instruction. For the benefit of these two groups, as well as all other veterans, information as follows is offered relative to the ROTC two year advanced course.

Pay Received

(1) Monetary allowance in lieu of subsistence of approximately \$180.00 for a 9-month school year to be paid monthly at the approximate rate of \$20.00 per month; (2) Total uniform allowance of \$87.07 for the two years of the advanced course; (3) Pay of Army enlisted man of seventh grade (\$75.00 per month) while at summer camp plus 5 cent per mile to and from camp; (4) All of the above listed emoluments are in addition to benefits received through the GI Bill of Rights.

Instruction: Students in the advanced course receive 5 hours of instruction per week for two years (6 quarters). Summer camp, between the first and second years of the advanced course, is of six weeks duration. The government pays all the expenses of the summer camp, in addition to the pay and travel allowance listed above.

Credit Given

Credit toward graduation: During the two years of the advanced course, the ROTC student earns 18 credit hours (3 credit hours per quarter). Perhaps the greatest advantage of the ROTC advanced course is that it leads to a commission as a Reserve Officer in the U. S. Army.

Units (Branches of the Service) at Georgia Tech: At the present time five ROTC (five branches of the service) are available at Tech. They are Air Forces, Coast Artillery Corps (Antiaircraft Artillery), Infantry, Ordnance, and signal Corps.

Eligibility: Students who have had twelve months or more honorable active enlisted service in World War II in the Army, Navy, Marine Corps, or Coast Guard will be given credit for the entire ROTC elementary course and may apply for enrollment in the advanced course.

The student must have at least two more years in college at time of enrollment so as to assure completion of the two year advanced course, must not have reached his 27th birthday at time of enrollment in advanced

course, must be a citizen of the United States, must pass the physical examination prescribed by the War Department, must successfully complete the ROTC Screening Test, must complete the AGC Test with a minimum score of 110, must be enrolled as a regular day student (Division Emergency Training students not eligible), and must execute a written agreement with the Government to complete the ROTC advanced course (including summer camp), contingent upon remaining in school, and to accept a commission upon completion of the course.

Student Council Minutes

December 10, 1946.

The meeting was called to order at 7:30 p. m. by President Turner. There were 17 members present and present also was Mr. Commander. Members absent were W. Healy, P. McHugh, J. Nolan, and W. Queens.

Mr. Commander spoke on the principles and objectives of the World Student Service Fund Drive which is to be held next quarter and requested the support of the Council in this coming drive.

The meeting was opened for business with J. Faulkner's motion that the Student Council donate \$200 to the World Student Service Fund. This motion is to be voted on at the next meeting of the Council.

The report of the Finance Committee was given by J. Faulkner and included a thorough investigation and detailed report of the finances of the College Inn. A complete report on these and other finances is to be published at a later date.

N. Millsap reported on the question of donations to the O.D.K. Banquet Hall and recommended that this subject be tabled pending clarification of donations from other sources.

A report on the actions of the Ring Committee was given by C. Cooper. This committee is to investigate the possibility of returning the purchasing of class rings to a Student Ring Committee as called for by the Constitution.

The Athletic Committee report by President Turner was that the committee is working and will report to the Council as soon as definite plans have been formulated.

C. Cooper moved that the \$100 donation to the "Pirates of Pinzance" presented by the Glee Club be voted on at the next meeting.

J. Bain and H. Westbrook were appointed to work with Dean Griffin concerning the use of voting machines in the coming class officer elections.

C. Cooper volunteered to investigate the possibilities of a drive to clean up the campus and to ascertain what could be done to install containers for waste matter on the campus.

R. Swinnie was appointed to contact the presidents of the Ramblin' Reck and Bulldog Clubs and report on what actions can be taken to stimulate school spirit.

President Turner brought to the attention of the Council that the Dean's Office has files for sole use of the Student Council and that these files are available to the student body.

He also announced that arrangements have been completed for a Student Council Bulletin Board and Suggestion Box for use by the Student Body.

A committee consisting of: D. Johnson, Chairman, E. Holcomb, and H. Westbrook was appointed to investigate the elimination of congestion in the College Inn and post office.

N. Millsap's motion that the Student Council give its whole-hearted support to the World Student Service Fund Drive on the campus was carried.

With no further business the meeting was adjourned at 9:25 p. m.

Respectfully submitted,
JOE GILLIAM, Secretary

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The College Inn employees wish to express their appreciation to the student body for its cooperation in the past year. They also wish to extend the season's greetings to the student body, th faculty and school employees.

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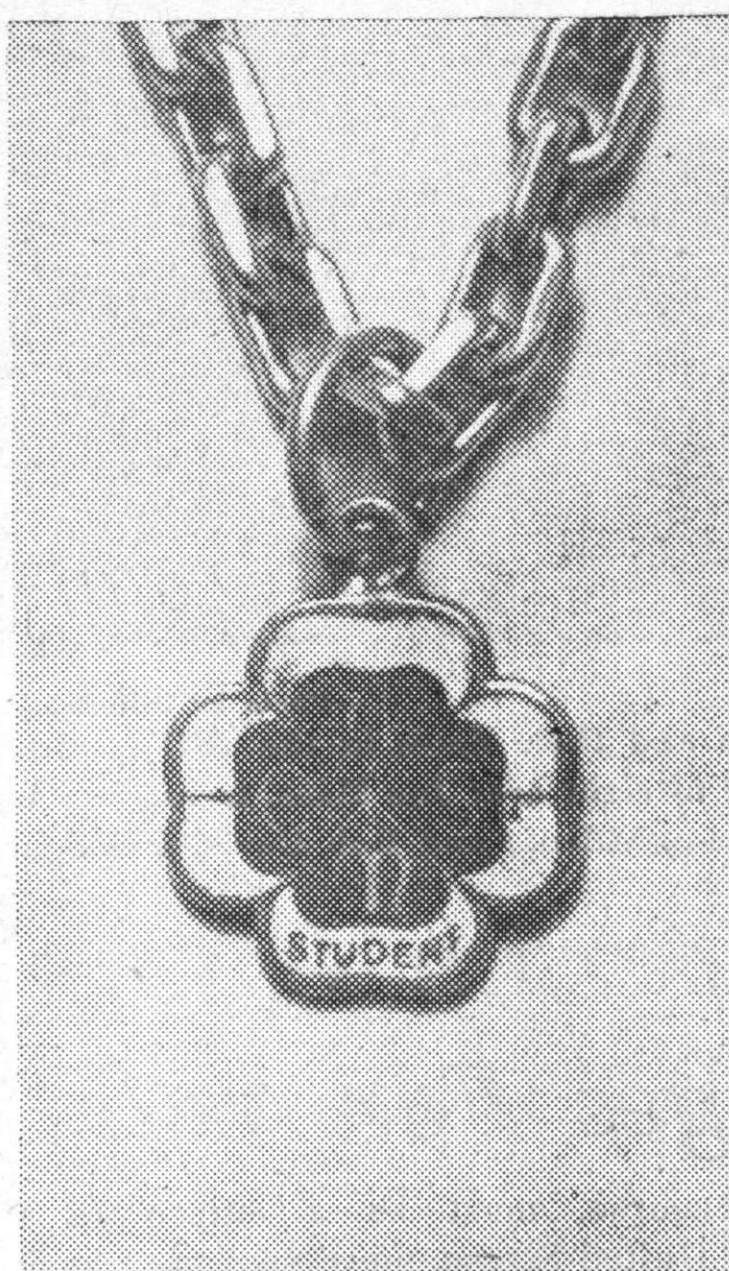
60 Broad Street, N. W.
WAlnut 5776 Atlanta, Ga.

ASME Student Branch Open For Undergraduate Members

The Student Branch of the A.S.M.E. at the Georgia School of Technology is a branch of the national organization, The American Society of Mechanical Engineers. Any student registered as a regular student of

engineering in an approved university or technical school may file application for student membership. Membership in the Ga. Tech Student Branch is limited to junior and senior students, each member receiving a subscription to the "Mechanical Engineer" in addition to a pin or watch charm. Upon graduation students may transfer directly to Junior Membership.

The Ga. Tech Student Branch endeavours to bring to the student a more direct and personal contact with the engineering profession. Technical films of great interest and educational value are shown periodically at the regular meetings of the society. Talks by well known practicing engineers are sponsored by the Student Branch, both for A.S.M.E. meetings and other student gatherings. Perhaps most interesting and of more educational value are the field trips taken by student members to pumping stations, power plants, or other objects of interest to engineers, in and around Atlanta.



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ODK Revising Point System; Plans Banquet

Ga. Tech chapter of Omicron Delta Kappa, national honorary fraternity based on activities, is now revising their system of evaluating points, in order that they may more fully correlate the point system with the new quarter system. Work is now in progress on this matter, and the new system will appear in a later issue of the TECHNIQUE, probably during the winter quarter.

ODK is also sponsoring the quarterly Presidents' Club Banquet for February 28 of next year. The speaker has not yet been engaged, but a committee has been appointed to take care of this matter.

Organized President's Club

The Presidents' Club, brain child of ODK, was organized primarily to see if the leadership at Ga. Tech could be aided or improved. First started as an experiment, it has grown on the campus to an important organization.

ODK is now in the midst of a program designed to improve the facilities on the Tech campus that are available to the average student. At the present, \$1286 has been raised from parking lots, gifts and the like, to air-condition the Banquet Hall. An estimate is now being made on the price of the job.

Any organization wanting a replica of their badge on the wall of the Banquet Hall is invited to contact ODK on this matter. The cost of putting the replica on the wall is twenty dollars, and ODK asks additional funds if possible in order that they can constantly make improvements on the hall.

Boost Student Building

The proposed Student Union Building is being given a boost by ODK. At the present the organization has \$8400 in par value bonds. They plan to raise this to about \$14,000 to pay for the blue prints and specifications on the proposed building. Toward the time of drawing up plans for this building, ODK plans to canvass student opinion on what should be included in this structure.

In connection with their raising of funds, ODK will present the Barter Players of Virginia in Shakespeare's "Much Ado About Nothing," sometime in the future.

Naval Contestants

Must Have Papers

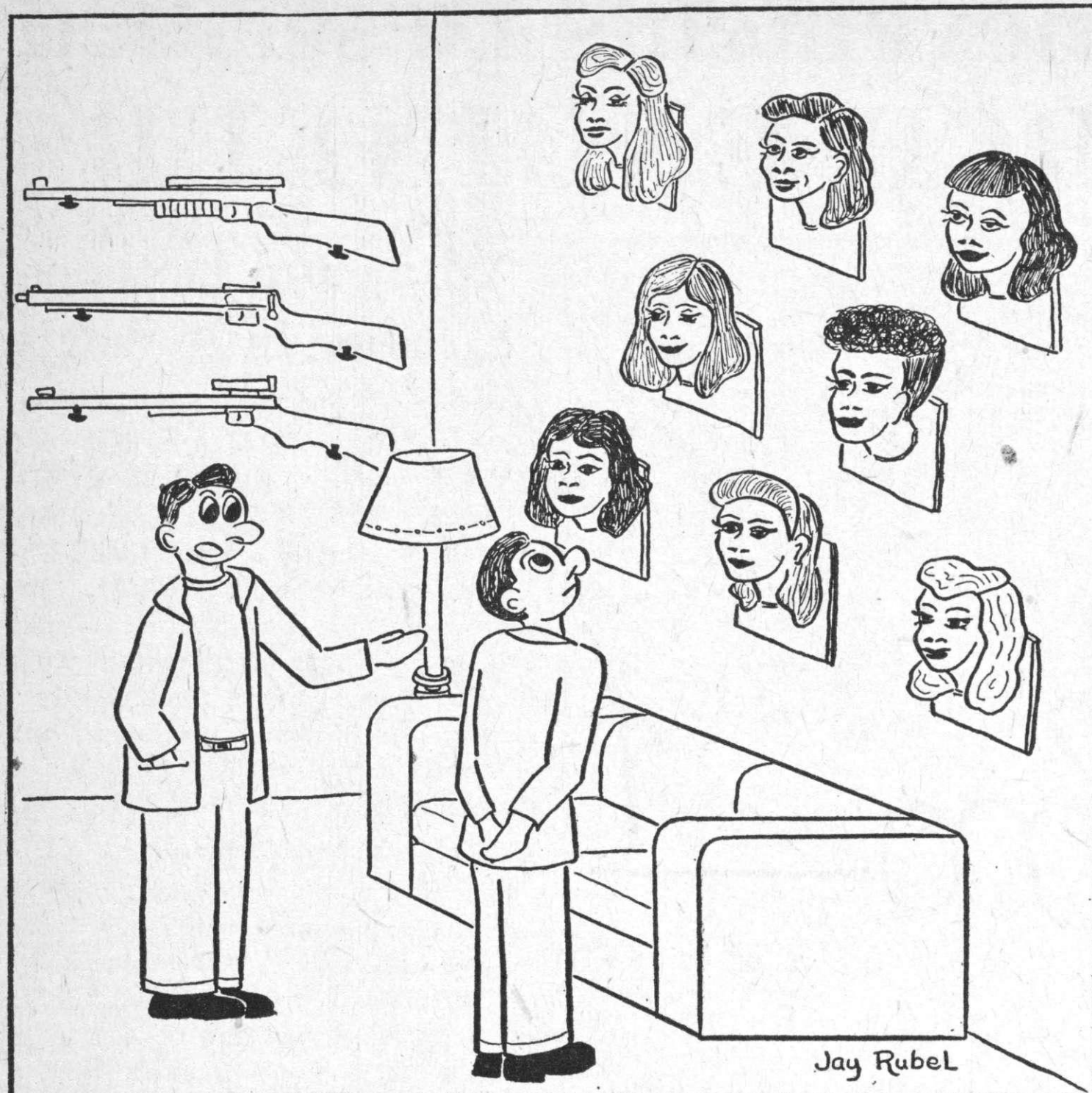
In By December 17

January 18th, 1947, is the date set by the Navy for a nation-wide competitive examination to select several thousand young men for its new college training program; and December 17th, 1946, is the not-too-far-distant deadline when all applications must be in the hands of the examining board.

You have seen the posters on the bulletin boards, and if you're eligible and interested have probably already picked up your application. But, this is just to remind you that your application should be mailed as soon as possible, and must be mailed in time for it to reach the Naval Examining Section in Princeton, New Jersey, by the 17th of December.

To each man selected, the Navy is offering a college education, and commission as an officer in the U. S. Navy or U. S. Marine Corps. He may choose the field in which he would like a bachelor's degree, and also may be able to go to the college or university of his choice. The government will pay his tuition and normal fees, buy his books and necessary uniforms, and also give him \$50 a month living allowance.

Naval Reserve Officers' Training Corps students have the opportunity for a commission in the regular Navy as Line or Staff Corps officers, or in the regular Marine Corps.



"What else are they good for?"

Men Left Defenseless By Irresistible Odeurs

By Jim Pearce

Now-a-days when you see a crowd of wolves panting and drooling over the pages of *Esquire* . . . and other mags appealing to their high-class aesthetics . . . it's a ten to one bet that it's not the Esquiritish female causing their increased pulse beat! It's the perfume ads!

Crimson Lust—Make Me

Things are getting just a little out of control when the females of the species start putting themselves into the hands of the males of the other species while wearing these odeurs of delight. Any day now I expect to see an ad for something like *Crimson Lust* . . . as tempting as a summer haystack! This passionate odeur will make your blood evaporate and leave you tender and submissive! Or even yet the market should jump ten points for some *Make Me* . . . a haunting, taunting, tempting suggestion in perfume.

Impassioned Leopardess

All I can say is that it's a dam good thing the postal inspectors didn't look past the Varga and Petty gals . . . they'd have had a severe case of completely demoralized morals! I tremble (expectantly perhaps) when the thought strikes me that one of my dates might appear on the scene wearing *Impassioned Leopardess* advertised thusly: *Feel that sensuous odeur envelop your body . . . feel your heart thunder with a tom-tom rhythm . . . feel the jungle madness course through your limbs.* One of us would no doubt be swinging through the trees a la Tarzan at the end of the evening . . . and the odds are all for its being me!

But Who Loses?

The latest whispered conversation overheard in a bull session was not, "Have you seen the new, uncensored version of 'Five Nights in Paris'?", but it was, "Have you seen the perfume add of page 12 of this magazine . . . WOW! I think I'll send that lush brunette a bottle of this for Christmas. Then neither of us would stand a chance!"

Love . . . Lust . . . Life

No doubt there was a picture of a figure a la Hedy draped in a gown that was strapless to about the belt line. She is sitting on an extremely oversized chaise-longue and looking up with half-shut, heavy eyelids at an adonis dolled out in a white dinner jacket and sultry intentions. In red print (to further set the mood, no

doubt) at the bottom of the page are the words *Sacred Amber* . . . *Let this heady scent draw his arms around you . . . make your pulses one. It is love . . . lust . . . life!*

Chums . . . somebody sure doesn't stand a chance! And it isn't the perfumer!

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Entrance Peachtree Arcade

Off Campus

By Jim Williford

What A Deal!

The Florida State College for Women has changed its name. With the admittance of both male and female students to the institution, the officials decided upon FSC, a less descriptive and rather broad name. The men have no gripe, except for the fact that it's so hard to make a choice sometimes between a brunette and a blonde.

* * *

Teetotaler Tells Terrible Tale . . .

The editor of the *Duke Chronicle* recently received a letter from a male student, evidently perfectly normal, to the effect that for all of his 23 years of existence he had never drunk an intoxicant, although "I have friends who drink," does not use tobacco, and "Being an extremist, I have never had a date or been kissed by a girl." The editor's only comment was, "You should live so long."

* * *

Take Me Back to Old Virginny

At Charlottesville, Va., the University of Virginia gave their "Lead Gumdrop Award" to a student who "came through with a perfect 25 out of 25 submarines torpedoed to Davy Jones' locker on the new Corner Shop nicklesnatcher." They list pin ball machine as "a required object of study for a really successful summer session." That award winner must have been a senior in pin ball engineering.

Tech Selected By A. G. F. To Train Regular Army Men

Georgia Tech is one of fifteen engineering and scientific colleges selected by the Army Ground Forces to offer graduate training to a special group of regular army officers, it was announced this week by Dr. Robert I. Sarbacher, dean of graduate studies.

This program is part of the War Department's plan to keep abreast of continuing scientific developments and advances in fields other than military. Courses will generally be of two years' duration, starting with a term of refresher training during the summer quarter.

Besides Georgia Tech, the list includes Illinois, Rice, M.I.T., North-

western, Pennsylvania, Illinois Tech, Michigan, Princeton, N.Y.U., Ro-
(Continued on page 6)

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ATLANTA, GEORGIA

Lord Oglethorpe Ties

• The Cinderella of Chesapeake Bay is a queer looking craft. She has no bow, no stern, no engine, no crew. Never weighs anchor to make a voyage. But she has a purpose, and has served it well.

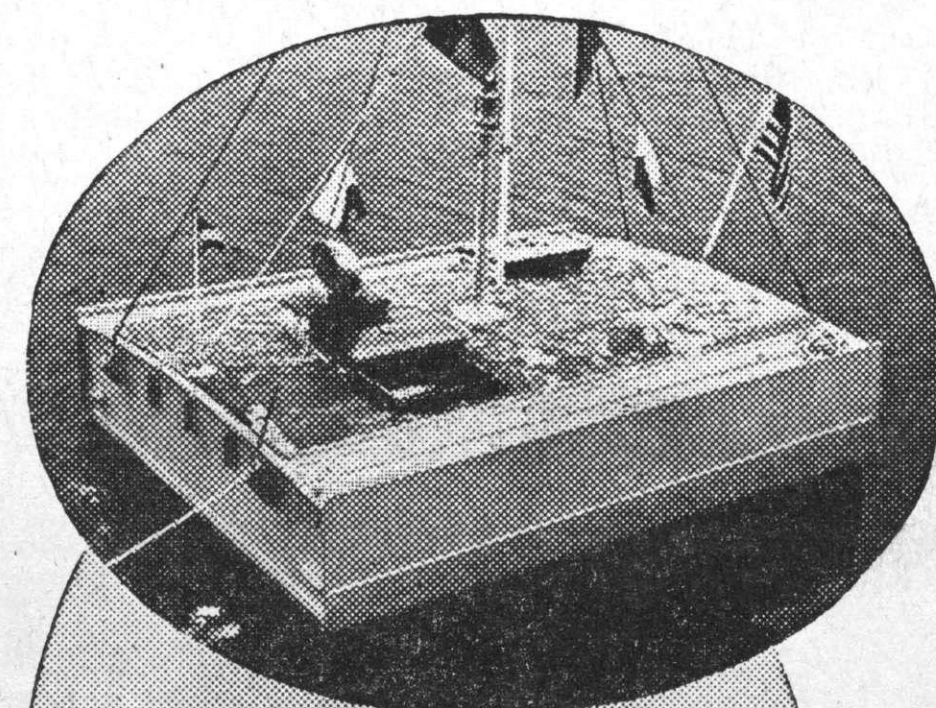
Largely because of her, a new fleet of ocean-going passenger ships will have superstructures built of aluminum. It reduces weight at the most important place—"topside".

This is a dream come true for Alcoa engineers. Eleven years ago they built this odd-shaped aluminum test hull and anchored it in Chesapeake Bay. Together with marine engineers and naval architects, they watched to see the effect salt water had on aluminum; whether it would prove seaworthy. And it did!

But there were other problems—for instance, stresses topside, set up by the weaving and pounding that a ship takes at sea. By building and testing a model, Alcoa engineers found that the use of aluminum in the superstructure greatly reduced the stresses. They likewise conferred on plans and recommended materials.

So the ships were built. They are in the water now being outfitted for their maiden voyages to China—thanks to Cinderella and the "imagineers" who dreamed of aluminum ships and then engineered them into the water.

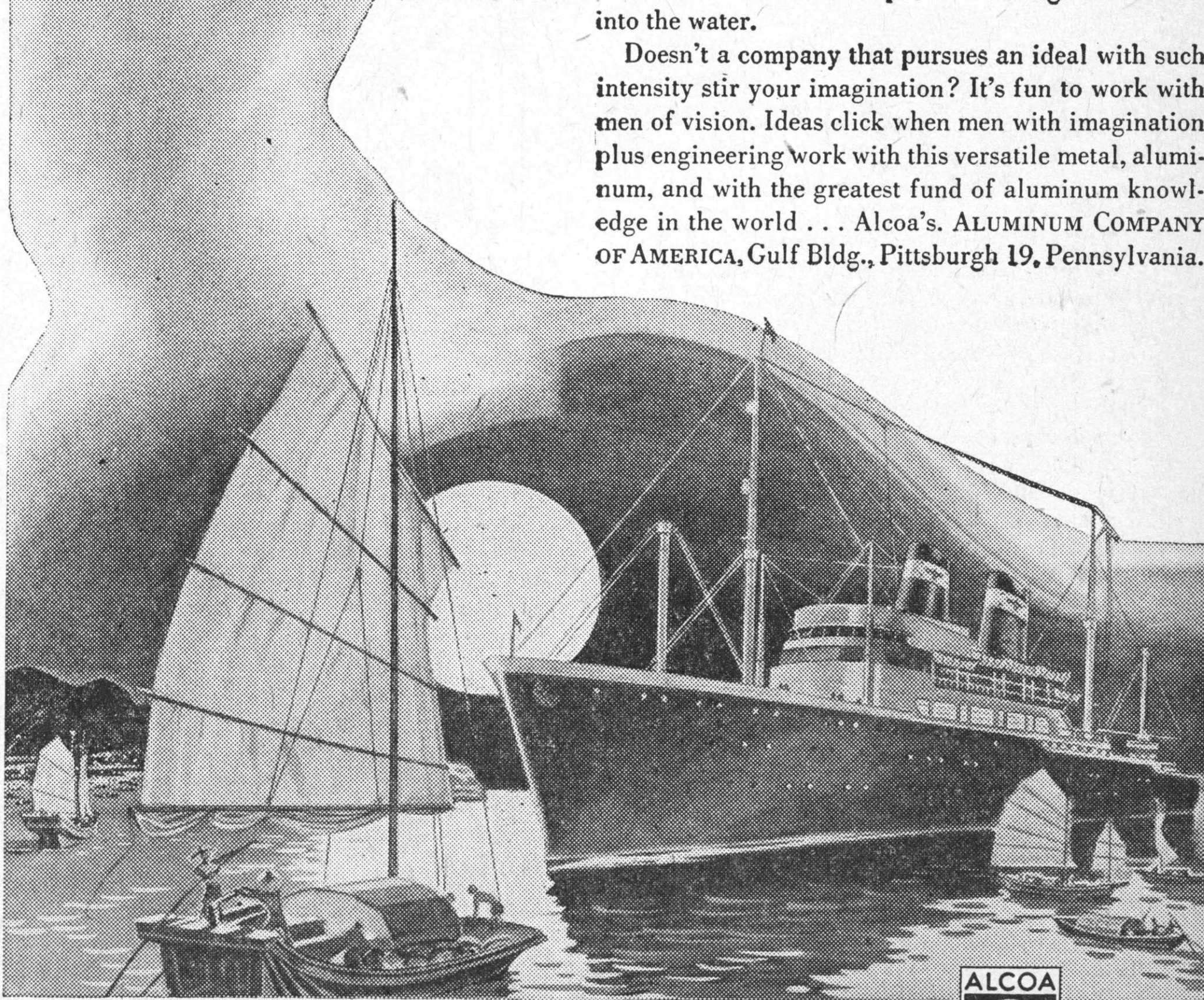
Doesn't a company that pursues an ideal with such intensity stir your imagination? It's fun to work with men of vision. Ideas click when men with imagination plus engineering work with this versatile metal, aluminum, and with the greatest fund of aluminum knowledge in the world . . . Alcoa's. ALUMINUM COMPANY OF AMERICA, Gulf Bldg., Pittsburgh 19, Pennsylvania.



Cinderella

TAKES A

CHINESE HONEYMOON



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Delta Home Craft Power Tools
Model Supplies

Model Airplanes, Boats
Railroads, Race Cars, Specialty

ATLANTA HOBBY SHOP

"TOOLS AND SUPPLIES FOR THE MODEL CRAFTSMAN"

604 Peachtree Street, N. E.

Grads—

(Continued from page 5)

chester, Chicago, U.C.L.A., Johns Hopkins and California Tech. Fields of study will include communications engineering, electronics, automotive engineering, atomic energy, optics and light, nuclear physics, acoustics, meteorology, and guided missiles (propulsion, aerodynamics and guidance).

The Ice Cream Served in the Georgia Tech Dining Hall

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PEARCE'S LUCKY STRIKE BOWLING

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Intercollegiate Champions
1938-1939-1940

To be selected for detail as a student, the applicant must be a member of the Regular Army, National Guard or Organized Reserve Corps; be commissioned in a basic arm of the Army Ground Forces, i.e., Infantry, Cavalry, Field Artillery or Coast Artillery; 30 years of age or under; have a minimum of one year of commissioned service; have a general efficiency rating of excellent or better; have a degree of B.S. or equivalent and must have graduated in the upper quarter of their class.

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NEW

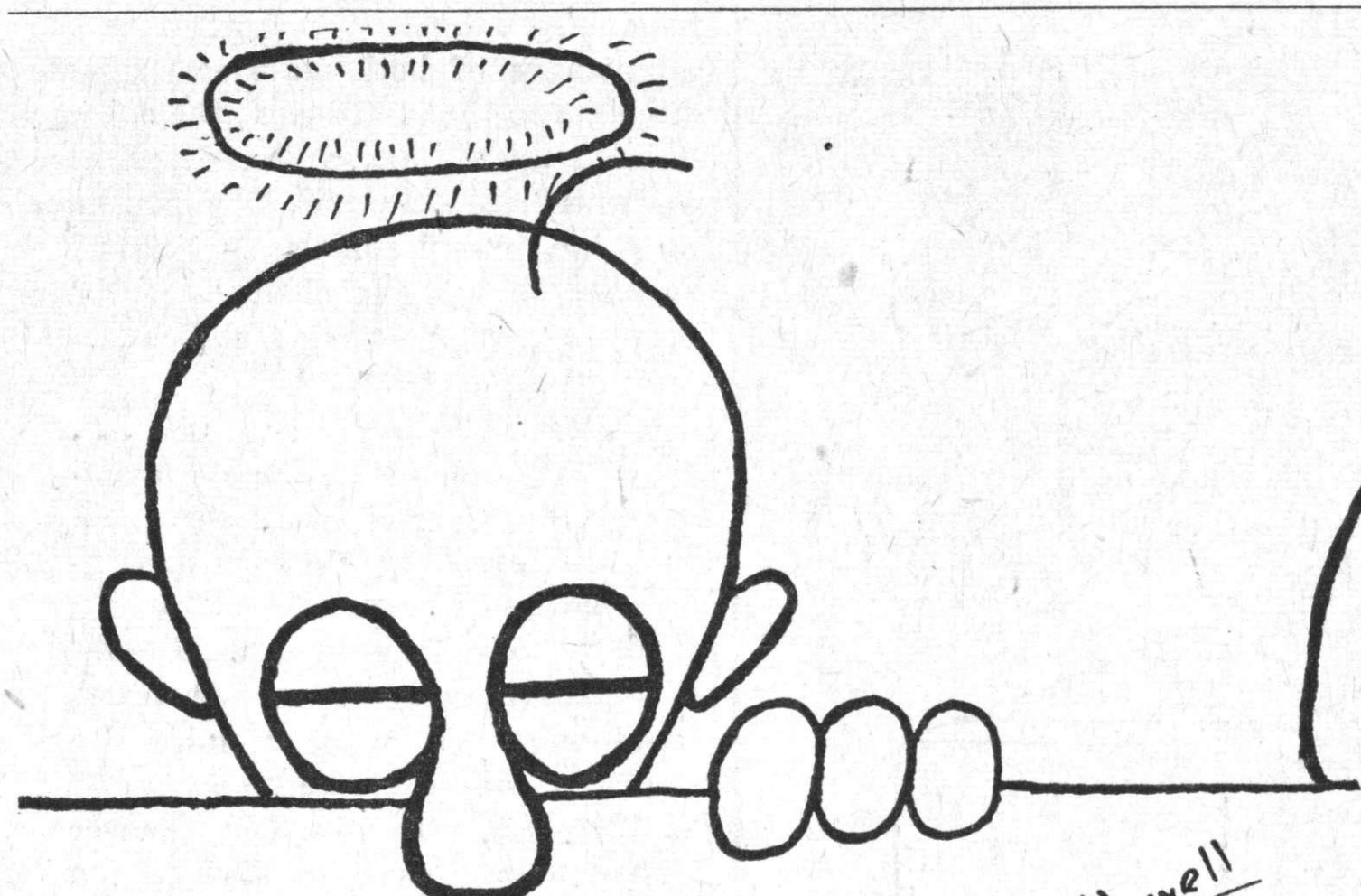
COZY COTTAGE

SPRING and THIRD

Friendliness Music



Various Achievements Described In RESEARCH ENGINEER



X-Ray and Isotopes Stressed in Journals

Georgia Tech research achievements in many fields are described in the November issue of THE RESEARCH ENGINEER, bi-monthly journal of the Georgia Tech Engineering Experiment Station. According to this bulletin, significant developments have been made in portable X-ray equipment, food freezing, research on wood products and cellulose fibers, and the separation of isotopes of several atoms.

X-Ray Machine

One of the most interesting items concerns a machine which bears the jaw-breaking title of "portable photo-fluorographic X-ray equipment." This apparatus, designed and developed at Georgia Tech in cooperation with a local X-ray equipment company, features high speed operation combined with light weight and portability, making it particularly suitable for use in mass surveys of employees in industry, students in schools and colleges, and other such groups.

Cellulose

In his article Dr. Nathan Sugarman, research assistant professor on the staff of the Tech Engineering Experiment Station, calls attention to the plentiful availability in Georgia of the two great commercial sources of cellulose—wood and cotton. While pointing out that many plastics, synthetic fibers, and numerous other chemical derivatives are already being made from wood, in addition to lumber and countless types of paper, Dr. Sugarman re-emphasizes the need for further fundamental research to correlate the basic information on cellulosic materials and applied research to overcome such unfavorable wood properties as its tendency to swell in moist air.

Frozen Foods

As was recently announced in connection with the issuance of a complete "Literature Search on the Preservation of Foods by Freezing," the Georgia Tech Engineering Experiment Station is jointly sponsoring an extensive research program on fundamental and engineering aspects of food freezing, in cooperation with the Tennessee Valley Authority.

According to Thomas W. Kethley, a research assistant professor assigned to this project, considerable equipment has been installed, including a refrigerated room 12 feet wide, 27 feet long, and 7 feet high, divided into two chambers. One of these, to be used for storage, will be kept at 0° F, while the other, the work room, will be held at 18-20° F. In this room are located the experimental freezers and the equipment for the microscopic examination of frozen materials.

Isotopes

Isotopes have become a topic for everyday conversation during the past year, because of the highly explosive nature of one of the isotopes of uranium. For this reason, a review of methods for isotope separation was prepared for THE RESEARCH ENGINEER by Dwight A. Hutchinson, research associate in physical chemistry, who also discusses Georgia Tech work in this field.

Library

Engineering practice depends
(Continued on page 7)

Radio Commercials—Phooey! Who Winter-Proofs Walkers?

Every time you turn on the radio or pick up a paper some Joe Blow wants you to bring your car down and have it fixed up for winter driving. Of course he manages to make a little profit on the deal; but that's not what's worrying me. What I want

to know is who winter-proofs the guys who get around on foot power?

You can boost your octane rating to 100 proof but that plays hell with the steering mechanism.

Now take one of these mornings when you wake up and the water's knee deep on the high spots and coming down like Niagara Falls.

Well what do ya' know—a new hole in the bottom of your shoe. That's just as well because the water's got to run out somewhere. You grab your trusty rain coat and take off. These rain coats are damned remarkable gadgets; they match every drop of rain water with one that they create by their own secret process and promptly dump the whole business down your collar.

Those steps over by the Chem. building are something that folks come from far and wide to see on a rainy day. A spawning salmon couldn't jump that water fall. This unnatural phenomenon was caused by placing all of the drains on the nearby walks.

Next time you wake up and it's raining like hell outside—go back to sleep. Sometimes it just doesn't pay to get up in the morning.

Campus to GENERAL ELECTRIC

JET DESIGNER



The Story of
ALAN HOWARD
PURDUE '27

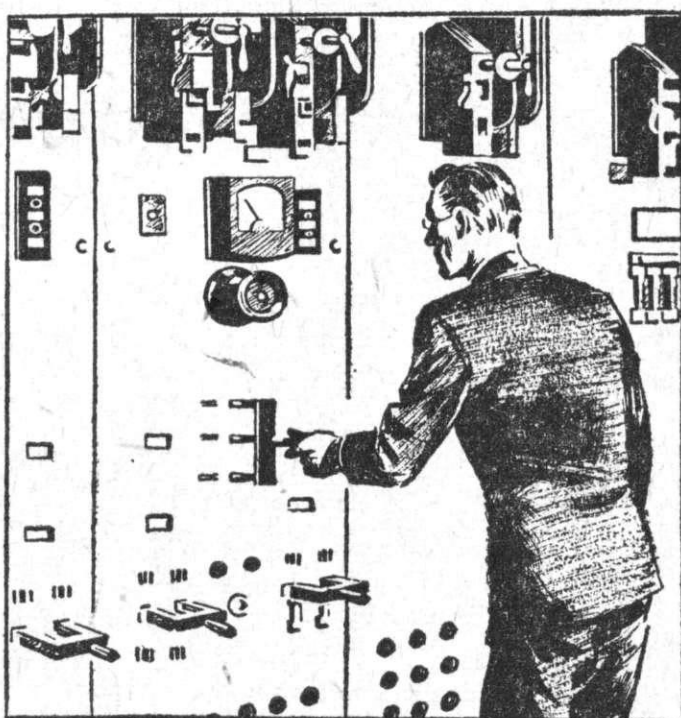
IN CHARGE of a group of G-E gas-turbine engineers and technicians, Alan Howard has directed the design and development of two General Electric engines that are today powering some of our fastest planes.

One, the Propjet, is the first propeller-drive gas turbine in the world. Alan's second design, the T-G 180, is a pure jet engine, a departure from earlier jets in that it is designed on "axial-flow" principles which make possible a super-streamlined shape.

Gas-turbine engineering is, of course, a highly specialized field. Alan, however, is thankful today not so much for any special knowledge he learned in college, but for the solid understanding of engineering fundamentals which he gained as he worked for his B.S. degree at Purdue.

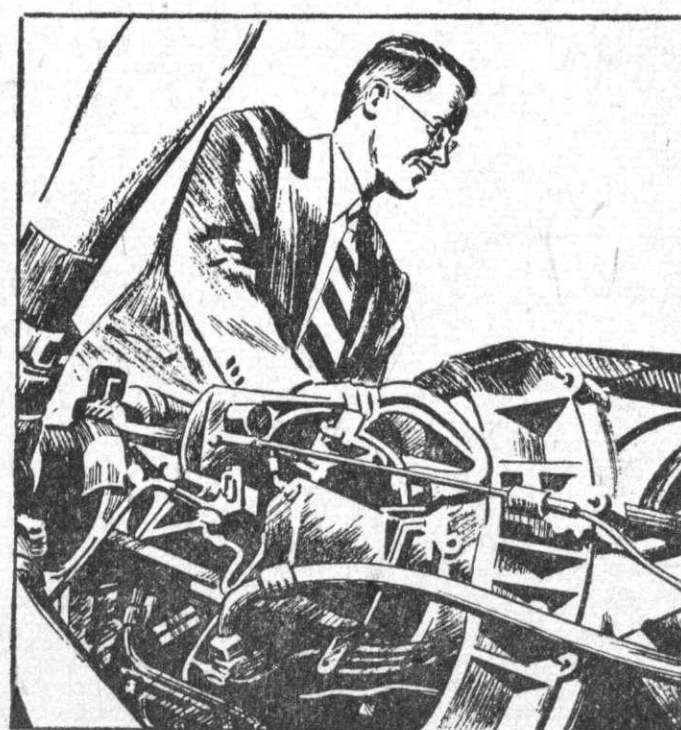
When, in 1941, Alan Howard undertook the design of the Propjet and the axial-flow engines, this sound training in engineering principles, followed by his years of practical experience with G.E., fitted him well for success.

Next to schools and the U. S. Government, General Electric employs more college engineering graduates than any other organization.



After graduating in electrical engineering at Purdue, Alan came on "Test" with G.E.

Today he designs engines like the Propjet, which provides both propeller-drive, jet thrust. It may power tomorrow's giant airliners.



SPIER'S DRY CLEANING

"THE BEST YET"

BETWEEN SPRING AND
WILLIAMS ON THIRD

TUXEDOS AND FULL DRESS SUITS

—FOR RENT—

Suits Made to Order

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Jackson 2203
5 AUBURN AVENUE
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Practical Gifts

Leather Jackets — Fur Lined Gloves — Sweaters
Wind Breakers — Mufflers and Ties
Complete Line of SPORT COATS and
ALL WOOL PANTS

Suits and Overcoats — Values Above the Average

Use Our Lay Away Plan

SEWELL CLOTHING STORE

111 Whitehall Street through to Broad Street

GENERAL  ELECTRIC

Paul Endures Tragic Week

Dear Father:

I'm in a rut, Pa; I don't know exactly what to write about, but I could give you a resume of the natural chain of events which happened to me last week—last week being a typical week during my school life.

Since every week starts with Sunday, that means they usually start off with a happy note—that is to say I'm asleep snoring on Sunday mornings. However, when I wake up, trouble starts coming. Suzy Q., a very squeezable girl friend calls me up and squeezes herself out of our Sunday date. I feel so blue that I start studying my subjects from school but every law, every problem has got Suzy Q. as a prime factor. So all I know when I get to school on Monday is the inside story of Suzy Q. and that boils down to only one fact—she's got a heart of solid Georgia granite.

Monday we don't have many tests but, oh brothers in misery, you should see the grades of last week's tests come rolling in. For instance I thought I made an 80 on a Physics quiz, but my paper was worth only 57. You see the sick department (that is the Physic Department) grades papers by the "heads you win, tails you lose" method. For instance if you wrote down true for an answer that was supposed to be false, they count off triple the regular amount to be deducted since 1) you missed the question, 2) you must have guessed if you didn't get the answer right, 3) you told a big shameful lie.

On Thursday, I try to strike up a little courage in myself, and sometimes the effort works but only until I get into German class. Studying German is almost as bad as bucking the Siegfried Line. No wonder the Germans lost the war. A whole city could be destroyed before some one could yell "air raid!"—which is "Achting! Fleuftzengerbombardung-enshreklickkeit!"

Finally comes Friday which is the grand final to a tragic week; but nevertheless an ordinary week for me at Georgia Tech. I gather all my grades together and average them up. Disregarding the minus sign I have a 36 average.

And so once again we come to the week-end of a week. Saturday is here and with it a new issue of the TECHNIQUE. And just like that paper I too go to press—to press Suzy Q., that is, but again, she ain't home. Won't my trouble ever cease.

Your puzzled, troubled, bedraggled son,

Ramblin' Reck Paul.

Magazine—

(Continued from page 6)

heavily upon published information, as is evidenced by a description of the library services furnished to Georgia Tech's Daniel Guggenheim School of Aeronautics by its departmental library. Mrs. James Henley Crosland, Georgia Tech librarian, in her "Report from the Library" in this issue describes in detail the collection of books, journals, reports of important aeronautical societies, and other bibliographic material which are contained in the aeronautical library and which are typical of the excellent Georgia Tech library collection in other engineering fields. One feature of the aeronautical library is a card catalogue of over 35,000 items, a "working index" much praised for its value to aeronautical engineers in the South and throughout the country.

The November number of THE RESEARCH ENGINEER is the third issue of this new journal, which is devoted to the publication of technical and economic information and to accounts of Georgia Tech research activities. This journal is distributed to scientists, government agencies, industries, and Georgia Tech alumni throughout the nation and in a number of foreign countries.

Campus Peeks

By Jim Pearce

Mr. Chapin's domain, the Registrar's Office, beginning to undergo the turmoil that always precedes a grad-

ing period and a new registration.

* * *

The post office at 9:00 . . . it would give a riot moderator apoplexy!

Overheard in a literature class that just finished reading "Abandon hope, all ye who enter here!", the inscription over Dante's Hell: "Somebody in the Physics department has been reading this stuff . . . and damned

if it hasn't gone to his head!"

* * *

And the one campus peek that is obvious no matter where you look is that old man Winter is really here!

TRIPLE SMOKING PLEASURE

A ALWAYS Milder

B BETTER TASTING

C COOLER SMOKING

Triple check Carol

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MOTORISTS FOR 25 YEARS**MINUTE MAN GARAGE**942 PEACHTREE AT TENTH
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"Ideal Christmas Gift" Brings Shopping Trouble

By Beemer Harrell

"... the ideal Christmas gift is this misty creation for the wee hours. Compliment her beauty with this dream-stuff, and the glowing love light in her eyes will wish you the happiest Christmas you've ever known.—Advertisement."

Beautiful Gams

This formidable problem of Christmas shopping is bad enough without the confusion brought on by advertisements of this nature. Unsuspectingly I opened the paper the other day and was confronted by a very faithful reproduction of a pair of gams. I suppose it was an advertisement about hose, I didn't bother to read the type. The beauty of the illustration was duly appreciated and then I began to ponder, weak and weary.

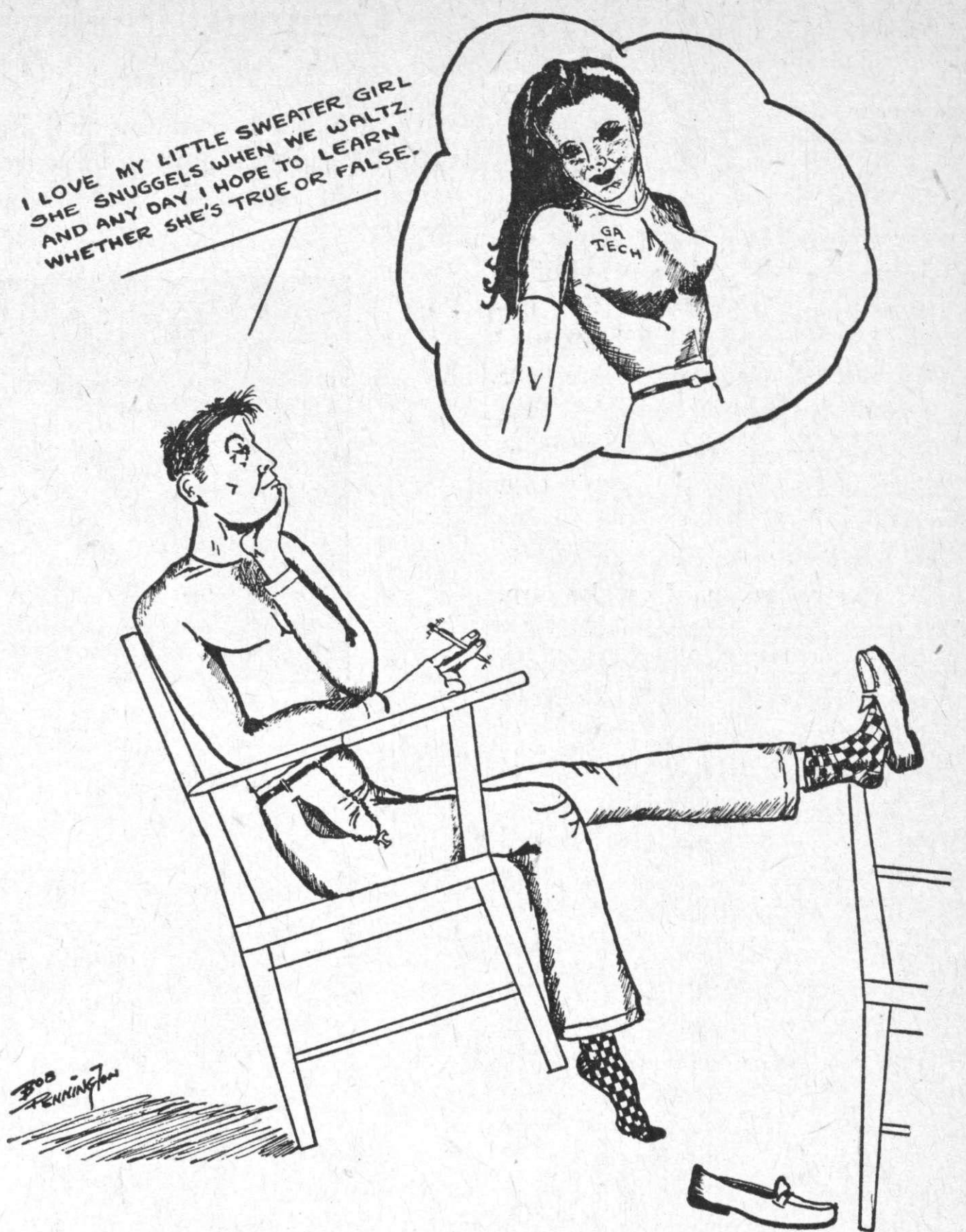
Uterior Motives

It's not the gift, but the spirit in which it is given that counts. This is a time-honored truth. And yet, it is just possible that the nature of the gift might influence one's thoughts, especially if the "one" is "the one." Would she understand that you are merely wishing her a Merry Christmas? That you are merely following an age-old custom of spread-

ing Christmas cheer? Perhaps she is one of those rare creatures who has a pure mind and would never suspect an ulterior motive. Of course, if one is absolutely immune to the flowery propaganda that copy writers splash around indiscriminately, gifts are no problem. You probably buy very practical gifts. The object of your affections is glad that you are so thoughtful, and everybody is happy. But will the "love light in her eyes wish you the happiest Christmas you've ever known?"

Make it Exotic

This is really a much more complicated problem than a cursory glance would indicate. Gifts must be chosen with regard to her personality and to her secret desires. Never give a good, sturdy gift to one for whom you feel more than a passing fancy. If you want to be part of her every thought, present her with something exotic, glamorous, exciting — something to make her blood tingle at the thought of you. This is the straight stuff—just read the copy that surrounds those pictures you drool over. Night-gowns, hose, irresistible perfume and wire-braced do-hickys are the order of the day. And these are for all women. Honestly, Mom might understand, but I doubt it. Surely



she would rather buy stuff like that herself.

Red Flushes

Did it ever occur to you that it will be necessary to invade a domain that is ordinarily no-man's land to purchase these feminine treasures? At this time of the year, the places are jammed with women. That red flush is prickling my ears at the very thought.

But I fear that I have succumbed to the spell of the ads. They have offered me a sure-fire method of obtaining the unattainable. The love of my life will be rendered defenseless, overcome by the perfect gift, she will gladly, even eagerly insist that I am the only one for her—and who am I to argue? I hate arguments. I can see me now. Braving the questioning glances shoppers, murmuring to the salesgirl, "May I see some ah-er... cigarette cases?"

FOR RENT!Tuxedos
Full Dress Outfits**H. GLENN McNAIR**
CLOTHES — — MADE FOR YOU42 Walton St., Grant Bldg.
Atlanta WA. 3244Blue Horse School Goods
and
Fashionable Writing
Papers

ON SALE AT

GA. TECH COLLEGE INN

Montag Bros., Inc.

"- - All Around The Town"

GENUINE PARTS COMPANYEAST POINT
CA. 6656475 W. Peachtree
WA. 4400BUCKHEAD
CH. 1126WEST END
AM. 3566

"QUALITY FIRST — IT PAYS TO BUY THE BEST"



It's the first of the month— every few days.

The first few days of the month were once a time of feverish activity for telephone accounting personnel. In that short period millions of telephone bills had to be prepared, checked and mailed. But the Bell System accounting staff, seeking to level off this work peak, found a practical solution.

It's called "rotation billing."

Now in our accounting departments, a new month begins every few days. Accounts are divided into six or more

even groups, each with a different billing date. This spreads the work evenly and eliminates the old last-minute rush.

This special problem, solved by telephone accountants, is typical of those which often confront management in the many branches of our business. They present a stimulating challenge to the young men with initiative and imagination who will find just such practical solutions... young men who find telephony an exciting and rewarding career.

There's Opportunity and Adventure in Telephony

BELL**TELEPHONE SYSTEM**

SAE, Harrison Dorm Vie For Championship Today

Schedule Announced For IFC Basketball

At 1:30 this afternoon the final football game of the year will be played on Grant Field when the SAE's, Interfraternity League champions, meet Harrison Dormitory, Independent League winners, for the school title. Both teams are going into today's game undefeated. The SAE's have four wins to their credit including the 10-0 victory over SX for the league title last Saturday. Harrison Dormitory clinched their league title last Monday with their fifth win of the year. A trophy will be awarded to the winner of today's game by the Athletic Association.

Basketball

At a meeting held last Monday in the gymnasium an Interfraternity Basketball League was organized and a schedule has been arranged as listed below. A bowling league will be organized at the start of next term.

Because of the lack of interest shown by independent teams, with only one team representative reporting, no schedule could be drawn up for these teams as yet. If sufficient interest is shown it will be organized at the start of next term.

Leagues

GOLD LEAGUE—
(1) KA; (2) Kappa Sigma; (3) Pi KA; (4) Chi Phi; (5) SAE; (6) Pi Kappa Phi.
WHITE LEAGUE—
(1) Delta Tau Delta; (2) Delta Sigma Phi; (3) Phi Kappa Sigma; (4) Sigma Chi; (5) Phi Lambda Delta; (6) Phi Delta Theta.
TORNADO LEAGUE—
(1) Lambda Chi Alpha; (2) Phi Epsilon Pi; (3) Tau Epsilon Phi; (4) Sigma Nu; (5) Sigma Phi Epsilon; (6) ATO; (7) Beta Theta Pi.

Schedule

MONDAY, JAN. 6—
Armory—12 G (7:15); 12 W (8:30)
Gym—12 T (7:15); 24 G (8:30)
TUESDAY, JAN. 7—
Armory—34 W (7:15); 34 T (8:30)
Gym—56 W (7:15); 56 G (8:30)
WEDNESDAY, JAN. 8—
Armory—56 T (7:15); 23 G (8:30)
Gym—23 W (7:15); 27 T (8:30)
THURSDAY, JAN. 9—
Armory—45 G (7:15); 45 W (8:30)
Gym—45 T (7:15); 16 T (8:30)
FRIDAY, JAN. 10—
Armory—23 T (7:15); 14 T (8:30)
Gym—16 G (7:15); 16 W (8:30)
MONDAY, JAN. 13—
Armory—24 T (7:15); 24 G (8:30)
Gym—15 G (7:15); 15 W (8:30)
TUESDAY, JAN. 14—
Armory—36 W (7:15); 67 T (8:30)
Gym—24 W (7:15); 36 G (8:30)
WEDNESDAY, JAN. 15—
Armory—14 G (7:15); 14 W (8:30)
Gym—25 G (7:15); 13 T (8:30)
THURSDAY, JAN. 16—
Armory—25 W (7:15);
Gym—47 T (7:15); 25 T (8:30)

Explanation of the above schedule code. On Monday, January 6 in the Armory "12 G" means team No. 1 meets team No. 2 of the Gold League. "12 W" means team No. 1 meets team No. 2 of the White League. Example: "12 G" means KA vs. KE at 7:15 p. m.

Christmas Trip For Swimmers

In preparation for the coming swimming season, Coaches Freddie Lanoue and Lynn Keyes have scheduled a trip to Ft. Lauderdale, Florida, over the Christmas holidays to take part in the annual swimming forum which is held there every year. Accompanying the mentors will be four of Tech's top swimmers: Herb McCauley, Johnnie Hiles, Charlie Owens, and Charlie Flowers. The first two men specialize in freestyle swimming while Charlie Owens is a breast-stroker par excellent. Flowers handles Tech's backstroke competition.

Top Coaches

This forum is attended by swimming coaches from all the major colleges in the United States. These coaches bring their swimming teams down to Ft. Lauderdale for a week of discussion and demonstration under the warm Florida sun. Some of these teams boast the best intercollegiate swimmers in the country.

During the week-long forum, new methods of training and new styles of swimming are discussed. There is also exhibition swimming plus an annual East-West swimming meet. Tech will enter its team in this meet in order to let the boys get the feel of swimming against the best intercollegiate competition.

1947 SWIMMING CARD

DATE	OPPONENT	PLACE
Dec. 28—All Star Meet		Ft. Lauderdale, Fla.
Dec. 29—		
Jan. 17—N. C. State		Raleigh, N. C.
Jan. 18—U. of N. C.		Chapel Hill, N. C.
Jan. 24—Clemson		Atlanta
Jan. 25—Tennessee		Atlanta
Feb. 8—Georgia		Athens
Feb. 15—Duke		Atlanta
Feb. 22—Florida		Atlanta
Feb. 28—A.A.U.		Athens
Mar. 1—Meet		
Mar. 8—Georgia		Atlanta
Mar. 15—U. of Havana		Atlanta
Mar. 22—Florida		Gainesville, Fla.

Veteran Trackmen Raise '47 Hopes For Potent Squad

Durst, Enders, Gurry, Heidenreich Return

The track team outlook for the coming season of '47, according to Coach Dean, is one of the brightest in many years for the Yellow Jackets of Georgia Tech. The squad is literally abounding with experienced men from the teams of '45 and '46; also, there are a few men from the '42 team and several outstanding freshmen to bolster an already potentially potent track squad. This year not only do the Engineers boast superior material as they did last year, but also these men have experience, which is invaluable in track just as it is in any other collegiate competition.

This season's squad will have such stand-outs as Dave Durst, last year's team captain and winner of the grueling S.E.C. two-mile run; Hugo Heidenreich, S.E.A.A.U. low-hurdle champ of '42; Ray Enders, S.E.C. 440 dash champ of '45; and Frank Gurry, second place winner in the S.E.C. 880 yard run in '45.

The weakest link in this season's squad, at present, is in the weight events. In an effort to bolster this category, Coach Dean is planning to train Herb Bergman and Bobby Davis for the discus and shot-put. He believes that these two men of promising ability will develop into top-notch weightmen.

Roller Skate For Fun And Health

Rollerdrome

PENN. AVE. AT PONCE DE LEON



Durst, Corridan Lead Harriers

Dave Durst, one of the most consistent runners on the '46 cross-country team, was selected by his teammates last week as captain of this year's squad. At the same time, Jack Corridan, another top notch runner, was chosen to lead the '47 harrier squad.

The Tech cross-country team closed its season last Saturday by placing

second in the Southeastern A.A.U. 3-mile road race at Birmingham. Auburn copped first place with "Whitey" Overton winning the race in 14:51.4. Corridan, who came in second, and Durst, placed Tech with 15:28.5 and 15:37.6 respectively. Hunter, Turner, Daniell, Stowers, and Richards also ran for Tech, their times ranging from 16:10.9 to 16:52.

ROCHESTER VAN JONES AND SNAKE EYE

ENTERTAINING CURB BOYS

FRIDAY AND SATURDAY NIGHT AT

TWELVE OAKS

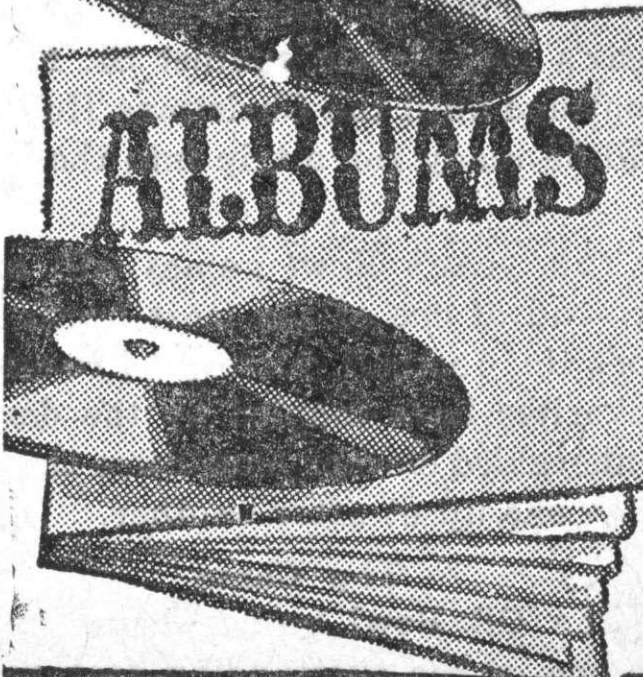
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"New Arrivals Daily . . .
Keep Your Collection
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Needles
from 10c a pack
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Hubba-hubba or strictly classical . . . opera scores or nursery rhymes? What is your specialty in recordings? We serve "platters" to please every musical taste! Come in and hear the new ones. Ten and twelve-inch sizes.

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3093 PEACHTREE RD. 811 GORDON At Mitchell
The Heart o' Buckhead Near Lee WHITEHALL ST

Best Wishes

for a

Very Merry Christmas

THE GEORGIAN BOOK SHOP

106 Forsyth Street, N. W.

NOTICE

New Tech Dance Classes

Beginning

AT FRED BROOKS

The new Tech Dance Classes at Fred Brooks' will begin Monday, January 6.

You'll have the personal supervision of America's foremost authority. With years of experience in teaching teachers, movie stars and International Society in Hollywood, Fred Brooks has his miraculous way to teach you to Jitterbug expertly, Foxtrot beautifully, Waltz gracefully, and Rhumba with subtle sophistication.

These lessons are loads of fun and provide healthy social contact with attractive young ladies taking the course with you. Will bring your dancing up to date and lead to many delightful evenings of happiness.

ENROLL NOW — with your Dormitory representative, or with our Georgia Tech representative—BILL KLINKE, Box 442. To assure you a place before classes are completely filled you may telephone the Studio or call in person.

FRED BROOKS

BILTMORE HOTEL

HEMLOCK 1867

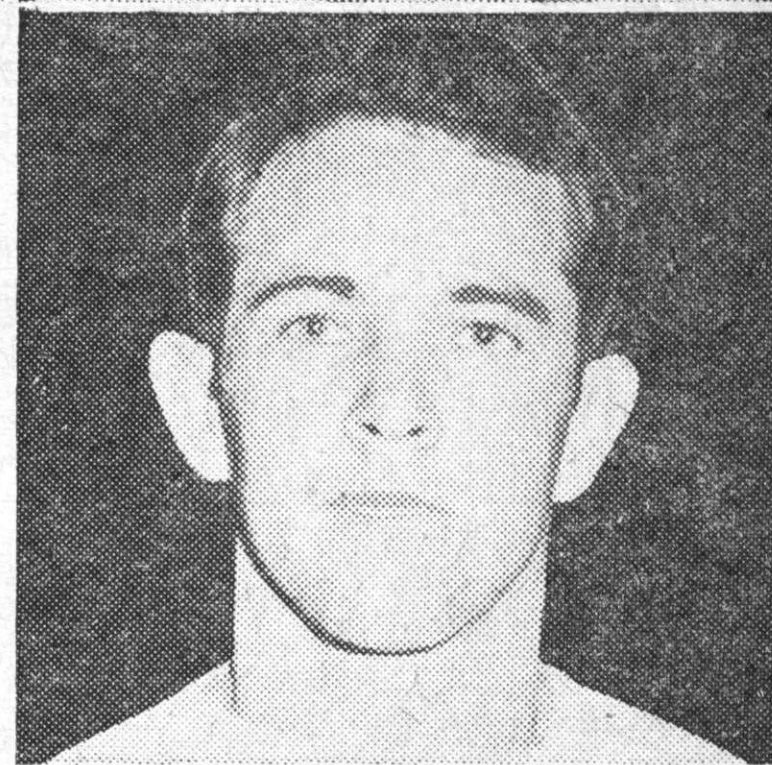
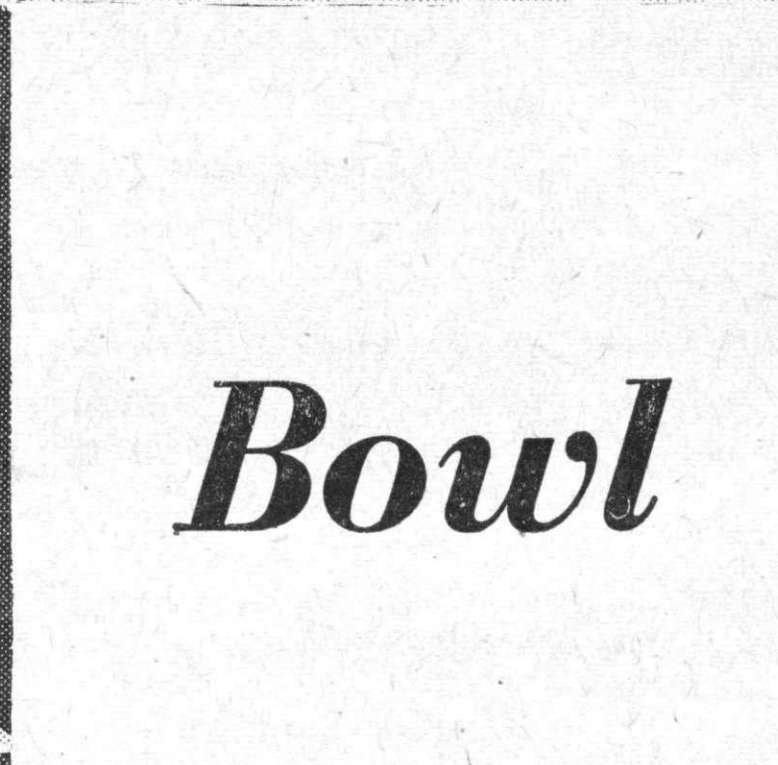
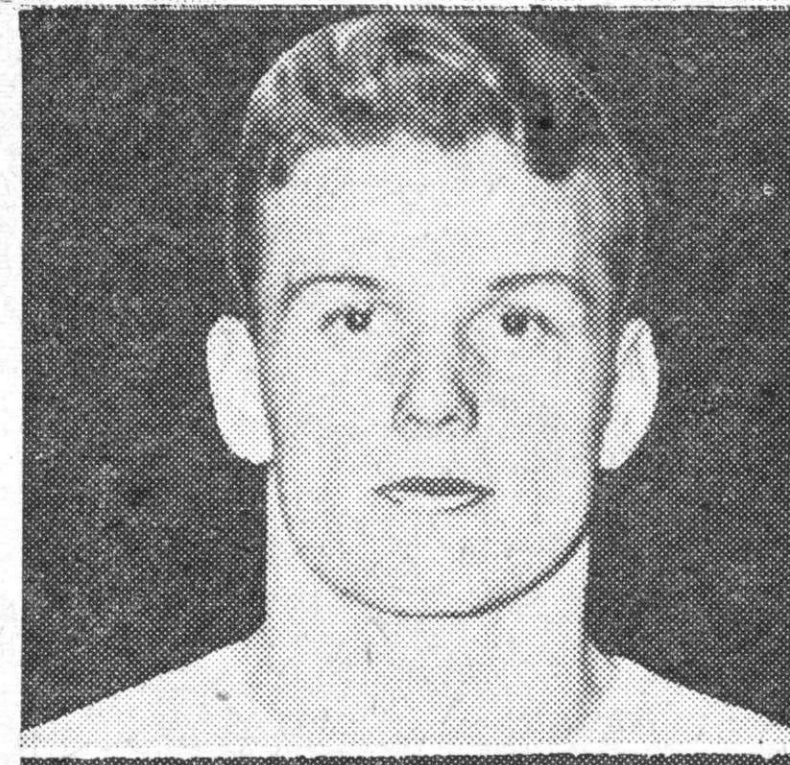
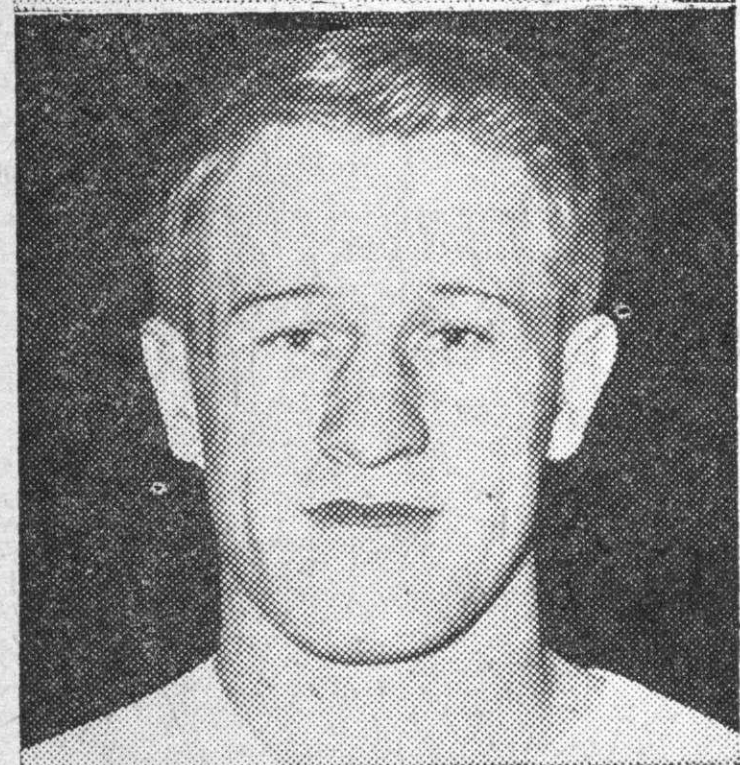
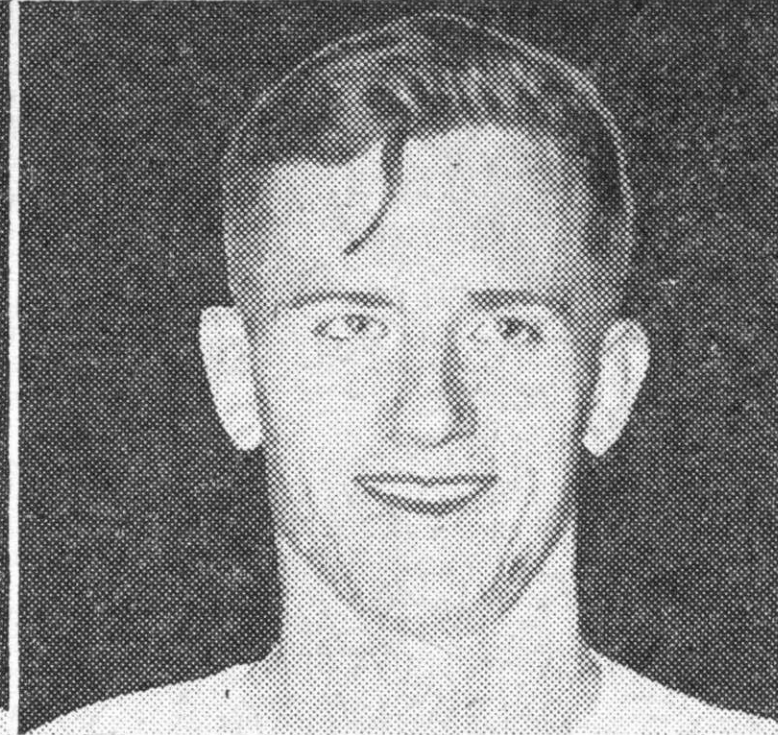
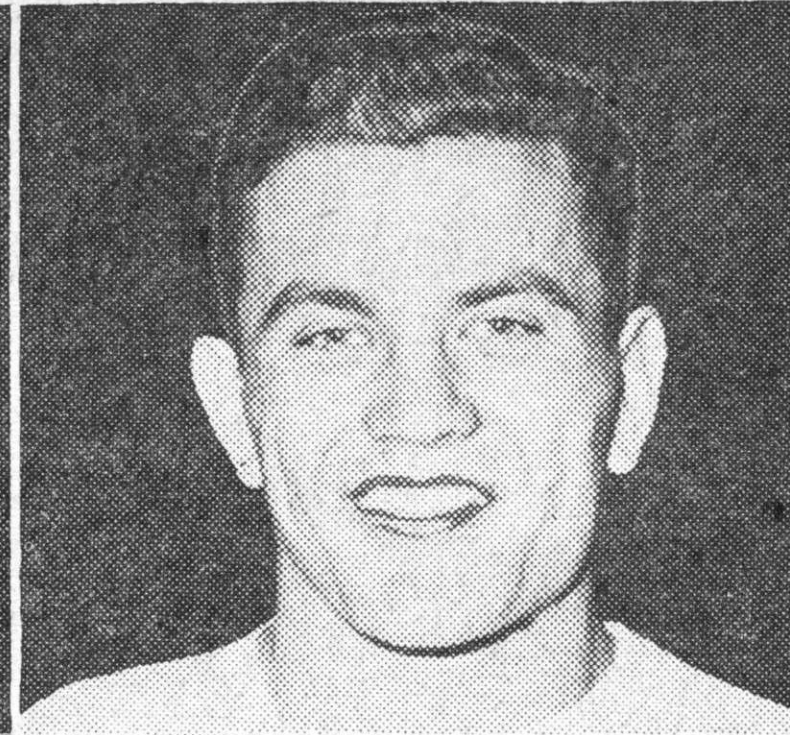
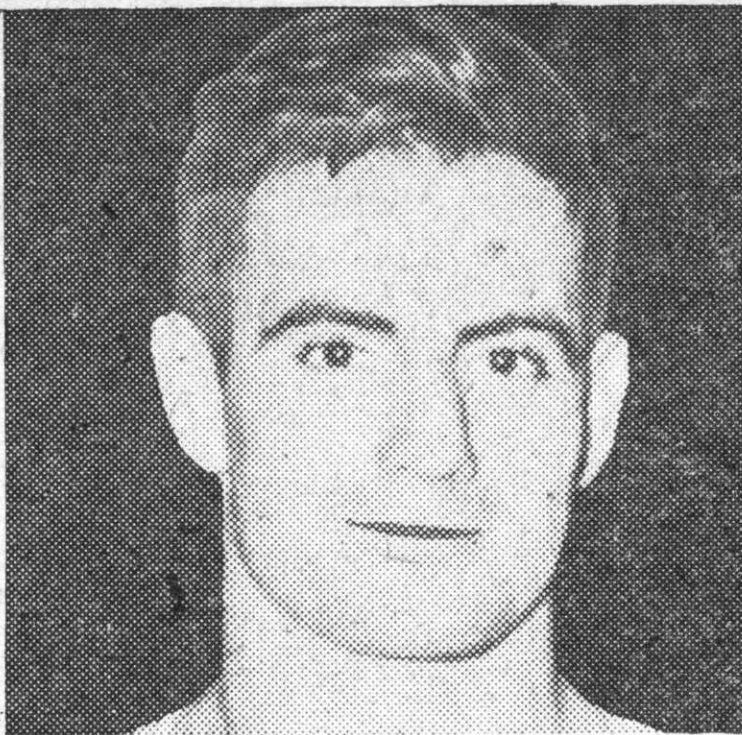
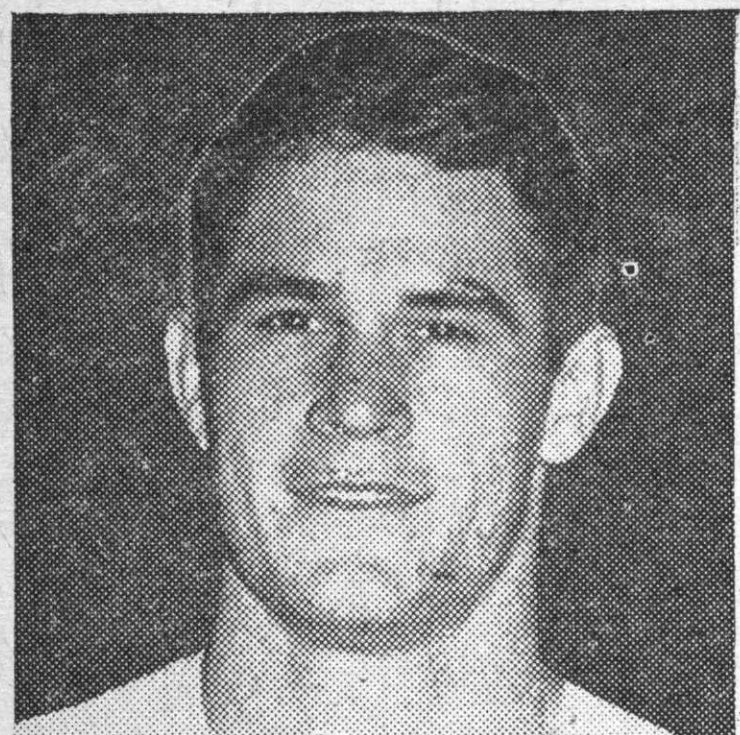


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Oil

Bowl

Jackets Start Training For New Year's Game

By Joe Torcassi

After a week of relaxation, the bowl bound Jackets began practice Thursday in preparation for the New Year's Day classic against St. Mary's at Houston, Texas. These workouts will continue until the Christmas Holidays on December 21, after which the team will be ready for a trip into the heart of Texas.

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This year's Bowl games will mark the end of one of the most hectic seasons in football history. Pre-season favorites have toppled by the dozens. Unheralded elevens have come through with one upset after another.

Top Game

The 'Oil Bowl game shapes up to be one of the outstanding features of the day. As the past season has already shown, both squads are high scoring elevens with a much praised defense. St. Mary's has lost to California and U.C.A., the powerhouses of the Western Conference.

Similarly, Tech has been defeated by the co-champions of the SEC. Both teams have triple threat backfields with a slight edge in favor of the Gaels due to the Hawaiian star, Herman Wedemeyer. Dinky Bowen and Pat McHugh will have a days work cut out for them to outplay him.

On the line Tech rates the edge over the Gaels. All-American Paul Duke, followed closely by teammates Bobby Davis and Bill Healy are among the top ranking linemen in the country. There is little doubt as to the capability of the teams and, barring practice injuries, both will be in top physical condition for the game.

A capacity holiday crowd is expected to witness the duel between these two powerful elevens. Cheering sections, although not directly attached to either school, will be lined up according to whether one comes from the Deep South or Far West. The outcome should give a good comparison of the brand of football played in both conferences. It all adds up to a great contest.

Scribes Pick All SEC; Duke Receives Honors

By Jimmy Wall

Georgia Tech, losers only to Tennessee and Georgia in regular season play, led all other Southeastern Conference teams with three players on the Southeastern Collegiate Sports Editors All-SEC, conducted by the Orange and White, student publication at the University of Tennessee. Of these three, Captain Bobby Davis and All-American Paul Duke were unanimous choices of the scribes. Bill Healy was the third Jacket on the mythical eleven.

Trippi Unanimous

Georgia, co-champions of the SEC placed two members on the first team, guard Herb St. John, and another unanimous choice, halfback Charlie Trippi. Tennessee, which finished with the Bulldogs in a tie for first honors in the conference, had one man, Dick Huffman, on the squad. Florida, Mississippi, Alabama, Auburn, and LSU each landed one man.

Both of the state's quarterbacks, Frank Broyles of Tech, and Johnny Rauch of Georgia were placed on the second team that includes two men from Georgia and LSU and one each from Tech, Kentucky, Mississippi State, Tulane, Mississippi, and Tennessee. Only Vanderbilt's commodores failed to have a man named to either of the first two teams.

Leading Receiver

Big Ray Poole of Ole Miss and Broughton Williams of Florida, the leading pass receiver in the nation, were placed at the two end positions. Poole is a member of the famous football Poole clan in Mississippi. Davis and Huffman were at tackles, while St. John is Healy's running mate at guard. Duke, who has made every All-Conference team and most All-American teams, rounds out the line at center.

By Dick Miller

From out of the Flats of Georgia Tech has come another Jacket immortal to stand with Bob Ison, Peter Pund, Harvey Hardy, John Steber, and the other Tech greats who have been chosen to mythical All-American elevens. Called by some as the equal of Pund, great center on the 1928 Rose Bowl eleven, Paul Duke, Tech's standout pivot man for the past three seasons, has joined the parade of stars.

Duke heads the list of Jackets that have been named to all teams, which includes Captain Bobby Davis, all-conference tackle for two successive years, Bill Healey, standout guard, and Frank Broyles, about whom Coach Dodd says, "Its like having a coach on the field, when you have Broyles at quarterback." All of these men were named to positions on All-American or All-SEC squads for the past season.

Doubles Rival

Duke has made many national ly recognized All-America teams, including the Associated Press, United Press, NEA, and Collier's magazine elevens. To illustrate how highly regarded Duke is held in the nationwide poll conducted by the UP, he almost doubled the number of votes his nearest competitor garnered. Naturally Duke gained sectional honors, being chosen center for every All-South and All-SEC team, and he has been a unanimous choice on all-opponent teams picked by Georgia, LSU, Auburn and Duke.

Captain Bob Davis, Tech's huge, fast tackle has also received national notice. Davis has made several second team All-American teams where his running mate was Bill Chambers of UCLA and late of Tech. Davis garner-

(Continued on page 11)

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Reading from left to right: Bill Busbin, Alternate Captain George Mathews, Dinky Bowen, Paul Duke, Frank Broyles, Pat McHugh, Rabbit Jordan. Reading down: George Broadnax, Ralph Slaten, Ewell Pope, Bill Healy, Captain Bobby Davis, Jack Griffin; not pictured, Walter Kilzer.

TECH MEETS GAMECOCKS TONIGHT

Herb Bergman Named Captain

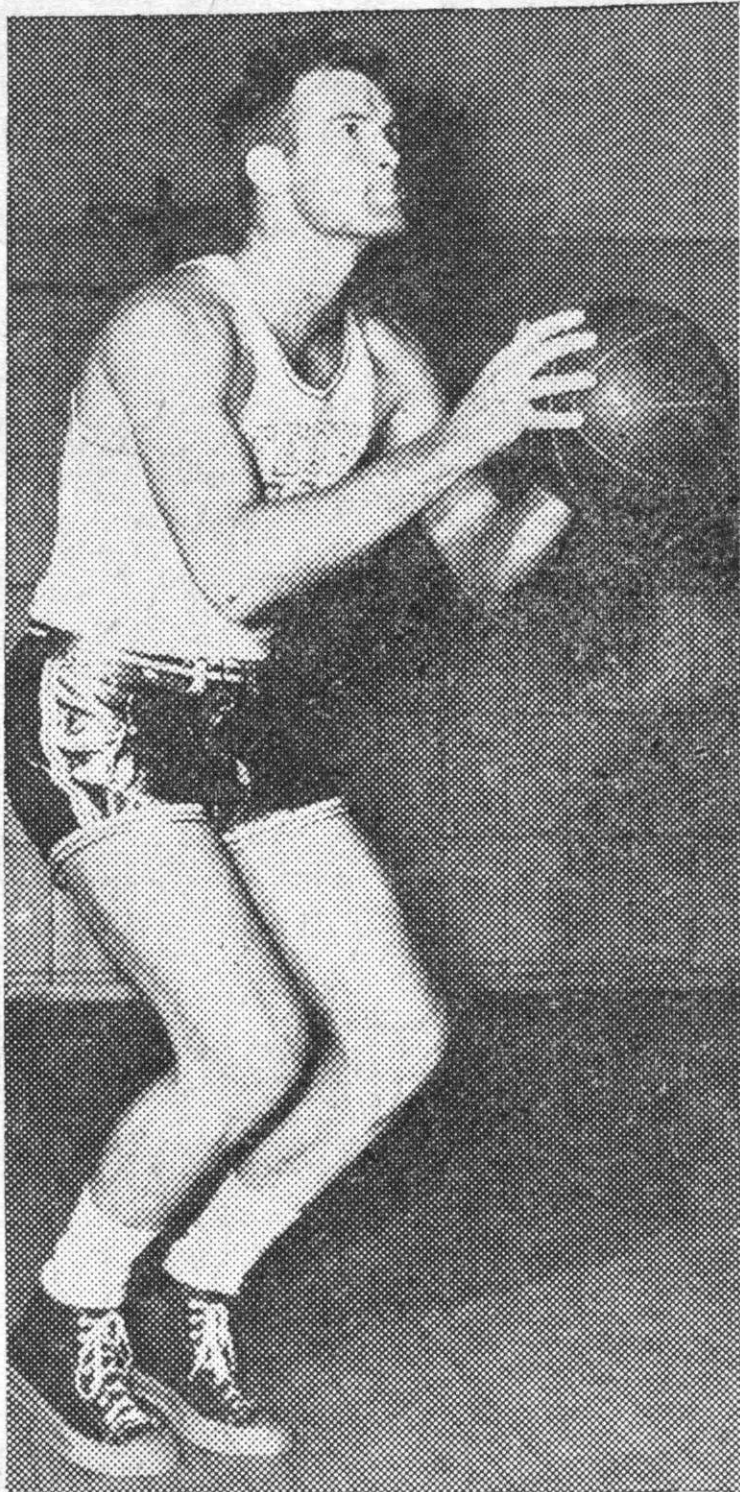
Captain Herb Bergman, and Alternate Captain Wes Paxson will lead Tech's basketball squad tonight in the second game of the season against South Carolina Gamecocks at 8 o'clock in the gym. Bergman, an all-conference guard on the Jacket '43 team, and Paxson, who was all-conference center on the '44 five, were elected by their teammates to head the Tech team for the coming season at a surprise election Tuesday.

Other Starters

Also in the starting lineup in tonight's game, the second in a series of three home stands before Christmas, will be Dick Collier, Frank Broyles, and Spider Jim Nolan. Broyles, who has been working out with both the hoop and football teams will be in the lineup until after Thursday night's game with Davidson. He will then rejoin the team immediately after the Oil Bowl trip. Bobby Davis and George Mathews members of last year's cage team and standout griders have decided to devote all of their time to football and won't report for the team.

Only 2000

Admission for tonight's battle with the Southern Conference speedsters will be by student pass books, used during the football season. The gym, according to George Griffin, will seat close to 2,000 fans and the first 2,000 students to put in appearance at the game will be admitted. The rest will have to be turned away. The same arrangement will apply for Thursday's game with Davidson, after which the student body will be divided into three sections and given tickets for two games each of the six home games following Christmas.



HERB BERGMAN

ALL-SEC SQUAD

First Team		Second Team:	
Williams (Fla.)	E	Jones (Ky.)	
Poole (Miss.)	E	Tereshinski (Ga.)	
*Davis (Ga. Tech)	T	Barnes (LSU)	
Huffman (Tenn.)	T	Garrett (Miss. S.)	
St. John (Ga.)	G	Bourgeois (Tulane)	
Healey (Ga. Tech)	G	Worley (LSU)	
*Duke (Ga. Tech)	C	Mancha (Ala.)	
*Trippi (Ga.)	B	Conerley (Miss.)	
Gilmer (Ala.)	B	Rauch (Ga.)	
Tidwell (Auburn)	B	Broyles (Ga. Tech)	
Tittle (LSU)	B	Slater (Tenn.)	
Backs: McWilliams (Miss. State), Bowen (Ga. Tech), Collins (LSU), Philps (Ky.), Davis (Miss. State), McHugh (Ga. Tech), Cutchin (Ky.)			
Ends: Cook (Alabama), Tarzetti (Tulane), Lindsey (LSU), North (Vanderbilt), Hubbell (Tenn.)			
Tackles: Champagne (LSU), Sidorik (Miss. State), Satterfield (Vanderbilt), Compton (Alabama), Williams (Ga.)			
Guards: Drost (Tenn.), Deraimee (Tulane), Robertson (Vanderbilt), Fulmer (Auburn), Yarutus (Ky.)			
Center: Ballard (LSU).			
*Unanimous Choice.			

Duke Great—

(Continued from page 10)

ed a second string berth on the All-South team, first string on the INS and AP All-SEC teams, and second string on the UP's All-SEC team. Davis has another year of eligibility remaining and he's a good bet for All-American next year.

There may be better guards around than Bill Healy, but we'll have to see them to believe it. Healy, though not receiving the publicity others did, was so outstanding in the line that his great ability has been recognized. Bill, only a sophomore, made the All-South team over strong opposition, and the first string All-SEC teams

of the UP, AP, and INS. This hustling lineman is a sure bet for national honors next season.

Frank Broyles, Tech tactician, punter, and passer also came in for his share of honors. Broyles received honorable mention on the star-studded All-South team, made the AP's All-SEC backfield, and the INS and UP's second All-SEC teams.

Other Tech gridgers to receive All-Star mention were Pat McHugh, George Mathews, Dinkey Bowen, and George Broadnax.

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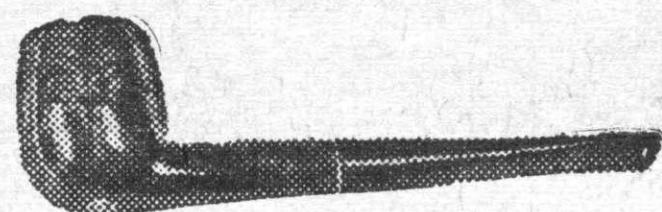
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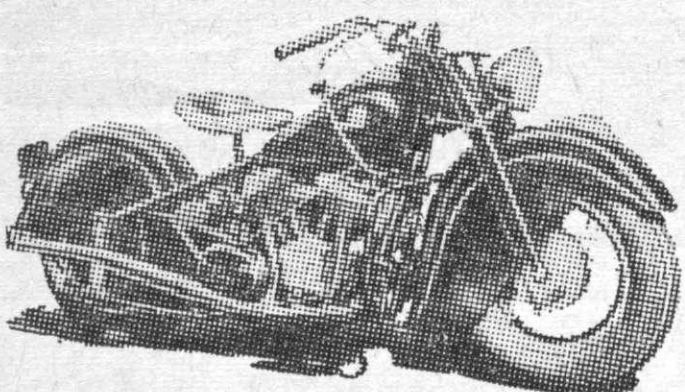
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Editorial:

Class Elections

One of the first events coming up next quarter which will affect the general student body is class elections. Like many other school elections in recent years, the class elections have brought little interest and response. If this is to be changed this time, all the students must do their part.

Just what the duties of class officers are is a little vague. To judge by what recent class officers have done, we might say there aren't any. That is a little unjust, though, for in a way conditions were such as to prevent a great deal being accomplished. However, today conditions do not prevent, and much can be done by the proper officers. There are some things they must do, but there are many others which will wait for a little initiative.

Dean George Griffin, in a recent talk to the Student Council, suggested a number of old traditions which might be brought back, together with some ideas worth trying. To mention a few:

1. At least three class meetings each year, arranged at the most convenient time.
2. At least one class dance each quarter, to be open only to men of that respective class.
3. A class banquet at the end of the year.
4. A class basketball league, with a team from each class.
5. A class track team for the annual Field Day each Spring.
6. A class softball league, with class teams.
7. Revival of the Dramatic Club, The Marionettes.
8. Activities to foster school spirit and provide equal chances for participation.

There are many additional ideas which could be added to this list. It would certainly be well for the different candidates, when speaking before their class meetings, to bring forth what they think needs to be done, and which, if elected, they will attempt to do. If the students on their part will attend these class meetings and listen to the presentation of the candidates, they will be taking a long step toward helping both themselves and the school.

Incompetency—?

By Jim Williford

They are dead. The newspapers published almost unbelievably hideous accounts of their losing struggle for life. The radio broadcasted interviews of the fortunate, and gave lists of those safe, injured, and dead. The toll mounted while a nation paused horror stricken—122 persons died revolting deaths. This fact cannot be stamped too indelibly on our forgetful minds. Those people are dead. Our sympathy will not make less of this national disaster, nor will it recall from the dead those who perished to prove man's incompetency. Thoreau once said, "If misery loves company, misery has company enough." We should not accept this blow to hundreds of families as a hard stroke of fate, but unite in our determination to prevent recurrences of this sort.

The cause of the blaze that converted the Winecoff Hotel into a gigantic chimney is relatively insignificant in comparison to the potentialities of similar situations. The human factor that slew those hundreds, and is today a latent slayer of us all, was inefficiency. Some completely incapable person disregarded the hazard of the orange monster by constructing internal "fire escapes", allowing highly inflammable articles in a supposedly fireproof structure, and failing to preconceive the danger and plan safe methods of quick escape for all.

There is a moral to this ghastly scene in life's drama—a moral that should impress upon us, as future key men in a technical world, that our responsibility to society—and those are big words—should keep ever present in our minds the thoughts of safety for the thousands who will deal directly with an engineering feat which we have helped bring about. We may not receive a heart-felt "thanks" for engineering a well planned highway, or designing a safer machine, or discovering a less dangerous method of construction, but our recollection of past calamitous events such as this should serve to stimulate us in our determination to perfect modern technology for the betterment of man.

Merry Christmas

Lord Hornblower—Review
On C. S. Forester's Work

By R. L. Ellis, Jr.

Lord Hornblower is the latest and, according to its author, the last of the Horatio Hornblower series. This series of novels began in 1937 with *Beat to Quarters* in which Horatio first made his appearance. Then only a mere midshipman, Hornblower worked his way up the ladder of fortune until in the last book he is given the title of "Lord" and is a commodore in the English Navy.

Horatio Hornblower is made to appear a real person, a creature of flesh and blood, by the author. He is a sensuous and almost timid man, unlike the brutal officers of the "Captain Bligh" type. Hornblower is inclined to feel sorry for the men, and often imagines himself in their place before he issues orders. He is tall of stature yet thin and windblown. He is in constant fear of making a slip and appearing a weakling to his men; he is careful to pick his words carefully. Though panicky in trying situations, he manages to appear calm and to act as if everything is going according to plan. His pet peeve is the fact that he always becomes seasick at the beginning of a voyage, and that he must conceal this from his men.

Yet Hornblower is crafty and wise. His smart planning and ability to foresee happenings in advance bring him through many trials and are the major traits by which he rises to fame and fortune.

The Hornblower series consists of three small books, *Beat to Quarters*, *Ship of the Line*, and *Flying Colours*, which lately have been combined to form one large volume under the title *Captain Horatio Hornblower*, and two standard books, *Commodore Hornblower* and the last, *Lord Hornblower*.

Hornblower's adventures take him around the horn into the Pacific, to the Mediterranean, and north to the Baltic Sea, and provide a great variety of situations for his ship and crew. His life is by no means a bowl of cherries; in *Ship of the Line* he is forced to surrender his ship against overwhelming odds, and in *Flying Colours* his first wife dies in childbirth.

Several times Hornblower's luck seems unbelievably good. Storms save him from impossible situations; he is saved from being executed by the news of Napoleon's final defeat at Waterloo. At times the plot seems to drag when too much time is spent

in Hornblower's mental trials. This, of course, helps the reader to picture him better as a real person.

At the beginning of *Lord Hornblower*, our friend is recovering from a wound and the hard Baltic campaign. He has the rank of commodore and his title is "Sir Horatio Hornblower." He is called upon by his commanding officer to quell a mutiny aboard the *Flame*. This ship was operating in the blockade of the French ports and was in the Bay of the Seine when the mutiny occurred. Hornblower is familiar with the *Flame*'s captain and pictures the situation behind the rebellion. He is given full powers and is assigned the *Flame*'s sister ship *Porta Coeli*. After being delayed by a storm, Hornblower reaches the bay, approaches the *Flame*, and attempts to persuade the mutineers to give themselves up. They laugh at him. He resorts to trickery and cuts off the *Flame*'s only escape route to the nearby French port. Beset on both sides by English and French, the mutinous crew surrenders. Hornblower sinks several French gunboats and captures a blockade runner in the process.

Hornblower does not stop here; with reinforcements and more trickery, he takes over the city of Le Havre, persuading the people that Napoleon will soon be defeated and that the Bourbons will reign again. Since communications in those times were slow, Hornblower succeeds in his daring enterprise. After Bonaparte is beaten at several more places, Hornblower moves up the Seine in his ships, even carrying French royalty and his wife, Lady Barbara, with him. Upon reaching Paris with Bonaparte now out of power, Hornblower is given the degree of Peerage and becomes Lord Hornblower.

Several months later Bonaparte returns to power and Hornblower has his choice of escaping to England or leading guerrilla warfare in France. He chooses the latter. After weary weeks of fighting, his band becomes dispersed and he is captured. At a court martial he is told that he was sentenced to death by firing squad when he was in Bonaparte's hands before, but escaped. On the morning of the execution word comes of Bonaparte's final defeat at Waterloo. Hornblower is freed immediately, and the book ends.

Graduate Division

By Dean R. I. Sabrach

Several centuries ago Francis Bacon remarked that the principle purpose of education was "to search out, guide and form a mind nimble and versatile enough to catch the resemblance of things, and at the same time steady enough to fix and distinguish their subtler differences." He might very well have had in mind one of the important distinctions between undergraduate and graduate education.

The undergraduate is of necessity concerned with "the resemblance of things." The increasing complexity of science and engineering makes it impossible for him to consider more than the general case, with the basic rules attending, in any of the many aspects of mathematics and pure and applied science that he must become acquainted with. Yet we all know that very seldom does a practical problem correspond to the general case with any high degree of fidelity. The "subtler differences" that Bacon mentions become very important; and inability to deal with them except by rule of thumb or cut-and-try methods can be a real bar to a man's advancement in his profession.

Basic Philosophies

It is with these individual differences that the graduate student is concerned. He has progressed from an overall, bird's eye view of his field to a minute and searching scrutiny of its detail. It is no longer its consistencies that engage his attention, but its apparent inconsistencies; and it is his task to reconcile those inconsistencies, to make them a part of a coherent whole. He finds his undergraduate preparation in mathematics and pure science no longer adequate; they were capable of dealing with the general case, but they lack both the scope and precision necessary to encompass and express the particular instance in all its uniqueness. He finds he must go behind the mechanics of mathematics and science, and gain insight into their basic philosophies if they are to assist him in his effort to correlate apparently random phenomena in his field.

The general objectives of graduate study are to indicate the broad scope and intimate interrelationships of fundamental and practical knowledge; to teach the importance of accuracy and precision in securing evidence; to give practice in analyzing evidence, drawing conclusions, and presenting these results concisely and clearly; to develop intellectual honesty, imagination, and courage of one's convictions. To do this requires a curriculum that steers a course between over-specialization and over-generalization, and a faculty with a diversity of experience, personality and outlook. In graduate education (quoting Bacon again) "much should be tasted, a part may be swallowed, some must be thoroughly chewed and digested."

Secure Foothold

The result is a man well enough versed in a chosen aspect of his field to assure himself a secure foothold professionally, yet at the same time sufficiently versatile to insure that no new development will find him unable to adapt himself. He has gone beyond the textbooks, with their necessary condensations, generalizations and omissions (and their inevitable lag so far as new developments are concerned). He has become familiar with the literature of technical journals and monographs, which are the records of the developments in his field in its ultimate boundaries—the laboratories and the studies. As a senior he barely knew of the existence of these source materials, and he lacked the advanced courses that would have enabled him to have read them profitably. Had he entered on his professional career immediately after his baccalaureate, the horizons they disclose would have been denied him—unless he had completed on his own initiative a long and arduous course of study in the advanced science and mathematics necessary for complete understanding of precise and scholarly expression. Such subjects are not readily self-taught, or easily grasped by a mind already tired by a full day's work.

Better Equipped

But thus equipped by formal study in an academic environment, with the resources of faculty, library, and laboratory at hand, the period of professional apprenticeship that must be served by everyone not acquainted with the practical aspects of his work is greatly lessened for the man who has carried his education to the Master's level. With an adequate formal background, he can concentrate his entire attention on its application to the problems that confront him. Since the Master's degree is still an evidence of potential rather than proven ability, his startling salary may not be a great deal higher than it would have been had he halted his education a year earlier; but he should soon surpass any figure he might have achieved with less thorough preparation.

The doctor is a man who has not only prepared himself adequately for work in his field, but has in addition proven himself by concrete achievement in a particular aspect of it. His professional apprenticeship is behind him, completed under conditions most favorable for intellectual growth, while subjected to the most rigorous academic, scientific, and professional standards. He has been tried and tested in his field; and his starting salary is usually commensurate with his proven ability.

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