THE
JULY
1965

GEORGIA TECH ALUMNUS

RAT CAPS AND RIFLES—another step towards extinction?

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RAMBLIN' – the editor's notes

▲ THE END of the academic year is our New Year's Eve. You can't work long around a campus without knowing this. Time here is measured from July to June, and the other calendar means little.

But Commencement time—that's when the sadness hits you, and there are no horn-blowing, ratchet-rattling parties to temper the closing blues with artificial joys. Perhaps it's better this way, but at this moment you would have a difficult time convincing us.

Commencement, 1965, has a meaning all of its own to this one man on the Tech campus. But then we guess all of them do. But this one—even the waiting snook and tarpon can't help erase the poignancy. Among the eight retiring members of the Tech staff this year are two men who have been both teachers and friends to us. And walking across that particularly unphotogenic stage of the Fox Theater this morning of June 12 was an Industrial Engineering graduate who as a photographer has meant so much to this magazine and to the Tech publications program for over three years.

* * *

▲ LET'S talk first about Henry Adams, professor of English and for 19 years a member of the Tech faculty. Here is an imposing bear of a man whose gentle manner of speaking masks a fiercely competitive temperament. At SMU, Henry Adams earned four letters in football and three in baseball. And today, on the eve of his retirement, he can still give any member of the faculty, regardless of age, a tough workout on the tennis courts.

We first encountered Professor Adams in a Shakespeare course in 1948, the initial time he taught it. We had signed up for this particular elective because it was to be Dr. W. G. Perry's final quarter as a teacher, and we wanted one more shot at the "Hour of Charm." When Dr. Perry decided to forgo teaching that course, we were less than happy to say the least.

Professor Adams' approach to the course based on his own interest in the Elizabethian stage was not calculated to further endear him to members of the class such as those of us more interested at the time in what Shakespeare had to say than in the way in which it was produced for the people in the pit. We did less than our best in the course because of this. And every time Henry Adams sits down with us in the faculty lounge, we have felt like apologizing to him for our attitude during that far-away quarter. (After all, a man can sit at home and read Shakespeare and understand him. But the staging—that is something else.) As usual, we never did get around to it, so we are doing it 17 years late behind the protection of a typewriter.

* * *

▲ DR. JOSEPH E. MOORE, regents' professor of Psychology, is another one we owe an apology to. We did even poorer in his course in Applied Psychology than we did in the English course. In those days, we were playing with a local dance band, working late most of the nights, and in the mornings we often encountered Dr. Moore on the bus coming to school. His lecture on that bus was always the same, "You should get some sleep once in a while. You're beginning to look pretty bad what with those black circles under your eyes." Joe Moore is a man concerned with his fellow men. And because of it he was a highly successful practicing psychologist. He was also the man who more than any other started the School of Psychology at Tech. He headed the school in its early years and then a few years ago decided he hated administration (a not uncommon reaction from people who like people) and returned to teaching and consulting.

He still stops us when we see him on the campus and comments about our health and our work. And the respect he has earned on this campus is a direct reflection of his genius and his interest in people. We would like to tell him that the D we earned in that course in 1947 was an honest one. The day of the final when the *word* got out, Jimmy Jordan and this writer turned it down and it cost us. But at least we have had no trouble looking Joe Moore in the eye since that day.

The campus will not be the same without the two elder statesmen.

* * *

▲ THE FINAL FIGURE leaving Tech this month will be missed for a different reason—he has been the student and we the teacher. Although, we'll have to admit that the teacher has learned a great deal more from the pupil than is the usual case. Bill Sumits, Jr. has been discussed before in this space. That he is an editor's dream come true is an understatement. He is an exceptional talent with a camera, and he is also the only fine photographer we have ever met who seems willing to learn from those who might be short of his talent but have experience on their side.

His work has graced the pages of this magazine for three years exactly. And the backlog is such that you will be seeing it for a year or two to come even though he may physically be gone from the scene.

He has grown in technique and nurtured his talent over the past three years. But that most important part of the superior photographer's make-up—a point of view all his own—hasn't changed at all in these three years.

It will be tough next year, not being able to call Sumits and give him an assignment and know that you will get the best every single time.

* * *

▲ BUT with all these losses, there are still some people who can do the superior job every time for the magazine. Two of them are right in this office: Mary Jane Reynolds, who is now copy editor of the magazine, a job she has handled without the proper title for almost eight years; and Marian Van Landingham, who joined the staff of the publications office as science news editor less than a year ago and who is now the associate editor.

Before Mary Jane Reynolds arrived on this campus, this magazine had a reputation for the slovenly manner in which it was edited from a detail standpoint. Despite the fact that she does all the work on this publication in her off hours (her assigned position is senior editorial assistant in the publications office) she has managed to purge the book completely of this stigma and keep the editor from falling back into his former habits. This has been no small task.

Nor can we say too much about the superior job Marian Van Landingham has done in her first year on the magazine. Her articles (ranging from campus reports to science fiction) have had an excitement to them that few writers could get into some of the prosaic assignments she draws. They are both gems, and we're happy to say that the two ladies will not graduate this year.

* * *

▲ WHICH brings us full circle to that end of the year bit we were discussing earlier. The snook and the tarpon in the St. Lucie River are waiting. We'll give them your best. **B. W.**

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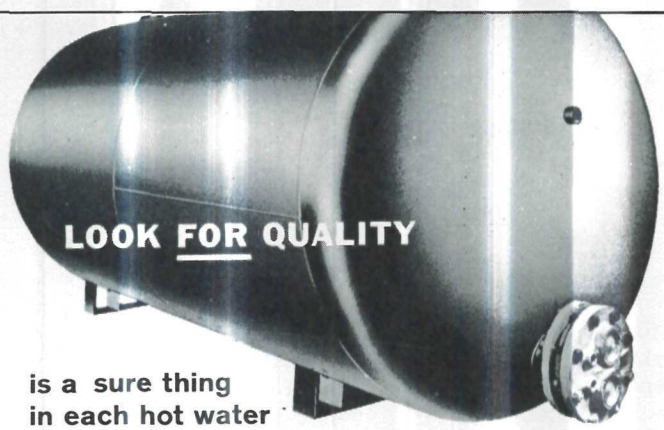

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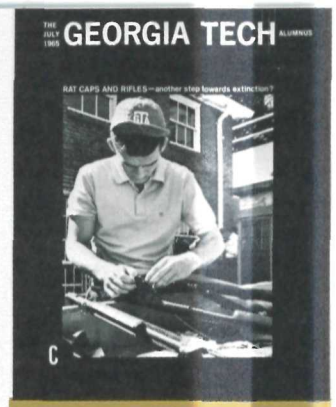

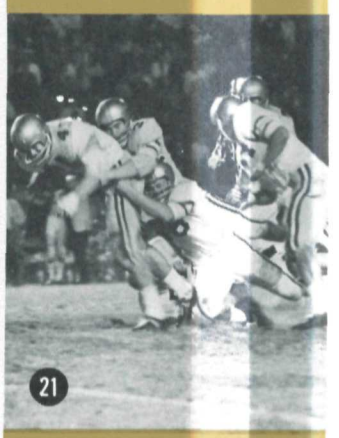

THE JULY 1965 **GEORGIA TECH** ALUMNUS

Volume 43 Number 8

THE COVER

That traditions are changing rapidly at Tech there is no denying. During the past year, the Rat cap stood on the threshold of disappearing forever but managed a reprieve at the last minute. The rifle came even closer to extinction when the faculty and the Board of Regents voted to abolish compulsory ROTC training at Tech under the ROTC Vitalization Act of 1964. And the Air Force turned in the rifles for good. For more see page 6. **Cover, Bill Sumits, Jr.**

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The *Alumnus* presents its annual report of life on the campus including the important and trivial happenings that make a year

HISTORY has a knack for reducing events once thought earth-shattering to a line or two of dull prose buried deeply in a book of frightening dimensions. In the long view, the passage of a single year in the life of an institution which has reached the age of 77 and shows no signs of tiring is little more than a fleeting instant.

But there are years which seemed designed for flaunting history. At Georgia Tech this has been one of them—a year when new campus plans, urban renewal programs, new buildings, new faculty outlooks, new research tools, and new student attitudes suddenly began to take final form. It was a year worth looking back at in wonder.

The twelve months that now appear so important began paradoxically in death—the Engineering Evening School, a part of Tech for some 56 years, expired on the very eve of the new academic year, a victim of the reorganization of the Engineering Extension Division. This upgrading of the Institute's after-hours program placed the responsibility for evening college credit work squarely on the backs of the degree-granting schools. The adult education, short courses, and preparatory programs were delegated to the new department of continuing education, an outgrowth of the old short courses and conferences department.

The year that began in death ended with the biggest sign of rebirth in the history of the institution—a $5,240,177 grant for Tech's 60-plus acre urban renewal program west of the campus across Hemphill Avenue. The grant was announced by the Urban Renewal Administration on May 13 climaxing a series of studies and projects that took up most of three full years. The grant approval came just in the knick of time. If it had been approved eight days later, Tech would have lost $250,000 in matching credits for the project which comes to something in the neighborhood of $1.5 million when the Urban Renewal money is passed out. For his work in masterminding and riding herd on the project, Joe W. Guthridge, director of development and assistant to the president, gets *The Alumnus*' "Man of the Year" award for effective service beyond the call of duty to Georgia Tech.

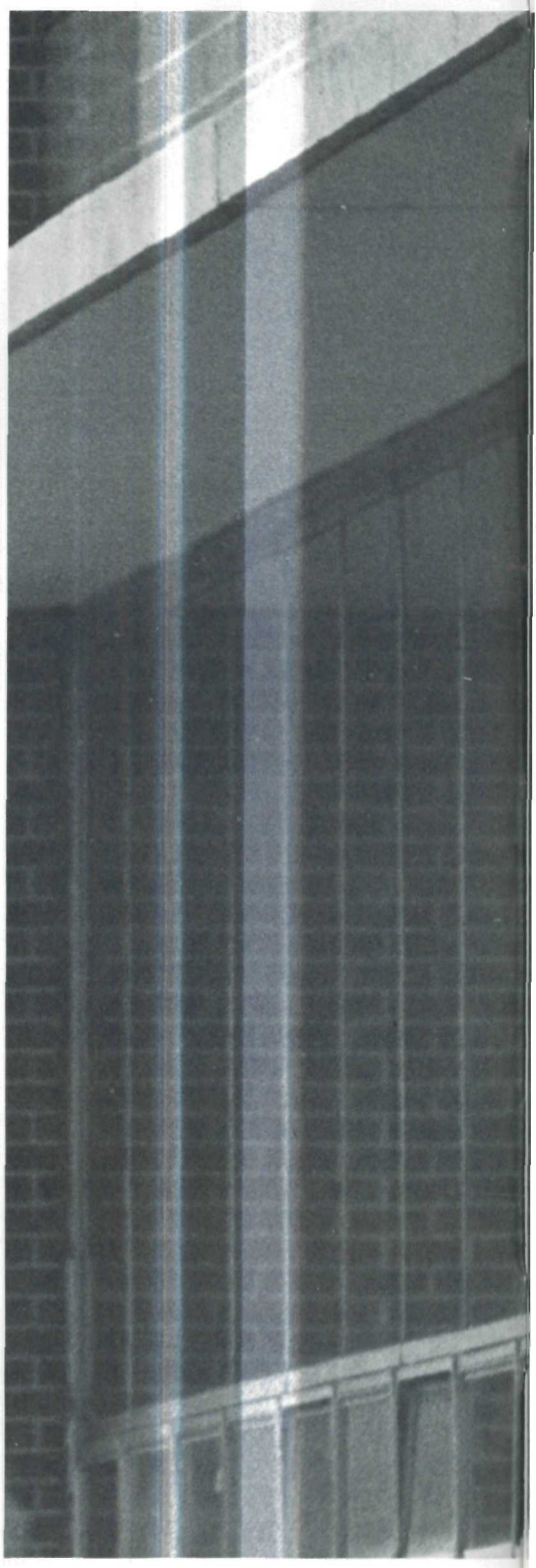
The Institute had received its share of the matching funds for this project from the Board of Regents through a vote in the 1964 General Assembly. This urban renewal program, first major step in the implementation of the Perkins and Will expansion plan which will eventually more than double the current size of the campus by 1985, is now under way. It should be completed within three to five years. Funds for a new student activities center, a new chemistry building, and an addition to the Engineering Experiment Station facilities, first structures to be located in the new area, have already been approved.

The Perkins and Will Study, first major campus expansion plan in almost 20 years, was announced on April 9 by President Harrison. The plan is designed to bring order to the building of a campus that for so long has borne a close resemblance to a patchwork quilt put together by a little old lady who really couldn't see very well.

Meanwhile, back on the old campus, building projects were getting started or being completed at a rate that even outdid the most optimistic predictions of a couple of years ago. The new Chemical Engineering—Ceramic Engineering Building was completed in the fall, and the two schools moved into their pleasant and utilitarian quarters during the Christmas holidays. The Frank H. Neely Nuclear Research Center had its own unique New Year's Eve celebration when the reactor went critical on December 31. The scientists and engineers in the center have been busy ever since checking out the most expensive of Tech's research tools, and bringing it slowly up to maximum power.

In another research area, Tech's new Electronics Building went under construction and is expected to be completed some time this fall. When this building is ready, one of Tech's finest research groups will depart the old wooden shacks that have been its home since 1947 and move into quarters specifically designed for their work.

Tech seemed to have a propensity for selecting special days for its ceremonies



Photographs by Bill Sumits, Jr.

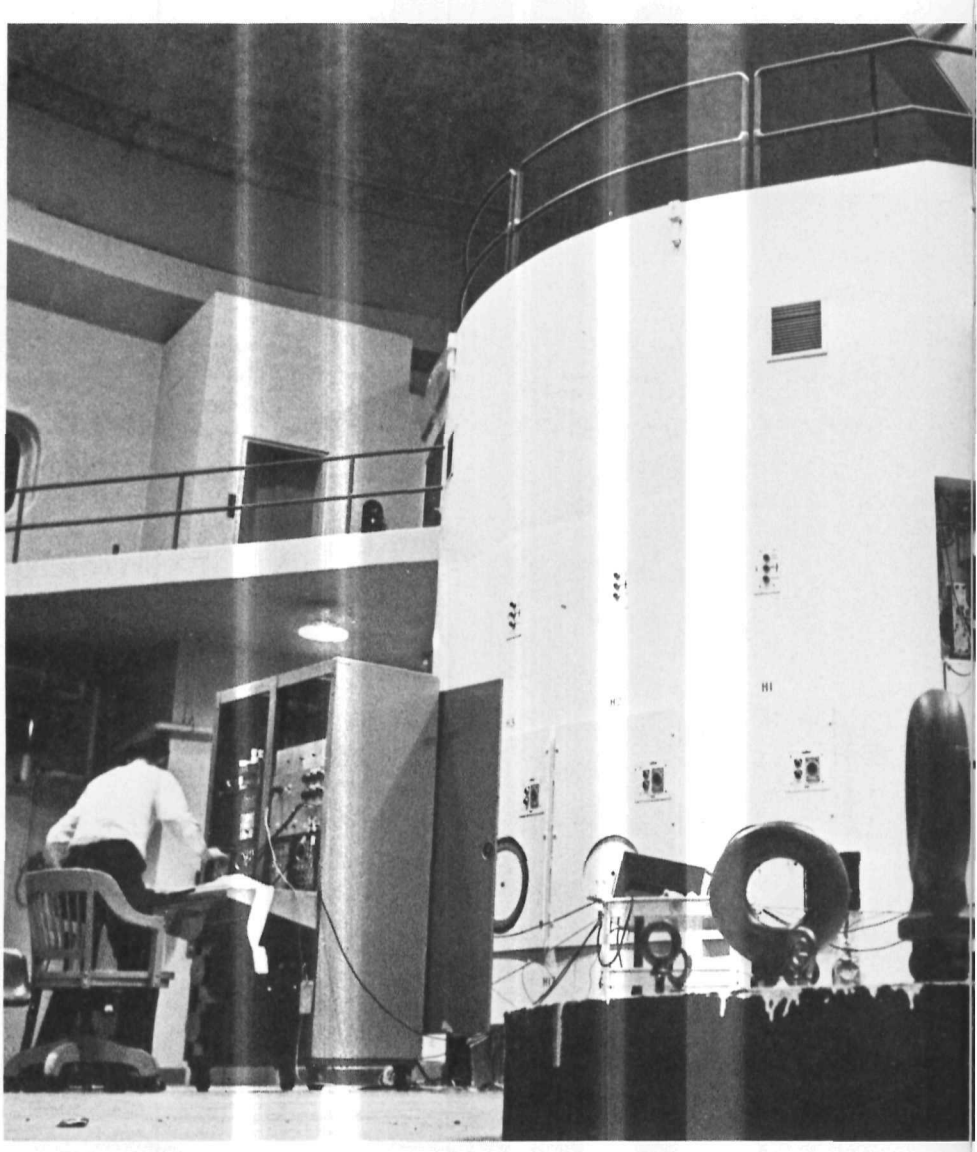
LOOK BACK IN WONDER

this year. On April Fool's Day, top NASA officials and *Atlanta Constitution* Editor Eugene Patterson helped President Harrison and Regents' Chairman James Dunlap in the groundbreaking chore for the new Space Sciences and Technology Center, which will eventually consist of three buildings located at the current Hemphill entrance to the campus at Uncle Heinie Way. The $3.5 million, all of the money for the three structures, has now been approved. It came from the State of Georgia, NASA, the U.S. Department of Health, Education and Welfare, and the U.S. Office of Education. The first of the buildings is now going up with a second to begin on July 1, 1965.

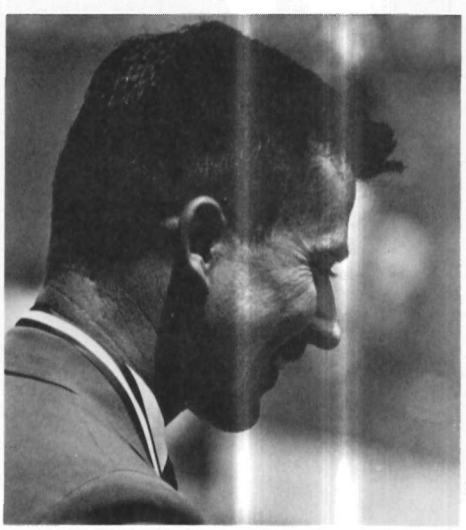
On June 10, the newly-appointed Chancellor of the University System of Georgia, Dr. George Simpson, formerly a NASA official, selected Tech for his first public speech in Georgia since his appointment (which becomes effective July 15). The occasion was the groundbreaking ceremonies for the new $3.5 million Physics Building which has been in the mill for a couple of years. The final $777,850 grant for the building came from the National Science Foundation (represented at the ceremony by the other speaker, Dr. Howard E. Page) in early spring. Another $1 million grant, this one from the U.S. Department of Health, Education and Welfare, completed the funding for the $3 million addition to the Price Gilbert Memorial Library. The original $2 million came from the Board of Regents. Bulldozers should be clearing this site by late summer or early fall.

All in all this was without any doubt the best grant year in Tech's history. The Institute was again among the nation's top schools in receiving support from the National Science Foundation for graduate traineeships and from NASA for its space-related science and technology traineeships. It was also a banner year for other fund-raising efforts. The Georgia Tech Foundation set a new record by raising $859,000 in undesignated and designated gifts during its fiscal year which ended December 31. This was more than $250,000 above any previous year and the funds came from record-breaking years by the National Alumni Association's Roll Call and the Joint Tech-Georgia Development Fund's solicitation of business and industry plus, of course, from individual, foundation and corporate gifts directly to the Foundation.

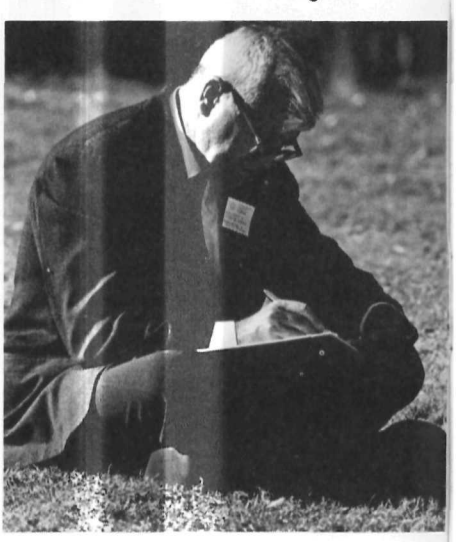
If Tech was holding out its palm for contributions from the alumni and community, it was also offering many serv-



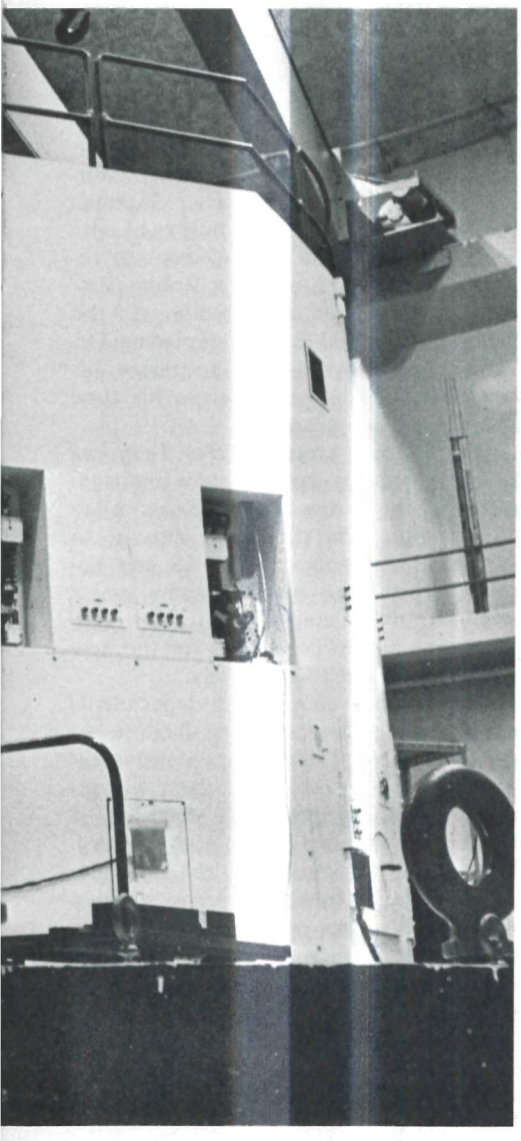
TECH'S YOUNG—into the wild yonder.



TECH'S ALUMNI—into school again.



Because of some rather frantic but effective work by the staff, Tech's nuclear reactor went critical on New Year's Eve.



TECH'S AJAX—into the dirt below.

ices. Approximately 4,000 persons participated in continuing education programs on the campus during the year. About 1,000 of these were taking college preparatory and adult evening courses and 3,000 came to the campus for seminars and institutes lasting from a few days to many weeks.

ONE hundred old grads gathered on the campus this year for the Fifth Annual Alumni Institute. They had a full day of fascinating lectures, on everything from the new math and an examination of the economic stands of the U. S. political parties to readings from Shakespeare.

Tech professors continued to fly around the country delivering talks, participating in conferences, seminars, and the like. A group from Industrial Engineering went to Puerto Rico to conduct institutes for wholesalers to show them how to cut costs and lower the island's food prices.

And the Industrial Development Division conducted an intensive eight-week seminar for 29 Tech students from Latin America on the methodology of industrial development—a course designed to help them take roles of leadership in sparking the growth of their countries someday.

A number of outstanding speakers came to the campus, including Senator Herman Talmadge, NBC commentator Sander Vanocur (who performed an autopsy on the November election with brilliantly cutting remarks), economist John Kenneth Galbraith (who discussed the gap between the have and have-not nations), and former Secretary of Defense Neil McElroy, now president of Proctor and Gamble (who talked about the organization and policies of P&G).

Another former Tech student joined the ranks of the *outstanding*—John Young, A.E. '52, took to space, orbited safely in the two-man Gemini capsule and his only regret was "that it didn't last long enough." The nation's shyest space hero is a Tech man through and through—tough, very smart, and practical.

It is possible that Southern Technical Institute, Tech's son out in Marietta, felt *launched* this year too. It was accredited by the Southern Association of Colleges and Schools as a "special purpose institution."

The take-off-point was also reached this year by the Water Resources Center at Tech. Georgia House Bill 497 designated the Center as the state agency eligible to receive federal funds under the Water Resources Act of 1964. This action was recommended by a joint committee of representatives from Tech and the University of Georgia, and was approved by the Board of Regents. Tech and Georgia will cooperate in water resources research projects.

But if this was the *best of all possible years* in the physical growth and fund raising, it was something else again in the matter of staff losses. Registrar Bill Carmichael must be convinced by now that he was the special target of fate after he lost three of his top staff members in less than eight months. In November, Assistant Registrar Lewis Van Gorder departed to take a top job at Georgia State College. Six months later, Associate Director of Admissions Bill Eastman took off for Princeton to join the staff of the College Entrance Examination Board (again for a better title and more money) and at the end of the year, Dr. Horace Sturgis, the Associate Registrar, was selected to be the first president of a new junior college near Marietta, Georgia. One faculty member in commenting on Carmichael's dilemma, said, "What a blow to Bill and to Tech. Of all of the colleges I have been around, this one has consistently had the finest Registrar's office. Now, he'll have to rebuild it practically from the ground up."

FOUR of Tech's best-known international figures were lost to the Institute during the final half of the year. Fred Lanoue, the creator of drownproofing and one of Tech's most famous characters, died on March 20 in a Beaufort, S.C., Naval Hospital.

Another loss this year was in the death of Dr. John Hans MacKay, aged 42, a brilliant research mathematician and assistant chief of the Rich Electronic Computer Center. Dr. MacKay had been at Tech since 1958. He formerly served on the faculties of the University of North Carolina, Tulane University and the State University of Iowa.

He was a member of the Institute of Mathematical Statistics, the American Mathematics Society, the American Institute of Certified Public Accountants and Sigma Xi, a man with a natural talent for working out elegant solutions to theoretical problems.

His ability as a scientist, his wit and the courage he showed in an almost lifelong battle with heart disease characterized MacKay as one of the best. He will

TECH'S TOWER—the Magnificent Seven suddenly comes up the Fabulous Fantom Five.

LOOK BACK IN WONDER—Cont.

be remembered by those who came to know him as a remarkable person.

Dr. Jack Hine, one of the greats of organic chemistry, decided after years of rejecting exceptional offers, to take one he just couldn't turn down from Ohio State University. And Dr. Walter Buckingham, whose book on Automation has sold a million copies, gave up the directorship of Industrial Management for health reasons and later accepted a position at Drexel Institute in Philadelphia.

The School of Physics also lost a good man when Dr. William Simpson, associate professor, resigned to accept a department head's position at Morehead State.

Six long-time faculty members retired June 30. They included Richard A. Trotter, professor of mechanical engineering, 35 years of service; Dr. Joseph E. Moore, regents' professor of psychology, 20 years; Henry W. Adams, professor of English, 19 years; Edward R. Weston, professor of electrical engineering, 18 years; Everard M. Heim, assistant professor of engineering graphics, 16 years; and George W. Ramey, Jr., associate professor of architecture, 15 years.

Also departing from the campus is the *Journal of Industrial Engineers* that was begun by Col. Frank F. Groseclose, director of the School of Industrial Engineering, 16 years ago. Groseclose edited the journal until 1953 and has since been chairman of the editorial board. Then Tech's Dr. Robert Lehrer was editor from '53-'59 and Professor Cecil Johnson from '59-'65. At a May meeting of the American Institute of Industrial Engineers a certificate of appreciation was awarded to the Tech school for its efforts in editing the *Journal* for so many years. From now on the *Journal* will have a full-time editor with offices in the new United Engineering Building in New York City.

MAJOR reorganizational changes during the year included Dr. Sherman Dallas' elevation to director of the School of Industrial Management to replace Buckingham, and Dr. Robert Fetner's appointment as director of the School of Applied Biology replacing Dr. Robert Ingols who asked to resign his administrative duties to devote his time to teaching and research.

For the past three months, Tech has been undergoing an extensive management survey by the firm of Booz, Allen & Hamilton. The report is due in to President Harrison on July 15 and because of it there may be some major administrative changes during the coming two years as Tech girds for the new size campus and student body.

Not all the schools and departments are looking forward to new facilities in the near future. Despite the extensive expansion program, many of them will remain for a long period in worn-out, if cherished, remnants of the 19th century. One of these remnants is the partially-reconstructed Knowles Building where a number of offices including that of student placement are located. Close to 2,000 company recruiters came from all over the country during the four-month "hunting season" to meet Tech students. Placement Director A. P. (Neil) DeRosa reminded them when they looked at the frankly "crummy" facilities for interviewing, "We're selling graduates, not interview rooms."

And sell them he did. The average starting salary for engineers at the bachelor's level this year was $635 for Tech men. And the graduates were in more demand than ever. The demand for graduate students continued to go up and following the curve, the percentage of graduate students in the student body also took a sharp turn upward. Last year there were almost 900 toiling for advanced degrees here on the campus, and 267 of them were studying for doctorates in science and engineering.

But despite all this, Tech remains primarily an undergraduate institution and, naturally, undergraduates see that they are on stage-center most of the time—usually by raising a ruckus of some sort. The *Technique*, a critical, often prodding

newspaper, stayed in hot water most of the year with the administration and sometimes with its fellow students. In March, the editor (for the second time in two years) was placed on disciplinary probation. This time, however, it was just for a few weeks and Bruce Fitzgerald returned to head the staff for the spring quarter. This year's incident was strictly a violation of a student rule and had nothing to do with the editing of the newspaper.

The publications board, composed of students (who have the majority vote) and faculty advisors, made history of a sort itself this year. It elected John Gill, an Atlanta Negro, as managing editor for the 1965-66 year. Gill, a junior chemistry major with a 3.9 overall average and the winner of both the Chemical Rubber Company Achievement Award for Chemistry (as a freshman) and the same company's award for Physics (as a sophomore), was picked simply because he was obviously the best man for the job.

THE average Tech student, even in a year of student revolt throughout the country, remained more concerned with getting through this "$%#&) place than in issues that seemed to stir up so much trouble at other institutions. In a free-wheeling discussion with a group of typical Tech students augmented by a couple of student leaders, the *Alumnus* found no one who thought that a University-of-California-type revolt could take place on this campus. The consensus was that despite the student griping, there is an interest on the part of the administration in the student and that there is a great deal of dialogue between the student and the faculty.

This group, however, felt that the Freshman and Sophomore classes were too large and that these professors didn't have enough time for the individual student. They agreed that the Tech courses were so tough that it took great mental discipline to get through them and that this toughness was one of the major sources of their own pride in their educational program.

The students queried saw little evidence of interest in issues outside the campus including the civil rights struggle, "probably one of the reasons that the integration of Tech has gone so smoothly," one added. They were concerned with Viet Nam, but not the type of concern evidenced by the teach-ins at some other colleges. The Tech man's concern seemed to center on what the war might do to his own career and life. Again, this interview session backed up the previous students' view that the Tech man is immensely practical and if this were not true he wouldn't make much of an engineer.

The big issue on campus is drinking according to this group of students. They feel that the administration is basically hypocritical in its attitude towards drinking on campus property. "It's taboo," they say, "but everybody knows it goes on."

Religion is on the upswing again, they reported. "An examination of religion and God is the natural outcome of education," one said, "You are forced to think."

"One is aware of contradictions and you must examine what they mean," added another.

The group then turned around and spoke quite critically of apathy on the campus, of the "let's do what's good for me" attitude, of the self-centeredness of the average student, of the materialism of today's society, of the reliance on man-made goods, and of the emphasis on self-gain. It is at this point that you begin to see a tremendous, really profound wistfulness and an idealism which the students are unable to articulate. It is as if they wanted more from life but they weren't sure what it was or how to go after it.

They talked of the great pressures they felt from parents to make high grades and to get good jobs when they graduate. They rebel at the emphasis on grades, yet they seem to go along with it. They also rebel at the spirit of competition which dominates our time and they deplore the lack of altruistic impulses even among themselves. They seem to be caught up in a system not of their making or even of their liking. Yet they don't quite know what to do about it.

IN retrospect, they were much like all of the classes interviewed by this magazine over the past 12 years. And with all of their seeming confusion and fussing, their mental health remains excellent because they are too busy to worry about it.

All of this doesn't mean that Tech students are particularly satisfied with their lot. A reflection of both the dissatisfaction and the originality of the Tech student hit the newspapers on May 26 after a group calling themselves the Fab (for fabulous) Fantom (sic) Five decorated three sides of the steeple of the Administration Building on the night of May 25. The incident, reminiscent of the Magnificent Seven whistle snatch of last year, was well planned and perfectly executed. The students climbed up the outside fire escape and then got on the roof using ropes, according to the best campus speculation. Then using gold paint in spray cans, they decorated the East side of the tower with "Bring Back Rat Rules," the North side with "We Want Rat Rules," and the West side with "Fab Fantom Five." For good measure they repeated over the Robbery door, "We Want Rat Rules."

TECH'S LIBRARY—even at night it is a busy place, so busy that it will be doubled.

TECH'S ACES—Johnson (left) and Speicher led the Jackets to the best tennis year in a long time during 1965, and they're only juniors.

The Physical Plant Department immediately dispatched a crew including a former steeplejack to paint over the signs. The re-painting supervisor was Charles Young, who remembers climbing to the top of the steeple to cover over a skull and crossbones back in 1940.

The incident was the culmination of a segment of the student body's irritation with the complete cancelling of rat rules two years ago and the fact that the freshman hats would now be worn only until the Homecoming game rather than the traditional Tech-Georgia freshman game on Thanksgiving. One group on campus had requested that "rat" hats be done away with altogether and another proposed changing the word "rat" to freshman on the cap. Neither of these measures was adopted by the Ramblin' Reck Club and the Homecoming game measure became a compromise of sorts.

The disgruntled student group had been stenciling "Bring Back Rat Rules" on most of the doors of campus buildings for the past two months and finally five of the group went all the way to the top of the tower to proclaim their philosophy.

In the words of one campus secretary, "I'm glad they are beginning to act like college boys once in awhile. I was getting worried about Tech boys."

Several new Institute policies regarding students were passed by the Board of Regents and will go into effect next year. Coeds can now receive degrees from any of the schools except for Industrial Management. This was limited because the Regents said that similar courses of study can be obtained in Atlanta at Georgia State College.

There was also a revolution in military policy. Compulsory ROTC was eliminated. A student now has three choices—he can continue to take basic ROTC for two years and then advanced for two years; he can go to one summer camp and get the equivalent of basic training and then in his junior year enroll in advanced training; or he need not take ROTC at all. The summer camp arrangement is possible because of the Reserve Officers Training Corps Vitalization Act of 1964. It means that students have longer to decide which service they prefer and those transferring to Tech from junior colleges without ROTC programs will, for the first time, be able to enroll in advanced training. The new policies apply only to entering students and are not retroactive. The '64 Vitalization Act upped the pay of students taking advanced training from $28 to $40 a month.

There seemed to be little student reaction one way or another to either of these minor revolutions.

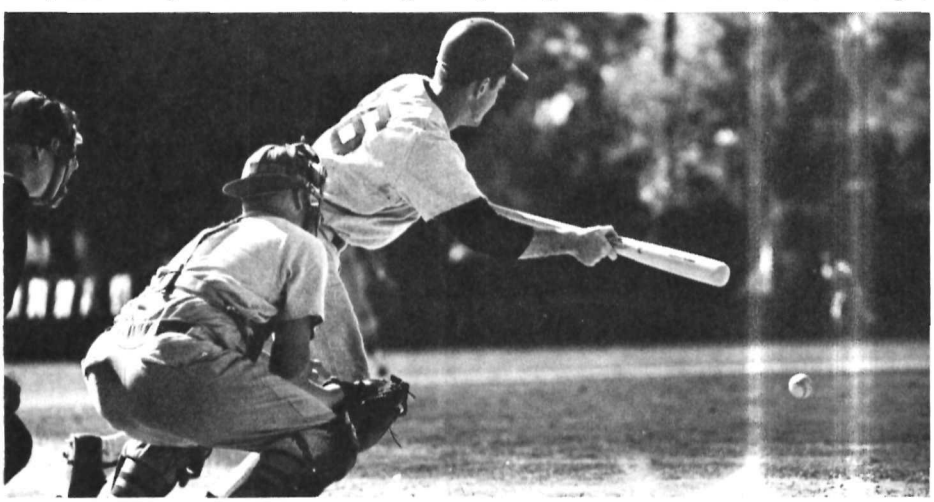
Another change of note occurred during the year when the Academic Senate approved, after amending for three meetings, the new Student Rules and Regulations prepared by a faculty committee. The key change to the students was the elimination of the school-wide, three-free-cut rule that has been in effect at Tech since the oldest citizen can remember. Under the new rules, cuts are the province of the individual professor and if he wishes he can decree that the students need not attend his classes except for examination days. This revolution was greeted by huzzas by the students, as expected.

It was a superior year for Tech's athletic program, this first one of independence from the Southeastern Conference. The football team won seven and lost three. The basketball team won five of its final seven for a 14-11 record. And the spring sports were the best in years as the baseball team had the winningest season since 1926 with a 20-8-2 record, the tennis team an excellent 15-3 record, and track (4-3) and golf (7-6-1) creditable records.

The research efforts at Tech get bigger every year. During 1964-65 over $6,300,000 was budgeted for research in the schools, departments and the Engineering Experiment Station. The projects ranged from the basic (probing the unknowns to expand understanding) to the applied (the immediate answers to specific problems) with many projects falling between the two poles. But research at Tech has not become the tail that wags the dog as it has at many institutions nor has the *publish-or-perish* doctrine struck this campus with anywhere near the force that it has at many of the others.

This year, 1964-65, was far from a typical one at Georgia Tech. But then the way things are moving in education and in the world of science and technology, every year stands to be atypical.

TECH'S BASEBALLERS—after a 9-16 record in 1964, Jim Luck's boys set a modern record for wins, finished eighth in the nation, and generally brought baseball back to the Tech campus.

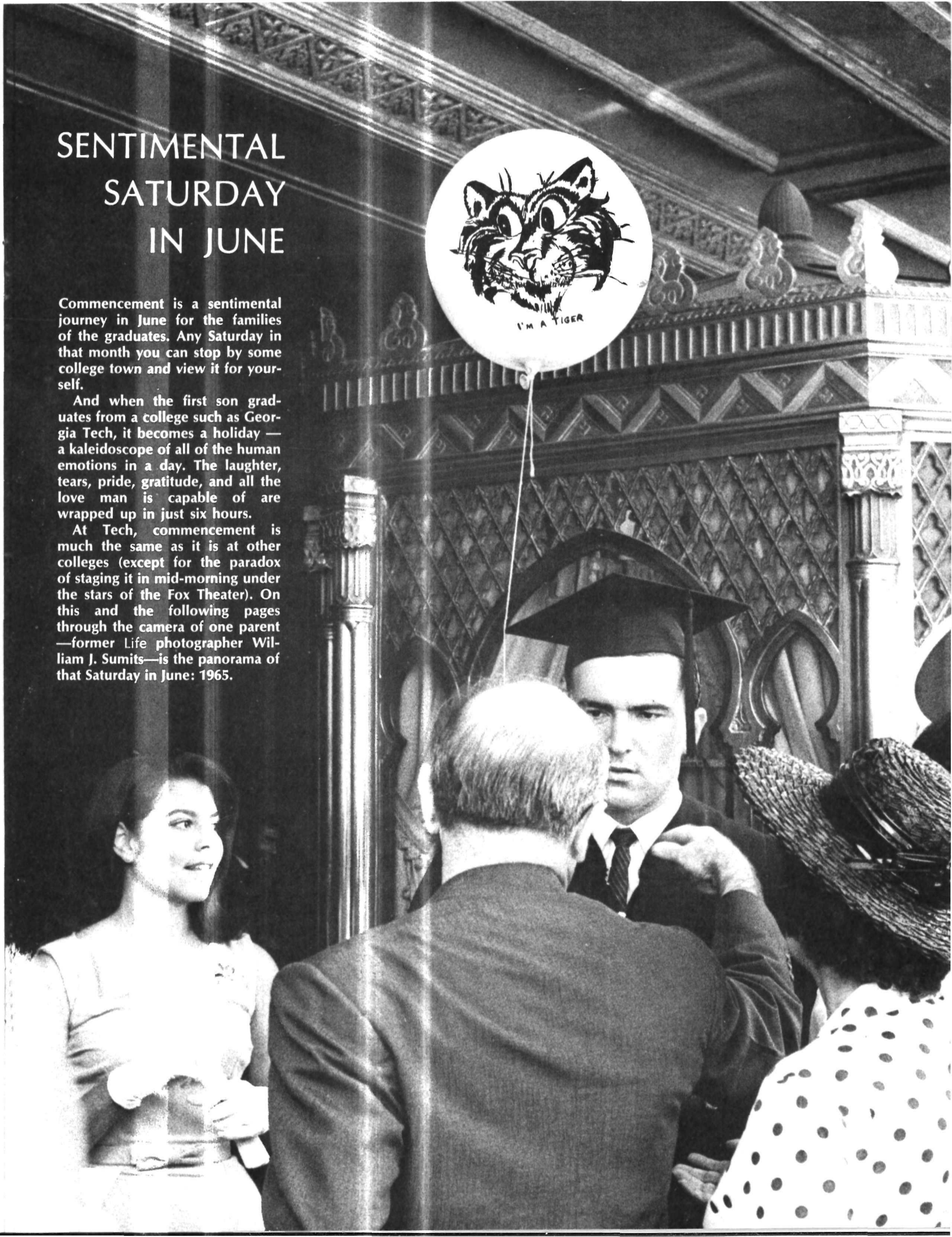


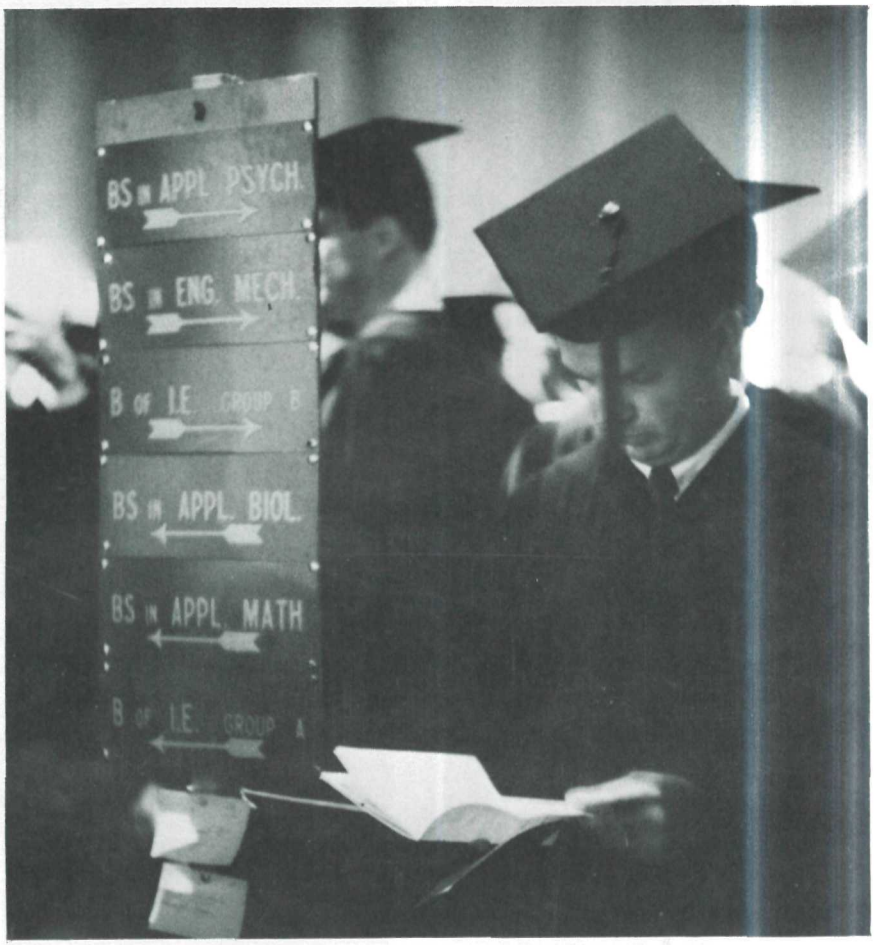
SENTIMENTAL SATURDAY IN JUNE

Commencement is a sentimental journey in June for the families of the graduates. Any Saturday in that month you can stop by some college town and view it for yourself.

And when the first son graduates from a college such as Georgia Tech, it becomes a holiday — a kaleidoscope of all of the human emotions in a day. The laughter, tears, pride, gratitude, and all the love man is capable of are wrapped up in just six hours.

At Tech, commencement is much the same as it is at other colleges (except for the paradox of staging it in mid-morning under the stars of the Fox Theater). On this and the following pages through the camera of one parent —former Life photographer William J. Sumits—is the panorama of that Saturday in June: 1965.





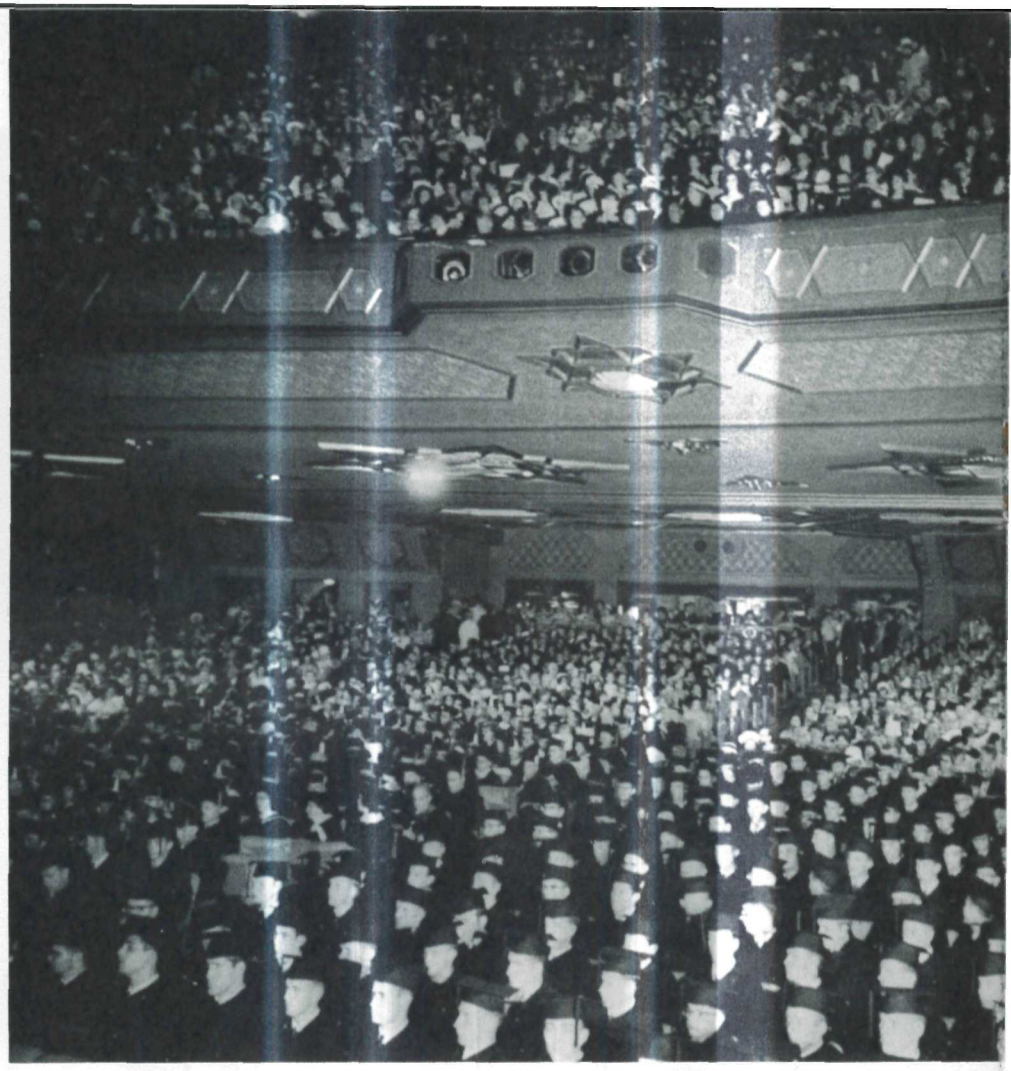
Backstage, the troops from the Registrar's Office get the diplomas into the proper slots to keep the day's ceremony moving (right).

Sentimental Saturday—continued

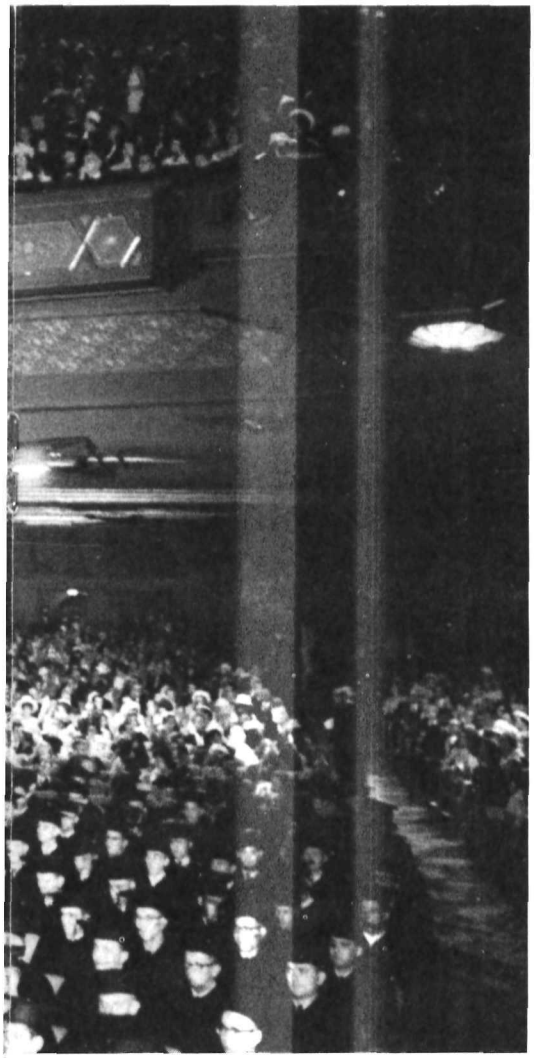
BEHIND THE SCENES, THE PREPARATIONS ARE FRANTIC FOR A BIG MOMENT AHEAD

Upstairs in the gloomy atmosphere of an old ballroom, a student patiently waits (left) for the call for the processional, while others mill around getting gowns on and adjusted and trying to find which line to get into for the march down to the theater.

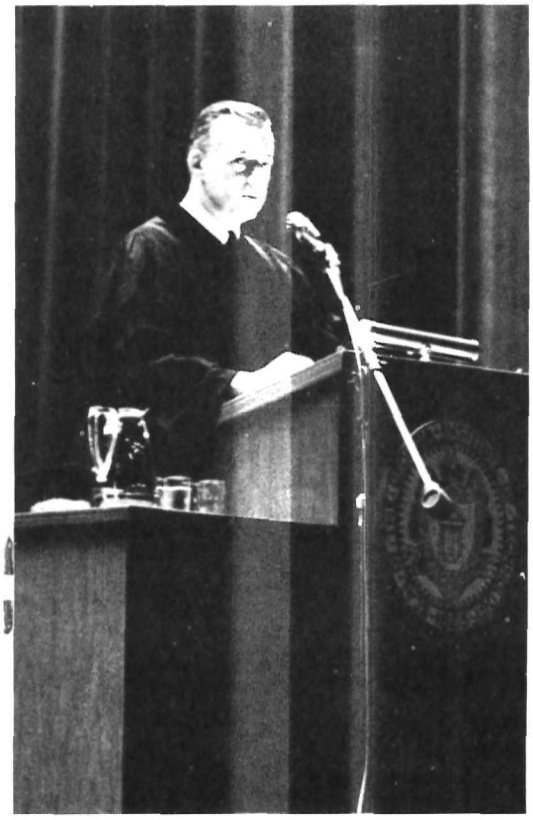
IN THE DARKNESS OF THE FOX, A RITUAL IS STAGED AGAIN FOR THE 82ND TIME



The 1.1 lens of Bill Sumits, Sr. gets the overflow crowd at the Fox without help from flashguns or other lighting. And below, it also catches the almost puppet-show quality of the race across the stage to receive the diplomas that mark a milestone.



President Harrison presents the Alumni Distinguished Service Award to Julian T. Hightower for his "dedication to Georgia Tech."



After speaker David Lewis, AE '39, president of McDonnell Aircraft makes his excellent plea (left) the new graduates are kissed by wives and greeted by fathers in the rainy morning in front of the Fox Theater.

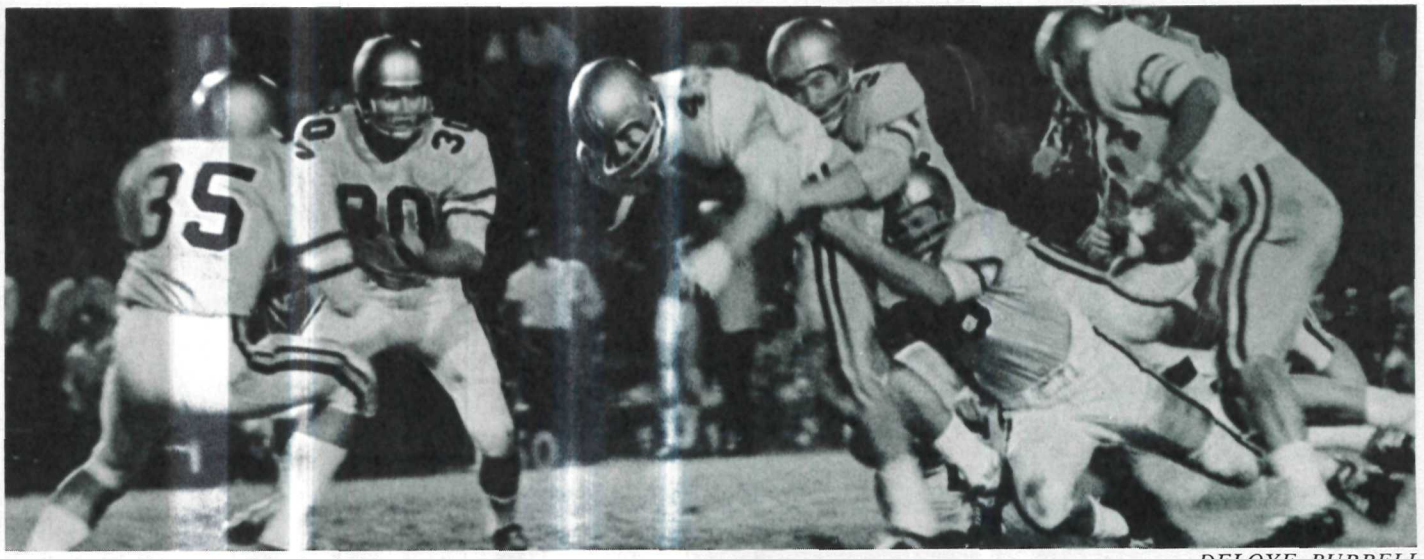
A student, a friend, and a pretty girl discuss a pose while a frustrated photographer waits (above) and a coed graduate has her hair pushed into place by her daughter while awaiting her picture on the campus.

AFTER THE LONG CEREMONY THE TIME COMES FOR THE TRADITIONAL PICTURE-TAKING AND THE ALUMNI LUNCHEON

Another graduate has his officer's bars pinned on by his mother (left) and then the entire class along with their families move on to recently renovated Brittain Dining Hall for lunch on the Tech Alumni Association.

A CEREMONY THAT IS UNIQUELY TECH CLOSES OUT THE LONG DAY'S JOURNEY INTO LIFE

Back in the late forties, Dean George Griffin began a ceremony that has become as much a part of Tech's commencement as the IBM cards and the short speech. During it, the wives of the Tech students receive their own degrees—the Mistress of Patience in Husband Engineering. This year, Fred Ajax took up the cudgel for the retired Dean of Students and with the help of senior class president, Johnny Gresham, passed out 325 of these special degrees to wives of the graduates. It was a well-done, light-hearted ending to a day packed with weighty thoughts and poignant partings.



Fullback Carlisle gets eight for Whites.

DELOYE BURRELL

GOLDS EDGE WHITES, 21-14, IN ANNUAL T GAME

THE TECH spring practice sessions—most disappointing in over five years according to head coach Robert Lee Dodd — ended on a high note as the Gold team led by quarterback Kim King and tailback Lenny Snow defeated the Whites, 21-14. The game was a thriller right down to the wire mainly because of a Dodd-instituted rule-for-a-night that the team trailing would always have the option of kicking or receiving.

A crowd of over 15,000 (and there were more tickets sold to this one than any "T-night" game in history) were relatively silent during a dull first quarter, but picked up the applause when the two teams finally got going to score once each in both the second and final quarters with the winning score by the Golds coming in the third period.

The Whites got out in front on a 75-yard drive that began late in the first quarter and consumed five minutes and 11 plays. With ten seconds left on the first-period clock sophomore quarterback Good completed the first pass of the game for either team to Craig Baynham to get things started. After five running plays picked up 26 yards, Good again hit wingback Baynham, this time for 29 yards and the Whites had arrived at the Golds' five. On third down, Good hit Giles Smith in the flats and the junior tailback scampered in for the score. Larry Davidson added the point and with 10:35 remaining in the half, it was 7-0, Whites.

The Golds came right back with a 79-yard drive of their own that ended in disaster when Lenny Snow, the best running back on the field, fumbled on the Whites' one. Snow and fellow sophomore Kim King were the prime movers in this move. But the Whites couldn't move out of their own backyard and got off a punt of only 21 yards to give the Golds field position again. Compounding the felony was a 15 yard penalty on the punting play which put the Golds at the 12. In five plays, Snow picked up the one yard from the place where he had dropped it minutes before and put six points on the board. Tommy Carmichael added the point and with 1:26 in the half it was all tied up at 7-7.

Late in the third quarter, the Golds mounted their longest drive of the night, a 78-yard one that again featured King and Snow with King getting the key play in on a 59-yard pass to split end Tommy Elliott which placed the Golds on the Whites' five. Snow got three yards through the middle, Ed Varner was held for no gain, King got a yard on a keeper and Varner went in on fourth down for the score that made it 13-7 with 2:24 on the third-quarter clock. Again Carmichael added the point and the Golds were in front to stay.

On the first play from scrimmage, the Golds got it back on Sammy Burke's interception and fine runback which put them at the Whites' 25. But on fourth-and-one Carmichael missed a 37-yard field goal attempt. The next time they got the ball, King, Snow, and company drove 32 yards for another score. This one again was set up by a short punt which was the order of the night for both teams. The only thing you could say about the punting game on this night is that nobody ran back one for either side. King stayed on the ground on this drive and scored himself from three yards out on third down. Carmichael was true and with 10:06 remaining in the game it was 21-7.

Backed up on their own nine, the Whites calmly mounted a 91-yard drive with Good's passing, and Smith's and

T-NIGHT—Cont.

Baynham's running eating up most of the yardage to the Golds' 36. Here sophomore Charles Mason came in at quarterback and on first down threw to Mike Fortier who made one of his patented, spectacular catches for the score. Davidson added the final point. With 2:12 still on the clock and the Dodd rule in effect, the Whites had one more chance to pull it out. After the kickoff, Mason hit Smith for 19 to the White 41, but two incomplete passes and a long loss ended it and with a minute left the Gold team got the ball back.

The two-platoon system and the new flip-flop I formation combined to make these two Tech teams look considerably different than any of the past 13 years. Even the position designations will change this year. The backs will be known as quarterback, wingback, tailback, and fullback. And to simplify things, Dodd has installed a numbering system that will make all of the defensive ends wear the nineties, the offensive ends the eighties, the tailbacks the low forties, the fullbacks the high forties, the wingbacks the twenties, the defensive backs the thirties (except Tom Bleick who on the basis of tonight's showing is the best defensive back at Tech in years and he wants to stay with his number 10) and the rest will wear the same numbers as last year. The two-platoon rules are excellent according to Dodd. They eliminate the specialized teams for kicking off and punt returns, etc., yet they allow you to go back to the system he had his best seasons with. "It means that we can play the kind of football we play best," he says, "and yet not have to carry a traveling squad much bigger than we carried during the past 13 years." The new rules speeded up the game and the only time outs were for clock-stopping purposes.

Wherever the Jackets play, night or day, *Yellow Jacket Confidential* is there to report the action to its readers. If you want the inside on Tech football each week during the season plus a spring and fall preview of the Jacket squad, *Yellow Jacket Confidential* is for you.

The only sportswriter to cover every Tech game during the season is Bob Wallace, now in his third year with the 16-year-old publication devoted to the complete coverage of Tech football. Last season, over 30 of the Nation's top sports columnists used *Yellow Jacket Confidential* as material for columns on Tech football. You can get the complete story on the Jackets by filling in the order blank, now, to receive the new pre-season letter in mid-September. Make your check payable to *Yellow Jacket Confidential.*

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GEORGIA TECH Journal

A digest of information about Georgia Tech and its alumni

A new series of grants announced

GEORGIA TECH has just received a $34,650 matching grant from the National Science Foundation to completely renovate the ground floor of the Engineering Mechanics Building.

Approximately 6,900 square feet will be rebuilt into modern office space, laboratories and seminar rooms, according to Dr. Milton Raville, director of the School of Engineering Mechanics. He says the additional space will be important in expanding research and graduate education. Three years ago there were only four graduate students in engineering mechanics—today there are 35 and facilities are badly crowded.

The renovation will begin soon and should be completed by September, in time for the 1965-66 school year. The building was constructed in 1938 by the U.S. Public Works Administration and was then known as the John Saylor Coon Building.

Tech has also received a $14,900 grant from the National Science Foundation to support research by Dr. John B. Peatman, assistant professor of Electrical Engineering, on "Time-Oriented Digital Systems Design."

The focus of this research will be to develop digital techniques and devices that use less computer hardware but will extend the time necessary for calculations. In calculations where time is not an urgent factor, such techniques will be useful because of savings in equipments costs.

Another grant of $28,000 from the NSF will enable Dr. John R. Dyer, associate professor of chemistry, to continue studying the "Structure and Synthesis of Streptomycin." Streptomycin is the antibiotic used in treating tuberculosis and also leprosy, tularemia, typhoid fever and brucellosis.

Dr. Neil Wade, assistant professor of civil engineering, will use a $15,000 grant from the NSF, plus Georgia Tech funds, to study with laboratory models what happens in nature when a cube of soil is subjected to perpendicular stresses on three sides as is the case when a large building or a dam is built. Knowledge of the reaction of soils to stresses is important to engineers in planning large structures.

The Alcoa Foundation, Pittsburgh, Pennsylvania, has given to Georgia Tech two grants totaling $7,125.

One grant in the amount of $4,000 will be used to supplement the salaries of teachers, and the other grant will be used for scholarships for undergraduate students in engineering.

With a $16,700 grant from the W. K. Kellogg Foundation, the Hospitals Systems Research Group at Georgia Tech will train middle-management personnel of Atlanta area hospitals in the tools and techniques of industrial engineering in order to improve hospital management, patient care, and reduce costs.

The Tech Hospitals Systems Research Group led by Dr. Harold Smalley has conducted research on improving hospital efficiency and patient care for several years with funds from the National Institutes of Health.

A Tech professor will evaluate the four-way stop intersection in terms of traffic flow with a $15,000 grant from the National Science Foundation. The value of the four-way stop is currently a matter of controversy. Dr. Paul Wright's findings should give, for the first time, a factual basis on which traffic engineers can base their decisions on whether to use this device or not.

After collecting data from three or more field studies with special recorders and time-lapse photography, Wright, an assistant professor of civil engineering, plans to simulate thousands of hours of traffic flow at varying traffic volumes on a digital computer.

Industrial extension service expands

EXPANSION of the industrial extension service of Georgia Tech's Industrial Development Division will result from a $107,000 contract with the Area Redevelopment Administration. Cooperating with ARA and the Department of Industry & Trade, IDD will provide market research, management guidance and technical assistance to existing industry in 16 counties.

The fifth branch office of Georgia Tech's Industrial Development Division was opened last month at Brunswick to support the development efforts of Brunswick and of Glynn and Camden counties. The office is under the direction of Monte W. Korb, former Thiokol Chemical Corp. engineer and 1950 honor graduate of Georgia Tech with a B.S.M.E.

Leadership award winner named

DAVID EUGENE EVANS, sophomore in Mechanical Engineering, is the recipient of the first Scott Paper Company Foundation Award for Leadership at Tech.

Tech is now one of 25 colleges and universities where the awards are given to students with leadership potential in order to encourage them in their scholarship, extra-curricular activities and athletics. Leadership potential is also combined with a definite interest for a career in commerce or industry.

According to the Foundation's Trustees, the "all-around image of the ideal recipient is considered analogous to that of the 'Rhodes Scholar'."

At Tech the award will be made annually to a promising student in the School of Mechanical Engineering. The student will receive $1,000 a year for two years. In addition, the School of Mechanical Engineering will receive $1,000 a year to be used in the general advancement of academic programs. Recipients are chosen by a faculty-student committee.

This year's winner has a very high academic average, has served as social chairman of his fraternity, Phi Sigma Kappa, and is a member of Phi Eta Sigma, freshman scholarship honorary fraternity. He is a co-op student and works with NASA in Houston winter and summer quarters.

Tech professor receives AIIE award

CECIL G. JOHNSON has been presented the Distinguished Service Award of the American Institute of Industrial Engineers. Johnson is associate professor of Industrial Engineering at Tech and has served as

Genus Academicus

PERUSE any graduate school catalogue, read carefully the finest of the fine type and see if anywhere, yes anywhere, there is a single notation that as much as one five-hour (or for that matter, a single one-hour) course in dramatics, in comedy routines, or even *Story Telling 007* is required or even suggested for "satisfactory completion of requirements for a graduate degree." Be assured that no such requirement is listed anywhere in the bulletin, and no professional advisor or graduate dean, although knowing a particular student is planning a career in the academic profession, will ever mention that it might be a wise decision to take such a course.

Nevertheless, somewhere in the graduate student's second or third year, as he is slowly grinding himself to the jewel-like quality of the Ph.D., he is asked "if he would like" to teach a freshman introductory course. He is hungry and so he accepts although he knows this will most likely keep him from finishing his dissertation as soon as he had hoped to.

Thus he comes to face his first eight o'clock class, and the trauma of that hour and the hours that follow throughout the quarter can hardly be described. He spends vast amounts of time preparing his lectures, far more time than a seasoned campaigner, and yet, he hardly penetrates the dense resistance of those tired, bored faces in front of him. His softly chalk-dusted dream of an academic career is all but shattered.

There may have been a time when students would listen with interest to a straightforward, factual-if-dry lecture, but that day is no more, if it ever was. Maybe this is because of the modern tendency of ministers to give too many joke-sparkling sermons or due to TV's attempts to produce a steady diet of entertainment, 18 hours a day, seven days a week. In any case, it is a fact that a professor today needs a good comedy routine or a flair for the dramatic.

Sure he has to pass two foreign language reading exams for his Ph.D., but if he tries to spice his lectures with a little French, German or Russian his students assume even more baleful expressions.

And most will show just as little interest in the fact that he writes well on encapsulated heaters for microwave tubes or that he is an expert on tracking high velocity subjects or in micro-miniature bonding. Neither will the average undergraduate probably be fascinated to know that his professor is handy with hybrid computer techniques, a thermocouple welder, a retort furnace or a triode ion pump—or that he is cognizant of automatic decade switching.

We should not neglect to note, however, that individuals do exist who can walk into a classroom for the first time with a fully developed, entertaining, style of their own. For them there is never any problem. And there are others so pleased with the magnificent and lucid comments they hear themselves saying, that they are never aware that there could possibly be any problem of communication with the students. But for most of the neophyte professors, there is torment, or at least a definite feeling of discomfort.

The amazing fact remains that some young men and women *do* enter college teaching—proof that under the crossfire of classrooms, more lectern hams are still being born.

M.V.L.

THE INSTITUTE—continued

editor-in-chief of the *Journal of Industrial Engineering*.

The award was presented at a recent meeting of the AIIE in Chicago where Johnson was cited for his work as editor-in-chief of the Journal, as well as for his participation in teaching short courses on a local, regional, and national scale, and for his research and teaching at Georgia Tech.

Johnson received his BSGE, BIE, and MSIE degrees from Georgia Tech. He is a member of Kappa Sigma social fraternity and Sigma Xi, honorary science fraternity.

Swimming pool chlorinator developed

SURE TO make a big splash with the swimming pool set this summer, as they say in the fashion pages, is a new chlorinator that automates the chlorinating process.

The chlorinator was developed over the past two years by Tech professors Dr. Robert S. Ingols and Dr. Marion Carstens in cooperation with an Atlanta manufacturer. Dr. Ingols is professor of Applied Biology and Dr. Carstens, professor of Civil Engineering.

All plastic and so non-corrosive, the chlorinator is connected with a pool's pumping system, Ingols explains. It can be easily installed in either new or old equipment and provides continuous water treatment, even when pool owners are away on vacation for up to two weeks. It is about 25 inches high and 8 inches in diameter.

Water under pressure feeds jets within the chlorinator that erode a solid stick of chlorine compound at a controlled rate so that one stick lasts about two to four days. Three sticks can be inserted in the chlorinator at a time. The stick is about five inches long and has the white color and smooth texture of a mothball. The chlorine compound used in it was especially developed by a large chemical company in cooperation with the Tech project. Unlike compounds currently being used in swimming pools, it is not decomposed by sunlight, and it is also an algacide and pH controller.

According to Dr. Ingols, other chemicals could be used in stick form for applications of the basic chlorinator mechanism in any circulating water system—for treating water in industrial air conditioning systems or other processes like bleaching in textile mills.

The Clubs

ALBANY, GEORGIA—Athletic Business Manager Bob Eskew and Alumni Secretary Roane Beard were the guest speakers at the March 10 meeting of the Albany Georgia Tech Club. Lamar Reese, Jr., president of the club, presided. Jerry James reported on the scholarship boys now at Tech and urged

members to continue supporting the scholarship program for the '65-'66 year.

President Reese appointed a nominating committee to present a slate at the next meeting. The committee consisted of R. M. Marbury, Jr., chairman, W. M. Dorsey, and R. V. Richard.

ATLANTA, GEORGIA—The Greater Atlanta Georgia Tech Club held its annual spring meeting on April 28. Over 220 Tech men turned out for a talk by Coach Bobby Dodd and the induction of eight Tech athletic greats into the Georgia Tech Athletic Hall of Fame. President Allen Hardin presided over the meeting at which Dean Emeritus George Griffin inducted the following Tech men into the Hall of Fame: Walker "Big Six" Carpenter (deceased), football; Fred Lanoue (deceased), swimming coach; John Staton, George Gardner, and Maxie Baughan, football; Howard McCall, tennis; Ray "Bud" Blemker, basketball; and W. D. "Sunshine" Thompson, baseball.

BIRMINGHAM, ALABAMA—Over 110 Tech followers including 12 special guests turned out to hear President Edwin D. Harrison at the May 10 meeting of the Birmingham Georgia Tech Club. Among the special guests were President Howard M. Phillips of Birmingham Southern College and Robert B. Kimmel, assistant registrar at Tech. Frank Newton, vice president for Alabama Southern Bell and a member of the Alumni Association's Board of Trustees, introduced Dr. Harrison who spoke on the immediate and future plans for Georgia Tech.

During the business session, President Charlie Person called on Mack Gibbs for the treasurer's report, Walter Coxe for the invocation, and Jimmy Collins to lead in the singing. Nine high school seniors from the Birmingham area who were candidates for the Club's scholarship were also introduced to the crowd.

CHATTANOOGA, TENNESSEE—There were 55 alumni and wives on hand on April 23 to hear Joe Guthridge, Director of Development and Assistant to the President at Tech, and Tom Hall of the National Alumni Association, talk about the role of Tech alumni in providing valuable support to the institutional planning of growth and development. Meeting at the Lake Shore Lodge, the group reviewed its annual business and made plans to attend the Tech-Tennessee game as a group.

CHICAGO, ILLINOIS—Chicago Alumni Club had a successful stag reactivation meeting on April 7, at the Builder's Club. Those attending heard Tom Hall, of the National Alumni Association, discuss the future growth of the campus. Tom highlighted his talk with slides and later highlights film of the 1964 football season. Club officers elected were M. G. (Marv) Mitchell, president; Robert E. Leckrone, vice president; William F. Moss, treasurer; and William A. (Al) Walters, secretary. The secretary's address is W. A. Walters, Suite 2010, 228 North LaSalle, Chicago 1, Illinois. Those in the Chicago area should write Al Walters to find out about the next meeting.

DALLAS, TEXAS—The North Texas Georgia Tech Club held a reorganizational meeting in February and elected officers for the year. They include Charlie McGill, president; Jack Boucher, vice president; and Bob McPhail, secretary-treasurer. On May 21, the club held its first regular meeting with Roane Beard, alumni secretary, as the featured speaker. Beard brought the members up to date on activities on the campus with special attention to the new plans for expansion.

GREENVILLE, SOUTH CAROLINA—The Western Carolinas Georgia Tech Club met on April 26 in Greenville. One hundred thirty Tech men and their ladies were on hand to hear a fine talk by Athletic Director Bobby Dodd. President King Rouse discussed the Club's annual scholarship for a co-op student. He also announced plans for the club to assist in the local Soap Box Derby and give a trophy for the best engineered racer.

HOUSTON, TEXAS—President Edwin D. Harrison was principal speaker at the spring meeting of the South Texas Georgia Tech Club on Thursday, May 13. Dr. Harrison was accompanied by J. R. Anthony, Georgia Tech Controller. One hundred thirty alumni were present for the meeting. Officers elected for the ensuing year were Jim M. Morris, president; Gavin P. Parrish, vice president; Wallace Knight, treasurer; and Mimms I. Cleveland, secretary.

Michael Knox Bosworth, 6630 Heron, Houston 17, Texas was selected as the 1965 freshman scholarship winner. He will enter Tech in the fall as a cooperative student.

Edward W. DeJon, '42, was chosen "Alumnus of the Year in South Texas."

NEW YORK, NEW YORK—A. M. "Tonto" Coleman, assistant athletic director at Tech, was the main speaker at the May 13 meeting of the Georgia Tech Club of New York. Others on the program presided over by President Bill Stein included Weeb Eubank, coach of the New York Jets; Bob Wolfe, nationally-known sportscaster; and Tech alumnus Sam Brock of Chas. Pfizer Company.

News of the Alumni by Classes

'04 *Frank R. Maddox,* ChE, of Rome, Georgia, died March 10, 1965.

'09 *Benjamin Pope Franklin,* ME, died March 31. He was associated with the Citrus Machinery & Manufacturing Company prior to his retirement in 1962. His widow lives at 707 Harwood Avenue, Orlando, Florida.

'13 *C. Stewart Colley* died April 17 after a brief illness. His widow lives in Grantville, Georgia.

'16 *Thomas F. Tisinger,* Atlanta, Georgia, died April 9.

'20 *Lawrence R. Brumby,* Macon, Georgia, died in June, 1964.

'21 *John W. Childs,* EE, died July 11, 1964. His widow lives at 11633 Highland View, Los Altos, California.

Dwight Harrington Wilson, Jr., St. Augustine, Florida, died April 3.

'23 *Frank J. McKibben,* Atlanta, Georgia, died March 31.

'24 *C. T. Brasfield, Jr.,* EE, manager of employee relations with Alabama Power Company, has been elected a vice president of the company. He lives at 3416 East Briarcliff Road, Birmingham, Alabama.

Frederic E. Conklin, Jr., CE, died March 28 in Miami, Florida.

Daniel J. Gore, veteran Public Works Commission official, died in May after a brief illness. His widow lives at 2220 Westhaven Drive, Fayetteville, North Carolina.

'27 *Enos S. Hartman,* manufacturers agent, died April 21. He is survived by his widow and daughter.

'32 *Fred Emerson Brown* died February 28 after a brief illness. He was a design engineer of transmission sub-stations for Georgia Power Company. He is survived by his widow, of College Park, Georgia, and two sons.

'34 *Howard B. Johnson,* Com, has been named Chairman of the Board of Atlantic Steel Company, Atlanta, Georgia. He joined the company in 1933 and served in various capacities. He has been president since 1956.

'37 *Colonel Samuel G. Young,* USAF, CE, has been awarded the Joint Service Commendation Medal for Meritorious service during the period June 1961 to June 1964 as Intrastructure Staff Engineer, Logistic Operations Branch, J-4 Division, Headquarters, U.S. European Command. He is now stationed at the Pentagon, Washington, D.C.

'40 *Marcy B. Fannon,* ME, has joined the Planning Department of Eastern Airlines as Director, New Aircraft Planning. He is in the executive offices in New York.

Harwell Huggins, CE, has been elected a vice president of Beers Construction Company, Atlanta, Georgia.

Faces in the News

Jorge L. Divino, '34, has received a Teaching Excellence Award at the University of Texas. Divino has been teaching at the School of Architecture since 1961. Prior to this date he was a practicing architect and taught at the University of Havana.

Brigadier General Raymond G. Davis, '38, assumed duties as the Assistant Chief of Staff, G-1, Marine Corps Manpower Coordinator, at Headquarters, Marine Corps, Washington, D. C., on April 1. He is winner of the Medal of Honor in Korea.

Benjamin F. Gerding, '38, has been appointed General Manager, Operations, of Drexel Dynamics Corporation, Horsham, Pennsylvania. He will have overall responsibility of all Drexel's manufacturing and related operations. He was affiliated with Management Services Associates.

R. Earl Chandler, '39, chairman of the board and chief executive officer of Standard Packaging Corp., New York, has been voted a 1965 "Horatio Alger" award by campus leaders of 500 universities and colleges. He is a member of Tech's Alumni National Advisory Board.

John J. Blank, '43, has joined the Denver-based Technical Service Co. as a professional engineer and will head the mechanical department. The company is a consulting engineering firm offering services in operations and facility planning for industry.

Edward E. David, Jr., '45, has been promoted to Executive Director, Research, Communications Systems Division at Bell Telephone Laboratories, New York. In 1958, Mr. David received Tech's George W. McCarty Award as outstanding young alumnus of the year.

NEWS BY CLASSES—cont'd

'41 *John J. Woodside, III,* president of Woodside Storage Company, Inc., Atlanta, Georgia, has been elected vice president of the southern division of the National Furniture Warehousemen's Association.

'42 *James P. Poole* has been elected second vice president of the Association for Advanced Life Underwriters. He is with Guardian Life and is President of Estate and Pension Planning Company, Atlanta, Georgia.

'43 *Sam N. Hodges,* CE, has been elected a vice president of Beers Construction Company, Atlanta, Georgia.

'45 *Jack E. Bolt,* ME, has been appointed general manager of Empire Coke Company, Birmingham, Alabama.

Lawrence Gellerstedt, Jr., ChE, has been elected president of the Georgia Branch, Associated General Contractors of America, Inc. He is President of Beers Construction Company, Atlanta, Georgia.

'46 *Jerome B. Nowak* has been elected president of Kingsberry Homes Corporation, Chamblee, Georgia.

'47 *John V. Manning,* EE, is now assistant vice president-marketing, at Southern Bell. He lives at 4268 Dykes Drive, N.W., Atlanta, Georgia.

'48 *Duncan B. Cutler,* EE, has been promoted from production manager to vice president in charge of manufacturing by the Woodman Company, Inc., Decatur, Georgia.

Henri Doriot, ChE, died in March of a heart attack. He was plant manager of the viscose rayon plant of Beaunit Corporation. His widow, 3 sons and daughter live at 309 Paty Place, Elizabethton, Tennessee.

J. D. Simmons, IM, has been transferred from Amarillo by Humble Oil to Lafayette, Louisiana where he will be district production superintendent.

Arthur R. Smith, Arch, has announced the formation of his firm for the practice of architecture. His business address is 906 Williams Street, Valdosta, Georgia.

'49 *Philip I. Emmer,* CE, President of Lincoln Estates, Inc., Gainesville, Florida, has received the first Richard G. Hughes Award for significant contribution toward low-income housing. He is making excellent progress in making home ownership possible for the low income families.

Ferrin Y. Mathews has been named first assistant city attorney on the staff of the Atlanta, Georgia City Attorney.

'50 *Samuel G. Green,* ME, is now General Commercial Supervisor with the Chesapeake & Potomac Telephone Company, 930 H Street, N.W., Washington, D.C.

Captain Terrell E. Horne, USAF, is attending the Air Command and Staff College, Maxwell AFB, Alabama.

'51 *Jerome V. Bennett,* TE, has been promoted to manager-special projects with Riegal Paper Corporation, Milford, New Jersey.

Major Lloyd E. Daniels, USAF, AE, is with the Air Force Systems and Space Command at Los Angeles, California. He is a member of the team working on the Titan III program.

Rex W. LeFevre, IM, has been promoted from sales manager with Tull Industrial Supply and Equipment Company in Atlanta to vice president and general sales manager.

'52 *D. L. Franklet,* ChE, has been transferred by Shell Oil to the New York Service Center as Supervisor, Technical Systems.

Dr. William B. Houston, Jr., EE, has been promoted to associate professor of math at Antioch College, Yellow Springs, Ohio.

Thomas G. Kudro, ChE, has been transferred by Union Carbide to their Whiting, Indiana plant where he will be in charge of polyethylene finishing operations.

Born to: *Mr. and Mrs. Jack Sadow,* TE, a daughter, Donna Hope, April 16. They live at 9379 Cedar Lane, Des Plaines, Illinois.

'53 *Howard C. Bennett,* CE, is now assistant director of Cartography and Graphics for the Boston Redevelopment Authority. He lives at 274 Shute Street, Apartment 42, Everett, Massachusetts.

R. R. Leveille, CE, has been transferred to Shell Oil Company's Odessa Refinery, Odessa, Texas, as a senior engineer-maintenance.

Born to: *Mr. and Mrs. Joel T. Severinghaus,* IM, a son, Robert Nelson, February 23. Mr. Severinghaus is with the Long Lines Department, American T & T, as District Plant Superintendent. They live at 2059 Cambridge Road, Springfield, Illinois.

'54 *Captain Thomas L. Debnan, Jr.,* USAF, is attending the Air Command and Staff College at Maxwell AFB, Alabama.

Elmer L. Field, IE, of Huntsville, Alabama, has been awarded a Sloan Fellowship. He will attend MIT during the 1965-66 academic year.

Captain Charles W. Groover, USAF, is attending the Air Command and Staff College at Maxwell AFB, Alabama.

'55 Born to: *Mr. and Mrs. Phil Rector,* ME, a son, Bradley Phillip, April 20. Phil is acting director of the Physical Plant Department at Georgia Tech.

James F. Rutledge, ChE, has been promoted to project chemical engineer with Texaco at Port Arthur, Texas.

'56 *Charles O'Rear,* an instructor of biology at East Carolina College, has been awarded a teaching fellowship in zo-

METAL MASTERS

Why do metals get "tired" under stress? Questions like that are the daily province of these General Motors metallurgists. They are working here with a 600-ton press capable of exerting 2,000,000 pounds of pressure per square inch at temperatures as high as 7,000 degrees Fahrenheit. Under such conditions, metals behave in peculiar ways. Crystal structure and electrical properties change. Strange chemical reactions occur. New materials form.

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Faces in the News

Carl Summers, Jr., '47, has been named head of the Mechanical Department of Research Division, West Point Manufacturing Company, in Shawmut, Alabama. He is a registered professional engineer and is a member of the Alabama Society of Professional Engineers.

Buck Mickel, '48, was elected President of Daniel Construction Company, Inc., Greenville, S.C., in January of this year. He is also General Manager for the company. In March, he received the Distinguished Service Award by the Elbert County Chamber of Commerce.

Willie G. Putnam, '49, has been honored by the Engineering Department of the U.S. Army Materiel Command's Engineer Research and Development Laboratories, Fort Belvoir, Va., by being chosen as its nominee for the annual Commanding Officer's Medal for Leadership.

A. M. Alexander, '52, Tampa branch manager for H. H. Robertson Company, won the firm's Outstanding Salesman Award for 1964. The award is based on overall performance for the year. He has been with the company since 1954.

Karl T. Decker, Jr., '53, has been elected as Vice President of the firm of Chastain and Tindel, Inc., Consulting Engineers, Atlanta. Among several titles Mr. Decker holds is registered professional engineer in Georgia. He was previously an associate of the firm.

John F. Moser, Jr., '53, was among twelve Baton Rouge scientists and engineers from the Esso Research Laboratories of Humble Oil & Refining Co. honored for outstanding achievements as inventors. The citations were made at a dinner given by Esso.

NEWS BY CLASSES—cont'd

ology at the University of Georgia. He will begin work on his doctorate this fall.

Dr. Henry H. Sineath, Ch.E., has been named technical director of the film operations for the FMC Corporation, American Viscose Division. His address is 135 Westborn Road, Westtown, Pennsylvania.

Engaged: *Sidney Frank Wheeler,* TE, to Miss Jane Bradley. The wedding will take place July 24. Mr. Wheeler is with the law firm of Gambrell, Harlan, Russell and Moye, Atlanta, Georgia.

Married: *Jack Reuben Wray,* IE, to Miss Judy Darby, June 5. Mr. Wray is with the Coca-Cola Company, Atlanta, Georgia.

'57 *A. Stanford Adams,* Arch, has announced the formation of a partnership under the name of Adams & Pascullis, Architects, with offices at 803 Bankers Building, Macon, Georgia.

Born to: *Mr. and Mrs. Weaver A. Dodge,* EE, a daughter. They live at 8801 Sonya Road, Randallstown, Maryland.

L. A. (Drew) Hearn, EE, was named one of five recipients of "Young Man of the Year" award by the Charlotte, N.C. Junior Chamber of Commerce.

Married: *Captain James P. Henry,* USAF, IM, to Miss Patty Rowland, May 8. Captain Henry is stationed at Mt. Home, Idaho, where he is a Titan I missile instructor.

H. A. McIntosh, ChE, has been promoted to project chemical engineer with Texaco at Port Arthur, Texas.

Captain James A. Tipton, USMAC, ChE, is serving as an advisor to a Vietnamese battalion in Oui Nnon. His address is AD TM #277, USMAC-V, APO, San Francisco, California.

'58 *Elroy Strickland,* IM, is a patent attorney with Westinghouse Electric. He lives at 3403 North Hills Road, Murraysville, Pennsylvania.

'59 *Lt. Ronald M. Bell,* USN, IM, has completed his masters at the University of Michigan. He is now assigned to the U.S. Navy Purchasing Office, London, England.

Douglas M. Duggan, AE, has been named group coordinator of the strength analysis and design programming group of Lockheed, Marietta, Georgia. He lives at 591 Terrace Avenue, NE, Atlanta, Georgia.

William E. Durrett, IM, has been named manager of the area development department, Gulf Power Company, Pensacola, Florida.

Duane L. Hoover, Assistant Cashier of the Federal Reserve Bank of Atlanta, is one of 61 executives from all over the United States and overseas who graduated from the Program for Management Development at the Harvard Graduate School of Business Administration.

Born to: *Captain and Mrs. George P. Turner, Jr.,* USMC, IM, twin sons, Gregory Phillip and Glenn Patrick, April 5. Capt. Turner is stationed at Communications Officers School, Quantico, Virginia. They live at 669 Bayvue Avenue, Apartment 6, Woodbridge, Virginia.

Lt. Arthur W. Vogan, USAF, AE is a member of the Air Force Systems Command team responsible for tailoring a Titan II intercontinental ballistic missile to carry the nation's manned capsule into space. He is at the AFSC Space Systems Division at Los Angeles, California.

'60 *Captain Browning H. Gorrell, Jr.,* USAF, IE, has entered U.S. Air Force pilot training at Reese AFB, Texas.

Born to: *Mr. and Mrs. Thomas L. Carter,* a daughter, Amy Frances, May 6. Mr. Carter is a process engineer with DuPont. They live at 1340 Joni Circle, Chattanooga, Tennessee.

Born to: *Mr. and Mrs. Eugene T. Harrison, III,* EE, a daughter, Dawn Victoria, March 18. Mr. Harrison is with Robins Air Force Base. They live at 2982 Glenrock Drive, Macon, Georgia.

Grey Hodges, Southern Editor of Pulp & Paper magazine, has moved from Atlanta to the magazine's publishing offices at 370 Lexington Avenue, New York 17, New York. He will assume additional duties in the production of the weekly magazine.

Henry Joseph McKinley, Jr., EE, received his masters from Pennsylvania State University in March.

Married: *Richard Allen Moon,* IM, to Miss Frances Josephine Cummins, April 17. Mr. Moon is an assistant technical manager of the Xerox Corporation. They live in Greensboro, North Carolina.

Captain David K. Smith, USA, IM, has been named Aide-de-Camp to the Commanding General, U.S. Army Japan, Camp Zama.

Robert Stovall, Math, is a scientist with the Advanced Studies Group at Lockheed in Marietta, Georgia. He was formerly with North American Aviation in California. He lives at 1145 Edgewater Trail, Sandy Springs, Georgia.

'61 *John D. R. Bowen,* IM, has been transferred by the Medical Supply Company to the home office in Rockford, Illinois where he will be regional sales manager. His home address is 4515 Apple Orchard Lane, Rockford, Illinois.

Lamar Carrer, EE, has returned to Atlanta and formed an electrical contracting firm, Currie-Carver Electric Company, located at 760 West Ashland Avenue, N.E. He lives at 2514 White Oak Street, Decatur.

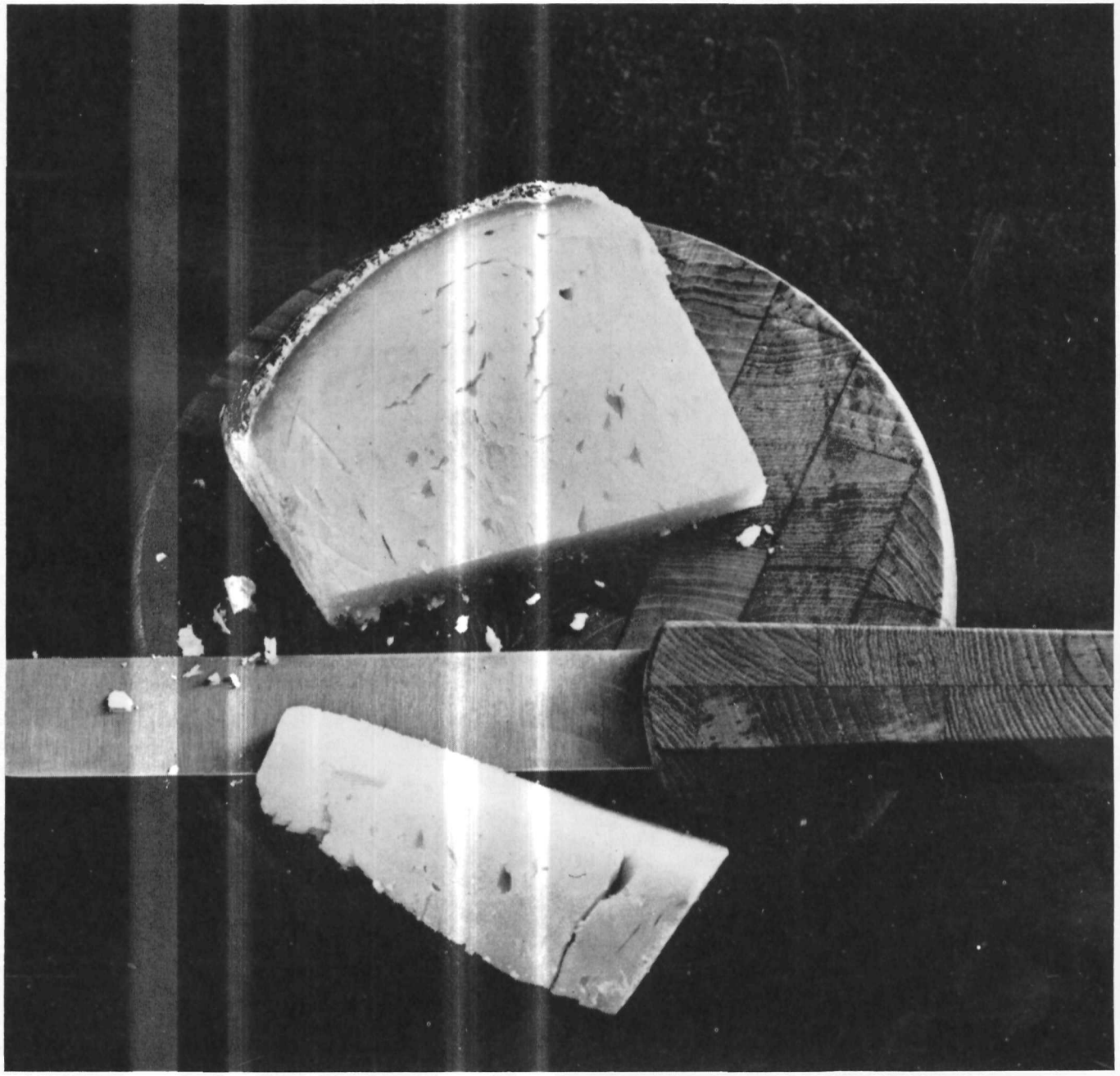
Lt. Frank A. Cook, Jr., USAF, is now stationed at Offutt AFB, Nebraska.

Born to: *Mr. and Mrs. Douglas A. Hartman,* IE, a daughter, Laura Louise, February 26. They live at 97 Cobbs Hill Drive, Rochester, New York.

Frank E. Roper, IE, is now assistant registrar at Georgia Tech. He was formerly an instructor in the School of Industrial Engineering.

William H. Scarborough, IM, has been named salesman for the Daytona Beach area of Shell Oil Company's Jacksonville, Florida district.

Born to: *Mr. and Mrs. Richard E. Sim-*



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UNION CARBIDE

Faces in the News

Jack D. Haynes, '58, has announced the opening of his office at 1033 Healey Building, Atlanta, for the practice of Architecture. Haynes was formerly vice president of Heery and Heery, Inc., architects and engineers of Atlanta and Athens.

Thomas B. Harrell, Jr., '59, has been made an Associate of the firm of Chastain and Tindel, Inc., Consulting Engineers, Atlanta. Harrell is a native of Macon and has been with the concern since earning his Bachelor of Science Degree in Architecture.

Cliff A. Cremeans, '61, was recently promoted to Mechanical Supervisor at the Belle, West Virginia plant of E. I. Du Pont de Nemours & Co. Cliff holds both a bachelor's and master's degree in electrical engineering, and is a registered professional engineer.

Hollis L. Harris, '61, has been promoted by Delta Air Lines from superintendent of Performance & Analysis Engineering to manager, Facilities Construction in the airline's Atlanta general offices. He has been connected with Delta since 1954.

Richard M. Crum, '64, has joined The Trane Company's Mobile, Alabama sales office as a general line sales engineer. Before his assignment, he completed the Trane specialized graduate engineering training program. His degree is in I.E.

Robert R. Rhinehart, '64, is now a dealer specialist in The Trane Company's New Orleans sales office. Before his field assignment, he completed the Trane specialized graduate engineer training program. He earned his degree in electrical engineering.

NEWS BY CLASSES—cont'd

mons, a son, Richard, III, April 15. Mr. Simmons is with Shell Chemical Company. They live at 8411 Glenvalley Drive, Houston, Texas.

David E. Whisnant, Phys, received his doctorate in English at Duke. He is an assistant professor at the University of Illinois. Mr. Whisnant held a Woodrow Wilson Fellowship (1961-62), a Danforth Graduate Fellowship (1961-65), a Duke University Distinguished Fellowship (1963-64), and a Ford Foundation Editorial Internship (1964-65).

'62 *Lt. John A. Carlson,* USN, CE, is attending the U.S. Naval Postgraduate School, Monterey, California in the Ordnance Engineering curriculum. He and his wife live at 830 Sunset Drive, Pacific Grove, California.

Born to: *Mr. and Mrs. J. Gordon Clayton,* ME, identical twin daughters, Lori Lee and Lisa Gay, December 27, 1964. They live at 10922 Conestoga Court, Cincinnati, Ohio.

David L. Federer, CE, will enter West Virginia University in the fall to work on his doctorate in Civil Engineering.

Married: *Lamar A. Long* to Miss Patsy Coursey, November 7. Mr. Long is with Gulf Oil in the process engineering department. They live at 3133 Alamo Avenue, Port Arthur, Texas.

Born to: *Mr. and Mrs. W. William Mullen, Jr.,* EE, a daughter, Elaine Catherine, April 25. They live at 2212 Edgemont Circle, Panama City, Florida.

Born to: *Mr. and Mrs. Antonio Luis Nunez de Villavilencio,* IE, a daughter, Jacqueline, March 15. They live at 37 Carrollwood Drive, Wood River, Illinois.

James E. Rose, IM, has been appointed representative for the consumer products division of Davol Rubber Company, Providence, Rhode Island.

Lt. Dennis E. Rothgaber, USMC, CE, was designated a naval aviator last July and is now an F-8 crusader pilot with Marine All Weather Fighter Squadron 235. His address is VMF (AW) 235, MCAC, Beaufort, South Carolina.

Married: *Russell B. Sorrells, Jr.,* AE, to Miss Lucile Faulkner in June. Mr. Sorrells is a research engineer with NASA at Langley Field, Virginia.

John C. Sutherland, Phys, received a fellowship from Oakridge Institute of Nuclear Studies. He is working on his doctorate at Georgia Tech.

Lt. Thomas M. Turner, USAF, IE, has completed the survival and special training course at Stead AFB and is now assigned to Sewart AFB, Tennessee. He received his pilot wings in February.

'63 *John F. Gee III,* USAF, IM, has been promoted to first lieutenant at Randolph AFB, Texas where he is a management engineering officer.

Engaged: *Bernard A. Knight,* ME, to Miss Barbara Beischer. His address is Cabana Bayfront, Apartment B-12, 1200 Scenic Highway, Pensacola, Florida.

'64 Three 1964 graduates who were fraternity brothers entered different branches of the services and are now all stationed in Germany. They are: *Lt. Frank H. Holland, Jr.,* Ordnance Corps, 4th Ordnance Company, Melsau, Germany; *Lt. W. Van Waters,* Infantry Corps, Company C, 2nd Bn., 87th Infantry Division, Mannheim, Germany; *Lt. James H. Topple,* Signal Corps, Company C, 504th Signal Bn., Mannheim, Germany.

Married: *Bruce Wayne Bartlett* to Miss Kaaren Pitman, May 7. Mr. Bartlett is with the Trust Company of Georgia, Atlanta, Georgia.

Engaged: *David Julian Bueker* to Miss Panelope Marilynne Marion Clark. The wedding will take place September 17. Mr. Bueker is attending graduate school at Georgia Tech.

Born to: *Mr. and Mrs. W. V. Fox,* IM, a daughter, Susan Elizabeth, March 12. Mr. Fox is with Kaiser Aluminum. They live at 2840 Villa Circle, Decatur, Georgia.

Engaged: *Robert Leonard Hall,* IM, to Miss Charlene Johnston. The wedding will take place August 28. Mr. Hall is attending graduate school at Tulane.

Lt. Peter G. Hitt, USA, has completed the signal officer orientation course at the Southeastern Signal School, Fort Gordon, Georgia.

Lt. Frank E. Myers, Jr., USA, has completed the officer orientation course at the Army Southeastern School, Fort Gordon, Georgia.

Lt. Col. Stanley E. Reinhart, Jr., USA, EE, has been named Permanent Associate Professor, Department of Electricity at West Point. He is currently working on his doctorate at Georgia Tech.

Married: *Forrest Durand Smith* to Miss Judy Johnston May 1 in Atlanta, Georgia.

Born to: *Mr. and Mrs. Robert S. Sullivan,* BC, a son, Robert, II, April 16. Mr. Sullivan is with McDonough Construction Company. They live at 722 East 53rd Street, Savannah, Georgia.

Engaged: *Henry Grady Thrasher, III,* to Miss Lee Burton. The wedding will take place July 10 in Atlanta, Georgia.

Born to: *Mr. and Mrs. Kenneth F. Walend,* a daughter, Renee Frances, March 27. Mr. Walend is with DuPont. They live at 303 Batson Road, Brevard, North Carolina.

Lt. Jimmie E. Wray, USAF, IM, has been awarded the U.S. Air Force silver pilot wings upon graduation from flying school at Reese AFB, Texas, and is now assigned to Eglin AFB, Florida.

'65 Married: *Raymond John Donohue* to Miss Sharon Adams in June. Mr. Donohue is with Continental Can Corporation, Atlanta, Georgia.

Married: *Charles Dudley Menser* to Miss Virginia Petkas in June.

Cosme Ottati, IE, has been elected as a delegate to the 9th Williamsburg Assembly. His address is 236 12th Street, Atlanta 9, Georgia.

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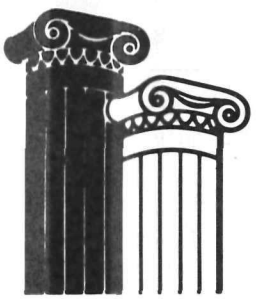

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