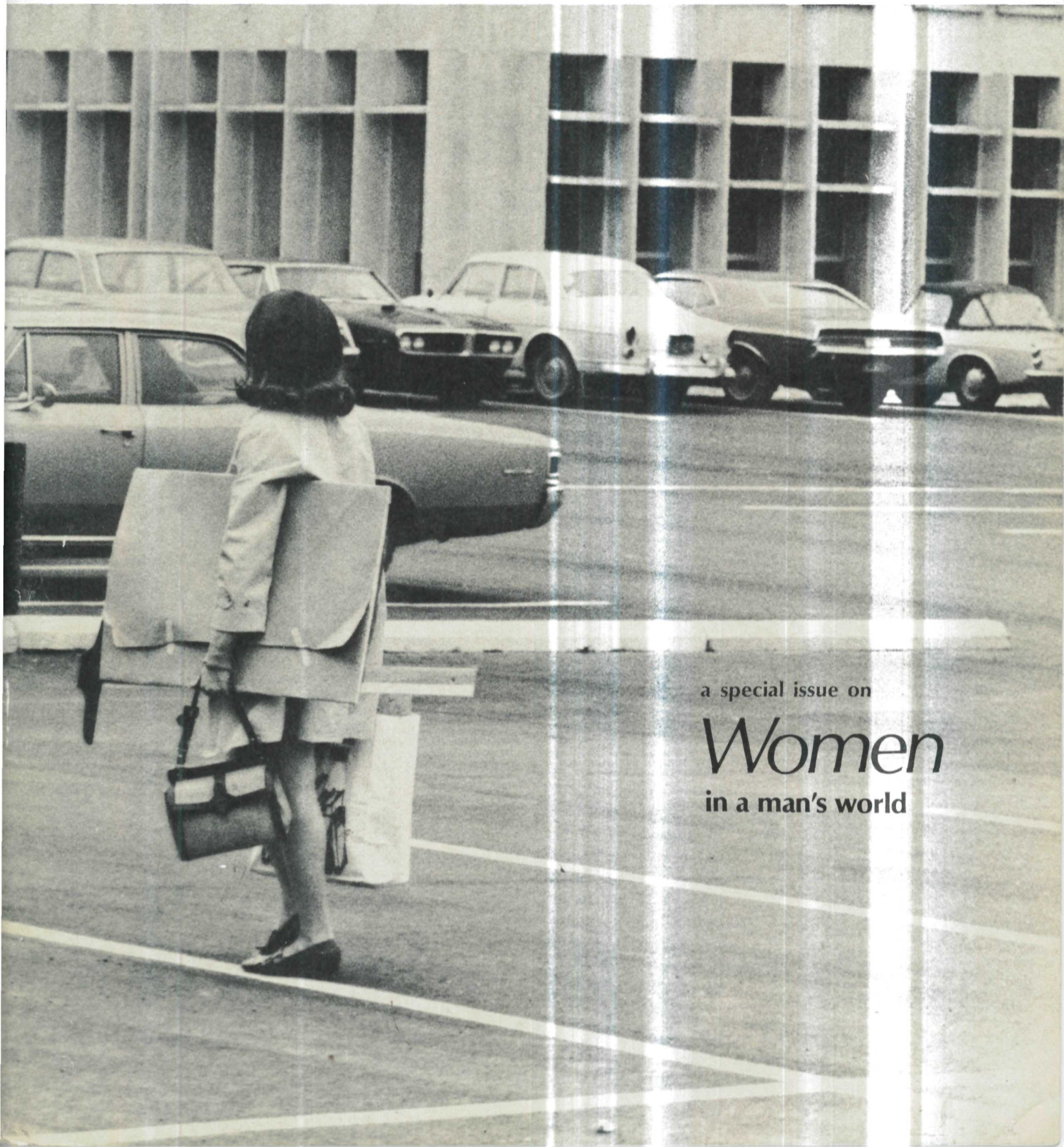


# Georgia Tech Alumnus

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January-February, 1970



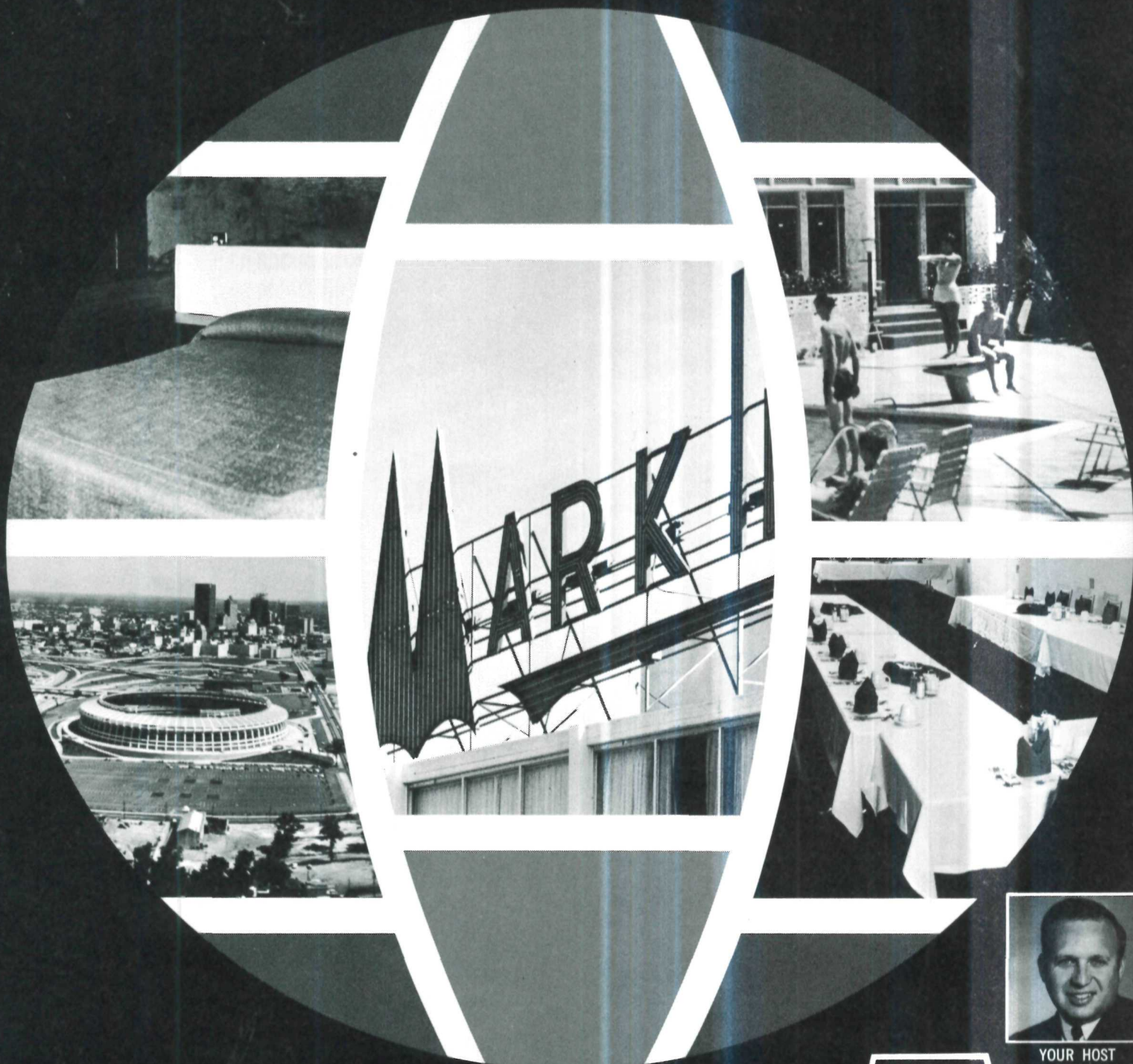
a special issue on

*Women*

in a man's world



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The cover photograph by sophomore Mark Horton reflects two facets of the life of a woman student on the Tech campus today—the fact that she has been able to adjust easily to the male tempo of the place and her own loneliness as she walks the campus. To find out more about the women who currently inhabit the campus, please turn to page 6.

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# Ramblin'

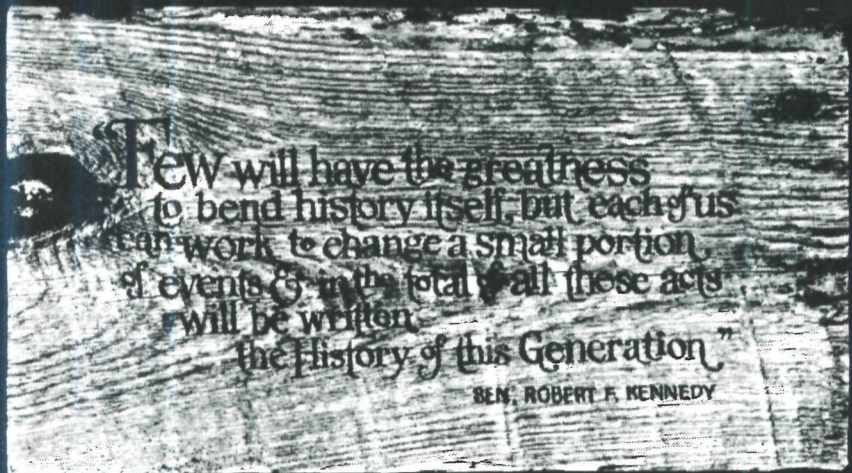
• IN ITS stark simplicity, the photograph on the page opposite may be as perfect a statement of the so-called feminine mystique as man is likely to produce. In the moving scene of his wife and daughter, Doug Barlow, IM '70, has captured nearly everything man really knows about women except that which will always elude him. If you expect this column or even this entire issue to lift the veil that covers the product of the first surgical operation performed on this earth, you are doomed to disappointment. For despite the fact that we have spent most of our adult years in the company of women (a wife, three daughters, and a granddaughter for a family and five females for an office staff), we have learned only one absolute truth about them and that is we still know nothing about them.

Women have to be the greatest chameleons of them all. The large body of folklore and mystery that has grown up around them is testimony to this. Their shifting moods are not even explainable to themselves. Just when a man thinks he has made a woman happy, he discovers that he has made her sad. Just when he is convinced he has finally figured her out for an instant, she changes into something completely unrecognizable.

Now please don't get us wrong. We adore women, a fact well-known by all of our friends and acquaintances. And we are positive that we would not feel the same way if we could catalogue those moods or solve even a segment of that mystery. It's just that we live under the constant suspicion that, in the final analysis, they are in complete control of our destiny, no matter how we try to avoid this state of affairs. Man gets very psychotic when he is continuously surrounded by women. They are our *Catch 22*.

For more about the women who live in that man's world known as Georgia Tech, we suggest you read the remainder of this issue. For more about women in general, we recommend that you continue your own research. Chances are your conclusions will be very much the same as ours.

RBW, Jr.



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*Even in those days when there were but a woman or two on the campus, the students thought about them as this cover from an early magazine shows.*

# Women

They came to the campus at the turn of the century and slowly both their number and their influence grew until today when they are an important force.

**T**HE FIRST WOMAN to invade that masculine stronghold known as Georgia Tech was a Miss Madge Flynn, who arrived on the tiny nine-acre campus at the turn of the century when the faculty numbered 27 including student assistants. She was, as you might guess in those pre-emancipation-of-women days, the librarian for the School, standing watch over the small collection of books and pamphlets from 8:30 until 5:00 during weekdays and from 8:30 until 3:00 on Saturdays. For her labors, she was paid the munificent salary of \$360 a year, a special appropriation to Tech brought about by the insistent badgering of Dr. Kenneth G. Matheson, then head of the English department and later Tech's third president.

Her stronghold was located in a single room in the Administration Building, which in those days was known as the Academic Building. And her collection of books numbered but 2,000, according to the catalogue of the time. The books, so the story goes, were acquired mainly through gifts of faculty, friends, alumni, and students. The story also relates that Matheson stocked the library principally by informing his students at the beginning of each term, "bring a book for the library if you wish to pass this course." In addition, through the efforts of President Lyman Hall and Matheson, cash gifts ranging from \$400 to \$600 per year were helpful in securing other books needed by the library to properly serve the students of the time.

Miss Madge Flynn remained at the lonely post until May, 1905, when she resigned to be replaced by Miss Laura Hammond of Atlanta, who soon added her sister, Julia, as the assistant librarian. By the time Miss Hammond took over, the college she resigned to be replaced by Miss volumes and there was still no library or even any appropriation for books

or periodicals. Miss Hammond, who remained in the position until 1923, saw both of these problems alleviated somewhat with the September, 1907, opening of the new Carnegie Library, a building that now holds among others the offices of the president of Georgia Tech and the National Alumni Association.

The year that Miss Hammond died and was replaced by prominent writer, Miss Frances Newman (Julia Hammond resigned with her sister), was one of the most significant ones in the history of the feminine movement at Tech. It was in 1923 that the first woman received a degree from the institution. That year, Elizabeth Baker earned her Bachelor of Commercial Science through work in the evening school, a fact that has been obscured by the large amount of publicity which heralded the arrival of the first full-time coeds on the campus in 1952. In the year of Miss Baker's feat, there were a total of 17 women working on the campus, mainly in secretarial positions.

**D**uring the years of the commerce department, which was phased out in 1935 because of the formation of the University System in 1932, several women received the same degree as Elizabeth Baker. The high-water mark came in 1926 when a total of four female graduates earned a Georgia Tech degree through evening school work. Included among the four was Estelle Allen, long-time assistant registrar for Tech who died in 1969. Miss Allen was one of the first, if not the first, real fighters for what has been referred to as the feminist revolution on the campus of the Institute which, despite the fact that it now graduates more female engineers than any in America, still remains in the minds

of the outsider (and many alumni) as the most masculine institution of higher learning in the country.

That 1925-26 year was also significant for another happening, the hiring by the School of Dorothy Elizabeth Murray as assistant librarian. More than any other woman in its long history, Dorothy Murray Crosland was to influence the development of Georgia Tech into a major force in engineering education. The year after she arrived, Dorothy Crosland became acting librarian when Miss Newman went on leave and in 1928 she became its librarian. Now director of Tech's libraries and not too far from retirement, she is still possessed of the same fierce energy and sharp mind that brought the library up to the finest in the technical field in the entire South. She is the senior administrator on this campus by a large margin and knows more about its campus politics and changing ways than any other person now walking it.

Dorothy Crosland is that rare combination of the charmer and the fighter. And it was these two attributes plus her ability to see the real future needs of Tech at every step of her career that lifted the Tech library from Carnegie to Price Gilbert Memorial, from a small, insignificant segment of the campus to its present eminence as one of the Institute's proudest possessions. On the way to her goals, she stepped on a large number of toes, angering at one time or another most of her best friends. But her clarion call of "for Tech and the library" and the campus-wide respect for her ability made her the one indispensable woman on the campus for over 40 years. Dorothy Crosland is the Tech library and with the completion of the Price Gilbert Memorial Library structure in 1953 and its Graduate Addition in 1969, she finally realized her dream and began



# The Georgia Tech



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*Vol. 11, No. 7*



## WOMEN—continued

to think again of what she could do to improve the library for her "be-loved students and faculty" before she left the campus for the last time.

At the dedication of the Graduate Addition on November 21, 1969, exactly 16 years after the original building was dedicated, President Hansen talked of the relationship between Dorothy Crosland and the Tech libraries: "In a real sense these two buildings are a memorial to Dorothy M. Crosland, Director of Libraries. Through her industry, her persistence and perseverance, her foresightedness, both structures have been conceived and brought to completion. Her sense of beauty, of proportion, of color, of creative functional design all in the proper mix—are everywhere evident. Seldom can one find a total building in which optimum use of all of the space can be secured all of the time—in which function and beauty are blended so perfectly."

Today, the Price Gilbert Memorial Library is a centralized scientific, technical and management collection of 612,000 volumes plus 500,000 microtext and other bibliographic units. Outstanding collections in the fields of science and engineering have been developed to support graduate study and research. It is housed in adjoining structures totaling 240,000 square feet of space. It can house over 1,000,000 volumes and can seat 2,000 users. The library's United States Patent specification collection is the only one in the Southeastern area. In 1962 the library was designated one of 12 Federal Scientific Report Centers, and its collection of reports from the Atomic Energy Commission, the Department of Defense, the National Aeronautics and Space Administration, and the Clearinghouse for Scientific and Technical Information now totals over 425,000 titles. Extensive files of standards issued by American associations and societies and a complete file of U. S. Military Standards and Specifications and of British Standards are maintained. The library is also a depository for United States government publications issued by the Government Printing Office, and for maps issued by the Army Map Service. Through its subscription to the Sweet's microfilm file more than 6,000 company



VAN TOOLE

*Flanked by two of the six presidents she has served at Tech (President Hansen and one-time Acting President Paul Weber), Dorothy Crosland poses during the recent graduate addition dedication for the building at right.*

catalogs are available, which provide information on industrial components.

The library currently receives over 12,100 serials, including 4,500 periodicals. Approximately 75 per cent are in scientific and technical fields. Especially strong is the collection of abstracts, indices, and bibliographies for science and engineering. Campus and local use is heavy and totalled more than 238,000 volumes recorded in 1968/69. However, the impact of the library's collections extends far beyond the campus. Last year off-campus service totalled more than 17,000 requests for information and materials with heaviest use coming from the aerospace and electronics industries. This service extended to 45 states and ten foreign countries.

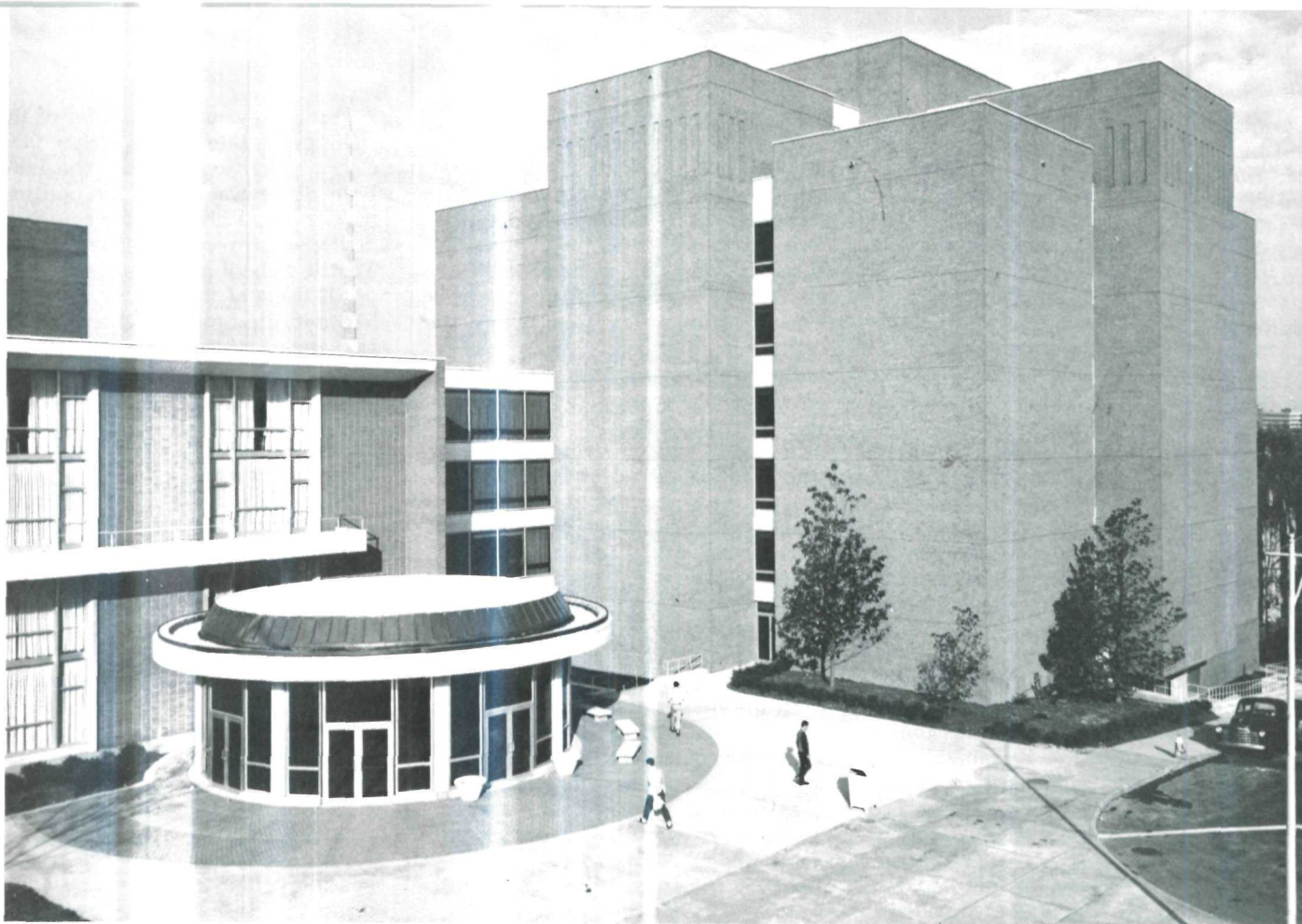
In 1966 the library was selected by the Library of Congress as one of 16 participating libraries in the MARC I pilot project. Concentration was on the conversion and use of catalog record to machine-readable form. The catalog record for all material processed since January 1, 1966, is in machine-readable form. Serial records are also in machine-

readable form and, because of the largely serial nature of scientific and technical publications, the catalog index to approximately 85% of the total collection is on magnetic tape.

The services of the library are rendered by a staff of over 75 persons. Institutional support is excellent with the current budget being over \$1 million.

The two buildings cost over \$5 million and the money came from every conceivable source, another tribute to Dorothy Crosland's ability to sell people simply because of her intense belief in what she is doing. Special rooms, such as the Wilby Room in the original structure; the Rae and Frank Neely Room, designed by Eleanor La Maire and completed in the original building during the remodeling that accompanied the building of the Graduate Addition; and the Monie Ferst Conference Room on the seventh floor of the addition all owe their being to Dorothy Crosland, who secured the support for these elegant additions from three of the top Tech alumni in history and their families. The late





BEN HENDRIX

Robert Wilby, '08; the late Monie Ferst, '11; and Mr. and Mrs. Frank Neely, '04, have been generous benefactors of both Georgia Tech and the libraries and close personal friends of Dorothy Crosland as have been many Tech alumni and non-alumni including the late Judge Price Gilbert, and his son Price Gilbert, Jr., '21.

**I**t was the immediate post World War II period before women began to make any new impact of consequence on the Tech campus. With the arrival of the married GI-student, many of the young wives were hired for secretarial positions to replace or supplement the traditionally more mature women who had handled these chores for over 40 years.

It was during this period that the pressure began to build for the admission of coeds as regular day students on the Tech campus. In 1947, some 50 Atlanta high school girls stormed the registrar's office, demanding admission, only to be

turned away by a reading of section 32-123 of the Georgia Code which read: "Females shall be admitted to the University of Georgia and all branch colleges of the University—but not to the Georgia School of Technology."

Though this battle was lost by the feminists, it marked the real beginning of a war that was to end in a female victory just five years later. The citing of the code irritated the Georgia Federation of Business and Professional Women's Clubs and the group immediately began pushing for a change in it that would allow women to attend Tech. During the same period, Miss Anne Bend, a senior at North Fulton High School who wanted to be an electrical engineer like her father, applied for admission to Tech, pointing out that Tech was the only state-supported institution in Georgia where she could receive such an education. She was turned down by the Board of Regents and had to attend school elsewhere. But more significant than the rejection was the fact that the Regents also refused her request that the State pay her out-of-state tuition and fees to Auburn, a

practice the Regents were engaged in at the time on behalf of Negroes. Why the case never went to the courts remains a mystery for it might have saved a great deal of time and work by many people before the Regents finally capitulated on the admission of women.

The wheels of victory were set in motion by Mrs. Blake Van Leer, the no-nonsense wife of Tech's fifth president, who led the fight to get the Women's Chamber of Commerce of Atlanta to petition the Board of Regents for the admission of women. By then the GI's had departed for the most part and campuses were looking for students, especially engineering and science types. In April, 1952, the Regents made the decision that changed the face of Tech forever. In a close 7-5 vote they approved the admission of women to all Tech's engineering and architectural schools.

The April 9 announcement was greeted by a considerable amount of grumbling among the students. "The students are determined that no tradition be changed for members of the fair sex," announced *Technique* editor, Bill Dean. "When they



## WOMEN—continued

show they have the ability, then they'll be accepted as one of us."

Ronald Holt, president of the senior class made the observation, "If they come here to study engineers instead of engineering they won't stay long." And one or two administrators echoed the statement, publicly, which did not exactly endear them to the feminists in the city.

One regent even went so far as to mutter after he lost in the final voting, "Here is where the women get their noses under the tent, I predict home economics and dress-making courses at Tech." Obviously, he had no working experience with the Tech faculty.

After all of the shouting and publicity, only four women applied for admission that year and but two of them showed up for classes that fall. They were Mrs. Elizabeth Herndon, a war widow with a nine-year-old son, and Diane Michel, an 18-year-old high school graduate from Houston, Texas. Mrs. Herndon, remarried, this time to a Tech student, and Miss Michel finished in the prescribed four years along with Shirley Clements, who transferred to Tech in her sophomore year.

In these early days the girls were subjected to what was to amount to almost cruel and inhuman treatment. Such gems as "Nell of an Engineer," and "I'm a Ramblin' Wreck from Georgia Tech and I keep my lipstick near," came from the typewriters of some of the lesser lights of local journalism. The girls ignored this and all of the ribbing about "ruffled T-squares" and "husband-hunting coeds" and just went about establishing themselves in the classroom. By 1963, they had very well set a record in the classroom and labs and nobody was kidding them much anymore. Their point average was well above the all-student average and in that spring four of Tech's 50 coeds were among the 34 inducted into Phi Kappa Phi, the Institute's highest academic honor society. With 1,200 students eligible for consideration, this was an impressive achievement to say the least. Women began to appear regularly on the "Highest Honors" and "Honors" lists in the commencement program. And twice in a three-year period in the mid-sixties, coeds were among

the top five graduates.

The academic battle continued for the admission of women into the sciences and finally into industrial management. The final victory was won on December 13, 1967, when the Regents ruled that women were eligible for all degree programs at Tech. During the period before the ruling on all of the sciences and industrial management, a strange phenomenon occurred on the campus. Departments began to build their own "farm" systems with schools who couldn't admit girls farming the top ones out to another school that could admit them in order that Tech could still attract the top students. The girls would get a degree in one area and take all the electives they could in the other so they could go on to graduate school in their major.

In the meanwhile, the coeds were going about getting their feet wet in extracurricular activities. In the fall of 1953, Ann Brown, a freshman coed made the cheerleading squad. The next year Paula Stevenson and Teresa Thomas joined the band. By 1954, fourteen of the girls with Mrs. Van Leer's help established a Tech chapter of Alpha Xi Delta, a social sorority.

Paula Stevenson, daughter of the well-known late speech writer for Georgia political figures, the late Paul Stevenson, broke the political barrier when she ran for senior student council representative from the Textile School and was elected.

All three of these early pioneers had definite opinions about Tech and stated them in two separate interviews. The first one was with Miss Clements and Miss Michel the day before their graduation and here is what they had to say about their days on the campus:

"One thing I'd like to get straight right from the beginning," said Miss Michel, "I didn't come to Tech to find a husband."

Miss Clements broke in to add, "Neither did I, and any girl who does is getting one the hard way. Not that Tech men aren't good husband material. They're the best. It's just that this is such a tough school, and the girls who come here for a lark don't last long enough to get married." (Miss Clements later married a Tech EE graduate.)

"I came here to get the best possible engineering education," resumed Miss Michel, the taller of the two brunettes. "When Tech announced that it was accepting coeds,

*In June, 1956, the first two modern-day Tech coeds (Diane Michel, left, and Shirley Clements) receive their degrees.*





I was planning to attend another school. My father urged me to go to Tech and get the best engineering education while I was about it. So I ended up here. I'll admit that the challenge of being the first to do something intrigued me, as it would any American, but that wasn't the only reason why I came here."

"At first, it was plenty tough," continued Miss Michel, "we definitely weren't accepted like we are now. And the great publicity fuss made over the two of us sure didn't help. The fear that somehow we might change Tech infected the boys. And although they were never nasty to us, they didn't go out of their way to ease our situation."

"I think what changed them was the fact that Tech boys are so capable of thinking for themselves," suggested Miss Clements, "when they saw that we weren't trying to change them, they decided to accept us and change our ways. Anyone who tells you that the modern engineering education doesn't teach people to live in our society hasn't been around many of these Tech students."

Miss Michel agreed with this statement. "I think engineering is the best education for tomorrow's world," she said. "Perhaps it needs another year because of the increasing complexities in the field. But it still has any other education beat. I've dated boys from other schools around here, and, frankly, they're pretty dull."

"Before we go, how about straightening one thing out for us?" requested Miss Michel. "Tell the alumni not to worry. We are proud to be alumnae of Tech. We intend to be career engineers, and we have no intention of trying to bring about any changes in the profession."

**M**ISS STEVENSON, who later returned to the Tech campus for a spell as a research assistant, stated her views in retrospect:

On the question of coeds changing Tech: "To me the main reason that the female-type student will never change Tech can be found in the roughness of the curriculum. The whole academic program is geared to the men, and its pace is such that a girl has to work so hard to keep up with her class work that she has

little time to think of changing things around the campus. Where else do coeds have an average college day of classes from 8-11 and from three to five three-hour labs per week?"

On the acceptance by Tech men: "Then there's this matter of getting accepted by the Tech men. Each girl here has to do this on her own. The acceptance of the first didn't help me or any of the present group of girls a bit. The way the Tech men look at it, each of us must prove herself."

On the male-female relationship on campus: "Another problem encountered by coeds dating at Tech is the resentment that the Tech men have for you because you have dared to strive towards entering a basically male profession. They seem to look upon all of us as walking UNIVACs or mental cases. 'A woman's place is in the home,' they reason. 'And she should stay there.' This may be true. But women have been successful in many heretofore male professions. And with the shortage of engineers, there is no reason why they can't be just as successful in this field. In fact, in the past few years, women engineers have proven very successful working in industry. I guess the Tech men sometimes still prefer those 'sweet, helpless little girls' that flatter them to death and then trap them at the same time."

On other problems encountered by coeds: "One of the real disadvantages of being a coed at Tech, however, has nothing to do with the opposite sex. It's the complete lack of coed facilities for campus living. The girls dormitory is a converted house on Fifth Street which holds only 11 girls. General living conditions in this dormitory aren't designed for women at all. And, to top it off, the girls pay more for their rooms than do the men. The girls can eat at the same price as the men. But they have to walk six blocks to the dining hall which is located right in the center of the men's dormitories. It seems only fair that the girls should have their meals closer to their dormitory."

On professors and coeds: "At Tech, the coeds can figure on encountering four general types of professors: Type one is the professor who stresses the fact that there is a lady present and conducts the class in a most gentlemanly manner. Type two is the professor who realizes

that a lady is present and goes out of his way to demonstrate that her presence will not make any difference in his lecture or its presentation. Type three is the professor who completely ignores the fact that a girl is in the class. And type four is the professor who conducts the class the way any normal coed class would be conducted."

On the greatest advantage of being a coed: "The greatest advantage of being a coed at Tech is that you can get the best in technological education and training. And this in itself is enough reason for any girl bent on pursuing this career field to ignore all of the school's disadvantages. Georgia Tech is a unique institution, and I, for one, have no intention of trying to change it."

**T**he constant clamoring of coeds and some administrators finally brought Tech that women's dormitory last summer, and the enrollment of coeds immediately jumped from slightly over 100 to 213 last fall. It also brought the campus a new female administrator named Judith Priddy, who was named as the Institute's first dean of women on July 1, 1969.

The final impetus for opening the position came from Tech coeds who last year filed an official request for a dean of women. Their wishes, it was found, were justified. As Dean of Students James E. Dull pointed out when he announced the opening last spring, women students were at that time enrolled in all 19 degree-granting schools or departments, coeds had done well academically, and they had made inroads into all phases of campus life. With the completion of the first women's dormitory in the summer of 1969 and construction beginning on a second one soon, Tech was in a position to admit more of the qualified women students who applied.

Dean Dull concluded: "The advent of women students is an established fact—at present the coed is emerging as a positive influence of recognizable proportion—a 'you have arrived, we are glad you are here, what would we do without you' acceptance. Coeds have more than met the challenge and they have



## WOMEN—continued

arrived. The establishment of the position of assistant dean of students for women (Judith Priddy's official title) is the latest and most timely recognition of the status of women students at Georgia Tech—an assistant dean is needed who can help, advise, direct, and assist in this involvement toward full participation in what is still a man's world."

The dean's announcement was circulated at the annual convention of the National Association of Women Deans and Counselors which met in Atlanta last spring by six Georgia Tech coeds, who were there to survey the assembled women deans and to screen interested applicants. Judith Priddy, then dean of women at Robert Morris Junior College in Pittsburgh, Pennsylvania, applied, was interviewed by the girls, and was approved by them as one of three women deans invited to the campus for a rigorous two-day interview session with administrators and students. Finally, after the breakfasts, luncheons, and interviews were over, 26 out of the 31 who met and talked with all three candidates rated the tall, Memphis, Tennessee native number one on their lists. She accepted the job, returned to Pennsylvania long enough to hand in a resignation, packed her bags, and headed South once again. Because the position is completely new, Dean Priddy anticipates that her first year at Tech will be a time of learning—about the Institute, about the coeds, about Atlanta. Though she took office in the middle of the summer quarter—a time which the majority of college students spend recuperating from their past year's work, vacationing, or working to rebuild depleted bank accounts—her first official order of business was to get to know the students with whom she would be working. She began by inviting the undergraduate women attending college summer quarter into her office for informal get-to-know-each-other sessions—a procedure which she continued to follow in the fall when administrative duties allowed. After completing one quarter, she was able to say, "The girls here at Tech are the most outstanding group of young women with whom I have ever dealt. They are bubbling over with ideas." And since the coeds are



MARK HORTON

*Tech's first dean of women, Miss Judith Priddy, right, discusses a problem with one of the 213 coeds now on the campus.*

not lacking in enthusiasm and ideas, the new dean of women expects that she will primarily act as administrative coordinator for their projects.

Whereas other women deans across the nation are beginning to find that the crisis situation is on the top of their list of priorities, Judith Priddy foresees no such difficulties at Tech. "Perhaps I'll deal with personal problems," she comments, "but as far as real disciplinary problems are concerned, I don't think we'll have many. The Tech coed doesn't have a lot of time to get into mischief."

If in addition to providing the unity for coeds' projects, she should find herself dealing with personal problems, the new dean indicates that she will not mind. "This is the place for students to unload," she says, "whether it is about professors, boyfriends, or whatever. My role is to listen, and to advise them if they ask for it." Not at all authoritarian in her approach, the 32-year old dean lists as one of her pet "soapboxes" the failure of parents and professors to realize that "students are entitled to be in a bad mood or to be tired, too." She stresses, "We expect docility and cooperation all the time, and any lapse on the student's part is disrespect for us."

On the surface, Judith Priddy appears to be matter-of-fact about her job at Tech. But in fact, she is

quite excited about it, and in a moment of candor confesses, "I have to keep my own enthusiasm in check." The job fills her requirements of being "meaningful and worthwhile" and is also one that is in many respects unique. In spite of the fact that she has now found a comfortable and yet challenging niche, the Tennessee native did not always want to be a dean of women. At Memphis State University, she took an undergraduate degree in health and physical education with minors in psychology and sociology. The idea of becoming a dean did not occur to her until her junior year in college, and her investigation of the possibility at that time took her to MSU's dean of women, Flora Rawls. Miss Rawls agreed to recommend the Memphis State coed to graduate school to study guidance and counseling; however, Miss Priddy recalls that she warned her to consider it carefully before plunging.

Tech's new dean considered it for seven years. She taught high school in Albuquerque, New Mexico, Ann Arbor, Michigan, and Brookfield, Wisconsin, and spent summers directing camps, including a sailing camp on Martha's Vineyard Island in Massachusetts, before returning to Memphis State for the Masters in Guidance and Counseling. Her second degree was completed in nine months and she immediately became assistant dean of women at Robert



Morris, a private coeducational school, primarily business and liberal arts oriented. Another nine months later, in 1968, she took over as dean of women for Morris' two campuses, 18 miles apart.

Although a former physical education teacher, Judith Priddy makes no claims to be a star athlete. She enjoys sailing and swimming, but makes it clear, "I'm a form swimmer, not a speed swimmer." As much as sports, she says that she enjoys travelling and photography, adding lightly that she is a "frustrated artist." Once she took an art course, but comments, "When we got to water colors, I turned in my brush and left." Photography also fits in well with another hobby which the new Tech dean recently acquired—one in which her color slides are blown up and transferred to wooden plaques. But instead of decoupage, she refers to the work hanging on the wall above her sofa, as a "grungie," because, she says, "I misunderstood the instructions."

A camera enthusiast since the age of ten, she had an opportunity last summer to put her talent to work on a trip around the world. In addition to visiting the Philippines to attend the wedding of her younger brother, a Peace Corps volunteer, they also toured Tokyo, Hong Kong, Bangkok, Jerusalem, Athens, Rome, Zurich, Vienna, Copenhagen, and various cities in Ireland. A bundle of souvenirs, along with mementoes like the Captain Hook puppet redone by a Martha's Vineyard summer camp counselor, now decorate the Smyrna apartment which she shares with her 11-year-old poodle, Angi.

Judith Priddy's arrival on the Georgia Tech campus might well be heralded as the rise of the Tech coed. If it should happen not to turn out that way, it will not be the fault of the enthusiastic new dean. Her insistent voice will be present in coming months at staff meetings—where students are not present—reminding male colleagues that the Tech coed is around and that she is both willing and able to become a constructive part of Tech life.

It took 17 years and a lot of battling and embarrassment and tears but the girls showed them just as they always seem to. On the following pages are the stories of two present-day coeds. They, as you can read, are remarkably like their predecessors.

MARK HORTON

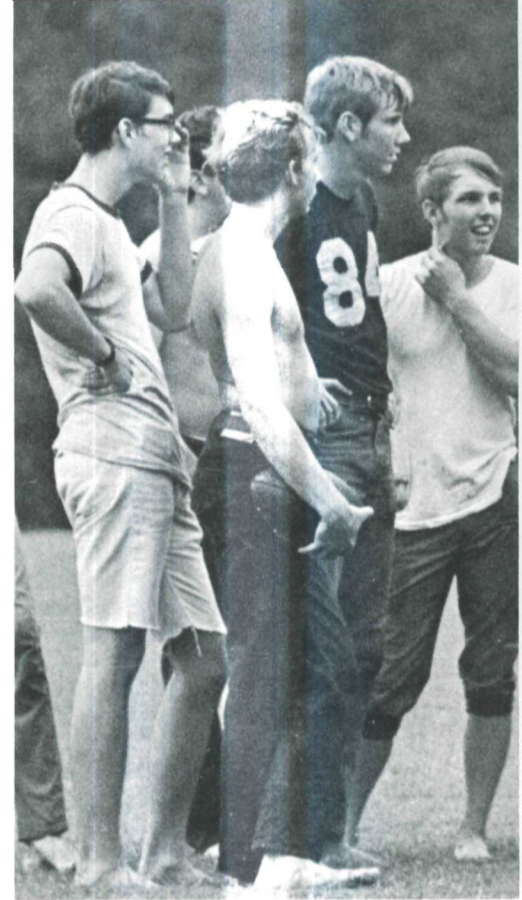


*Though women are still outnumbered by something in the neighborhood of 40 to 1, today's female student is not afraid to let herself be heard.*



# Kathy

The first girl from Dillard, Georgia, to enter Tech, she also is one of the tallest, prettiest, and most outspoken coeds to grace the campus



**K**ATHY COLDREN, a freshman coed at Tech, just naturally stands above the crowd, as you can see by glancing at the photograph to the left. Not only is the daughter of James W. Coldren, IM '51, of Dillard, Georgia, Tech's second tallest coed at 5' 11", she is also in the eyes of most observers, the prettiest. Last fall, she was one of two members of the Homecoming Queen court, the first coed to achieve this honor.

The top student in her high school class at Rabun Gap High School, Kathy decided she wanted to be a chemical engineer and despite her father's objections, she applied for Tech and was accepted. "He told me not to come," she says. "And that's





*She might not look like it, but there is still a lot of tomboy in Kathy Coldren as this picture from freshman camp of a touch football game reflects.*



one of the reasons I chose it, because if somebody tells you not to do something that's usually what you want to do."

After the first quarter it is beginning to appear to Kathy that her father, a mathematics teacher, knew what he was talking about. A superior math and chemistry student at Rabun Gap, she pulled D's in the two subjects during her first quarter which helped account for her 1.8 point average, which convinced her to switch to Industrial Management. "I was prepared for the worst when I came here," she says. "But I wasn't prepared for Tech. I came from a small school with a relatively weak chemistry course and no calculus at all." This

quarter she is doing better after adjusting to the shock of competing with high school valedictorians by the score. And she is interested in the new options in industrial management that give her more freedom in selecting electives. She now has her eyes on a legal career after Tech but gives the impression that she isn't sure what she really wants to do, not an unusual state for a Tech freshman.

A member of the largest female freshman contingent in Tech's history (85), Kathy moved into the new dormitory in September and likes the living conditions very much. "We eat a lot of our meals over there since we have a kitchen, which the boys don't have," she says.

"And the commons building makes a lot of sense. We can go over there and study with the boys at anytime."

Kathy doesn't think that there is any classroom discrimination against girls at Tech anymore. "I think I am looking at it from the point of view that I'd like to think that there isn't so maybe I'm not seeing it if it is here. I know a couple of girls who said they had profs that didn't like girls, but I don't know if that is true or not. Socially, I think there is. Like when you go to a party, unless someone asked you if you are a coed, you don't come right out and say it. People who don't go to Tech, especially students, just stand in awe of you when they find out that you are a Tech girl."



## KATHY—continued

There is another special characteristic of Kathy that is more common among Tech coeds than you would think. She is trying to pay her own way through school. Over the summers she has worked in the Dillard House, a fine resort in North Georgia, as a waitress. "I'm going back to waitressing again this summer," she says. "The money is better than in any other job I could get near home and since we live on the Dillard House resort, it makes it easier for me to make the money I need to stay in school."

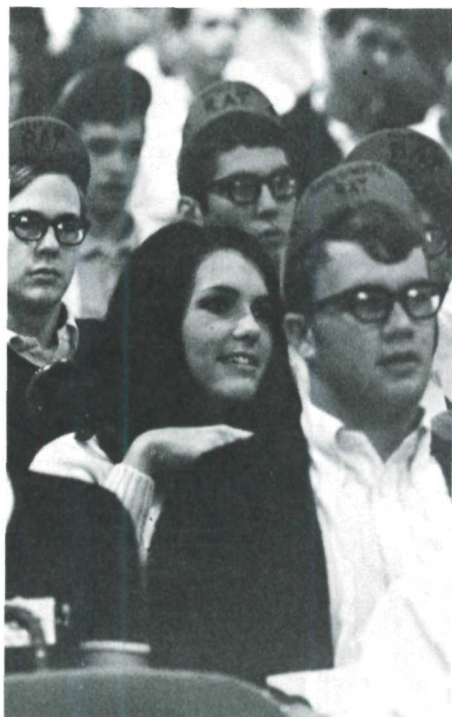
Kathy belongs to the Women's Student Association, which sponsored her and several other coeds for the Homecoming Queen competition. She has just begun to take an interest in the community service project where

Tech students tutor boys and girls in the Techwood area. "I did some tutoring around home and liked it and now that I think I might be getting along better in my own schoolwork, I'd like to help somebody else." She also belongs to the only sorority on campus, Alpha Xi Delta, and likes it better than she thought she would. She is currently dating an EE major on a steady basis but has no thoughts about getting married anytime soon. "I'd like to finish Tech before I get married," she says. "But I can't guarantee that at this stage of the game. A lot of the girls might have come here for a husband and you can begin to pick them out right about now. They're the ones who are letting their studies slide and we have our share of them just as any other college has."

You get the feeling from talking to Kathy Caldren that she will never

take that way out. She is so outspoken about a lot of things. "I have never been challenged before academically and I never felt that anything was worth doing unless it was hard," she says about why she came to Tech. "I think that there is going to be a push for some dormitories for girls from the coeds," about living conditions. "Adjusting to all-male competition is the toughest thing about attending Tech," about the coed's problems. "I think Tech lowered its standards this year to get girls to fill the dorms but I don't think that will be a problem in the future," she says about admission of women.

Kathy is a reflection of all of the pioneers who preceded her at Tech. And if she is typical of the coed of today, the girls are here to stay and their numbers will be increasing rather dramatically in the future.



*Even in a crowd, Kathy Caldren stands out (above) and her beauty was recognized when she was one of the 1969 Homecoming Queen's court presented to the alumni at the annual luncheon.*





# Mary Anne

They told her not to try engineering at one time and now she is just months away from being the first female Ph. D. in A. E.

**T**HE YOUNG WOMAN who will this year become the first female to penetrate that elite circle graduating from Georgia Tech with the Ph.D. in aerospace engineering and one of a handful of women across the nation to pursue her aerospace engineering education to the doctoral level had a number of strikes against her before she began. Mary Anne Jackson Wright's problems could have happened to a man just as well as a woman, and since she has encountered no discrimination based on sex at Tech, she is not rebelling against tradition or pushing women's rights. She is simply pursuing the necessary education for the field in which she wants to work and teach.

"I wanted to go into engineering as early as age 12," she recalls. And she sees no necessary conflict between engineering and femininity: "Women have traditionally held desk jobs," she says, "and the work of an engineer is today for the most part a desk job. It requires the ability to think, but I'm not aware of any natural law which separates the sexes on this count. But I can see some areas in engineering—like hardhat construction work—where I don't think a woman would fit in well."

Mary Anne's problems started with a high school counselor who regarded her as poor engineering college material on an intellectual level. She had, it seems, scored very high on a battery of achievement tests when she came to the counselor's attention during the



senior year; however, in the ensuing guidance conference, the lady compared the achievement test scores to the results on an IQ test which Mary Anne had taken two years earlier and on which she had performed poorly. The counselor's interpretation of the statistics before her was that the young girl was already taxing her intellect to the limit and that engineering was out as a course of study for her.

The incident with the counselor at her Tullahoma, Tennessee high school offered little encouragement for her to attain that childhood desire; however, neither it nor subsequent financial difficulties stopped her. In spite of the bad advice, she followed high school graduation up

with entrance into David Lipscomb College as a pre-engineering major, and her excellent academic record there began to dispel the earlier pessimistic prediction. After a year at David Lipscomb, however, the second deterrent turned up. As a result of financial difficulties, she had to drop out of school to go to work for a while. But fortunately, the job she landed was that of engineering aide at Arnold Engineering Development Center near her home in Tullahoma. It was here that her attention was focused on aerospace engineering and on Georgia Tech as the institution which she would attend. "I worked with AE's at Arnold," she says, "and a great number of them were Georgia Tech graduates. As far as they were concerned, Tech was the best engineering school around." They apparently managed to convince Mary Anne of that, too, for when she finally decided to return to college after 15 months at Arnold, she applied only to Georgia Tech.

After her first quarter's grades at the Institute were in at the close of fall quarter, 1961, Mary Anne could not resist the urge to drop by to say hello to her former high school counselor. She also took along a copy of her grades—that first quarter, she had racked up a 4.0 quality point average, and throughout the remainder of her career at the Institute, it would drop by only three-tenths of a point. Her final undergraduate point average in June, 1964, was 3.7—she ranked first in a class of 58 aerospace



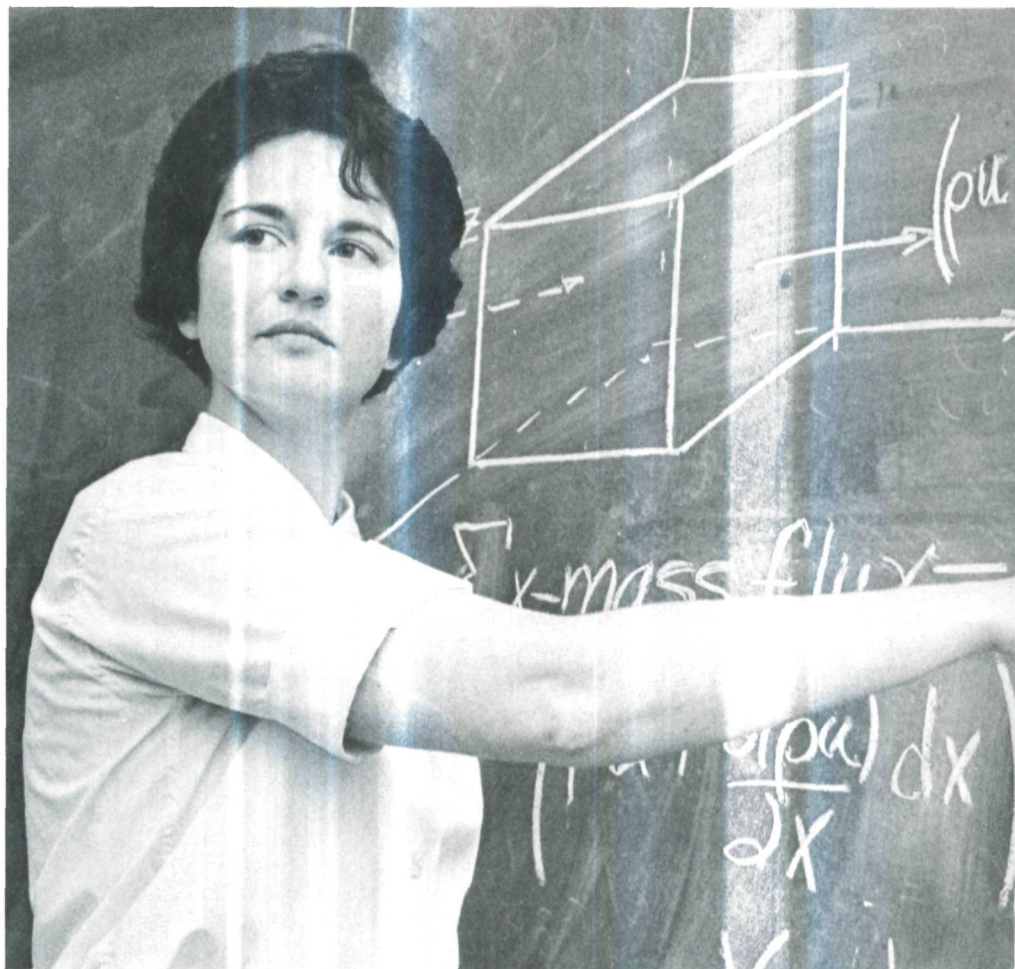
## MARY ANNE—continued

engineers, and in the upper two per cent of the graduating class as a whole.

The decision to continue graduate work was as natural to the Tech AE major as was her earlier choice to go into engineering. Her undergraduate study had opened up new vistas for her; her interest was aroused; and she pursued them. "I found out enough about aerospace engineering at Arnold to know I wanted to study it," she says, "but I later realized that I had been dealing with the lower levels of the field. I wanted to do something more challenging." The fourth coed to receive the undergraduate degree from the School of Aerospace Engineering, Mary Anne was the first admitted to the AE graduate program. Her masters degree was granted in June, 1966, and both she and her husband, Terry Wright, who is also a Ph.D. candidate in AE, are now in the process of completing their doctoral dissertations.

The shortage of funds which prompted her earlier months of work was by no means remedied by the transfer to Tech. In fact, expenses increased, for in Georgia the Tennessean had to pay out-of-state fees. This proved to be her parents' only apprehension about having their daughter study engineering, but the determined young lady was able to help out the first year with money which she had saved while working, and after that year, she obtained a scholarship. Her graduate work has been financed by several means. In addition to the research assistantships which both she and Terry now hold, she has worked in the summers; has held the Zonta International Fellowship, one which is awarded to four to six women in aerospace engineering each year; and has even taught at Tech for one academic year.

As an undergraduate student, the aerospace engineering major found time to participate in a number of extracurricular activities, including the Women Students Association, Gamma Psi, Sigma Gamma Tau, and the Triangle Club. Once she began graduate work, however, these interests waned. "After a certain point," she comments, "some of these things seem a little Mickey Mouse. You become interested in the community at large." She laughingly adds, "Don't ask for a list of my



community-wide projects."

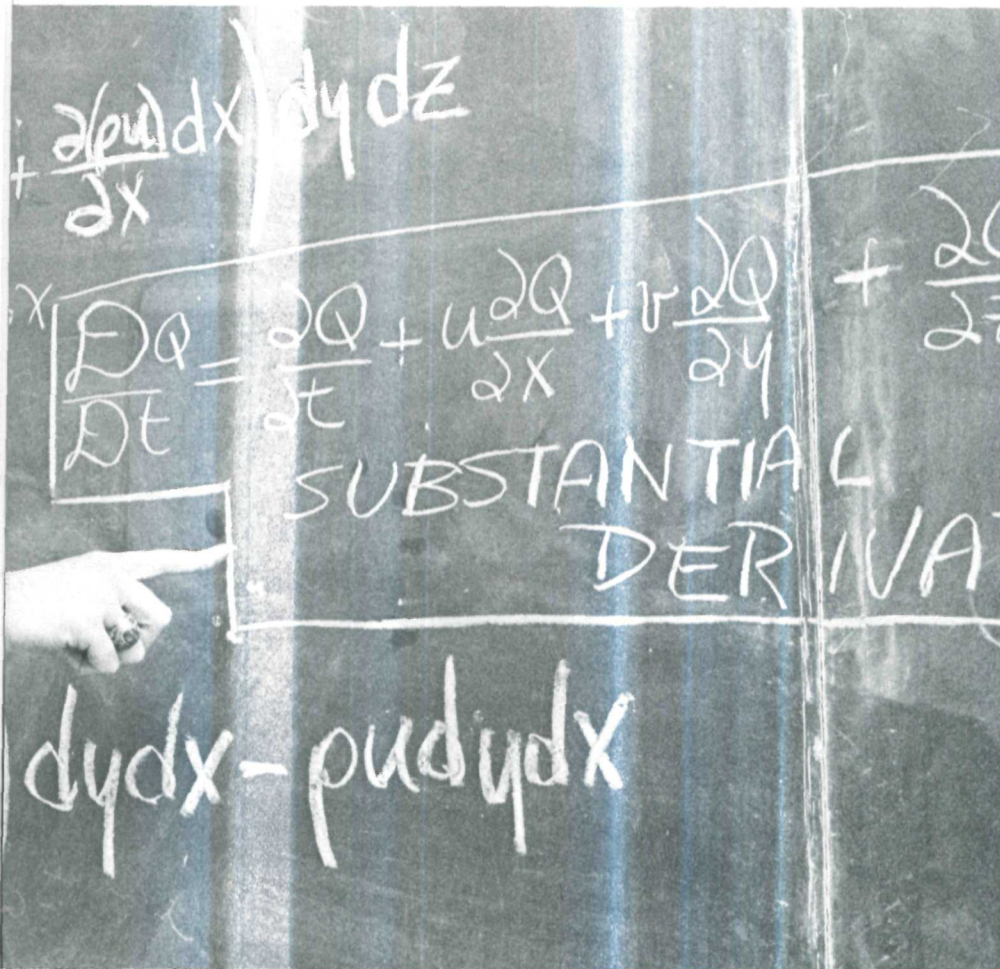
In terms of aerospace engineering, Mary Anne's special area of interest is one which she shares with husband Terry—a fact which keeps communications lines between the young husband and wife completely open. Mary Anne readily recognizes, "A man's work is a large part of his life," and she is aware that she has an advantage over other wives who know nothing about the kinds of problems their husbands encounter here. Both she and Terry are specialists in aerothermodynamics. Her dissertation work will contribute to the solution of a jet-in-cross-flow interference problem, and Terry is working on a design approach for optimum heavily-loaded shrouded propellers.

Terry is from southern Illinois, and he too has completed all three degrees at Georgia Tech. The two had classes together as undergraduate students, but Mary Anne does not remember exactly when she

first noticed him. They initially got to know each other, she recalls, in either the junior or senior year, but the acquaintance lasted for three years before they ever dated. Without a moment's thought she remembers that first date: "He took me out for a steak dinner."

Married for three years now, the two soon-to-be "Dr." Wrights begin a typical workday by sleeping until 7 a.m. or so. On the way in to the laboratories where they hang their hats in the Aerospace Engineering Building, usually they make a stop at the Tech Computer Center to check on the current data for their dissertations. Lunch around two o'clock usually means grabbing a sandwich together at a shop across the campus on North Avenue and an opportunity to discuss the problems of the day. Arriving home around seven in the evening, Mary Anne, who thoroughly enjoys cooking—but who always forgets to remove the meat from the freezer each





Dwight Ross Jr., Atlanta Journal Constitution

morning—makes a mad scramble through the refrigerator to find something to feed a hungry husband quickly. On nights when dissertation work is running smoothly and they have not brought problems home to solve, the two enjoy a quiet evening together. Terry is an avid reader, who has also picked up an interest in Mary Anne's number one hobby, painting. Additionally, Mary Anne is quite adept in the traditional female arts. She makes well over half of her own clothes, as well as sews draperies and occasionally tackles a pair of Bermuda shorts or a terrycloth shaving coat for Terry. When she finds the time, her knitting or crocheting needles are likely to begin to click. An unusual occasion—like an at-home interview with an *Alumnus* reporter—will provide an extra few minutes to prepare dinner for friends.

During the first few weeks of fall quarter, the two aerospace engineers

began making plant tours in pursuit of their first jobs next year. With two aerospace Ph.D.'s to consider in the same decision-making process, the whole affair got a bit complicated. Each of them had a number of offers, but finding the right job for both and within commuting distance of the same city presented problems. Terry, for example, had an offer in Philadelphia which he liked very much, and a teaching position in a nearby college was open to Mary Anne. Although the Tech coed eventually wants to teach, at this point she feels she is not ready for it. She believes that practical, industrial experience is necessary in order to be the kind of teacher she wants to be. "In the classroom, you become well versed in theory," she explains, "but it's necessary to be able to apply those theories to real problems and work out solutions in order to be an effective teacher." Perhaps also with an eye to a high school counselor

whom she once encountered, she comments further: "I felt it would take a much more experienced person than I to handle the job at that college."

At other cities where Terry received appealing offers, Mary Anne acknowledged that probably within six months or so she would be able to locate a position. However, she added in typical quiet, matter-of-fact tones, "I couldn't see wasting that six months." Although the young wife has no particular aversion to staying home when the time comes—inserting that she definitely would not like to be "the absolutely trapped housewife"—she does want to take advantage of the time she has before they start a family.

The decision-making process ended for Mary Anne and Terry last October when the two decided to take jobs in Indiana. Although both were offered positions at Allison, a Division of General Motors in Indianapolis, only Mary Anne accepted the job there. Terry decided to go with Westinghouse Fluid Systems Laboratory in West Lafayette, Indiana, some 70 miles away. They plan to settle at some point about halfway between the two cities, and, in Mary Anne's words, "do a lot of driving each day."

After a few years' work, Mary Anne will temporarily turn in her key to the office and take some time out to have those two children which they have planned. In the meantime, she says, "The only sensible thing to do will be to save the money I make, because I will be quitting work at least for a while." Starting salaries for the two add together to provide well over \$30,000 annual income, and learning to live on that in the beginning might well hurt when she becomes a mother. Mary Anne definitely plans to return to work after the children are old enough, but at this point, she is not quite sure what age that will be. "If I should decide that I need more time with the children," she says with typical confidence of handling those unknown situations which might arise, "I could always find a job teaching part-time." At this point in time, Mrs. Terry Wright has every reason to be confident—with a Ph.D. in aerospace engineering behind her, there is little chance that she will ever become that "absolutely trapped housewife."



# Nancy

A well-known authority on botulism as well as a superb teacher becomes the first woman to head any degree-granting school at Georgia Tech

**D**R. NANCY WALLS is a microbiologist and a very good one at that. Her bag, you might say, is zapping little microbes with gamma radiation—just to see what they will do—or will not do. That sounds a little sadistic, but really it isn't.

By doing this to an organism which causes food poisoning, she has made quite a name for herself in her field—not to mention being made acting director of Tech's School of Biology and becoming the first woman to head an academic department at Tech. Her work with this particular organism has just about made her the botulism food poisoning expert of the South—quite a switch for a woman.

Last year she presented a paper to the American Society for Microbiology that set them back on their ears. Through her research, she had found that exposure to certain levels of gamma radiation (in low doses) does not kill the spores of the microorganism that causes botulism, but could actually turn them on and even make them more active than usual.

The danger to man from this organism comes after a spore hatches and begins carrying out its normal cell functions. A waste product produced is a toxin that is the most deadly poison known to man. It is when man swallows this toxin that he comes down with botulism, an often fatal food poisoning.

Why did this discovery make waves? Irradiation has been considered as a means of extending the usable shelf life of some foods.

Gamma rays, which pass completely through the food in an instant and then are gone, are used. But in order to use irradiation in food processing, it is necessary to know just what happens to living cells present

in the food at the time it is irradiated, if all aspects of the process are to be controlled. Her research probed just how these changes might affect one type of cell, the botulism organism.

Working with spores of *Clostridium botulinum* type F, she exposed them to 100,000 and 200,000 rads of cesium-137 gamma irradiation. The spores were then surrounded with food. They were watched closely under simulated conditions of life in a refrigerator.

Her findings showed that after irradiation, the germination time of the spores was unchanged. However, the more irradiation they received, the more rapidly they grew. Not only did the cells grow faster, but they also produced toxin in larger quantities than in unirradiated cells!

"This is an example of how basic research has a value for practical purpose," she noted. "If we knew what was in the organism that was being stimulated, we could control it and incorporate that particular treatment into the food so that we could be assured the radiation would be helpful while at the same time not produce any side affects that we didn't want."

Nancy Walls came to Tech in the fall of 1959—this is her 10th anniversary—as a research assistant on a research grant in the Engineering Experiment Station. She worked under another professor for the first year—until she got her own research grant. With that money, she took over a separate office and laboratory facility and began to develop an area in anaerobic microbiology—a new field for Tech at the time.

That early lab had been a storeroom—or rather it had been originally set aside for a storeroom—on the

outside half of the building. Ordinarily labs are on the inside and offices occupy the outside and get the window space. With the grant money, the storage room was converted by the Physical Plant Department into an isolation laboratory which still exists. It has stainless steel countertops rather than the ordinary soapstone, so they aren't quite as porous and the contamination problem is reduced. In addition, it is cut off from the normal air conditioning and heating flow of the building so that contaminated material is confined to this space and, after decontamination, ducted directly through the roof of the building.

In 1961, she began teaching on a temporary basis in the School of Biology. The first female instructor at Tech preceded her by one year—she was hired in the math department in 1960. The title of senior research biologist was acquired in 1967—and is comparable to an associate professor in the academic department. It was a promotion based on research performance. She became acting director of the school in mid-February of 1969. The previous director resigned so he could return to teaching and research. "He had been director of the school for four years," she explained. "He helped equip this entire floor (the third floor where her office is located); he developed our graduate program up to the Ph.D. level. I think the strain of this particular kind of administrative work eventually gets to almost everybody and he, I think, was tired of it."

As a full-time member of the academic department now, she is an associate professor. She still knows her way around a laboratory.





Her gilt-edged credentials, which she modestly hides, prepared her well. She got her bachelor's, master's and Ph.D. degrees all from the same university—the University of Michigan—which is something she wouldn't recommend for the average person. "I went to another university for the majority of my undergraduate work and transferred to Michigan only for the last year. I probably would have gone to Michigan the entire four years had my mother decided to let me leave home when I finished high school. But I had just turned 16 and she thought that I was too young to go away. That was back in the sheltered days. So I attended the University of Akron (Ohio)—which was famous primarily for rubber chemistry since Akron is the center of the

rubber industry. Originally, I entered to study law and, since the University of Akron had no law school, I knew I would be able to go away to school one day," she confided.

But she found law school very dull. She turned to the sciences—thoroughly captivated by the introductory courses she was required to take while pursuing law studies—and it was off to Michigan with the idea of going into microbiology.

Turning from side to side in the large executive chair made for a man, she began to talk about the field most people connect with frogs and bugs. "Research in the biological field is definitely in vogue, but especially anything biological you can relate to man and his environ-

ment now. There is a tremendous concern about pollution of our physical environment—air pollution, water pollution, the relationship of man to his sea environment; how he can continue to utilize nature and at the same time not destroy it; also the psychological and social pressures of urban situations are upon us as is the impending crush of overpopulation—these are the things I think are in fashion. We have had 15 or 20 years of tremendous input from government agencies into basic research unrelated to practical problems. I think that whatever precipitated it—the Vietnam War, public opinion, or a combination of other factors—the input of government monies into that kind of research has slowed down in the last couple of years. And



*It is in the laboratory that Dr. Nancy Walls first made her mark at Georgia Tech and it had nothing at all to do with the fact that she was a woman.*



### **NANCY—continued**

the people now in the Congress, and supposedly they are representing their constituents, are more interested in research that will bring solutions to practical technological problems.

“Basic research is essential, however, for eventual practical use because you’ve got to have the basic underlying knowledge to find out what is really going on in a system so you can control it. But we have a backlog of this kind of

information in certain areas now, so the hue and cry is to develop similar competence to use to man’s benefit at the present time so a person can see feedback for his tax dollars in practical equipment, systems, ideas, health benefits for man and his environment—whether it be agricultural or urban. I don’t think this phase will pass any time soon,” she said.

If you talk with Nancy very long, she will inevitably refer to Kenneth. He is her husband (by training an

immunologist) in charge of parasitic serology at the National Communicable Disease Center. “Now the words parasitic serology are not going to mean a great deal to most people. Let me explain. They have a number of good tests that can be performed to diagnose a number of diseases by drawing a little blood,” she explained. “This isn’t true for parasitic diseases because they live in the intestinal tract and the blood picture isn’t as clearly defined as it is for organisms that actually get into the blood stream. So Kenneth is trying to develop new serological (i.e., involving blood substances) tests in the field of parasitology where conventional tests are inadequate. At the same time he supervises technicians who are responsible for performing the routine seriological tests that are part of the CDC’s function. They do this type of test for all the state health laboratories. He assists the technicians by designing and testing new automated equipment for these tests. Finally, he directs the research of graduate students working at the CDC for the Doctor of Public Health degree.”

“We started off with the same background as far as education is concerned. We both graduated with our Ph.D. from the same university—where we met. At that time, I was in radiation microbiology which was industrially oriented. He was in immunologic microbiology which was health oriented. We still have maintained those two paths within the field of microbiology and this gives us the ability to talk about the subject of microbiology and be able to understand what the other is talking about. At the same time, we are not in competition with each other because we are not in the same specific areas of micro,” she said approvingly.

“I find him a tremendous sounding board for administrative problems,” she confided. “He’s worked with personnel problems longer than I have because he’s been an administrator longer. And so I draw on his experience. Conversely, when it comes to what’s going on in modern teaching methods and university trends—areas in which he is interested in but with which he hasn’t much contact—I can discuss it more knowledgeably than he can.

“In effect, Tech gets two minds for the price of one.”





*Rushing home to her apartment during a late Saturday afternoon, Janice Gosdin assumes the pose common to all who must cross North Avenue.*

**Janice** A sense of humor and the ability to make quick and important decisions are not necessarily incompatible as this woman has shown often

Text by Robert B. Wallace, Jr.

Photographs by J. J. Owen, III

**J**ANICE GOSDIN is an extremely bright, chic young woman who in another time or another place might have been a nightclub comedienne or an actress portraying those ever-present *dumb blonde* roles. But her sense of humor, husky voice, and impish nature now serve only to disguise the fact that she is a deadly efficient, quick-thinking, decision maker. By her ability to constantly perform the complicated juggling act required in her job, she has served three Georgia Tech presidents in six years, a record unmatched in the annals of the Institute.

In her job, Janice Gosdin is a greeter of the public from all walks of life, a protector of the inner sanctum, a coffee maker and hostess, a reminder of meetings and conferences and appointments, an advisor on taste and decor, a crying post, a buffer zone, an editor, and a confidant to the most secret information on the Tech campus. It is another paradox in the make-up of this complicated woman that she is by nature a talker, almost the embodiment of the chatty female, yet she has never been known to break a single confidence or embarrass any of the men she has served by leaking information that could change the fate of a project or even the direction of the institution. Nobody has to tell her that something is confidential, she instinctively knows it the minute it is presented to her.

Currently in the 30th year of her life, Janice Gosdin suddenly finds herself completely married to her job, a state of affairs that she claims is definitely not permanent. She lives in Tech's Burge Apartments just across North Avenue from her office—a move she made last spring because the hours on her job had



## JANICE—continued

*In the midst of a busy morning, Janice discusses a problem with President Hansen as she catches him at her desk.*



begun to lengthen during the transition period under acting president, Dr. Vernon Crawford. She moved to Burge with the idea of staying only a couple of months since she had tendered her resignation at the same time as past president, Dr. Edwin D. Harrison. Both resignations were to be effective on June 30, 1969. But then Dr. Crawford asked her to stay to help during a most trying period for him. In May, Dr. Arthur G. Hansen was named Tech's seventh president, but before Janice Gosdin's letter of resignation had hit the file box, she was asked to stay on by the new president. She stayed on in Burge as the working hours increased because she liked the feeling of being just across the street when those crises hit during the non-office hours. Burge, now basically an apartment building for married students and their families, is by no means a luxury apartment complex of the type she lived in prior to her move. But her fine decorating hand and taste have made her apartment into a place with the absolute stamp of her personality.

Born and raised in the more-wealthy-than-most small Southern city of Newnan, Georgia, Janice Gosdin was one of those all-American girls on her way to college most of her young life. Her father was a local merchant and she came from a family so close that it almost seems a parody on a Norman Rockwell scene. To this day, Janice spends a great deal of her free weekends commuting back to Bowdon, Georgia, where her family now lives.

A gifted athlete, she was a swimmer, diver, basketball player, cheerleader, and tennis buff who was far more competitive than the rest of her female classmates. "Looking back at it, I think I probably missed a great deal that most girls enjoyed growing up because I was never the dependent or willy-nilly type," she now says. "I made decisions fast and stuck by them, right or wrong. Because of this, I usually dated athletic boys. I could beat all of the others at most everything and they didn't care for that. But I always knew I was a girl, even though I competed against men most of my life. I always liked fancy clothes and big hats and things like that."

*Although she spent her high*



school days, "having a good time and paying less attention to my studies than I should have," Janice Gosdin managed to graduate with honors, one of the top five in her class. She immediately entered Auburn University with no idea yet of what she wanted to do with her life. "But in three days I was so homesick my mother came and got me," she recalls. "I then entered West Georgia as a commuting student. That lasted just a week before I decided that the whole thing was ridiculous so I moved into a dorm. I stayed there two quarters and then went back to Auburn. This time I thoroughly enjoyed it, getting involved in my sorority and all kinds of campus life."

She remained at Auburn for three years until getting caught up in what she now refers to as "my emotional problem," a marriage that lasted exactly 13 months. During this period she lived in Newnan with her husband and taught school in a rural area on a temporary certificate. These two experiences, more than anything else, shaped her working life. "The teaching work shook me badly. I had been sheltered and didn't know about the rest of the world. And trying to convince these poor children of the need for education, in fact the obsession of education, was beyond me. I feel that I failed here just as I failed in the marriage. Marriage is supposed to be a 50-50 experience and both of us seemed unwilling to give our 50 per cent. We were just children playing at a game and that's all I intend to say about it except that it is past."

Following the divorce, she immediately returned to Auburn and finished in two quarters by taking overloads. "One quarter I had to appear before the deans to petition for 25 hours of workload, I was so anxious to get my degree. They didn't think I could carry it, but telling me that was a real challenge. It was one of my best quarters."

Now convinced that teaching and marriage were not her areas for the time being, she applied for a job at Tech and ended up as the receptionist in the president's office. She stayed in that job for two months and was promoted to senior secretary to work with the executive secretary, Betty Koenig. When Miss Koenig resigned (she is now secretary to the two top men at



*On her way out of the office to a meeting, Janice gives a final reading on a decision to student leader Tom Saylor.*



Atlanta Newspapers) she was moved into the executive secretary's position. "I didn't come here to be the executive secretary. That was the farthest thing in my mind. I just had to have a job. I'm not a secretary. I've told many people this. I've taught myself to be a secretary, and I still lack many of the top skills. President Harrison took a chance and taught me a lot. But this job isn't secretarial in nature, not what people think of as secretarial. Betty was good and taught me a great deal about this job. I might run it differently than she did, but she gave me the background to make the decisions.

"This job is never the same. You never know what is going to happen in a given day when you come to work. Maybe this is why I like it so much, this and the people who make up the campus. They're interesting. I doubt that I could ever be happy working in any other atmosphere but an academic one."

Janice Gosdin refuses to discuss the three men she has worked for individually except to say that she likes and respects all three. Any reference to the men as individuals brings out the philosopher in her. "If that man in there is not happy," she says, pointing at the closed door of the president's office, "I can't be happy. If he isn't doing his job then I am not doing mine. The better he does his job, the more valuable my position is. And I've got to make sure at all times that the decisions he makes are the best ones possible. This is where you apply experience to decision-making. All three treated me perfectly, yet all three treated me differently. When I am asked how I can switch loyalties so quickly, I can only say that I had faith in the men because they all trusted me. That's enough justification for me."

Even when she talks about future marriage, she insists that she will stay in the job if at all possible. "I haven't decided to get married or anything like that yet, but I have the feeling that I will try it again in a couple of years. As long as my husband remained in this area and didn't get transferred to another place, I would want to stay on this job if I could. This job is something special to me."

And that alone makes Janice Gosdin something special.



*During a relaxing moment at home, Janice makes a point in a discussion with some friends and her constant escort, Ben Spillers (right), and greets at a luncheon (below).*





# Margaret

A college president's wife has to be a number of things but not often is she a teacher and an associate director of a program

**M**ARGARET HANSEN was part of the package when the Board of Regents named Tech's seventh president last year. But the Institute could not have made a better selection for the position of first lady if it had gone out and conducted interviews. An open person who welcomes new opportunities to learn, she places her premium on living a full life and tackles any problem with intelligence, charm, and a genuine concern for the people involved.

Although she is one of the women in the man's world that is Georgia Tech, her situation is unique from those who study or work on the Atlanta campus. Unlike students and staff members, the role of first lady is obviously one that in no way places her in a position of potential competition with men. But Margaret Hansen is also a part of the world of work outside her home, and there the president's wife finds it a waste of time to worry about whether or not one is equal to the opposite sex. In fact, she can't understand why that should be an issue to women today.

She regards her own part-time work on a federal grant administered through the Medical College of Georgia as an opportunity to learn. If the occasion arose, she might well admonish the modern feminist: "Women are unique. It is this very fact that enhances their qualifications for some jobs." Of course, she also admits that masculine qualities make men naturals for others. She can't take seriously, for example, the predictions of a woman president in the seventies. "Although I have known a few very forceful women," she comments, "I have never met one who could give the impression of strength that a man can give."

Women today, she thinks, are finding satisfying niches—positions in which they have something unique





## MARGARET—continued

to give—in areas of social concern. For example, she says: “Young people are not the only ones concerned with urban problems.”

Margaret Hansen’s own professional training is in the field of public health. It was not her undergraduate major. Her first degree from the University of Nebraska was in home economics and institutional administration and management. When she enrolled in the major university of her native state, the former Margaret Kuehl felt no consuming desire to pursue a particular career. “The opportunity to attend college was there and so I took it,” she recalls. She worked only two years at Purdue University before marrying Dr. Arthur G. Hansen, in May, 1947.

During the next 15 years of her life, her predominant activities centered around the traditional feminine roles of wife and mother—gardening, sewing, PTA meetings, and an occasional art course on the side.

Later, when her five children were older and Dr. Hansen had completed his Ph.D., she decided to return to work and then finally back to school. She had, of course, the enthusiastic support of her husband and children. “I think the primary responsibility of a wife and mother is to sustain the aspirations of her husband and children,” she says. “But there comes a time when the husband’s career is launched in a particular direction and the children have grown older and developed interests of their own. This leaves the wife with more free time on her hands.”

After the Hansen family was established in Ann Arbor, Michigan, and Dr. Hansen had begun teaching at the University of Michigan in 1960, Margaret Hansen first returned to work part-time. But after two years in charge of the Student Union dining room, she began to look for a more satisfying type of work. This took her first into graduate study at Eastern Michigan University. She thought she would like to teach secondary school. Later, she transferred to the University of Michigan to study for the masters in public health nutrition because she says, “I felt I could not communicate with the adolescent.”

Margaret Hansen received the

degree in April of 1966, four months before the Hansen family moved to Atlanta and Dr. Hansen became Dean of the College of Engineering at Georgia Tech. Barely settled in their northwest Atlanta home, she was asked to substitute for six weeks in the department of home economics at Spelman College. The college asked her back in 1967 as a full-time instructor and promoted her to assistant professor in 1968.

By early 1969, however, she had

decided that full-time work was keeping her away from home too much. When an opportunity to work part-time in 1969-70 on a federally-funded project came up, she took it. This year, she spends Monday, Tuesday, and Wednesday of each week at the Medical College of Georgia’s Atlanta Center. The five-year project is designed to develop a model curriculum in nutrition for use in Georgia’s state supported nursing schools. She is associate director, and her particular





area of concern is the role of nutrition in nursing education curriculum.

Tech's first lady says that the job will require a full-time person next year, and since she does not have that much time to devote to it, she is keeping her eye open for another part-time position. Her idea of really satisfying work, she says, would involve counseling young mothers in nutrition. "My heart would be in work like that." The answer to the question why reveals a lot about Tech's seventh first lady: "I guess I'm trying to say that my main interest is in helping people live their lives to their greatest potential."

The goal is a basic one, transcending the particular situation. It also comes to light when she begins to talk of Georgia Tech. Since her closest neighbors are Tech fraternity men and since the muffled sounds of football and band practice make their way from Rose Bowl Field into her kitchen window, Tech is naturally a very part of her daily life. "You look at the incoming freshmen," she says, "and you hope that Tech will be able to help them find what they really want out of life."

When the annual race to build the biggest and the best homecoming display was in progress last fall, the Hansens paid a visit to their fraternity neighbors. Like one magazine editor from New York's Columbia University, she, too, was amazed at the amount of time and effort that students were willing to put into Tech traditions. "There is something very different, something unique, about Georgia Tech. We have felt it ever since we've been here. It's difficult to articulate, but there's a spirit, an attitude, here which just seems to become a part of you. You feel so proud and happy to be a part of it that at times you find yourself wondering that this should happen to you."

As Georgia Tech's first lady, Margaret Hansen found herself in what seemed to be a never-ending whirl of social events last fall quarter. During homecoming, which was dedicated to the president and his wife, the Hansens went through an 18-day stretch without a single meal at home. Their first opportunity came on a Thursday, the week before the president's inauguration. Mrs. Hansen, who was trying to make up time in advance in order

*In the early days of the changeover, Margaret Hansen goes over her social calendar with Janice Gosdin.*



to be off from work the following week, rushed home that afternoon just in time to meet an *Alumnus* reporter scheduled for an interview. The two immediately departed for Peachtree Street to pick up the family's dinner guest. The president had invited a young man whom he had met at a wedding some time before to drop in for dinner when he came to Atlanta. Obviously tired, but still unruffled, Margaret Hansen answered questions while dodging rush-hour traffic and later while preparing dinner.

Speaking of the just-finished 18-day stretch, she commented, "I feel a trifle guilty because we're not home for more evening meals with the family." The Hansens have five children. The eldest are daughters—Ruth, 21, and Christine, 19—both of whom have assumed responsibilities in the home when needed. Mrs. Hansen proudly talks of the semester when she was in school and Christine actually took over the complete management of the household. The Hansens' sons are Geoffrey, 17; Jim, 15; and Paul, 12. The eldest boys attend North Springs High School while Paul goes to Spring Street School. Ruth and Christine, both students at Georgia State University, no longer live at home, but share an apartment in northeast Atlanta. Ruth attends classes at night and works for a dentist during the day—she is on a two-year apprenticeship to become a dental hygienist. Christine, a day

student, recently transferred from Agnes Scott to go into psychology.

Painting and repapering was begun on the president's home last fall, and although she is still working at the Medical College of Georgia's Atlanta Center, Margaret Hansen is more occupied with the house now that the hectic fall quarter is over. With the help of a professional decorator, she is beginning to furnish it with good reproductions of period furniture. "My main concern," she says, "is to give the house a continuity in theme."

Also, she has been talking with the people in Tech's physical plant about the grounds around the president's home. Again, she plans no major changes, but says, "They have a list of the plants I like." Mrs. Hansen, who grew up on a farm in Nebraska, still enjoys getting up early in the morning "when the world is still quiet and you can hear the birds singing outside." She also likes to do some gardening herself. "I'm not a scientific gardener," she stresses. "I just like to have a little spot where I can work myself—I call it my picking flower garden."

Margaret Hansen is the lady whom the president of Georgia Tech says he married because she was pretty and vivacious and "I thought I'd like to share my life with her." She's also the lady who says, "When I die, I hope people will be able to say, 'she lived a full life.'" Chances are good they will. She's that type of person.



# Joene

Through the lens of her husband's camera, one student's wife emerges as a woman on a constant treadmill of wife, mother, and a working secretary.

Text by Robert B. Wallace, Jr.

**F**OR THE past four years Joene Owen's life has revolved around a husband who is a graduate student at Tech, a series of jobs on the Tech campus, and eventually two children. In this way she is not much different than the average Tech student's wife, a hard-working group who are living on a pay-now, enjoy-it-later basis.

Joene's husband, John Owen, who took the pictures on these pages, is a master's candidate in industrial engineering at Tech, who plans to go on for his Ph.D. He has a solid fellowship, a sense of where he is going, and considerable talent as a student and as a photographer.

John and Joene were married six years ago and lived in Savannah, where he worked full-time and attended night school. He switched to Tech in 1966 and Joene immediately

went to work on the Tech campus in the computer center. After her first child, Shannon, was born two years ago, she went back to work on the campus, this time in the library. She switched to the School of Industrial Engineering and stayed there until her daughter, Michelle, was well on the way. Soon after Michelle was born, Joene returned to industrial engineering, where she is now secretary to eight professors and researchers in a pool-type operation. She will be leaving again soon to have her third child, a situation which seems not to trouble her at all. "I hope that I don't have to go back to work again, after the baby is born," she says. But you get the feeling in talking to her that if she had to, it wouldn't bother her too much.

After John receives his degree and they are settled down, she wants to go

*In rare moments, Joene Owen plays ball with her son on the Tech front lawn, pays attention to her daughter (right center) or falls asleep with her.*





to college herself and eventually teach elementary school. It is obvious she loves children and equally obvious that she has a great distaste for "this rat race we are in," as she calls it. She has little time for herself or for her family under the present set-up with her working hours and cooking and house-keeping in Tech's Burge Apartments where they now live. Her only outside project is the Tech Dames Club, an organization of married students' wives which she currently serves as project chairman.

On these and the following pages, you can see through the eyes of her husband's camera just what Joene Owen goes through in a given day, an experience she shares with hundreds of Tech wives who are helping their husbands through college. It is a group with a great common bond, willing to give up much for the satisfaction of helping their men get that degree. The day he does, each of them will receive a "Mistress of Patience" degree herself, which may be as earned as any of the "real" degrees they hand out at the Fox Theater every June.

Photographs by J. J. Owen, III





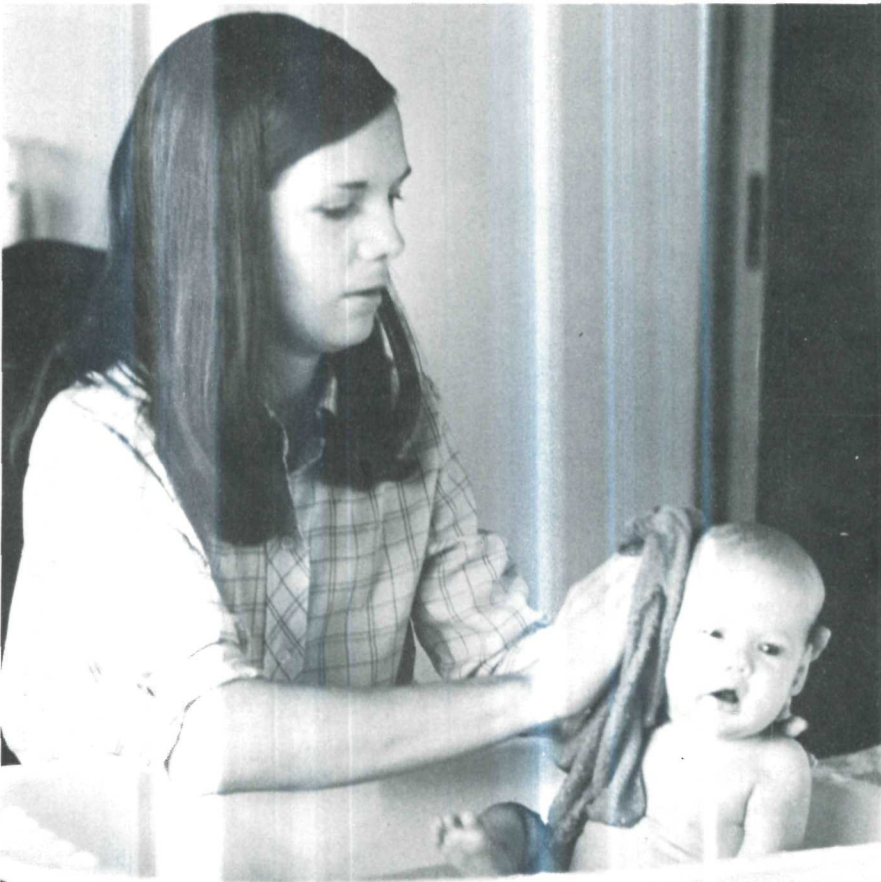
**JOENE—continued**

Her day starts before the dawn and ends long after nightfall and she has little time for any frills in her life,

*Joene's mornings are moments of deadlines as she must feed the baby (below), cook breakfast for the two men in her life, load the children in the car, and get them to the nursery (right) in time to get to her office by eight o'clock.*



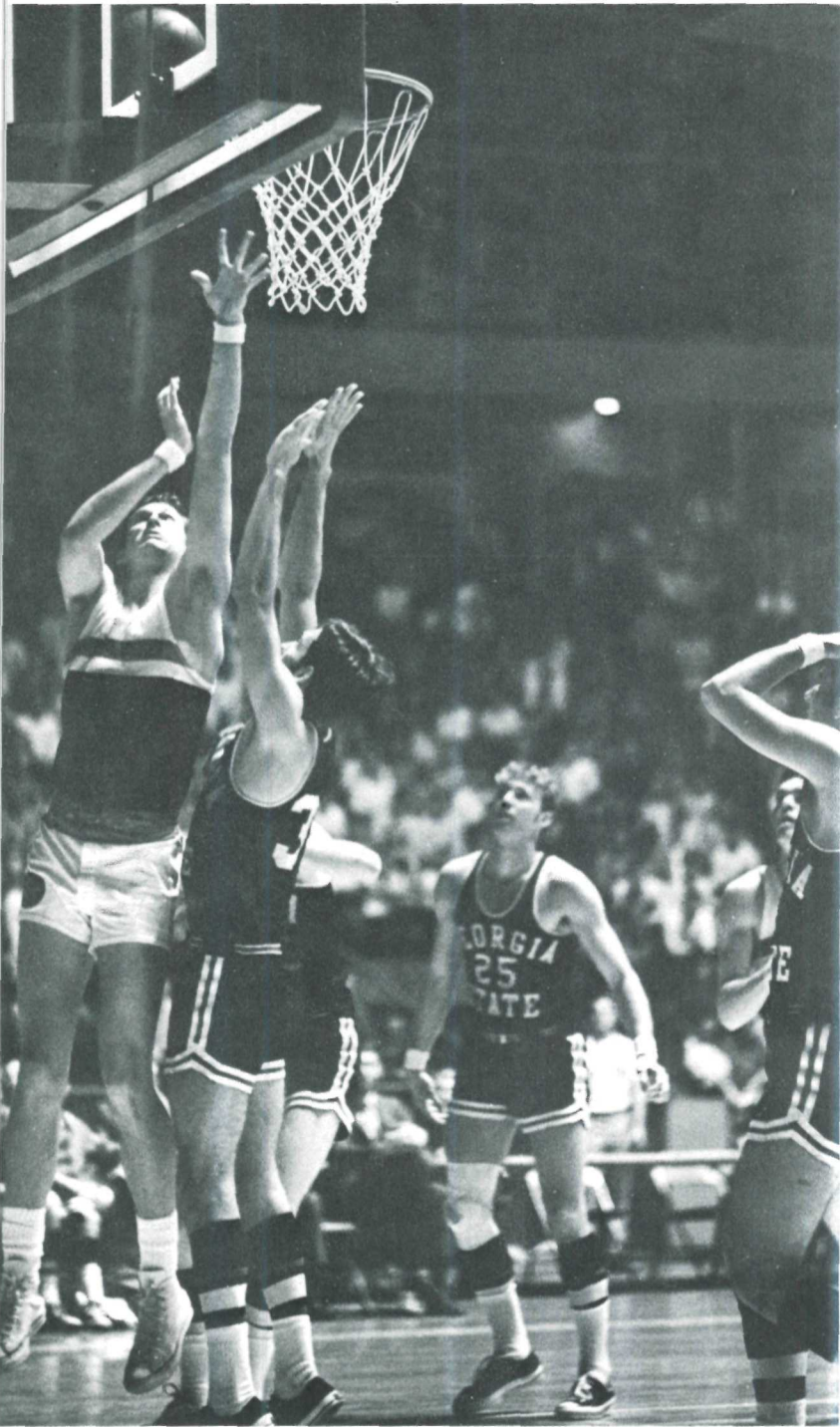




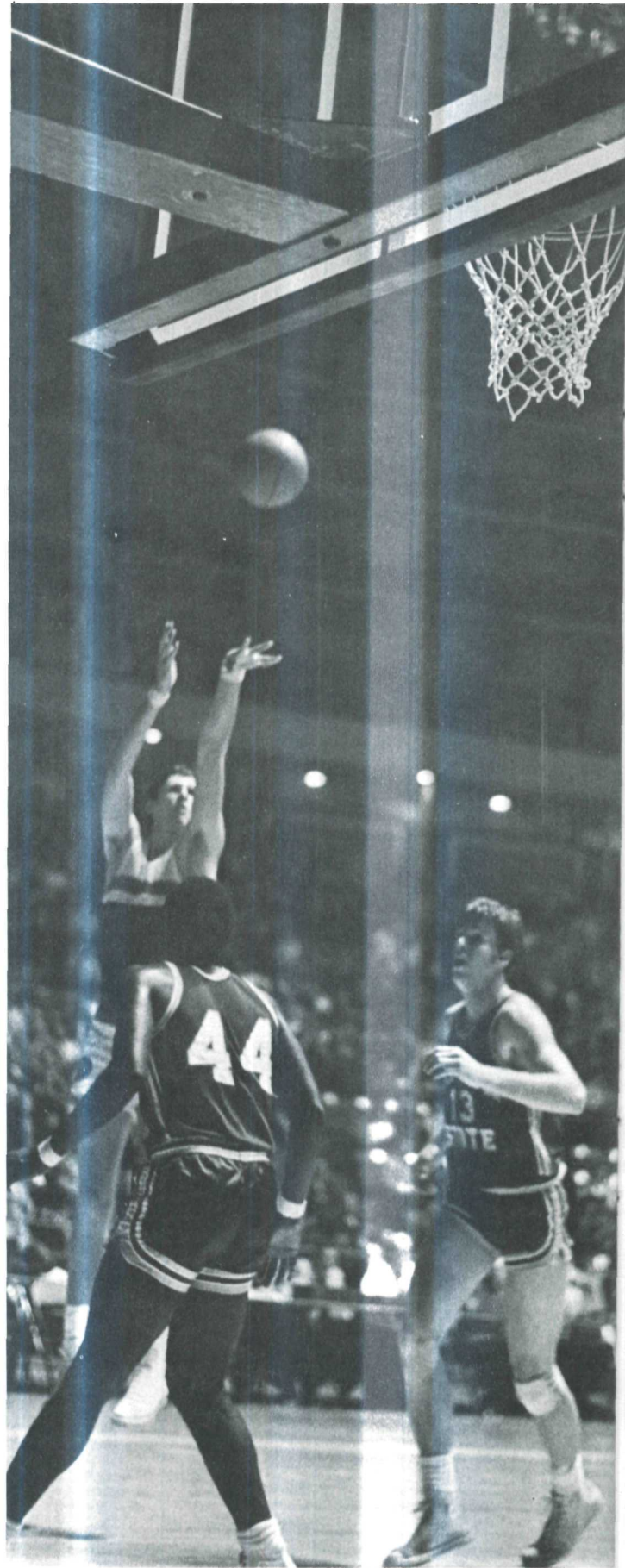
*As a typist for a group of professors in the Industrial Engineering School, Joene is kept busy (top left) until she gets home in the evening when she cooks and then washes the dishes.*

*Following the clean-up of her apartment, she then bathes the baby and gets the children to bed before settling down for a few minutes of discussion about the day's activities with her husband.*





*Yunkus can drive inside, as he is doing above against Georgia State, shoot outside as he shows against Florida State in the Atlanta game, or rebound with the best of them as he indicates in the Southern Illinois game at the right of the page opposite.*





If you don't think one man can make a great deal of difference in a basketball team you should see

## Rich Yunkus and his marvelous upset machine

• WITH just two games remaining in the season, Rich Yunkus, Tech's 6'-9½" junior center passed the 30-points-a-game-average mark, the first Jacket to ever reach that plateau. He had already broken most of Roger Kaiser's records and was a cinch to wipe them all out of the books except for free-throw percentage before he graduates next year. But Rich Yunkus is not in the game to break records, his main aim in playing the game is to win and because of him, an average Tech team has a sparkling 16-8 mark, including back-to-back upsets of N.C. State and North Carolina, two of the top ten teams in the nation and an NIT bid.

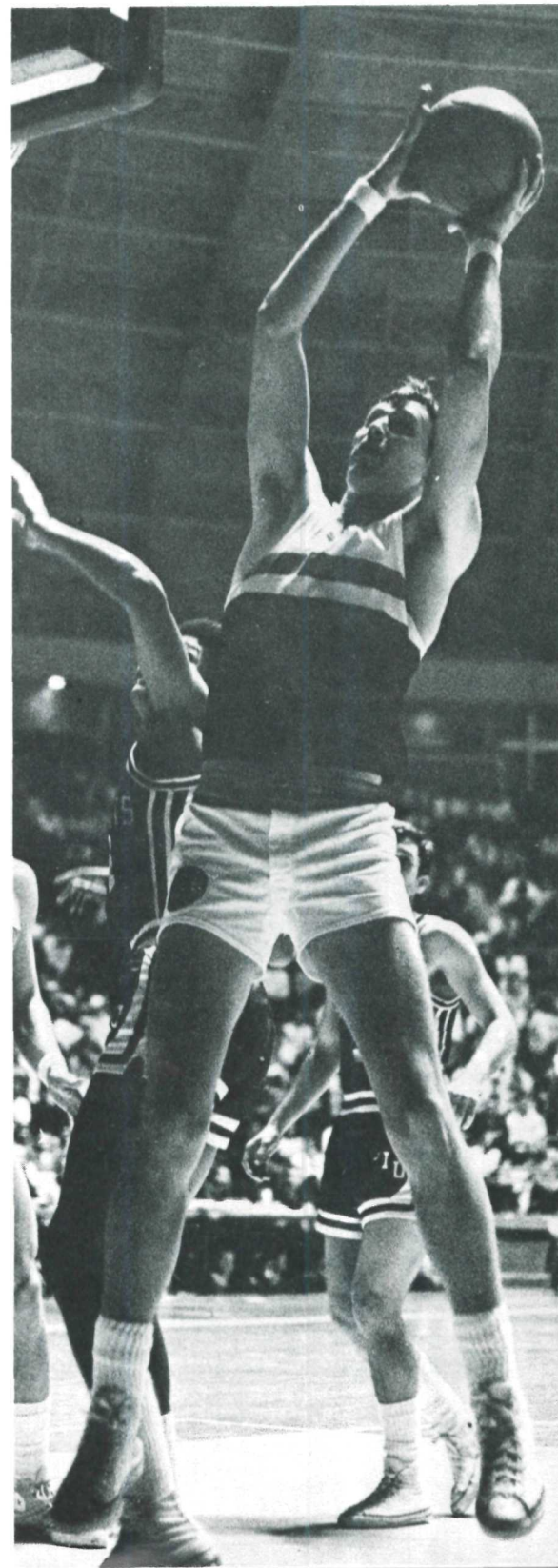
Following that pair of wins in which he scored 27 points and grabbed 20 rebounds against the Wolfpack on Friday, February 13 (89-77) and, 24 hours later, threw in 47 points to give the Jackets its 104-95 victory over the Tarheels, Yunkus produced 40 points in limited service against Georgia State in a 101-62 Tech win and another 37 in the 80-97 loss to Florida State in Tallahassee.

In several games during the season, the Jackets stayed in the game until the final minute or two only to come up short at the wrong moment. The lack of sharp-shooting guards hurt Tech all season but, despite this, Tech was only whipped badly twice

all year—by FSU and by UCLA (90-121). The other scores to date with Tech's scores first are Virginia 72-49, Georgia 92-80, Oklahoma City 68-54; Rice 87-57, Southern Methodist 66-77, Samford 97-76, Indiana 65-87, Southern Illinois 100-71, Clemson 96-84, Tulane 78-72, Furman 88-61, Auburn 86-74, Clemson 78-88, Florida State 83-89, Ohio State 71-74, Air Force 51-48, Georgia 69-74 and Pittsburgh 92-62.

Yunkus' ability to rally his team mates by his own unselfish and spectacular performances is shown by the fact that Tech whipped two of the top ten teams they played during the season and came very close to doing the same thing to FSU at home in an earlier game that was up for grabs until the final 30 seconds. The Jackets still have Jacksonville, another of the elite group, to tackle in the Coliseum in the season's finale on February 26, and only FSU has beaten Tech at home this season.

Regardless of the season's record, this Tech team has managed more mileage on less overall talent than any Whack Hyder and his assistants have produced in recent history. Next year may be even better with some strong freshmen coming up to help the miracle maker from Benton, Illinois and his playmaking guard Jim Thorne in their final season.

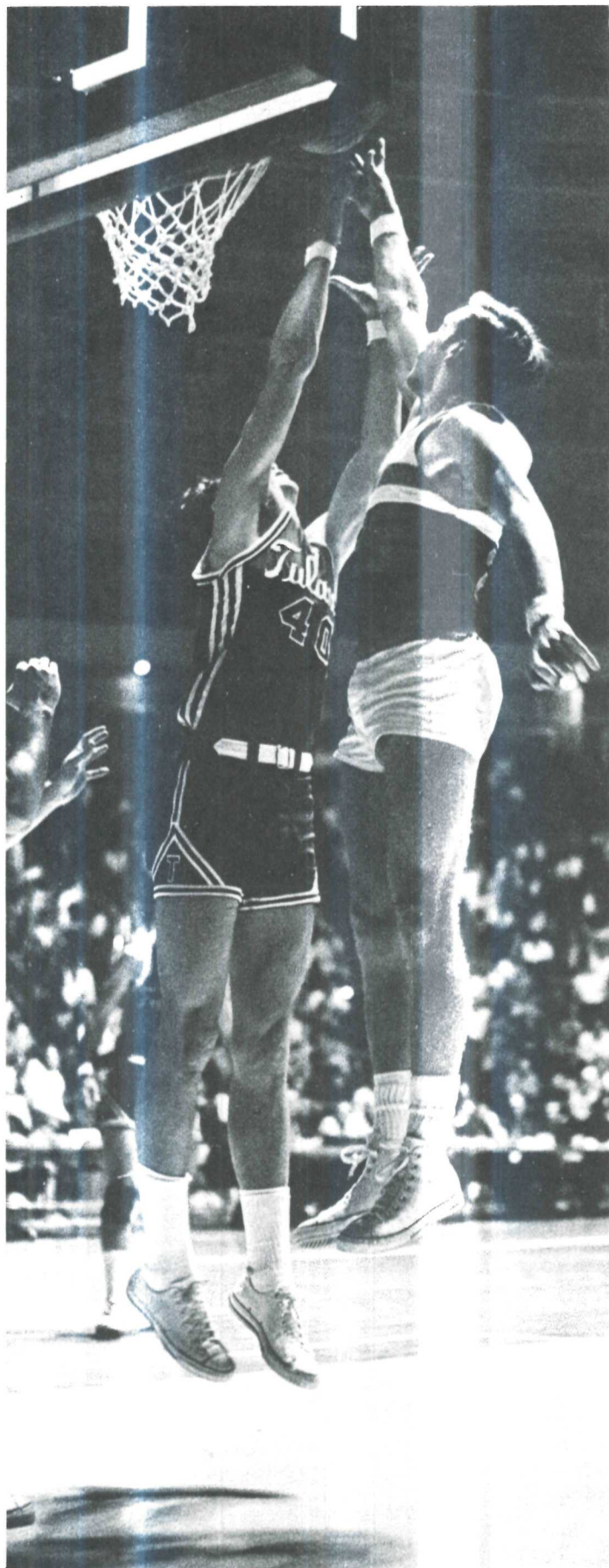
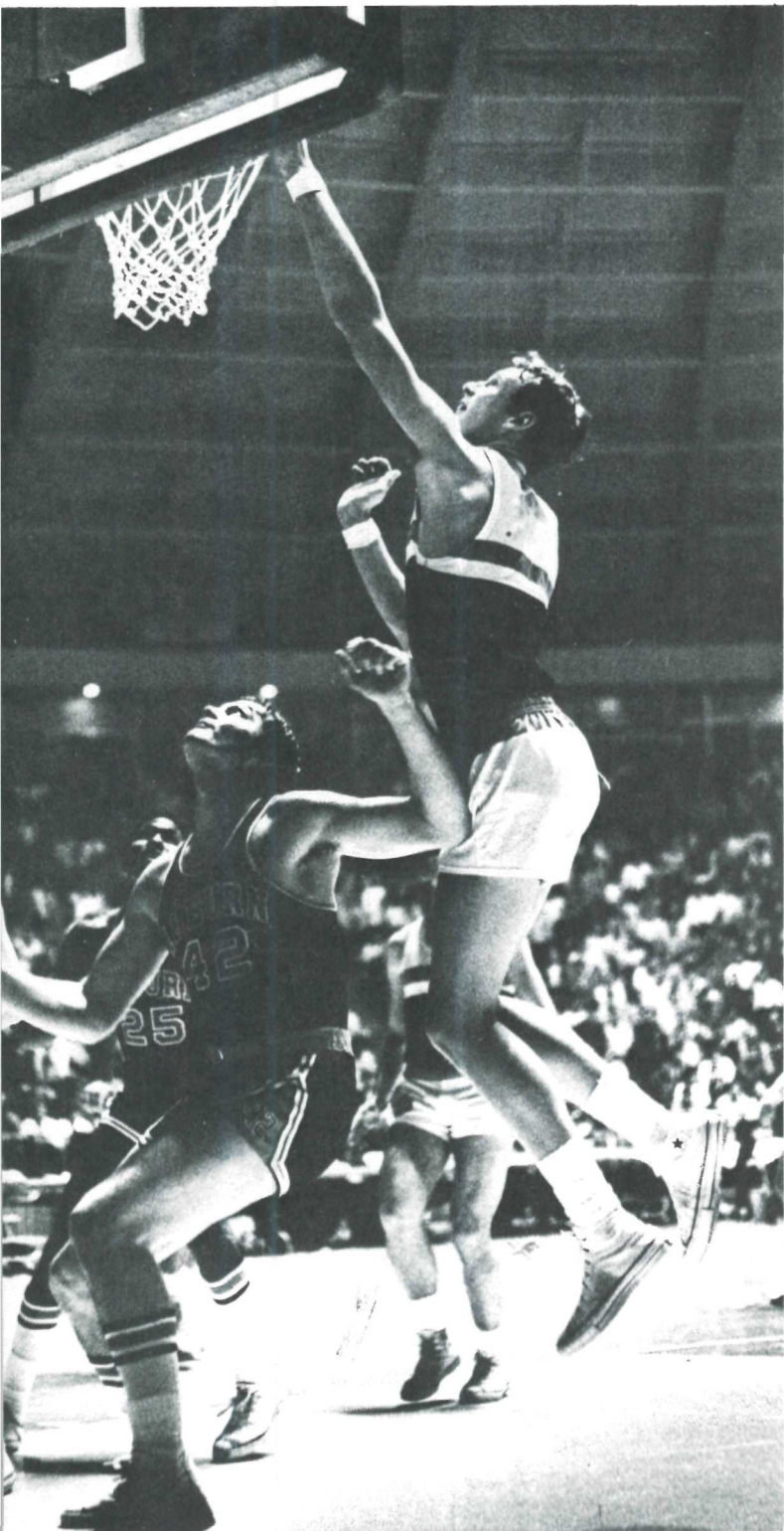


• THE 1969-70 Georgia Tech basketball team beat Tulane on February 23 and immediately received a bid to play in the National Invitational Tournament in New York's Madison Square Garden during mid-March. Tech, one of the first four selected for the 16-team field, whipped the Green Wave in New Orleans for the first time in eight years, 86-76 behind Rich Yunkus' 32 points. The following Thursday, Yunkus was absolutely magnificent in defeat, pouring 36 points against Jacksonville, the country's number six team, in the 81-86 heartbreaker. Yunkus, who hit 26 in the first half, took Tech off the court leading the nation's biggest and highest-scoring team, 47-41. But the Dolphins put a box and one zone on him and held him to a single field goal in the second half.



**YUNKUS—continued**

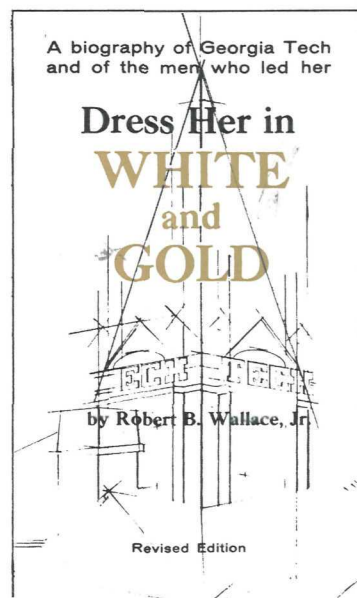
*The major consistent help during the season has come from forward Bill Mayer shown below driving for two points against Auburn and playmaker Jim Thorne who drives for a pair in the Tulane game in Atlanta.*





# Best-selling Biography of Tech is completely updated

*DRESS HER IN WHITE AND GOLD*, a best seller in the Atlanta market during 1963 and 1964, has now been completely revised and updated. The new version, available in both paperback and hardback, contains new chapters on the resignations of Bobby Dodd and President Edwin D. Harrison, the hiring of Bud Carson and President Arthur G. Hansen, the new expansion program, and the new student attitudes plus all of the other things that have happened on the campus since 1963. Atlanta Constitution sports editor Jesse Outlar said of the new version, "When Bob Wallace wrote 'Dress Her in White and Gold' it was an excellent book. The revised and enlarged edition makes even more interesting reading." Sports editor Furman Bisher of the Atlanta Journal called it, "New and interesting in books . . . an updated second edition including some more than interesting addenda." You may order your copy now by filling in the coupon below. You will be billed upon delivery. Prices include taxes and postage.



## Should be required reading

"A fine account of worthwhile things which happened on the campus. By no means a dry chronology of events but a running story of the trials and triumphs of a growing school and the characters who made it so."

*The Atlanta Journal-Constitution*

## An unusual history of an unusual school

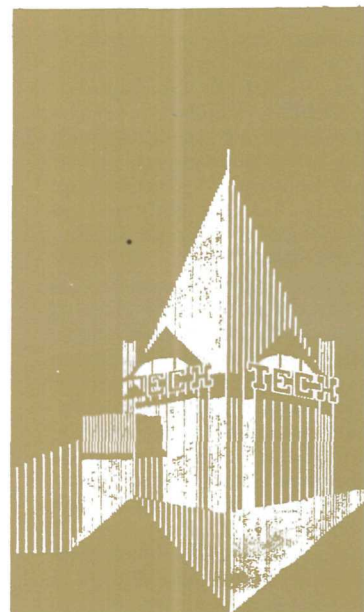
"The erudite editor of the *Georgia Tech Alumnus* has done a fine thorough job of giving Tech's over-all history."

*The Chattanooga Times*

## History with more than specialized appeal

"With a good sense of the narrator's skills, an eye for drama and humor, and, without sentimentality, a deep feeling for the institution and the men who made it, he writes a book that one (if such might be imaginable) who never before heard of Tech would enjoy."

*Atlanta Magazine*



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# Georgia Tech Journal

A digest of information about Georgia Tech and the alumni

## Help for Latin American

Georgia Tech's Industrial Development Division (IDD) has received preliminary acceptance of two contracts for economic development assistance in two Latin American countries. Proposals for work in two other Latin countries are in the discussion stage.

IDD will provide technical assistance and services to the University of Carabobo in Valencia, Venezuela, over a one-year period, beginning in February, 1970. The work will be a continuation and expansion of activities which IDD began in that country in March 1968.

The Office of Industrial Development which IDD helped establish at the University of Carabobo will receive counseling from IDD senior staff personnel on procedures for implementing its proposed development program. Richard Johnston, of the IDD staff, will leave for Venezuela in February for a three-month period to assist in long-range planning for the University Library System and to help establish an Economic Development Library.

Also spending three months in Valencia will be Eric A. Newsom, Jr., and Dr. Ramon Gamoneda, of Georgia Tech's College of Industrial Management. Newsom will make the trip in May to advise on regional and community development activities, and Dr. Gamoneda will go in July to aid in identifying manufacturing opportunities for the area and in preparing feasibility studies.

Also in July, Ross W. Hammond, IDD chief, and Nelson C. Wall will present the Second Seminar on Regional Development.

Georgia Tech also is contracting with the Agency for International Development, U. S. Department of State, to provide guidance and counsel to the government of Paraguay in its program of technical assistance to undeveloped areas of the country. IDD will send two bilingual specialists in regional economic development to Paraguay to assist in the creation of regional development organizations and to involve the communities in the selected areas in the economic develop-

ment process. Each man will stay in Paraguay for a 10-week period, beginning in March 1970 with a visit by Nelson C. Wall, IDD.

Negotiations are in progress between IDD and the Monterrey Institute of Technology, Monterrey, Mexico, for the joint organization and staffing at Monterrey of a regional economic development center proposed for a period of three years. The center would provide training and research relating to optimum development of the natural, man-made, and manpower resources of the region.

In addition, Brazilian officials have contacted IDD about the possibility of providing counseling service to the Technological Institute of the State of Pernambuco. This would involve advice and assistance in training technicians, in conducting economic research, and in establishing a regional economic development activity and information center.

## NE School Evaluates

### A New Source of Nuclear Energy

Georgia Tech has signed a contract to be used by Tech professors in teaching with the Atomic Energy Commission to evaluate the potential use of a new man-made radioactive material as a source of nuclear energy for educational purposes.

Because of its spontaneous fission and the fact that it has a relatively long half-life of 2.65 years, californium-252 is expected to provide schools which do not have a nuclear reactor with a source of neutrons for teaching and for some research purposes.

In fact, according to Dr. Carlyle J. Roberts, director of Tech's School of Nuclear Engineering, "There will be certain applications for which californium 252 will be better suited than a reactor." As an example, he points to research being conducted by two Tech students in neutron radiography, a process using neutrons to make the internal structure of an object visible. This project has potential application in industry, but to be practical, a portable source of neutrons would be needed. Californium-252 opens up the possibility of such a portable neutron radiography kit.

In addition to its use by Tech students in research, californium-252 will be used by students about basic atomic processes, and a comparison to the use of the reactor in teaching will be made. Tech has a large 1000-kilowatt nuclear reactor and a small 100 milliwatt reactor as well.

Californium was first discovered in 1950 by University of California scientists at Berkeley. Since that time, eleven radioisotopes, with mass numbers ranging from 244 through 254, have been discovered.

The first macroscopic amounts of californium-252 were produced in the Materials Testing Reactor at the National Reactor Testing Station in Idaho.

The 100 micrograms which Georgia Tech will receive will be fabricated by the Atomic Energy Commission's Savannah River Plant near Aiken, South Carolina. According to Dr. Roberts, the californium-252 will be contained in a metal capsule approximately 1-1/2 inches long and 1/2 inch in diameter.

## Computers in the Classroom

The School of Chemistry at Georgia Tech has received a \$7,700 National Science Foundation grant to evaluate the use of a computer in freshman chemistry classes.

According to Dr. Peter B. Sherry, who will direct the project at Tech, a total of ten schools will be participating in the National Science Foundation's program in "On-Line Computer Network for Chemistry Education."

Terminals installed in each of nine schools will be connected to specially-designed IBM 360/75 located at the University of California at Berkeley. While Dr. Sherry's group at Georgia Tech is evaluating the use of this computer in freshman chemistry classes, the other institutions involved will be considering some other aspect of its use in chemistry education.

The other schools involved are Beloit College, Florida State University, Louisiana State University, the University of Minnesota, University of Missouri, University of Pittsburgh, Reed College, and Washington State.



Dr. Sherry expects to receive the terminal by the middle of February and hopes to be able to use it with a freshman class by the fall of 1970.

### Here Comes the Bride —Via the "Critical Path"

Industrial engineering techniques won't guarantee that your bridesmaids' dresses will be the right color, but they can bring order out of chaos when the time comes to plan your wedding, according to Joni Horwitz, a Georgia Tech graduate student.

Mrs. Horwitz, who is studying for a masters degree in industrial and systems engineering at Tech, bases her observation on experience. Her June, 1969 wedding included all the trappings and was planned in complete compliance with the latest methods used by professionals in her field.

The idea first occurred to the former Miss Joni Steinberg while in the last semester of her senior year as a mathematics major at the University of Miami. In fact, it originated as a class project for a course in industrial engineering.

The students in the class were studying project management by using the "critical path" method which was originally developed in connection with maintenance and construction work, and then altered for extensive use in the space program. These techniques, it is now recognized, can effectively be used to plan and carry out almost any complex project. It took a woman in a predominantly male field, however, to put it to work in social events.

While her male classmates were planning projects in various areas of construction and business operations, Joni was deciding to kill two birds with one stone. She had a wedding coming up in June, and time for planning it and completing class projects, too, was difficult to find.

"The professor required that we select a project that would involve between 30 and 50 interrelated activities that all led to our ultimate goal," she said. Joni's list of things to be done before her final goal of saying "I do" on June 15 totalled 59.

Her professor approved the project; so armed with a list of activities and their interdependences (she couldn't have her wedding gown altered until she had ordered and received it, etc.), she was ready to make up her critical path network. With this done, she was then able to estimate the amount of time it would take to accomplish each activity, and then using the network she could determine the earliest and latest allowable start and finish dates for each activity in her project.

The beauty of it was, says Joni, that "we always knew exactly where we were on any given day just by checking the list."

Of course, Joni's first critical path network could not take into consideration such unforeseeable events as the delay of the couple's passport for their European honeymoon, the miscount of the guest list which resulted in a shortage of invitations, or the clerical error which sent them the wrong material for the flower girl's dress.

Delays caused by these errors upset the carefully planned schedule, of course, but presented no reason to panic. When such a thing occurred, Joni simply returned to her critical path network, revised it, and got another computer printout of activities and dates for performing them.

Both the bride and her groom, who is now a dental student at Atlanta's Emory University, are enthusiastic about the critical path method, and Joni says she will definitely plan her next involved social event that way. She is also in the process of setting up a wedding planning service for other harried brides. Now working out the details for such an operation, she has coined the name, "Co-Wed," and registered it as the trade name for her proposed business.

In spite of her certainty about the value of using critical path methods and computers, however, Joni is still a bit puzzled about one thing. She's not quite sure what her professor meant when next to the A on her paper, he wrote: "Don't slip on the critical path."

### Lectures on Technology

Tech's Callaway Professor of the History of Technology, Robert S. Woodbury, is delivering a series of nine public lectures in his specialty this quarter.

Billed as "Technology and Man: Some Historical Aspects," the lectures began January 9 with a look at technology in ancient Egypt. Other lectures, scheduled for each Friday of the winter quarter at 1:30 p.m., are following technological development in the Roman Empire, the Middle Ages, the Renaissance, and the modern world. Professor Woodbury's final lecture will deal with "Technology and the Economy: the Future of Industrialization."

A graduate of the Massachusetts Institute of Technology and Harvard University, Professor Woodbury joined the Tech faculty in the fall of 1969 as Fuller E. Callaway Professor of the History of Technology. He had taught at MIT since 1929 before coming to Tech. While at MIT, he gave invited lectures at a number of international symposia and has been a prolific writer in his field.

The public lecture series is free of charge and is sponsored by the Social Sciences Department and Tech's newly-created Program for the Study

of the Impact of Science and Technology. Tech students attending the lectures will have the option of receiving one hour credit by passing an examination at the end of the series.

### Students Address Legislators

Tech's Interfraternity Council presented "Drug Symposium 1970" before a combined session of interested representatives and senators Thursday, January 29.

As invited guests of Senator Culver Kidd, the students' presentation was the keynote address for his campaign introducing new legislation in drug control.

The idea for a drug symposium originated at Tech last fall when a group of fraternity men led by Charlie Shaefer thought that perhaps high school students might be more inclined to listen to someone their own age.

After seeking training from professionals in the medical, legal, social and psychological aspects of drug use and abuse, the Tech men started a program at the local high schools discussing what they had learned.

The program was soon endorsed by Governor Lester Maddox and at present the symposium has been presented to over 15 high schools and numerous civic and professional groups.

### Scholarship Winners

Tech students in electrical engineering and industrial management have won this year's campus-wide competition for two Crown-Zellerbach Foundation scholarships.

William Thomas Anderson, an electrical engineering major from Buckhannon, West Virginia, and Gerald Reid Downey, Jr., a senior from Tucker, Georgia, majoring in industrial management, received the \$600 awards for 1969-70.

Nominations of students who are outstanding both academically and in extracurricular activities are made annually by school directors for this award. Six of these are then selected for submission to the Foundation which makes the final selection.

The Crown-Zellerbach Foundation, which was incorporated in 1952 in California, makes funds available for general purposes in the fields of education, community welfare, health and rehabilitation, and international understanding. The Crown-Zellerbach Corporation is the Foundation's major donor.

### Extracurricular Courses

Connoisseur 101, Understanding Classical Music, and Rediscovering the Bible are just three of the 12 extracurricular courses which Tech students are studying this quarter.



## Faces in the News



**William A. Maddox, '27**, has established his own structural design consulting firm under the name of W. A. Maddox, Inc. He retired as manager of steel fabrication for the Cincinnati Milling Machine Co. last July.



**Jorge L. Divino, '34**, has been promoted to associate professor at the University of Texas. He has been in the School of Architecture there since 1961. Prior to then, he was a practicing architect and taught at the University of Havana.



**McDonald S. Nelson, '34**, has been appointed manager of National Lead Company of Ohio. An electrical engineering student at Georgia Tech, Mr. Nelson has been with the firm since 1942.



**Arthur F. Perkins, '35**, has assumed the vice presidency for physical distribution at International Paper Co. Mr. Perkins moves into the newly created operation from the position of vice-president, manufacturing.



**Roy Richards, '35**, has been elected to the boards of directors of the First National Holding Corp. and the First National Bank of Atlanta. Mr. Richards is president of Southwire Company, Carrollton, Ga.



**Chauncey W. Huth, '36**, who has held key management and administrative posts at Redstone Arsenal since 1952, has been named deputy director of administration and technical services. He was formerly director of the facilities office.



**Haines H. Hargrett, '40**, has been elected president of Fulton Federal Savings and Loan Association. Mr. Hargrett, who is also a director of Fulton Federal, joined the Association in 1957 following five years as a partner in an advertising firm.



**Alfred H. Guritz, '47**, is the new assistant plant manager for the Armstrong Cork Co.'s Macon plant. Mr. Guritz has been with the firm since he graduated from Georgia Tech.

## Tech—continued

They are free, non-credit courses offered by the Tech Free University, which is sponsored by the Student Government Association. The classes are conducted by Tech faculty or staff members on a voluntary basis.

The Tech Free University was launched in the spring of 1968, according to Lee Wallace, President of the University's Board of Trustees. A group of students at that time wanted to provide a lecture series to arouse interest in the presidential election.

Free University-type courses were initially offered in the winter of 1969, based on surveys of student and faculty interests. Since that time between four and five hundred students have been making the trip to the SGA office each quarter to sign up for the free, non-credit courses.

"The Free University makes courses available which students can't get in the regular curriculum," Wallace explains. In fact, the Free University will not offer a course which is already a part of the school's regular curriculum.

As an added attraction, Free University courses have no tests, give no grades, and classroom activities are centered around informal discussions. "This is an ideal setting for student-faculty exchange," Wallace continues. "Students and professors meet on the basis of common interests without pressure for grades."

### New Appointments at IDD

The Industrial Development Division has announced the appointment of two new research engineers—Luis T. Gutierrez and Gaston A. Parets—to the International Development Services staff.

Gutierrez is responsible for administration of IDD's industrial development training and internship programs for Latin American students and staff members of development institutions in Central and South America. For the past five years, IDD has offered a series of 13-week internships at its Atlanta headquarters for Latin American development professionals, in cooperation with the Agency for International Development.

Parets will be participating in IDD projects of assistance to Latin American educational institutions and development organizations. This service involves sending IDD staff members to foreign countries to aid in establishing industrial and economic development programs.

Other activities of IDD's International Development Services section include collection of resource data on Latin American countries and identification of manufacturing opportunities, import sources, and export markets in Latin America for Georgia business and industry.

A native of Havana, Cuba, Gutierrez received his bachelor's and master's degrees in systems engineering from the University of Florida. Before coming to Tech, he was on the engineering staff of the IBM Corporation at Cape Canaveral, Fla., where he performed systems analysis work.

Parets also was born in Cuba, and is a naturalized citizen of the United States. He received a bachelor's degree in industrial engineering from the University of Miami and a master's in business administration from Georgia State College. He previously was employed at the Hapeville, Ga., plant of Ford Motor Company as a manufacturing process engineer.

Both men are members of the American Institute of Industrial Engineers.

## NEWS OF THE ALUMNI

**'03** Mr. Charles F. Stone, former president of Atlantic Steel Company, died January 25, 1970 in Atlanta after a long illness. He was an honorary member of the ANAK Society. He is survived by a son and a daughter, six grandchildren and six great grandchildren.

**'05** Thomas A. Lambert, EE, died on December 1. He retired as a marine engineer in 1952 from the Norfolk Naval Shipyard. He later joined the John J. Hart Com-

pany, an Atlanta electrical engineering firm where he retired shortly before his death.

Goodloe H. Yancey, co-founder and chairman of the board of Yancey Brothers Company died January 3, 1970. Mr. Yancey headed up the oldest Caterpillar Tractor Company in the U. S. Mr. Yancey was a generous supporter of Georgia Tech and an honorary member of ANAK. He is survived by a sister and his widow who resides at 315 Valley Road, NW, Atlanta.



- '07 *Berryman T. Longino*, EE, died on November 29, 1969.  
*Mr. George T. Marchmont*, EE, died at his home on January 7, 1970. Mr. Marchmont, a lifelong friend of Georgia Tech, was a past-president of the Georgia Tech National Alumni Association, a founding trustee of the Georgia Tech Foundation, an alumni member of the Athletic Board and an honorary member of ANAK. In 1961 Mr. Marchmont received the Alumni Distinguished Service Award from Tech President Edwin D. Harrison. Mr. Marchmont spent 44 years with Graybar Electric. Among his survivors are his widow, who lives at 6811 Inwood Road, Dallas, Texas 75209; a son, George T. Marchmont, Jr., '46; and three daughters all married to Tech alumni.
- '08 *Louis B. Wilcox* died on January 18. Mr. Wilcox served as an engineer during the construction of the Panama Canal and afterwards headed his own engineering and construction firm in Baltimore. His widow resides in Athens.
- '09 *Walter Lee Adamson*, ME, died on January 16. His widow resides at 512 McMillan Avenue, Birmingham, Alabama 35211.
- '14 *Carl Epps*, ME, died June 10, 1969.
- '15 *Robert A. Clark*, EE, died in Macon, Georgia on November 17, 1969. Mr. Clark, before his retirement, was regional vice-president of the General Electric Supply Company, covering the southeastern and southwestern divisions. Before moving to Macon, he was a civic and business leader in Atlanta. He is survived by two sons and his widow, who resides at 2948 Malvern Hill Drive, Macon, Georgia 31204.  
*Maurice M. "Scrappy" O'Sullivan* died on October 22, 1969. Mr. O'Sullivan is retired vice president of Southland Coffee Company. He is survived by his wife, who resides at 3497 Piedmont Road, NE, Atlanta.
- '16 *John W. Walcott*, Arch, of Baltimore, Maryland died on January 19, 1970.
- '17 *Harold E. Montag*, ME, died November 26, 1969. Mr. Montag retired as president of the Montag Company, Inc.—"Blue Horse" school supplier. His widow resides at 3248 Nancy Creek Road, Atlanta, 30327.
- '19 *Albert B. Hill*, ME, died October 13, 1969. He retired about five years ago from the presidency of the Black Star Coal Company, Pineville, Kentucky. He is survived by his widow and a son, Albert B. Hill, Jr., IM '58.
- '21 *James O. Dyal*, CE, died on October 20, 1969.  
*Mr. Calvin S. Hayes*, EE, died September 18, 1969.  
*Stanley Warner*, ME, died September 9, 1969. He was retired chief engineer and head of research at Chattanooga Royal Company.
- '22 *M. D. Belding*, ME, died recently. His widow resides at 7100 Rotherwood Drive, Knoxville, Tennessee 73919.  
*Fred L. Bowyer*, ME, died on November 11, 1969.  
*Col. W. E. Dobbins, Jr.*, died on October 5, 1969.
- '23 *Ivar H. Granath* died in late 1969 at his home in Fruit-hurst, Alabama. Mr. Granath wrote the words to Georgia Tech's "Alma Mater" back in 1922. He has been a most loyal alumnus over the years.  
*J. Thad Watters*, CE, died October 31, 1969. Mr. Watters was retired vice-president of Aluminum Company of America.
- '24 *C. Elliott Health*, ME, died on September 11. Mr. Health is survived by a widow who resides at 211 Naccochee Drive, NW, Atlanta.  
*George Mercer Poole*, realtor and insurance executive, died in Atlanta November 10, 1969. Mr. Poole was known for his development of the Oglethorpe Apartments and for industrial development in the Sandy Springs area. His career began with Adair Realty in 1924.
- '25 *William H. Bloodworth*, EE, was a victim of hurricane Camille, August 17, 1969. Mr. Bloodworth formerly was a consultant to the General Electric Company in Norwalk, Connecticut. His widow, Madeline, lives at 794 West Beach, Pass Christian, Mississippi 39571.  
*Eugene Bryant*, died on September 11, 1969 of a heart attack.  
*Robert G. Daniel*, CE, died on New Year's Day. Mr. Daniel resided in Millen, Georgia.  
*Hooker E. Pepper*, CE, died on November 6, 1969. Mr. Pepper was president of Frances Pepper, Inc. His wife resides at 3827 Eastover Drive, Jackson, Mississippi.  
*W. Homer Turner*, ME, has retired from the U. S. Steel Corporation after 31 years of service.
- '26 *Estelle Elizabeth Allen*, Com. died December 2, 1969. Miss Allen was an assistant registrar at Georgia Tech for 42 years.  
*Hal Lafayette Smith*, Com, was honored at the National Automobile Dealers Association convention, in Miami, Beach, Florida.
- '27 *W. Mose Childs*, agency manager of Metropolitan Life Insurance Company, has recently retired after 37 years of service. He and his wife will continue to reside in Avondale Estates, Georgia.  
*Francis L. Kaestle*, EE, died on October 28, 1969.
- '28 *Estill E. Ezell*, CE, patent attorney, has changed his address to Kingsland, Rogers, Ezell, Eilers & Robbins, Suite 2162, Pierre Laclede Center, 7733 Forsyth Blvd., St. Louis, Missouri 63105.  
*Julian Harris*, Arch, professor at Tech and a sculptor of note, had an exhibit at the Atlanta Memorial Arts Center for three weeks. The exhibit covered 35 years of sculpture. His work is part of more than 50 buildings in the southeast.
- '29 *William Acton*, died early in January. Mr. Acton owned the Acton Camera Shop in Birmingham, Alabama. His widow resides at 2134—21st Avenue, South, Birmingham, Alabama 35223.  
*C. C. Cayce*, TE, died on November 2, 1969.  
*Burton Cloud*, Com, has resigned as vice president of marketing services for Auto-Solar Company of Atlanta to enter consulting work.  
*Melvin Hill*, died recently. He is survived by his widow who resides at 11442 East Rich Circle. Mr. Hill was owner of Melvin T. Hill Insurance Agency.  
*Eugene F. Tate*, GE, died on September 3, 1969.
- '30 *Robert Lee Fulghum* died on December 13, 1969.
- '32 *F. A. Harper*, Chem, died January 10. Mr. Harper was production control superintendent of the polyester plant at Beaunit Fibers of Elizabethton.  
*Jasper W. Hart*, TE, died December 5. Mr. Hart was an auto salesman in Atlanta. His widow resides at 3200 Lenox Road, NE, Atlanta.
- '33 *Ralph O. Elliott*, Com., died October 15, 1969.  
*Frederick J. Walter* died recently. Mr. Walter was retired from Provident Life and Accident Insurance Company where he was a medical underwriter. His widow resides at 3608 Lake Vista Drive, Chattanooga, Tennessee.
- '34 *Maj. Gen. Ian M. Davidson*, CE, was given a special retirement ceremony at Ft. McPherson on December 17, 1969. Gen. Davidson had



## Faces in the News



**Richard C. Atchley, '48**, has joined Hoover Ball and Bearing Co. as general manager of Aluminum Extrusions, Inc., Charlotte, Michigan. He was formerly with the Vendo Co. of Kansas City, Missouri.



**O. R. (Dick) Collier, '48**, has been named manager of the Engineering Design Quality Program at McDonnell Aircraft Co., St. Louis, Mo. Before accepting the newly-created position, Mr. Collier was with the Lockheed-Georgia Co.



**Joe T. LaBoon, '48**, is the new vice president—operations for the Atlanta Gas Light Company. In the new position, he is responsible for construction and operation of gas distribution systems, service work, and gas supply.



**Francis R. Montgomery, '48**, has been appointed vice president, engineering, of Hawaiian Electric Company. This was the second promotion for Mr. Montgomery in 1969. He was moved from engineering design manager to executive engineer last May.



**Richard N. Bowling, '50**, is the new general manager for the metal recycling division of Reynolds Metals Company. The new division was formed last December. Mr. Bowling has been at Reynolds for the past ten years.



**R. J. Stripling, Jr., '51**, has assumed the vice presidency for marketing at the Phillips Fibers Corporation. He moved into the new position from that of director of textile marketing.



**Richard W. Tannehill, '51**, has been appointed area sales manager for the new Kansas City, Mo., area sales office of B. F. Goodrich Chemical Company. Mr. Tannehill joined the company in 1951.



**C. Raymond Faircloth, '52**, has been promoted to director of yarn manufacturing for the knitwear division, Hanes Corporation. He joined Hanes last June as director of engineering.

## Alumni—continued

commanded the 81st Infantry Division since July 1, 1964 and assumed command of the 108th Division (training) on February 10, 1966. He is a principal member of the General Staff Committee on Army Reserve Policy. Gen. Davison is employed by the American Mutual Liability Insurance Company in Atlanta.

**Howard B. Johnson, Com.**, has relinquished his position as board chairman of Atlantic Steel Company effective January 1. He will continue as a director of the company.

**Lt. Col. Paschal E. (Pete) Redding, ChE**, took part in an Army Night Program on January 16, 1970 at Redstone Arsenal, Alabama, where he introduced Chief of Staff, General William C. Westmoreland. He in turn, received an "Award of Merit."

**'35 Roy W. Murphy**, died November 15. His widow resides in Emily, Minnesota.

**T. T. Williams, Jr.**, died on August 13, 1969 of a heart attack.

**'36 Daniel W. Hudgings, EE**, died on December 4, 1969.

**Chauncey W. Huth, ME**, of the Marshall Space Flight Center staff was recently cited by the National Aeronautics and Space Administration with a Medal for Exceptional Service in connection with his work relating to the successful manned lunar landing last July.

**Donald B. Salmon, ChE**, vice president of Hoke, Inc., died November 30. Mr. Salmon was a past chairman of the board of the Midland Bank of New Jersey and a trustee of the North Jersey Cultural Council. His widow resides at 244 Glenwood Road, Englewood, New Jersey 07631.

**'38 N. C. Harrison, Jr., IM**, has joined the Marketing Research Department as manager of Departmental Operations of the Coca-Cola Company.

**'39 R. Floyd Sewell, EE**, died recently. Mr. Sewell was traffic facilities administrator for Southern Bell Telephone & Telegraph Company. He is survived by his widow and a son who reside at 1800 Saxon Place, NE, Atlanta.

**C. Clifton Smith, Jr., EE**, has been named vice president, marketing, of K. W. Battery Company, a wholly owned subsidiary of Westinghouse Electric Corporation.

**'40 Paul Decker, Jr., IM**, died November 24, 1969. Before his retirement he was associated with Carter Building & Supply. His widow

resides at 1329 North 12th Avenue, Laurel, Mississippi.

**Delbert Van Fletcher** has been appointed manager of the newly combined accounting and planning division of the DuPont Company's Industrial and Biochemicals Department.

**H. H. Hargrett, IM** has been promoted to president of the Fulton Federal Savings and Loan Association of Atlanta.

**Irvin M. Massey, IM**, has been elected 1970 president of the Georgia Chapter of the Society of Chartered Underwriters.

**'42 L. D. Jolley, Jr., IM**, vice president of commercial loans of the National Bank of Georgia died January 12. He received his master's degree from Harvard Graduate School and was also graduated from Emory Law School. He is survived by his wife and two daughters who reside at 2717 Spicer Lane, Decatur.

**David H. Newby, EE**, of the Marshall Space Flight Center staff was recently cited by the National Aeronautics and Space Administration with a Medal for Exceptional Service in connection with his work relating to the successful manned lunar landing last July.

**Robert Winburn Sherard** died January 11. Mr. Sherard was superintendent of engineers for Southern Bell Telephone & Telegraph Company. His widow resides at 3290 White Castle Drive, Decatur, Georgia.

**'43 Claude H. McIntosh, ChE**, has been appointed manager, Commercial Development of the Texaco research center at Beacon, New York.

**'44 M. J. Osborne, EE**, has been promoted from chief engineer to director of engineering of Bowaters Southern Paper Corp. He will have broader responsibilities in engineering matters, including work with the woodlands organization, Hiwassee Land Company.

**'45 Oscar Waldkirchs, EE**, has been transferred to E. I. DuPont Company, Cape Fear Plant. The Waldkirchs reside at 1912 Hillsboro Road, Wilmington, North Carolina 28401.

**'46 John C. Mayson, ME**, has been named Atlanta Division vice president for Atlanta Gas Light Company.

**Malcolm T. Stamper, EE**, received recognition in the October 27, 1969 issue of *Newsweek*. Mr. Stamper headed up the development of Boeing's 747 from its beginning. Mr. Stamper, vice-president of the Everett Branch, is



directing the assembling of the 747 in the largest single building in the world. It encloses 160 million cubic feet.

'47 *William J. Barr, Jr.*, IM, died on October 29.

*William E. Ehrensperger*, ME, has been named vice president of Georgia Power Company. Mr. Ehrensperger is manager of the company's construction department.

'48 *Kenneth M. Brooks*, IE, has been transferred to the Doraville, Georgia plant of General Motors Assembly Division as plant manager.

*James E. Coleman, Jr.*, IM, announces the formation of the law firm of Carrington, Coleman, Sloman, Johnson, & Blumenthal located at 1950 Mercantile Dallas Building, Dallas, Texas 75201.

*Donald E. Moore*, IE, recently was promoted to the rank of captain in the United States Navy. He is presently assigned as executive officer aboard the attack aircraft carrier, USS Independence.

*James D. Murphy, Jr.*, IM, president of American Buildings Company, Eufaula, Alabama, has been elected to the Young Presidents' Organization, Inc., an educational organization with an international membership of 2,500 young, successful chief executives who have become presidents of sizable companies before the age of 40.

*Walter Ward, Jr.*, died November 22. Mr. Ward was a real estate agent. His widow resides at 2713 Glen Eagle Drive, Tucker, Georgia.

'49 *Capt. John W. Cronin*, IM, is serving as commanding officer of Naval Air Intelligence Unit W-1 at NAS, Willow Grove, Pennsylvania. He is general agent in Philadelphia for Connecticut Mutual Life Insurance Company.

*Mr. Cecil S. Flenniken*, ME, has accepted the position of assistant manager of manufacturing for the primary mills of Canadian International Paper Company in Montreal.

*Joel Murphy*, IM, died in an automobile accident on October 29, 1969. Mr. Murphy was a district manager of Southern Bell's Brookwood Division. He is survived by his wife and two sons who reside at 543 Heyward Circle, Marietta, Georgia.

*Manley E. Porter*, EE, is now employed with the Defense Supply Agency as electronic engineer.

*John A. Preston*, IE, has formed a company, Preston Associates, Management Consultants for the metalworking and manufacturing fields. The new company is located at 2 Office Park Circle, Birmingham, Alabama 35223.

*Joe Roberson*, IE, has been named president of AMAM Aluminum Ex-

trusion Products, Inc. in St. Charles, Illinois.

*Russell B. Watson*, IM, of Tyler, Texas has been appointed by Governor Preston Smith to serve on the Board of Regents of Texas State Technical Institute.

*R. C. West*, CE, was elected to the board of directors of Sverdrup & Parcel and Associates.

'50 *Paul Aronin*, IE, has been elected national president of the Alpha Epsilon Pi Fraternity.

*Rev. Curtis C. Goodson*, EE, is on furlough from Brazil. He will be based in Miami from December 15 to March 1. His address will be 2269 SW 17 Street, Miami, Florida 33145.

*Don Lee Killgore*, ME, died on January 9, 1970. His widow resides at 3074 Hamilton Road, Decatur, Georgia 30032.

'51 *Leo Benatar*, IE, has been named general manager of Beverage Packaging of Mead Packaging.

*Emmett Chupp, Jr.*, EE, died October 12. Mr. Chupp was a department manager of Lockheed Nuclear Products. He is survived by a widow and three sons who reside at 3611 Oakmont Avenue, Doraville.

*USAF Lt. Colonel James R. Firebaugh, Jr.*, is on duty at Nakhon Phanom Royal Thai AFB, Thailand.

Born to: *Mr. ('51, IE) and Mrs. ('59, Text) H. W. Kruse*, a daughter, Karen Phoebe, on November 2, 1969. The family resides at 7617 Decatur Street, Fayetteville, North Carolina 28303.

'52 *John L. Ciprari*, CerE, has been promoted to regional sales manager for the Reynolds Metals Company Mill Products Division in the six-state Southern Region. He and his family reside at 3945 Sheldon Drive, NE, Atlanta.

*Louis Collins*, Text, has been elected a vice president of Beaunit Corporation and is general manager of the Polymer Fibers Division of Beaunit Fibers. He and his family reside at 4707 Oak Park Road in Raleigh, North Carolina.

*Robert S. Divine*, IM, has been appointed group vice president of Fuqua Industries, Inc. Mr. Divine will be responsible for the Atlanta-based company's shelter and agricultural group of subsidiaries, consisting of Stormer, Rome Industries, Trojan Seed Company, Varco-Pruden and Fuqua Homes.

'53 *Dr. Arthur Buckner, II*, IE, is now an associate professor in the Industrial Engineering Department, Louisiana State University in Baton Rouge.

*Robert C. Dedricks*, IM, has been promoted supervisor in industrial fabrics marketing.

*Frank L. Lamb*, Text, has been promoted to lieutenant colonel in the USAF. Col. Lamb is a safety advisor to the director of safety, Republic of Korea Air Force.

*Eugene E. Lorenz*, IM, has been transferred from Miami, Florida to the position of branch manager of the Atlanta Metal Service Center of J. M. Tull Metals Company.

*Harold C. McKenzie*, IE, has been named vice president of Georgia Power Company. Mr. McKenzie is executive counsel.

*Carlton Owens*, IM, has joined the Converted Plastics Group of W. R. Grace & Company at Duncan, South Carolina. He will hold the position of manager of manpower development.

*Jack Patterson*, IM, has been elected to the board of directors of the Petroleum Equipment Institute. PEI is an international trade association for manufacturers and distributors of equipment used in petroleum marketing operations.

*Preston Stevens, Jr.*, BS, is the 1969 winner of the highest award presented by the North Georgia Chapter of the American Institute of Architects—the Ivan Allen, Sr. trophy. Stevens was cited for his "service to the community" as a member of the Atlanta and Fulton County Joint Planning Board, a member of the Housing Resources Committee and for his work to strengthen and improve sign ordinances in Atlanta and Fulton County. Stevens was also installed as vice president and president-elect of the chapter.

'54 *USAF Maj. Bobby G. Albritton*, IE, is on duty at Nha Trang AB, Vietnam. He is a C-123 Provider cargo-troop carrier pilot with a unit of the Pacific Air Forces, headquarters for air operations in Southeastern Asia, the Far East and the Pacific area.

*Walter W. Ballew, Jr.*, Text, has been promoted to eastern district sales manager for Military and Special Sales Division of the Gillette Company. He and his family reside at 12814 Mt. Royal Lane, Fairfax, Virginia 22030.

*Robert M. Carlson*, ME, has been promoted to manager, Manufacturing Engineering at Western Electric, Columbus, Ohio.

*Zeno G. Lyon, Jr.*, EE, is sharing a cash award from International Telephone and Telegraph Corp. for developing radio antenna systems for submarines.

*Henry M. Plummer, III*, IE, has joined the Sprague Electric Company as corporate manager of manpower standards and controls.



## Faces in the News



**Jack L. Williamson, '54**, has been appointed southeastern regional manager for Kearney, a division of Kearney-National, Inc. He was formerly with the Line Material Co./Power Systems division of McGraw Edison.



**Charles K. Cobb, Jr., '56**, has recently formed a real estate firm specializing in industrial and investment properties. The firm, Charles Cobb & Associates is located in Atlanta. Mr. Cobb was admitted to the Georgia Bar several months ago.



**P. F. (Porter) Dobbins, '56**, has moved into the position of director of marketing at the Lockheed-Georgia Company. Dobbins, who received the masters in industrial management at Tech, joined Lockheed in 1951.



**Theron D. Jennings, '56**, has been appointed vice-president and administrative assistant to the president at Southwire Co. in Carrollton, Ga. Mr. Jennings, an IM graduate, also received the LLB from Woodrow Wilson School of Law.



**W. A. Atchison, '59**, has moved up the ranks at Delta to vice president computer services. He had been assistant vice-president-computer services since October 1967.



**Dr. Nazar S. Aprahamian, '60**, has been promoted to the position of research scientist in the research and development department of Union Carbide. Dr. and Mrs. Aprahamian are living in West Nyack, New York.



**John G. Hunter, '60**, has been named finance division manager of AMR International, Inc. The division offers a series of financially-oriented seminars and related programs. He was formerly with the American Stock Exchange.



**Gordon E. Johnson, III, '60**, is now vice president and technical assistant to the president at Southwire Company. He has headed the company's advanced planning section since joining Southwire in March, 1965.

## Alumni—continued

**Chappell V. Rhino, IM**, a sales representative in Charlotte for Johnson & Johnson's Baby & Proprietary Division, was among the outstanding salesmen honored at a manager's meeting and planning seminar in December.

**Sydney V. Stern, ChE**, assistant manager, Process Engineering Department, Continental Oil Company, Ponce City, was graduated in December from the Program for Management Development for the Harvard University Graduate School of Business Administration.

**Frank A. Strickland, Text**, died in a plane crash on December 9, 1969.

**'55 Elton D. Davis, IM**, has been appointed Southern operations manager of the Honeywell, Inc. Institute of Information Sciences, a new service of the company's Electronic Data Processing division.

**Thomas Loucas** has joined Potter Instrument Company, Inc. of Plainview, New York, as national sales manager. He will be responsible for the field and systems throughout the U. S. and Canada. He and his family reside in Darien, Connecticut.

**Dr. F. N. Morcos, Arch**, director of Structural Studies of Architecture, Liverpool University, has been appointed professor of Architecture at Strathclyde University, Glasgow.

**Cecil R. Phillips, IE**, has been named manager, textile systems and operations research for Kurt Salmon Associates, Inc. management consultants to the textile and apparel industries. He will continue to be located in KSA's office in Atlanta.

**Richard A. Rainieri, Text**, is now commander, Supply Corps, USN. On January 28 he began study at the Logistics Management, Air Force Institute, Wright-Patterson AFB.

**Army Col. Ralph A. Starnier, EE**, received the Bronze Star Medal during ceremonies near Long Binh, Vietnam.

**Marshall J. Wellborn, ME**, has been elected a vice-president of the First National Bank of Atlanta.

**'56 USAF Lt. Colonel Richard A. Barron, IM**, has been decorated with his second award of the Distinguished Flying Cross and the Bronze Star Medal for action in Southeast Asia.

**Burt Grant, IM**, has been promoted to manager of district operations for Carolina Power Light Company in Southern Pines, South Carolina.

**William S. Linginfelter, Jr., IM**, has been named manager of the Brunswick office for Atlanta Gas Light Company.

**Maj. Michael H. Hull, IE, U. S.**

Army received his MBA degree from the University of Washington in Seattle on August 22, 1969. Major Hull is now assigned to the U. S. Army Combat Development Command Transportation Agency, Fort Eustis, Virginia.

**Richard Moran, CE**, has been appointed as the Austin Company's district engineer in the southeast district with headquarters in Atlanta.

**Maj. Graham D. Monroe, Jr., CE**, has earned the Bronze Star with "V" device for valor in ground combat in Vietnam.

**'57 Dr. Everett M. Hughes, IM**, is now doing a residency in radiology at the Medical University of South Carolina in Charleston. He and his family reside at 26 Murray Hill Drive, Charleston.

**Roy J. Kemp, IM**, died in December, 1968.

**Donald Q. Kendrick, IE**, has been promoted to plant industrial engineer at Bethlehem Steel Corporation's Burns Harbor plant in Chestertown, Indiana.

**Maj. Edward D. McDowell, Jr., IE**, is on duty at Udorn Royal Thai AFB, Thailand. Maj. McDowell is an F-4C Phantom II reconnaissance aircraft commander with the 14th Tactical Reconnaissance Squadron, a unit of the Pacific Air Forces.

**Lt. Col. Fletcher E. Meadors, IE**, died November 15. Col. Meadors was a veteran of World War I & II and the Korea conflict. His widow resides at 4903 River Basin Drive, Jacksonville, Florida 32207.

**Daniel B. Rather, IE**, has been appointed a vice-president of Pope and Carter, Inc., Atlanta real estate brokerage firm.

**Robert M. Strain, IE**, received a Master of Science degree in Applied Mathematical Statistics from the Rochester Institute of Technology in June, 1969.

**'58 Maj. Joe Brown, IE**, is in his third year as assistant professor of mathematics at the U.S. Military Academy, West Point, following a year's tour of duty in Vietnam. He will receive his 2nd Master's Degree in June from NYU in Operations Research and is on the outstanding list for promotion to Lt. Col. He will report to Ft. Leavenworth, Kansas, in August for the ten months Command and General Staff School.

**Jack Chastain, EE**, was appointed principal engineer by the board of directors of Scientific-Atlanta, Inc.

Born to: **Mr. and Mrs. T. Jackson Elrod**, a son, Todd Jackson Elrod, December, 1969.

**William N. Hollman, Arch**, has been promoted by the Portland Cement Association to Ohio managing engineer of the Great Lakes region. He and his



family reside at 6605 Guyer Street, Worthington, Ohio.

**Robert H. Ledbetter, Jr.**, IM, is serving as a design engineer in plant engineering with the Monsanto Company in Decatur, Alabama.

**Herman I. MacDonald, Jr.**, AE, has received the Commander's Award for Exceptional Service at the U. S. Army Aviation Material Laboratories.

**Beirne M. Prager, Jr.**, IM, has established Professional Computer Systems, Inc., at 1116 Sterick Building, Memphis, Tennessee. Mr. and Mrs. Prager and two daughters live at 266 Pinewood, Memphis, Tennessee.

**Maj. Jack G. Remson**, IE, a procurement officer at Aeronautical Systems Division of Wright-Patterson AFB, Ohio, has been awarded the first through seventh oak leaf clusters to the Air Medal for meritorious achievement in aerial flight over Southeast Asia. Maj. Remson was also awarded the Distinguished Flying Cross.

**Richard H. Wright**, ME, has joined the Atlanta firm of Edwards and Rosser, Inc., Consulting Engineers. He will be in charge of mechanical engineering services.

'59 **Lowell W. Barfield**, IE, has been promoted to the staff of International Paper Company's Southern Kraft Division Manufacturing Department. Mr. Barfield will reside in Moss Point, Mississippi.

**Arthur Wayne Berry**, IE, has joined Therman Frok Engineering Company as a partner which is a manufacturer representative for about four brands of air conditioners. His present address is 942 Farmington Drive, Richmond, Virginia.

**J. Donald Brock**, BC, is now with the West Kentucky Mental Health Association. He and his family reside at 810 Guthrie Drive, Murray, Kentucky 42071.

Engaged: **William Franklin Graham**, IM, to **Mallie Ellen Beroth**. Mr. Graham is employed as an engineer with Factory Insurance Association in Atlanta.

Born to: **Mr. and Mrs. Byron Y. Hill**, ChE, a son, **Scott Sperling Hill**. Mr. Hill is a project engineer for Union Carbide. Mr. and Mrs. Hill and their three children reside at 834 Wildwood Circle, Albans, West Virginia 25177.

**Mr. ('51, IE) and Mrs. ('59 Text) H. W. Kruse** announce the birth of a daughter, **Karen Phoebe**, born November 2, 1969. The family resides at 7617 Decatur Street, Fayetteville, North Carolina 28303.

**James E. Sawyer**, BS, has taken office as director for District 10 of the American Society of Civil Engineers.

**Robert L. Snapp**, IM, has been named Rome division sales manager

for Atlanta Gas Light Company. Mr. and Mrs. Snapp and their daughter reside at 109 Coker Drive, in Rome.

Born to: **Mr. and Mrs. Alan R. Weinberger**, AE, a daughter, **Donna Michelle**, November 21, 1969. Mr. Weinberger is now a member of the Technical Staff of TRW Systems in Houston. They reside at 18100 Nassaw Bay Drive, Apt. 77, Houston, Texas 77058.

'60 **Fred J. Aaron, Jr.**, IE, has joined Hutchins, Mister & Parkinson as a voting stockholder and director. He and his family reside at 15 Northgate Rd., Wellesley, Massachusetts.

**Lt. Col. Phillip L. Bolte** has received his second award of the Legion of Merit at the U. S. Army War College, Carlisle Barracks, Pennsylvania.

Born to: **Mr. ('66, EE) and Mrs. ('62, EE) Randy Clark** a daughter, **Patricia Louise**, December 31, 1969. Mrs. Randy Clark is the former **Vivian Hipsley**.

**Lynn D. Colquitt**, ME, has been relocated to Nashville, Tennessee as the director, Nashville Training Center, Avco-Economic System Corp.

**Donald Erlenkotter**, CE, has completed the requirements for a Ph.D. degree in Management Science from Stanford University. He has returned recently from a three year assignment as capital projects analyst with the Agency for International Development in New Delhi, India, and is now assistant professor of operations management in the Graduate School of Business Administration, University of California, Los Angeles.

**James T. Ford**, ME, of El Congrejo, Panama, vice president and general manager of Polymer Extrusion, S. A., was graduated in December from the Program for Management Development of the Harvard University Graduate School of Business Administration.

Born to: **Mr. & Mrs. William Moore Graves**, a second child, **William Moore, Jr.** Mr. Graves, vice-president of Management Science America, is in charge of the New Jersey, New York, and Washington office.

**Dr. Louis J. Grimm**, Math, is an associate professor of mathematics at the University of Missouri.

Born to: **Mr. and Mrs. Fred L. Hinckley**, EE, a daughter, **Krist Lynn**, on December 26, 1969. Mr. Hinckley was promoted to supervisor in Poseidon Systems Engr. department LMSC in July, 1969. He and wife and two children reside at 1071 Rembrant, Sunnyvale, Calif. 94087.

**H. Russell Powell**, ME, and **Hart-rampf & Associates**, Mechanical Consulting Engineers announce the formation of a partnership—**Hartrampf, Powell & Associates**, of Atlanta.

'61 Adopted: **Mr. and Mrs. Ernest R. Anderson**, EE, a son, **Brent**. Mr. Anderson is a senior member of the technical staff for Xerox Data Systems. The family resides at 1008 Cleermont Drive, SE, Huntsville, Alabama 35801.

Engaged: **Daniel H. Bradley**, IM, to **Miss Judith Fessey**. Mr. Bradley is associated with the Bradley Plywood Corp. and Dixie Plywood Company in Savannah, Georgia.

**Irving E. Figge**, AE, has received the Director's Award for Technological Achievement at the U. S. Army Aviation Material Laboratories.

**Army Lt. Col. Edward P. Lukert, Jr.**, AE, received the newly established Meritorious Service Medal at Carlisle Barracks, Pennsylvania.

**Whitney C. O'Keefe**, IE, has been promoted to group vice-president, Trust Company of Georgia.

**Lt. Robert L. Porter**, Phys, has been assigned as navigator on USS Inchon (LPH-12) amphibious assault ship, under construction at Ingalls shipbuilding division, Litton Industries, Pascagoula, Mississippi.

**Thomas M. Turner**, IE, has completed his initial training at Delta Air Lines' training school at the Atlanta Airport and is now assigned to the airline's Atlanta pilot base as a second officer.

**Army Maj. Larry T. Walker**, IM, has received the newly established Meritorious Service Medal at Schofield Barracks, Hawaii.

**Louis E. Watts**, ME, has been appointed sales engineer for the Bobst Division of Bobst Champlain, Inc.

**Robert D. Weathers**, IM, senior partner in the firm of Weathers, Hinton and Associates, has been awarded the coveted Chartered Life Underwriters Designation at National Conferment Exercises of the American College of Life Underwriters.

'62 **John Pierce Brewster**, IM, has been designated a Chartered Life Underwriter, of the American College of Life Underwriters. Mr. Brewster resides in Atlanta.

**Glenn P. Elliott**, ChE, is now scientific consultant in the scientific systems department, industry marketing, NCR, Dayton, Ohio.

Married: **Soren Kim Engel**, IM, to **Miss Kirsten Tesdorpf** in Denmark. Mr. and Mrs. Engel will reside in Copenhagen, where he is director of Vitrohm.

**Capt. Larry E. Morris**, EE, has received his second through fifth awards of the Air Medal for air action in Vietnam. He is now serving with the 76th Military Airlift Squadron at Charleston, South Carolina.

**Robert A. Morissey**, IE, has been promoted to plant comptroller of Owens Illinois Streater Glass contain-



## Faces in the News



**William Stephen Bowen, Jr., '61**, has been elected executive vice president of the Atlanta-based General Music Corporation. He was previously assistant vice president of the Southwire Co.



**Dr. John A. Copeland, '65**, has received the 1970 Morris N. Liebmann Award for the discovery of the limited space-charge-accumulation mode of oscillation. The award is given annually by the Institute of Electrical and Electronics Engineers.



**Hollis Harris, '61**, has been appointed assistant vice president-facilities for Delta Air Lines. With Delta since 1954, Harris had been director of facilities since 1968.



**R. Win Mothershed, Jr., '61**, has been elected assistant vice president of The First National Bank of Atlanta. He joined the bank in 1966 and is now administrative assistant to the executive vice president, administration department.



**Edward W. Navickas, '61**, has been promoted to Los Angeles Branch Manager for International Register Company of Chicago. He will be responsible for the distribution and promotion of all Intermatic Distributor Products in Southern California.



**John R. Beasley, '63**, is now director of material control for the General Portland Cement Company. Prior to joining the company, he was a management consultant with McKinsey & Company, Inc., Chicago.



**Ronald W. Allen, '64**, has been named vice president-administration for Delta Air Lines. With Delta since 1963, he began his airline career as methods analyst. He had been an assistant vice president since 1967.



**Edward D. Griffin, '64**, has been appointed general manager of the Columbus Iron Works division of W. C. Bradley Co. He was formerly general manager of manufacturing for the division.

## Alumni—continued

er plant. He and his family reside at 401 Wisconsin Avenue, Streator, Illinois.

Married: *Stanley Sattinger*, ME, to Miss Geraldine Shargots on December 13 in Pittsburgh. Mr. Sattinger is currently employed at Bettis Atomic Power Laboratory, Westinghouse Electric Corp., as a senior engineer in naval reactor structures design and testing.

*Charles Russell Snow*, IM, has been awarded the Doctor of Business Administration degree from Indiana University. His doctoral dissertation was entitled "Freight Transportation and Economic Activity: A National and Regional Analysis." Dr. Snow is associate professor of management at Auburn University, a position he assumed this fall.

*Capt. William A. Studer*, Im, has received his second award of the U. S. Air Force Commendation Medal at Eglin AFB, Florida. He is now an air operations staff officer in a unit of the Tactical Air Command which provides combat units for air support of U. S. Ground Forces.

*Captain George P. Swanson*, ME, has received his second through eleventh awards of the Air Medal for air action in Southeast Asia.

Engaged: *Robert H. Wiggins*, IM, to Miss Diana Rivera. Mr. Wiggins is a pilot with Pan American Airways.

**'63** *Robert A. Beachler*, ME, is now employed in the production engineering staff of Nicolet paper company in West De Pere, Wisconsin.

Born to: *Mr. and Mrs. Clifford D. Cleveland*, IM, a daughter, Lillian Claire, on December 22, 1969.

*Frank V. Dennison*, IM, has been named manager of industrial development for Gulf American Corporation. He and his family will reside in the Miami area.

*Lloyd Wayne Griffin*, Math, has completed his initial training at Delta Air Lines' training school at the Atlanta Airport and is now assigned to the airlines' New Orleans pilot base as a second officer.

*C. E. Hahne*, IM, has been promoted to district sales supervisor with Shell Oil Company in the Cleveland, Ohio district. Mr. Hahne also received the Southern Marketing Regions Excelsior Award which formally recognizes excellence in the performance of assignments.

*Gary Hall*, ME, has been appointed engineering manager, container division, eastern region of Union Camp Corporation.

Born to: *Mr. and Mrs. Curtis A. Jackson, III*, AE, a son, Brian Todd, on October 25. Mr. Jackson is a senior

dynamics engineer at the Lockheed-Georgia Company. He and his family reside at 205 Longleaf Drive, Marietta, Georgia 30060.

Engaged: *U. S. Army Capt. John Carey Kidd, II*, EE, to Miss Joan Maxine Bucker. Capt. Kidd is now commanding officer of the heavy equipment maintenance company at Ft. George Meade, Maryland.

*Edward L. Parrish*, Psy, has become area personnel director for North Carolina National Bank in Charlotte, North Carolina.

*Edward H. Selby*, CE, has won the Augusta and Georgia Society of Professional Engineers "Young Man of the Year Award."

*John Ross Sellmer*, IM, has completed his initial training at Delta Air Lines' training school at the Atlanta Airport and is now assigned to the airlines' Atlanta pilot base as a second officer.

*Wallace H. Smith*, ME, died November 20. Mr. Smith was an IBM marketing representative, a member of the board of directors of the Boy Scouts and Junior Achievement, and was a United Fund executive. His widow resides at 3419 Simca Drive, West Jacksonville, Florida.

*Frederick A. Stoller*, IM, has recently moved from Dallas, Texas to Athens, Georgia where he is employed as a manufacturing engineer for Reliance Electric Company.

**'64** *Howard V. Andre, Jr.*, MS, was killed in Viet Nam on July 8, 1968.

Married: *Robert E. Branford*, IE, to Miss Patricia Grant on December 20, 1969. Mr. Branford completed requirements for a master's in IM degree at Georgia Tech in December and has accepted a position as consultant with Atlanta office of Arthur Young & Company. The couple will reside at 1185 Collier Road, Apt. 17H, Atlanta 30318.

Engaged: *William Pickens Carter, Jr.*, IM, to Miss Frances Shannon Wilburn. Mr. Carter is employed as systems analyst with the Lockheed-Georgia Company.

Born to: *Mr. and Mrs. Mike Esterman*, Chem, '67, a daughter, Michele Lynn, on July 5, 1969. Mr. Esterman was appointed to the Indianapolis sports stadium task force by Mayor Richard G. Lugar. The purposes of the task force are to find ways to finance the project, finding the most suitable location, planning the design, discovering what sports and other uses are feasible, and keeping the public informed.

*Westley N. Hawkins, Jr.*, IE, is connected with American Air Filters of Louisville, Kentucky, as a safety engineer.

Engaged: *James Parker Highsmith*,



IM, to Miss Judith Palmer Johnson. Mr. Highsmith is associated with Executive Control Systems, Inc. of Atlanta.

*USAF Capt. James M. Johnson*, ME, has graduated from the Air University's Squadron Officers School at Maxwell AFB, Alabama. The captain is being reassigned to an Air Force unit at Walla Walla Air Force Station, Washington.

*Capt. Fred E. Mills*, IM, has graduated from the Air University's Squadron Officer School at Maxwell, AFB, Alabama. Capt. Mills is being reassigned to McCoy AFB, Florida, where he will be a production control officer with the Aerospace Defense Command.

*Robert Maynard Morgan*, IM, has completed his initial training at Delta Air Lines' training school at the Atlanta Airport and is now assigned to the airline's Miami pilot base as a second officer.

*Capt. Roy V. Potts*, AE, has been recognized for helping his unit earn a best-of-its-kind award. Capt. Potts is a navigator in the 919th Air Refueling Squadron.

Engaged: *Dr. Earl Judson Roberts, Jr.*, Biol, to Miss Blake Bozeman. Dr. Roberts is now serving his internship in pediatrics at Grady Memorial Hospital.

*Warren Scott Stovall*, IE, has completed his initial training at Delta Air Lines' training school at the Atlanta Airport and is now assigned to the airline's Atlanta pilot base as a second officer.

*Malcolm C. Tarver, III*, has joined Pain Webber Jackson & Curtis, one of the nation's oldest and largest investment firms as a stockbroker.

*USAF Capt. James L. Taylor* was a pilot on a recent F-4 Phantom flight which provided close air support for allied ground troops moving into enemy held territory 15 miles northeast of Tay Ninh, Vietnam.

Engaged: *Jesse Thomas, III*, IE, to Miss Margaret Cicely Walker, Mr. Thomas is employed by Bethlehem Steel Corp. in Atlanta.

*Laurence C. Tucker*, IE, has been appointed as an assistant manager in the New York office of Brown Brothers Harriman & Co.

Born to: *Mr. and Mrs. Richard Tucker*, (BCE, '64 MSCE, '65), a son, Richard, Jr., on November 6, 1969.

'65 *U. S. Air Force Maj. Thomas B. Bradley*, IE, has received the Distinguished Flying Cross for aerial achievement in Vietnam.

*Robert W. Caldwell*, Biol, received his Ph.D. degree in Basic Health Sciences from Emory University in August, 1969, and is now serving as a captain at Walter Reed Army Insti-

tute of Research, Washington, D.C.

*USAF Capt. Stanford S. Clark*, MS, has arrived for duty at Scott AFB, Ill. Capt. Clark is assigned to the 1400th Civil Engineering Squadron, unit of Military Airlift Command which provides global airlift for U. S. Military forces.

*USAF Capt. Richard J. Cipriotti*, EE, has graduated from the Air University's Squadron Officer School at Maxwell AFB, Alabama, and is being reassigned to Ent AFB, Colorado, as a communications electronics staff officer.

*W. Johnny Gresham*, IM announces the formation of Gresham Realty Company with the principal offices at 1819 Peachtree Rd., N.E., Suite 611, Atlanta, Georgia 30309.

*John B. Hawkins*, Math, completed his doctorate in math at Northwestern University this past August 30, and is now stationed with the U. S. Army Auto & Tank Center at Warren, Michigan, as a 1st Lt.

*Richard J. Holt*, ChE, joined the synthetic fuels research laboratory of Esso Research & Engineering Company on October 20, 1969.

*Steve Mitchell*, IE, has resigned his position as a senior industrial engineer with the Lockheed-Georgia Company and has accepted a position with McDonough Power Equipment, Inc. a subsidiary of Fuqua Industries as assistant plant manager. He and his family will continue to reside at 4251-D North Shallowford Road, Atlanta.

*USAF 1st Lt. Grover C. Paulsen, III*, has received his second through fifth awards of the Air Medal for air action in Southeast Asia.

Born to: *Mr. and Mrs. J. Richard Powell*, CE, October 24, a daughter, Catherine Grace. Mr. Powell is employed by Shell Pipe Line Corporation's development department in Houston. The family resides at 8111 LaRoche, Houston, Texas 77036.

Born to: *Mr. and Mrs. Richard B. Reed*, Chem, a daughter, Kristin Elizabeth, July 31, 1969. Mr. Reed works in food products division for Procter and Gamble in Cincinnati.

*James T. Sudderth*, IM, was transferred from Atlanta to Mobile and promoted to merchandise manager with Sears Roebuck & Company. He and his family reside at 2762 Brookwood Drive, Mobile, Alabama 36606.

*Maj. Bobby J. Wilson*, IM, has been decorated with his second through seventeenth awards of the Air Medal and the Bronze Star Medal at Eglin AFB, Florida.

'66 *David J. Andrews*, EE, has been promoted to senior associate engineer at the International Business Machines' federal systems division in Gaithersburg, Maryland.

*USAF Capt. Glenn H. Burks*, IE, has been decorated with the Bronze Star Medal for meritorious service while engaged in military operations.

*1st Lt. J. D. Collins, III*, has returned home after 13 months with the Marine Corps in Vietnam, where he was awarded the Distinguished Flying Cross and the Republic of South Vietnam's Cross of Gallantry. Lt. Collins will be stationed at Camp Lejuene, North Carolina.

*William S. Cowden*, IM, was released from active duty with the Army on June 20, 1969 and accepted a position as a credit analyst with North Carolina National Bank in Charlotte on July 1. Mr. and Mrs. Cowden have a daughter, Coleman Elizabeth, born on August 24, 1969.

Born to: *Mr. and Mrs. Dick Emerson*, IM, a son, Eric Alan. The family resides at 131 N.W. 78th Avenue, Hollywood, Florida.

*Robert L. Ferrell*, EE, has been promoted to captain in the U. S. Air Force. Capt. Ferrell is assigned to Headquarters Western Ground Electronics Engineering Installation Agency Region.

*John S. Fletcher, Jr.*, IM, has been appointed to the position of director of public relations of Cousins Properties Inc., Atlanta, Georgia.

*Capt. Dennis C. B. Freeman, Jr.*, IM, has received the Bronze Star Medal at Ft. Lee, Virginia.

*Peter H. Graeler*, ME, has accepted a transfer to the Paranaur Operations of Suralco in Surinou, South America, which is a subsidiary of Aluminum Company of America. His address will be c/o Surinam Aluminum Company, P. O. Box 1810, Paramaribo, Surinam, SA.

Engaged: *Capt. James Maurice Johnson*, IM, to Miss Bonnie Marie Mitchell. Capt. Johnson is now serving with the USAF at Robins AFB.

Engaged: *John E. Knight, Jr.* to Miss Elaine Hance. He is working on his Ph.D. degree in Industrial Engineering at Georgia Tech.

*Capt. Thomas E. Lollis*, IE, has received the USAF Commendation Medal at Tan Son Nhut AB, Vietnam.

Born to: *Mr. and Mrs. Gordon E. Marks, Jr.*, IE, a daughter, Courtney Marie, on October 24, 1969.

Married: *Lt. H. Burce McEver*, TE, to Miss Georgia Nunnally Johnson on December 20. The newlyweds will live in San Francisco, California.

*Gary G. Plyes*, CE, has been named engineer for the Macon division of the Atlanta Gas Light Company.

*USAF Lt. Cecil L. Snell* has arrived for duty at Duluth International Airport, Minnesota. Lt. Snell is a F-106 Delta Dart pilot assigned to the 87th Fighter Interceptor Squadron.

*William A. Sutton*, IM, is presently on his second tour of Southeast Asia



## Alumni—continued

assigned to the 4252nd Strategic Wing in Okinawa with B-52 program.

*USAF Maj. Bobby J. Wilson, IM*, has been decorated with the Distinguished Flying Cross for air action in Vietnam.

'67 Born to: *Mr. and Mrs. Robert N. Brannon, ChE*, daughter, Lesa. The family resides at 1707 Pennyland St. Decatur, Alabama 35601. Mr. Brannon has recently been named to a technical position with Monsanto's Decatur Alabama Plant.

*2nd Lt. Roy B. Burnette, ME*, has been awarded USAF silver pilot wings upon graduation at Webb AFB, Texas and is being assigned to Vietnam.

*William Donald Couch, CE*, has graduated from the University of Illinois in June 1969 receiving a master's degree in civil engineering, majoring in structures. He is now working with the engineering department of the Standard Oil Company of San Francisco, California.

Engaged: *James Courtney Haigler, Arch*, to Miss Susan Vickery Landsdell. Mr. Haigler is employed with John Ware, Architect, in Atlanta.

Born to: *Mr. and Mrs. Walter Robert Harwell, EE*, a daughter, Robin Louise, on September 10. Mr. Harwell is presently employed with the General Electric Company in Miami, Florida.

*Marshall W. Highsmith, IS*, is on duty at Udorn Royal Thai AFB, Thailand. Capt. Highsmith is a data automation officer assigned to the 432nd Combat Support Group a unit of the Pacific Air Forces.

*Lt. John R. Holger, EE*, has completed a tour at Hq. U. S. Army Materiel Command, and has been assigned to the 71st Maintenance Battalion, Thailand.

*Eugene Kelly, Jr., IE*, has been transferred to a sales position in Mobile Oil's new "South Atlantic Commercial Sales District."

Born to: *Mr. and Mrs. William E. Kipp, IE*, a daughter, Martha Elizabeth, on August 22. The family resides at 324 Judy Lane, Americus, Georgia 31709.

Married: *Mr. Harry S. Lutz, Math*, to the former Miss Rosanne Spector of Milton, Massachusetts, on June, 7, 1969. Mr. Lutz is employed as Acturial Associate at the John Hancock Mutual Life Insurance Company in Boston. Mr. and Mrs. Lutz reside at 77 Georgetown Drive, Framingham, Massachusetts.

Married: *Thomas H. Mobley* to Miss Cathy Shouse on December 6. Mr. Mobley is a process engineering for the Mobile Chemical Company in

Covington, Georgia.

*USAF Maj. John G. McGukin, IS*, has been decorated with his fifth award of the Distinguished Flying Cross for air action over North Vietnam.

*Lt. G. Kevin Olsen, IM*, has been awarded USAF silver pilot wings upon graduation at Williams AFB, Arizona.

*USAF 1st Lt. John M. Pearson, ME*, has been decorated with the Air Medal at CamRanh Bay Vietnam for air action in Southeast Asia. Lt. Pearson is being assigned to the 559th Tactical Fighter Squadron, a unit of the Pacific Air Forces.

*2nd Lt. Donald A. Smith, IM*, was named honor graduate of a supply management officer course at the Army Quartermaster School, Ft. Lee, Virginia.

Born to: *Mr. and Mrs. Jerry Stephens, ME*, a daughter, Alisa Lee, December 30. Mr. Stephens is employed by Continental Can Company in New Orleans. The family resides at 401 No. 41 20th Street, Gretna, Louisiana.

*USAF Maj. William H. Stockton, IS*, is on duty at Hickam AFB, Hawaii. Maj. Stockton an air operations officer is with the 60003rd Support Squadron, a unit of the Pacific Air Forces, headquarters of air operations in the Southeast Asia, Far East and Pacific area.

*Army 2nd Lt. William L. Tison, CE*, was assigned on December 2 to the 101st Airborne Division (Airmobile) in Vietnam as a platoon leader.

'68 *Robert Allen Bennis, Phys*, has begun graduate study this fall at Georgia Institute of Technology as an Atomic Energy Commission Special Fellow in Nuclear Science and Engineering.

*2nd Lt. John H. Brunson, CerE*, has been awarded U. S. Air Force silver pilot wings upon graduation at Moody AFB, Georgia. Lt. Brunson is being assigned to Tan Son Nhut AB, Vietnam, for flying duty with the Pacific Air Forces.

*2nd Lt. John C. Bryan, Math*, has been awarded silver wings upon graduation from the U. S. Air Forces navigator school at Mather AFB, California.

*2nd Lt. Allen J. Butler, IE*, has been employed as an Industrial Engineer with Mattel Toymakers Inc., prior to his entrance to active duty in Shin Huk-ni, South Korea.

Engaged: *Gary Clyde Butler, IE*, to Miss Elizabeth Nell Alfriend. Mr. Butler is now working on his M.B.A. degree at the University of Georgia where he is employed by the Center for Management Systems.

*Thomas Jere Carter, ME*, completed a year of study in the Graduate

Business School at the University of Virginia in the USAF, and will be assigned to 30 weeks of training in aircraft maintenance at Chanute AFB, Rantoul, Illinois, beginning January 15, 1970. Both he and his wife, the former Nancy Lee Warren Rast, will reside in Rantoul.

*Lt. (jg) Robert G. Colvert, EM*, was awarded the U. S. Navy gold wings of a naval flight officer at Corpus Christi, Texas. He has been assigned to Squadron 47 at Moffet Field, California after completion of Naval Justice School in Newport, Rhode Island.

Engaged: *William Talmadge Croker, ME*, to Miss Dorothy Elizabeth Teel. Mr. Croker is employed by the Georgia Power Company in Atlanta.

*W. P. (Win) Freeman, CE*, has recently joined Parkson Corporation in Ft. Lauderdale, Florida, as a sales service engineer. He resides at 390 N.W., 49 Avenue, Fort Lauderdale, Florida 33313.

Engaged: *Maxwell Berry Grant, Jr.* to Miss Crystal Cathey. Mr. Grant is employed by the Choate Rental Company.

*Bruce B. Gruber, Arch*, has been appointed by the National Urban League as assistant regional director for housing.

*Captain Kenneth J. Gurry, CE*, has arrived for duty at Perrin AFB, Texas.

*Charles W. Henderson, IM*, has graduated with honors from the U. S. Air Force supply inventory specialist course at Lowry AFB, Colorado. He is being assigned to Charleston, AFB, South Carolina for duty with the Military Airlift Command.

*Lt. (jg) Anthony A. Hudgins, ChE*, enters Wharton School of Finance, Philadelphia, Pennsylvania in January to work toward an M.B.A. degree.

*Marcus K. Jocoy, Biol*, was commissioned a second lieutenant upon graduation from the Officer Candidate School at the Army Artillery and Missile Center, Ft. Still, Oklahoma, on December 12.

*Thomas James Lasseter, Phys*, has begun graduate study this fall at the University of California, Berkeley as an Atomic Energy Commission Special Fellow in Nuclear Science and Engineering.

*Donald S. McKee, IM*, has been awarded silver pilot wings upon graduation. Lt. McKee is being assigned to the Marine Corps Air Station at El Toro, California.

*Riley C. Shelnutt, Phys*, has received his silver bar signifying his promotion to first lieutenant in the U. S. Air Force. Lt. Shelnutt is a physicist with the Arnold Engineering Development Center at Arnold Air Force Station, Tennessee.

*Cecile S. Turner, Biol*, is employed in the Federal service as a medical



technician (chemistry).

*Michael D. Wallace*, ChE, has been awarded the Master of Engineering degree from the University of Florida. Mr. Wallace is employed by Celanese Plastics Company in Greer, South Carolina.

*G. A. Waschka, Jr.*, EE, has graduated from U. S. Army Air Defense School, Ft. Bliss, Texas, and has been assigned to McGregor Range Command, Ft. Bliss.

*2nd Lt. Stephen K. Weeman*, EE, has been awarded U. S. Air Force Silver pilot wings upon graduation at Laredo AFB, Texas.

'69 *Cletus Melvin Bost, Jr.*, has begun graduate study at Georgia Tech as an Atomic Energy Commission Special Fellow in Nuclear Science and Engineering.

*Gerald S. Brackett, Jr.*, IM, has been commissioned a second lieutenant in the U.S. Air Force upon graduation from Officer Training School at Lackland AFB, Texas. Lt. Brackett has been assigned to Webb AFB, Texas for pilot training.

Born to: *Mr. and Mrs. James Danny Coggins*, CerE, a daughter, *Christy Leigh*, on October 3. Mr. Coggins is employed by Lehigh Portland Cement Company in Allentown, Pennsylvania.

Engaged: *Ens. David C. Crannell*, IE, to Miss *Sue Bransford Weathers*. Mr. Crannell is serving as ensign in the U.S. Navy at the U.S. Navy Nuclear Power School at Bainbridge, Maryland.

Engaged: *Mr. Joseph Theo Crowley, Jr.*, IM, to Miss *Caroline Antoinette Gobel*.

*Raymond C. Eberly*, EE, has been commissioned a second lieutenant in the U.S. Air Force upon graduation from OFS at Lackland, AFB, Texas. Lt. Eberly is being assigned to Minot AFB, North Dakota for duty with a unit of the Strategic Air Command.

Married: *Stephen W. Emhart*, IM, to Miss *Christy Snodgrass*. Mr. Emhart has been commissioned a second lieutenant in the USAF upon graduation from Officer Training School at Lackland AFB, Texas. He is being assigned to Chanute AFB, Illinois to attend an aircraft maintenance course.

*Mr. and Mrs. Harold W. Fleg*, EE, are expecting their first child in June. Mr. Fleg is employed by Radiation, Inc. as a designer engineer.

Engaged: *Thomas McBride Furlow*, to Miss *Marilyn Elaine Jarchow*. Mr. Furlow is attending Texas A&M in the meteorology program as a second lieutenant in the US Air Force.

*Airman Alan S. Grayson*, Biol, has completed basic training at Lackland AFB, Texas. He has been assigned to Sheppard AFB, Texas for training in the civil engineering field.

Married: *Henry C. Hearn, II*, AE, son of *Henry C. Hearn, Jr.* '47, to Miss *Matiel McRae*, on August 23, 1969 at St. Mark United Methodist Church. Miss McRae is the daughter of *Donald M. McRae*, IM '40. They will live at Palo Alto while Mr. Hearn studies for a master's degree at Stanford.

*Thomas W. Hicks, Jr.*, IM, has been commissioned a second lieutenant in the U.S. Air Force upon graduation from Officer Training School at Lackland AFB, Texas. He is being assigned to Vance AFB, Oklahoma for pilot training.

*2nd Lt. Walter C. Hooker*, has received a regular commission in the U.S. Air Force at Griffiss AFB, New York, where he is serving as an electronics engineer with the Air Force Systems Command which manages research and development of U.S. Air Force aerospace systems.

*Capt. Raymond A. Horos*, IS, has received his second award of the U.S. Air Force Commendation Medal at Da Nang AB, Vietnam. Captain Horos serves as a material officer with an Air Force support unit at Da Nang.

*Michael A. Huffmaster*, ChE, has joined Shell Oil Company's Norco, Louisiana Refinery as an engineer.

*Marsden G. Kelly, Jr.*, ME, has been commissioned a second lieutenant

in the U. S. Air Force upon graduation from Officer Training School at Lackland AFB, Texas. He is being assigned to Moody AFB, Georgia for pilot training.

*Robert Lowe, Jr.*, EE, recently completed Peace Corps training and left November 1 on a two-year assignment in Brazil.

*2nd Lt. Ronald D. McClung*, IE, has been awarded U.S. Air Force silver pilot wings upon graduation at Reese AFB, Texas. Lt. McClung is being assigned to Dyess AFB, Texas for duty with a unit of the Tactical Air Command which provides combat units for air support of U.S. ground forces.

*Graham Sanders McFarlane*, IM, has been designated as a Distinguished Military Graduate. This is the highest honor which may be bestowed on an Army ROTC graduate.

Engaged: *Lt. William John Mitchell*, AE, to Miss *Priscilla Wallace*. Lt. Mitchell is serving in the U.S. Army in El Paso, Texas.

Engaged: *Terry Paul Moncrief*, IE, to Miss *Rebecca Skinner*. Mr. Moncrief is working on a master's degree in social work at the Southern Baptist Theological Seminary.

*Charles T. Moore*, IE, has been commissioned a second lieutenant upon completion of the U. S. Air Force

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## Alumni—continued

Reserve Officers Training Corps program at Georgia Tech. Lt. Moore is being assigned to Moody AFB, Georgia for pilot training.

*USAF Capt. Charles A. Newton, IS*, has received the Air Medal at Clark AFB, Philippines, for air action in Southeast Asia.

Engaged: *Lt. Thomas William Oliver III*, to Miss Anita Louise Griffith. Lt. Oliver is stationed with the Naval Nuclear Submarine Program in Bainbridge, Maryland.

*2nd Lt. Charles T. Olmsted, Jr. IM*, has graduated at Tyndall AFB, Florida, from the training course for U. S. Air Force weapons controllers. Lt. Olmsted is being assigned to the 4638th Support Squadron, Fort Lee Air Force Station, Virginia.

Married: *Richard David Peveler*, Chem, to Miss Sarah Fessler on June 14. Mr. Peveler is attending graduate school at Northwestern University working toward a Ph.D. in chemistry.

*Airman Chris I. Randall, ChE*, has completed basic training at Lackland AFB, Texas. He has been assigned to Chanute AFB, Illinois, for training in the flight training equipment field.

Engaged: *Wallace Alan Randolph, IE*, to Miss Ruth Anne Gray. Mr. Randolph is employed by Humble Oil

Refining Company in Charlotte, North Carolina.

Married: *David N. Roberts, Psy*, to Miss Joanne Patricia Jenkins. Mr. Roberts is now attending Southern Seminary working on a Master of Divinity degree and serving as associate pastor of First Baptist Church, Scottsburg, Indiana.

Engaged: *James William Satterfield, TE*, to Miss Lynn Reyburn Fuller.

Engaged: *Franklin Neal Selber, EE*, to Miss Rebeca Barrocas. Mr. Selber received his Master's in E.E. degree from Georgia Tech where he is now doing post-graduate work in information science.

*George R. Sewell, ChE*, has been commissioned a second lieutenant in the U. S. Air Force upon graduation from Officer Training School at Lackland AFB, Texas. He is being assigned to Vance AFB, Oklahoma for pilot training.

Engaged: *James Wendell Simonds, IE*, to Miss Mary Farthing. Mr. Simonds is employed in the research division of Western Electric in Winston-Salem, North Carolina.

*U. S. Air Force Captain Joe B. Smith, IS*, has arrived for duty at Goose AB, Laborador. Capt. Smith is a ground electronics officer assigned to the 4630th Support Squadron.

*Dennis L. Stanford, Text*, has been commissioned a second lieutenant in the U. S. Air Force upon graduation from Officer Training School at Lackland AFB, Texas. He is being assigned to Mather AFB, California for navigator training.

*Steven Douglas Thompson, AE*, has begun graduate study at Georgia Tech as an Atomic Energy Commission Special Fellow in Nuclear Science and Engineering.

*U. S. Air Force Maj. David K. Totten, IS*, is on duty at Pleiku AB, Vietnam. Major Totten is a navigator with the 20th Tactical Air Support Squadron.

*Kenneth C. Traynham, EE*, has been commissioned a second lieutenant in the U. S. Air Force upon graduation from Officer Training School at Lackland AFB, Texas. Lt. Traynham is being assigned to Wright-Patterson AFB, Ohio for training and duty in a unit of the Air Force Systems Command which manages research and development of U.S. Air Force equipment.

*Airman David Q. Tuck, IM*, has graduated from the technical training course at Lowry AFB, Colorado for U. S. Air Force inventory specialists. He is being transferred to Lajes Field, Azores.

*2nd Lt. Leo A. Vecellio, Jr. CE*, is attending the Air Force Institute of Technology Civil Engineering School at Wright-Patterson AFB, Ohio.

*James L. Vining, IM*, has been elected assistant vice president of the Federal Reserve Bank of Atlanta effective January 1, 1970.

*Thomas C. Wanner, AE*, died on August 25.

*David Lee Whelan, EE*, has been awarded a J. Spencer Love Fellowship from the Harvard University Graduate School of Business Administration.

*Robert L. Wiggins, IM*, has been commissioned a second lieutenant in the U. S. Air Force upon graduation from Officer School at Lackland AFB, Texas. He is being assigned to Webb AFB, Texas for pilot training.

Engaged: *Donald Emory Wood, ME*, to Miss Carolyn Patricia Owen. Mr. Wood is a second lieutenant in the U. S. Army.

Engaged: *Christopher Noel Zadow, Psy*, to Miss Janice Lynn Dunaway. Mr. Zadow is now attending U. S. Navy Aviation Officers Candidate School in Pensacola, Florida.

'70 Engaged: *Lt. Stanley Chapel Coker, ME*, to Miss Karen Jane Bolinger. Mr. Coker is now serving with the U. S. Army Corps of Engineers at Ft. Belvoir, Virginia.

*Kenneth L. Colston, IM*, has been commissioned a second lieutenant in the U. S. Air Force upon graduation with honors from OTS at Lackland AFB, Texas. He is being assigned to Laredo AFB, Texas for pilot training.

Married: *Park Andrew Dallis, III, EE*, to Miss Dorothy Cornell. The couple will reside in Maryland.

*Marvin M. Culppepper, IM*, has joined the Dow Chemical Company in Midland, Michigan in the marketing training program.

Engaged: *Jack Phillip Nix, Jr. to Miss Gaylan Elliott*. Mr. Nix was graduated from Georgia Tech in December and commissioned a second lieutenant in the U. S. Army.

Engaged: *Frank Thomas James, CE*, to Miss Gloria Ann Gunter. Mr. James is employed by Hayes, James and Associates in Lawrenceville.

*Capt. Earle F. Maloney*, is working with Vietnamese youngsters as part of the civic action program. Capt. Maloney is communication-electronics maintenance officer for a tactical control unit that helps direct air traffic over the Mekong Delta.

Engaged: *William Esmond Pruett, IM*, to Miss Virginia Adams. Mr. Pruett received his degree from Georgia Tech in December and was commissioned a second lieutenant in the U. S. Army.

'71 Engaged: *Victor Manuel Hernandez, EE*, to Miss Catherine Anne Miller. Mr. Hernandez is now a helicopter pilot serving in Long Binh, Vietnam.



# The National Scene

## Introducing the "Newspage": designed to help readers keep up in an eventful decade

■ **Quiet Spring?** In marked contrast to the wave of student unrest they experienced last spring, the nation's colleges and universities were fairly quiet last semester. Observers wonder: Will the calm continue in 1970 and beyond? There are signs that it may not. Ideological disputes have splintered the radical Students for a Democratic Society, but other groups of radicals are forming. Much of the anti-war movement has drifted off the campuses, but student activists are turning to new issues—such as problems of the environment and blue-collar workers. A nationwide survey of this year's freshmen, by the way, shows them to be more inclined than their predecessors to engage in protests.

■ **Enter, Environment:** Air and water pollution, the "population explosion," ecology—those are some of the things students talk about these days. The environment has become the focus of widespread student concern. "Politicization can come out of it," says a former staff member of the National Student Association who helped plan a student-faculty conference on the subject. "People may be getting a little tired of race and war as issues." Throughout the country, students have begun campaigns, protests, even lawsuits, to combat environmental decay. Milepost ahead: April 22, the date of a "teach-in" on the environment that is scheduled to be held on many campuses.

■ **Catching Up:** Publicly supported Negro colleges, said to enroll about a third of all Negroes in college today, are pressing for "catch-up" funds from private sources—corporations, foundations, alumni. Their presidents are telling prospective donors: "If you don't invest in these colleges and make it possible for Negroes to get an education, you will be supporting them on the welfare rolls with your taxes." Coordinating the fund-raising effort is the Office for the Advancement of Public Negro Colleges, Atlanta, Ga.

■ **Nonresident Tuition:** An Ohio woman married a resident of California and moved with him to that state. When she enrolled in the state university there, it charged her \$324 more per quarter than it charged California residents. Unfair? The woman said it was, and asked the courts to declare the higher fee unconstitutional. State courts dismissed her challenge and now their judgment

has been left standing by the U.S. Supreme Court. The decision suggests that an earlier ruling of that court, which overturned state residence requirements for relief applicants, does not apply to higher education. Nearly 800,000 students are thought to be enrolled in colleges outside their home states.

■ **Money Trouble:** Many members of Congress favor more federal funds for higher education, but President Nixon balks at the notion. He vetoed the 1970 appropriations bill for labor, health, and education on grounds its was inflationary, and the lawmakers failed to override him. Further austerity is signaled by the President's budget for 1971. He wants to phase out several programs of aid to colleges and universities, hold back on new spending for academic research, rely more on private funds. In the states, meanwhile, the pace of public support for major state colleges and universities may be slowing, according to reports from 19 capitals. Overall, state appropriations for higher education continue to grow, with much of the new money going to junior colleges.

■ **Foundation Tax:** Exempted for decades from federal taxation, the nation's private foundations must now pay the government 4 per cent of their net investment income each year. Congress requires the payment in its Tax Reform Act of 1969, which also restricts a number of foundation activities. One initial effect could be a proportionate cut in foundation grants to colleges and universities. Foundation leaders also warn that private institutions generally—including those in higher education—are threatened by federal hostility. The new act, says one foundation executive, reflects an attitude of "vast indifference" in Washington toward the private sector.

■ **Double Jeopardy:** Should a college's accreditation be called into question if it experiences student disruption over an extended period of time? In some cases, yes, says the agency that accredits higher education institutions in the mid-Atlantic states. Although it won't summarily revoke a college's accreditation because of disruption by "forces beyond its control," the agency does plan to review cases in which an institution suffers "prolonged inability to conduct its academic programs."



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