



1966 produced the most exciting football seen on the Carnegie Tech campus for many seasons as the team compiled a 5-3 record for the first winning season since 1959.

Once again, the great passing combination of juniors Tom Hubka to Dick Bell sparked the Tartans offense. Hubka, who must be regarded as the finest passer in Carnegie Tech history completed 118 of 222 passes for the season, gaining 1406 yards, and accounting for twelve touchdowns.

In two years, the fine Carnegie Tech quarterback, from Plainfield, N.J., has now completed 229 of 453

passes, accounting for 27 touchdowns, and gaining a total of 2851 yards.

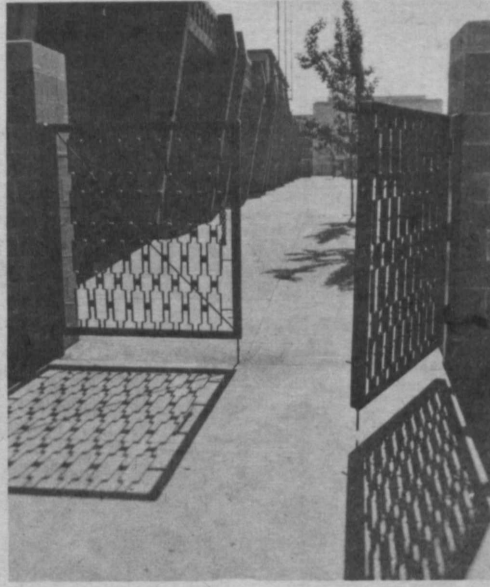
Bell, from the South Hills section of Pittsburgh, caught 48 passes this season, including 12 in the last game of the year. In his varsity career, he has grabbed 93 tosses for 1305 yards, and fifteen touchdowns.

Sophomore Larry Getto was a standout for the Tartans on both offense and defense, leading the team in rushing and in interceptions. In addition, Tech's defense yielded fewer than 200 yards per game to the opposition.

# CARNEGIE LUMNI NEWS

December 1966

# CARNEGIE ALUMNI NEWS



published for the Alumni  
of  
Carnegie Institute of  
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December 1966

## Tech-WQED Plan Cooperative Programs

Metropolitan Pittsburgh Educational Television, WQED-WQEX, and Carnegie Institute of Technology have announced an agreement which would enable WQED to be operating from new facilities on Fifth Avenue by June, 1968.



WQED's  
Old  
Site

Under the terms of the agreement, Carnegie Tech will lease land on the Tech campus on a token-fee basis to WQED for construction of its new facilities. The land involved is currently the site of the Colonial Manor, a women's honor housing unit, located at 4802-4808 Fifth Ave. The eighty Tech women students currently living in the apartment will be placed in another honors unit on the Tech campus. The students will continue to reside in the Colonial Manor for the remainder of this academic year, and demolition of the building will begin in June, 1967.

According to Donald V. Taverner, president of Metropolitan Pittsburgh Educational Television, "The site ideally meets our requirements. We feel strongly the need to be located in Oakland, the cultural center of the city, with easy access to public transportation, and in a position easily visible to the general public.

"While this move will in no way affect our operation as a community educational television station serving Metropolitan Pittsburgh, we do look forward to close cooperation with Carnegie Tech in many areas of programming, instruction, and educational opportunities."



The *Alumni News* is a quarterly publication published by Carnegie Institute of Technology for its many alumni and friends.

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Tech President, Dr. H. Guyford Stever, commenting on the agreement, said, "WQED has had a remarkable record of achievements in educational television since its founding. In making this land available, we think we will contribute significantly to the future growth of this fine institution.

"Tentative plans call for the development of our Dramatic Arts Center on land adjacent to the new WQED site. The proximity of the station will greatly enhance our drama students' opportunities in television direction and production and will also provide the potential for the development of educational visual aids, a field in which our faculty has great interest."

WQED began broadcast operations in 1954 as the nation's first community-supported television station. From this early date, WQED has operated in the former Holland Mansion in Oakland. This building has become obsolete and totally inadequate for the educational station's local programming, as well as its function as one of the nation's key production centers in educational broadcasting.

The new WQED building will contain nearly 60,000 usable square feet of space, and construction costs will be \$1,500,000. New broadcasting equipment will be purchased for the new facility. This equipment will enable full color television and will be purchased at a cost of \$1,250,000.

Original Television Drama



George D. Lockhart, Chairman of the WQED Capital Fund Committee, reported that the new building and development program is possible through a grant of \$1,500,000 from the Richard King Mellon Charitable Trusts, matching funds from the Ford Foundation, and local corporate and foundation grants to total \$1,500,000 from the WQED Capital Campaign currently being conducted under the leadership of William J. Stephens, president of the Jones & Laughlin Steel Corporation.

Other planned cooperative programs between the institutions include the utilization of WQED on a scheduled basis for instructional purposes, internship programs for advanced students, the possibility of part-time employment by WQED of students with particular skills, and the interchange of ideas and skills of the faculty of Carnegie Tech and the production personnel of WQED.

## Increase In Tuition Announced For 1967

A tuition increase from the present \$1700 per year to \$1950 per year, effective in the 1967-68 academic year has been announced by President H. Guyford Stever.

In a letter written to students, parents, and friends of Carnegie Tech, Dr. Stever cited the university's need to remain academically competitive as the most pressing reason dictating the increase at this time.

"This decision results from a careful examination of rising costs of high quality education and reaffirmation of our determination not to incur budget deficits," Dr. Stever said. "At the same time," he continued, "the Board of Trustees has decided that steps must be taken to increase scholarship resources to maintain at least the same proportional level of student aid as is available this year, and as soon as possible, to improve this level."

Currently, about thirty percent of Carnegie's full-time undergraduates, an almost all of its graduate stu-



dents receive financial aid in some form. In addition, according to Mr. Peter H. Nachtwey, director of financial aid, no sophomore, junior, or senior, is denied financial aid if he meets need and academic requirements.

"I regret that the decision to increase tuition has been inescapable," Dr. Stever continued. "Our determination to provide the highest quality education possible requires more funds for faculty salaries, for innovations in curricula and teaching, and for other student-related activities. Our most careful projections indicate clearly that operating expenses will continue to increase in the foreseeable future. Income must keep pace," he concluded.

Carnegie Tech's planned tuition of \$1950 per year is about the same or a little less than comparable institutions. Income from tuition continues to pay for a little more than 50% of the direct cost of education, and considerably less if capital and other long term improvements are included. The remainder of Tech's revenue comes from gifts, grants, and income from endowment, all of which continue to increase each year. Financial aid is provided to Tech students through scholarships, grants-in-aid, loans, and part-time employment.

"We have placed high priority on a plan to develop further our student aid toward the goal that no qualified student will be denied a Carnegie education because of financial need," Dr. Stever told the students, parents, and friends in the conclusion of his letter.

# Twenty-Five Football Greats Honored At Homecoming

Twenty-five of Carnegie Tech's former celebrities of the gridiron were honored at the Homecoming game with Grove City College on Saturday, October 15.

Alumni named to the All Star football team, consisting of Tech's outstanding players in the last 20 years, were introduced during the game's half-time activities and were personally congratulated by Carnegie Tech President, Dr. H. Guyford Stever.

The players honored were ends Tom Craig, Ken Ficery, Marty Poad, and Fritz Wilson; tackles Earl Benner, Charles Fuellgraf, Clyde Stahle; guards Kent Baldauf, Ed Karcher, Larry Stovicek, Floyd Wiseman, and Gary Yarbrough; centers C. B. Groomes and Al Schell. Frank Wengrzyn, now deceased, was also selected as a tackle on the team.

Backs named to the team are quarterbacks Jim Muth and John Tucci; halfbacks R. Marshall Brown, William Kennedy, John Luchok, Leroy McElhinny, Ed Miller, and Nick Simcic; and fullbacks Rich Merrill and Arne Oberg.



Tom Craig is a 1953 engineering graduate of Carnegie Tech. In addition to starring in football, Craig also lettered in basketball and golf. Ken Ficery was an outstanding end for Carnegie Tech for four years. A 1958 printing management graduate, Ficery was also an outstanding basketball player. Marty Poad played four years on the varsity and received several all-district honors. He was a member of the 1959 team, which won its first seven games before losing in the final. Fritz Wilson is a 1952 graduate of Tech. He lettered four years in football and also earned varsity letters on the track team.

Earl Benner earned both a bachelor and a master's degree from Tech. He was a four-year letterman. Charles Fuellgraf is a 1953 engineering graduate. He was a member of several of Tech's finest post-war teams. Clyde Stahle is another 1953 graduate, who earned letters in all of his varsity seasons, and played both offense and defense.

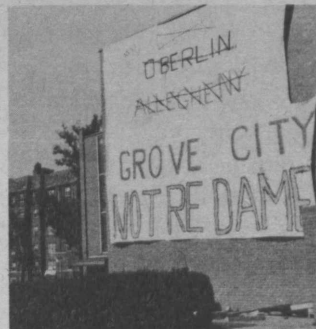


Kent Baldauf earned four varsity letters as a line-backer and offensive guard. He graduated from Tech in 1964. Ed Karcher received his bachelor's degree in 1957 and a master's degree in 1958. He was an outstanding tackle on the 1954 and 1955 teams. Larry Stovicek played four years of varsity football at Carnegie Tech and with Floyd Wiseman gave Tech what many consider to be the finest pair of guards the Tartans have had in the post-war days. Both Wiseman and Stovicek are 1951 graduates. Selected to the All-District team twice, Gary Yarbrough was a two-way man on Tech's fine 1959 team. He earned four letters during his career and graduated in 1961.



C. B. Groomes was a standout on Tech teams immediately following World War II. He is a 1949 engineering graduate. Al Schell played several seasons of varsity football. He is a 1959 graduate.

Quarterback Jim Muth was a starting quarterback for only one year, but led Tech to a 7-1 record in 1959. He was also a standout on defense and in his senior year was named to All-District and All-State teams. John Tucci was the main reason Muth didn't start earlier in his career. Tucci was Tech's starting quarterback for three years and was repeatedly honored during his career.



Halfbacks John Luchok and Nick Simcic teamed up in the late 1940's to bring Carnegie Tech football back to the winning side. Luchok scored the touchdown that broke Tech's six-year losing streak in the last game of the 1948 season, while Simcic was a multiple winner of the "Most Valuable Player" award, and in one season, scored 60 points. R. Marshall Brown graduated from Tech in 1956 after earning four letters as a running back. He played on some of Tech's more successful teams in the mid-fifties. Bill Kennedy played football for three years at Tech. He graduated in 1955. Another backfield man from the same era is Ed Miller, who started as a quarterback, but was converted to halfback. He graduated from Tech in 1955.

Fullback Dick Merrill played four years at Tech and rushed for over 1000 yards, including more than 700 in his junior year, when he was named to the All-District team. Merrill graduated last June. Arne Oberg, the other fullback on the All-Star team, played three years of football. He graduated from Tech in 1952.



## Alumni To Hear Tech Speakers

Several of Tech's faculty members are touring the country as speakers at various clan meetings.

William W. Mullins, dean of the College of Engineering and Science, discussed "The New Engineering" at the dinner-meeting of the Washington Carnegie Clan held on Wednesday, November 9.

"The Visual Arts at Carnegie Tech" was Lee Goldman's topic for the gathering of the Beaver Valley Carnegie Clan, also on November 9. Mr. Goldman is an associate professor and head of the department of painting, design, and sculpture.

The St. Louis Carnegie Clan dinner-meeting on Thursday, November 10, featured Norman L. Rice, dean of the College of Fine Arts. Dean Rice discussed the aims and achievements of the college in recent years.

Three other members of the faculty are scheduled to attend Clan meetings. Erwin R. Steinberg, dean of Margaret Morrison Carnegie College, will be visiting with the Long Island Clan on Saturday, December 3.

Dr. H. Guyford Stever is scheduled to meet with the San Diego Clan on Wednesday, January 11, and with the Los Angeles Clan on Friday, January 13. Earle R. Gister, associate professor of drama and head of the department, will speak to the Detroit Clan on Tuesday, February 21.

## Critics Praise Harth Performance

Sidney Harth, head of Carnegie Tech's music department, performed a world premier violin composition at New York City's Carnegie Hall during his one-man program Oct. 25.

The violin virtuoso played seven works in the recital, his fourth major appearance in New York.

Highlighting the program was the world premier of Carlos Surinach's "Flamenco Cyclothymia," written especially for Mr. Harth by the composer who is teaching for one year at Carnegie Tech.

In another first, Mr. Harth played the concert premier of Fawick's "Toccata Brutale," which he recorded earlier. In addition, he performed Vivaldi's "Sonata in A Major;" Ben-Hiam's "Sonata for Violin Solo;" Beethoven's "Kreutzer Sonata;" Schumann's "Prophetic Bird," and Paganini's "La Clochette."

Mr. Harth has been head of Tech's music department since 1962. Mr. Surinach, the well-known symphony composer, joined the Tech faculty in September.

Mr. Harth received rave reviews from the New York critics. Allen Hughes of the New York Times wrote:

"When Sidney Harth plays the violin, one never wonders about the possibility of mishaps. There is something about the way the man works with the instrument that makes you know everything is going to be played perfectly, or at least about as perfectly as any human being could do it."

In the New York World Journal Tribune, critic Miles Kastendieck wrote:

"Such finesse in tone, in technique, and in phrasing belongs only to the very top-flight violinists. This was a recital to thrill many a seasoned concertgoer."

Both critics also had kind words for Mr. Surinach's "Flamenco Cyclothymia." Mr. Kastendieck called it "brilliant, colorful, showy . . ." Mr. Hughes termed it "an effective showpiece . . ."

Mrs. Warner



### Louise Warner Honored By Federation

On September 16, at the dedication of Warner Hall, the Alumni Federation presented a Special Service Award to Louise Warner. Federation President Henry Lehne read the citation which was in the form of a hand bound volume of green leather tooled with gold. The inscription is on hand made paper. The binding was done by Flavia Zortea of the Hunt Botanical Library staff and the calligraphy was by Carol Guthoehrlein, an alumna and instructor in the painting and design department.

The citation is worded as follows: "For so many years we watched and wondered, listened and marvelled: *watched* her move graciously among us, among students and Trustees, faculty and friends, always tactful, always encouraging, always spirited; *wondered* how her hands could bear time and again the thousand grasping handshakes, how her feet could bear the brutal punishment of a hundred receptions, how her spirit could bear the loneliness thrust upon her by her husband's demanding career; *listened* to her sparkling stories of places seen and people met, to the wit and wisdom of her alert and active mind, and to that delightful laughter rising like gay bubbles from any group she graced; *marvelled* that she could remain so unique a person while performing so perfectly the ritual demanded of her; *marvelled* that she could stand in the shadow and radiate such light and warmth.

"Having watched and wondered, listened and marvelled we, the Alumni of Carnegie Institute of Technology, make this Special Service Award to Louise Hamer Warner, as testimony to our gratitude, esteem, admiration and love."

### College Grads Sought For New Program

Another nationwide search is underway for outstanding college graduates, ages 23 to 35, to serve as White House Fellows, a program established by President Johnson to give rising leaders one year of "first-hand, high-level experience with the workings of the Federal Government and to increase their sense of participation in national affairs."

The project, open to men and women from all occupations, recently completed its first year. Under it, White House Fellows spend a year working as assistants to Cabinet officers, the Vice President, White House staff members, or other top government officials. They are paid stipends, based on age, of up to \$15,000.

In keeping with the President's assertion that "a genuinely free society cannot be a spectator society," the program stresses direct participation in the important work of the government's executive branch.

Candidates may apply or be nominated for the program by an individual or organization. Normally, candidates will have begun their careers and will have demonstrated exceptional ability, leadership qualities, unusual promise of future development, and high moral character.

Additional information and application forms may be obtained from the Director, Commission on White House Fellows, The White House, Washington, D.C. 20500. Application deadline is Jan. 6, 1967.

### Economist Urges "Remedial Surgery" For Wage-Price Guideposts

A Carnegie Tech economist and expert in collective bargaining has joined the fight against inflation with a call for "remedial surgery" to revive the Johnson Administration's crippled wage-price guideposts.

Dr. Myron L. Joseph said the guidepost policy, which links wages and prices to the economy's advancing productivity, failed because the Administration was unwilling to take the political risks involved in opposing inflationary wage settlements and because there is no commitment to the guideposts by private industry and organized labor.

Dr. Joseph



Dr. Joseph urged against accepting the demise of the guideposts too easily, however, since "it is difficult to find a more effective way to avoid rigid controls or unacceptably high levels of unemployment."

His blast at government inability to make the guideposts stick, his assessment of the policy's inherent weaknesses and his proposals to transform the plan were contained in a recent talk which was based on a paper he prepared for a conference on pricing theories, practices and policies at the Wharton School of Finance and Commerce of the University of Pennsylvania. Dr. Joseph is head of the department of administration and management science at Tech's Graduate School of Industrial Administration.

Warning that the United States is flirting with a mandatory wage-price freeze such as Britain's, or with high social costs and high unemployment, Dr. Joseph proposed these steps to restore the guidepost policy:

1. The integration of the President's Labor-Management Advisory Committee into the guidepost process.
2. Addition of high-level government economic policy planners to the Advisory Committee on the same basis as labor and management representatives to permit a more realistic examination of critical policy areas by all concerned.
3. Clarifying the distinctions between guideposts for noninflationary wage-price decisions and behavior patterns that would be most desirable under particular economic conditions. (For example, "a guidepost for behavior that was the product of a serious evaluation of the policy alternatives by responsible and influential labor and management representatives might have a chance of slowing the snowballing inflationary pressures.")
4. An institutionalized process for creating an atmosphere of public opinion in which noninflationary wage and price behavior is more likely to occur.

The guideposts, Dr. Joseph said, were ineffective in the end because they "depended on the President's willingness to jeopardize the status of his office and to take political risks. It proved too much to ask."

Dr. Joseph said he saw no need for a Congressional review of the guideposts, "but perhaps some modification" of proposals such as that by Sen. Joseph Clark, Pennsylvania Democrat, "calling for the study of certain actual or imminent price and wage decisions might help bring the original idea of public debate back into the guidepost framework."

Dr. Joseph's paper traced the history of the guideposts from the fall of 1961 to the present.

Dr. Joseph joined Tech's faculty in 1948. He was a senior staff economist on the Council of Economic Advisors under both President Kennedy and President Johnson, concerned with wage-price policies and industrial relations. He has written widely on labor relations issues, has been an arbitrator in many labor-management disputes and has done much research in the sociological, economic, and political aspects of industrial relations and collective bargaining.

### Tech's Senior Trustee, Roy Hunt, Dies at 85

Roy A. Hunt, noted Pittsburgh industrialist, Carnegie Tech trustee and benefactor, died suddenly on Friday, October 21.

Commenting on the death of Mr. Hunt, Carnegie Tech President H. Guyford Stever stated, "In the passing of Roy A. Hunt, Carnegie Institute of Technology has suffered a great loss. Mr. Hunt was one of our most active members, and, in length of service, was the senior member as well as Honorary Chairman of our Board of Trustees."

Mr. Hunt, whose father, Alfred E. Hunt, was a founder and first president of the Aluminum Company of America, began his tenure with Alcoa in 1903 as a mill clerk, rose to the presidency of the corporation in 1928 and in 1951 became Chairman of Alcoa's Executive Committee.

During his lifetime, Mr. Hunt was actively interested in education, health and welfare. Mr. Hunt and his wife, Rachel, gave Tech nearly \$5 million during their lifetimes, including the gift of the Hunt Library, and the Rachel McMasters Miller Hunt Botanical Library on the fifth floor.

Said Dr. Stever, "In his continual and active support of our educational programs Mr. Hunt proved himself a friend of Carnegie Tech. Not only did he and the late Mrs. Hunt make possible the construction of our library, named in their honor, but in many tangible and intangible ways Mr. Hunt and members of his family participated significantly in the growth of Carnegie as a fine educational institution."

Mr. Hunt was born August 3, 1881, at Nashua, New Hampshire, the son of Alfred E. and Marie Tyler McQuesten Hunt. Shortly after his birth the family moved to Pittsburgh where he attended Pittsburgh public schools and Shady Side Academy. Mr. Hunt received his A.B. from Yale University in 1903.

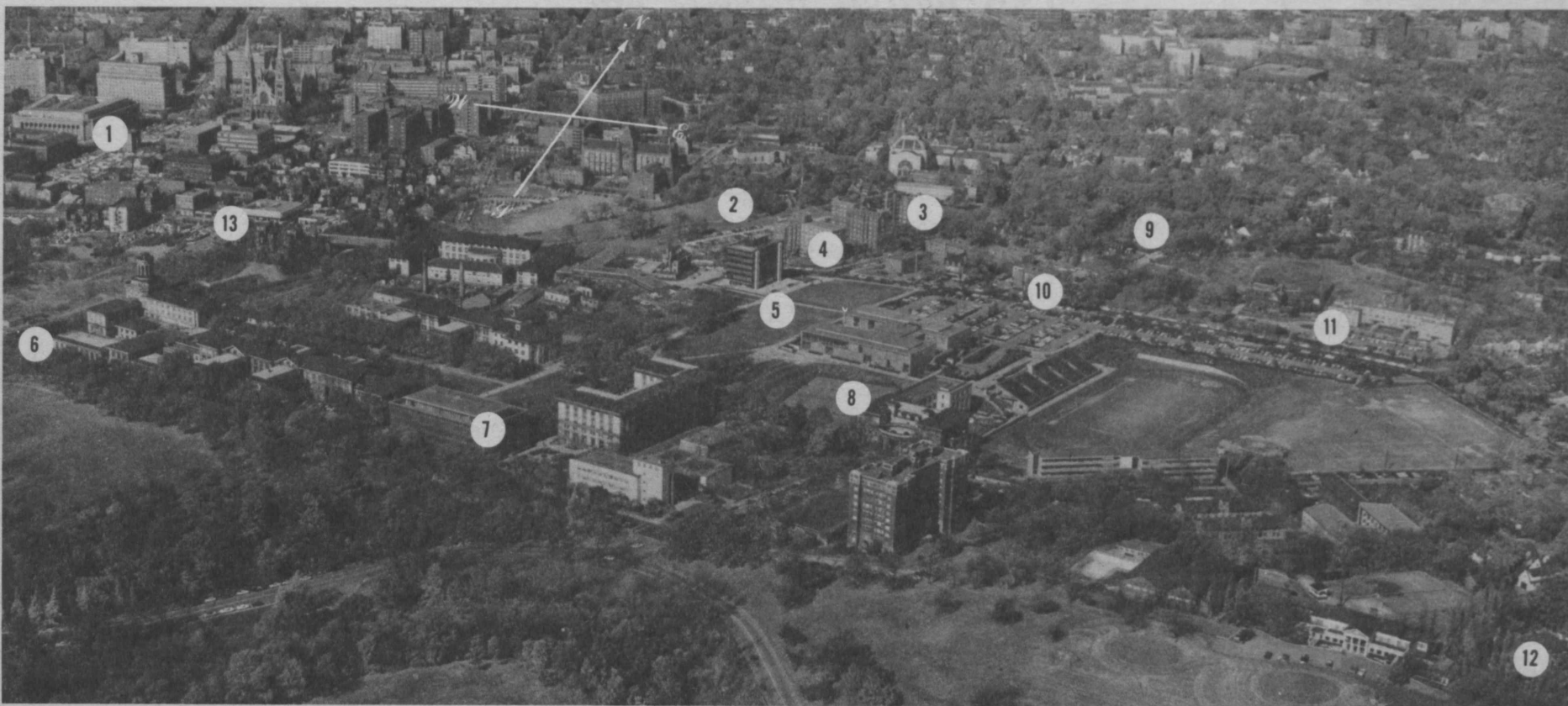
Along with his interests in Alcoa, Mr. Hunt was a director of the Mellon National Bank and Trust Company, National Union Fire Insurance Company and the Pittsburgh Testing Laboratory. He was also on the board of Allegheny Cemetery, Carnegie Institute, Elizabeth Steel Magee Hospital, Pittsburgh Skin and Cancer Foundation and Grove City College.

Throughout his life, Mr. Hunt received many honors and awards including honorary degrees from the University of Pittsburgh, Oberlin College, Grove City College, and Carnegie Tech in 1963.

Mr. Hunt is survived by his four sons: Alfred M., secretary of Alcoa, Pittsburgh; Torrence M., general manager, advertising and promotion for Alcoa, Pittsburgh; Roy A. Jr., assistant vice president, Mellon National Bank and Trust Company, Pittsburgh; and Dr. Richard M., assistant dean of Arts and Sciences, Harvard University Graduate School, Cambridge, Mass., and 11 grandchildren. Mrs. Hunt died in 1963.

Mr. Hunt at Library Dedication





A RECENT AERIAL view of the campus shows: 1) Mellon Institute, 2) site of new building for station WQED, 3) Mudge Graduate House, 4) Morewood Gardens, and its new addition, 5) Warner Hall, 6) Scaife Hall of Engineering, 7) The Hunt Library, 8) Skibo, 9) President Stever's house, under the trees, 10) fraternity duplexes, 11) Doherty House for married graduate students, 12) several houses owned by Carnegie Tech, 13) Graphic Arts Technical Foundation.

## After Six Years

Following is an address delivered by Mr. John G. Johnson, vice president for development, at an alumni breakfast held during Homecoming. Mr. Johnson, a Carnegie Tech graduate and former executive secretary of the Alumni Federation, who has been away from the campus for six years, makes some observations which we think will be of interest to all alumni.

—Ed.

It's a fascinating experience to return to one's alma mater after a six-year absence. Like most of you, I've tried to keep abreast of changes at Carnegie through the Alumni News, through conversations with fellow alumni and from bits of information wherever they could be found. But my impressions have been sharpened markedly during the past six weeks. I wish to share some of those impressions with you and then to translate them into predictions about alumni involvement, even though I realize that six weeks is too short a time to understand all about our complex campus.

Ever since my first conscious association with this institution, back in the 30's, I've been struck by one unique characteristic which has run through its fiber from 1905 down to the present day. Carnegie has always demonstrated unusual ability to meet key opportunities and to be responsive to the demands of the society around her. This is a strong tribute to the thousands of men and women who have had a hand in shaping our alma mater. I think we are all aware of many illustrations of this characteristic—from the country's first drama degree in 1914, to the successful completion of Tech's development campaign for \$29 million this fall.

What a time this is to be associated with Carnegie Tech! By now, I hope you have all read about and thought about the proposal to join Mellon Institute and Carnegie Tech to create Carnegie University. I believe that there have been few events in higher education to match this one. All of us who have been working intimately on the plans to complete the merger have been caught up in the spirit of the proposition that we can make two and two equal six.

My most immediate impression on returning to the campus is that Carnegie has a vibrant administration, backed by a nationally distinguished Board of Trustees. On September 16, Jake Warner was the key-

note speaker at the dedication ceremonies officially opening the new administration building named in his honor. He reminded us that the administration in a university is a means to an end, not an end in itself. My administrative colleagues, starting with President Stever, subscribe wholly to that notion. Within that framework, the evidence I've seen to date persuades me that this administration will be forward looking, forthright in making decisions, and irrevocably committed to superior quality in whatever it undertakes. If there are to be errors, they will most likely be errors of commission rather than errors of omission or hesitation. For my money, those are the best errors to make.

Second, Carnegie is involved—deeply involved with the world around it.

Are there high school students who might be motivated and uplifted to qualify for admission to college? Let Carnegie Tech see what can be done to help.

Are problems of the modern city overwhelming mankind, the city's creator? Perhaps Carnegie's transportation researchers and city designers can find solutions.

Can the full potential of the computer be harnessed for man's benefit? Our massive computer center and highly qualified professors promise to find the answers.

This accounting could be extended almost indefinitely. One principle which runs throughout the list is that Carnegie's human and other resources are devoted to dealing with problems of the world in which we live. There is very little of the abstract, ivory tower here.

A third impression is that Carnegie has a remarkably voracious appetite and capacity to do things. This is true for a variety of reasons. One reason is the diverse academic program offered here. Its breadth and depth provide opportunities to consider a sweeping spectrum of classroom and laboratory problems. Too, Carnegie's location in a large, urban setting provides access to many human talents and other key resources outside the university, yet close at hand. Finally, we have here a "critical mass" of able, highly motivated students and faculty, who are capable of making a real difference in our society. This then, is the Carnegie Tech I see after an absence of six years. Energetic, optimistic, determined!

What might it all mean to the alumni? My answer—a more demanding challenge on every front.

Where there are now some 28 active clans, very soon there must be 50.

Now there are some 400 alumni who interview prospective students as members of the Carnegie Admissions Council. Soon, we must have 800 or more well informed, enlightened alumni helping our young people make a very important decision. There can be no more rewarding experience, and I urge you to accept if you're invited to participate.

The alumni fund has grown from \$16,000 in 1947 until this year it has a goal of \$360,000. That's commendable growth. Nevertheless, we must set our sights on \$500,000 and exert every possible effort to reach that level of annual giving quickly.

Moreover, in the clans a constant review of planning and program is called for. For my part I see a very limited future for the clans, or any other alumni group, if they pursue fun and frivolity exclusively. Our alumni have a responsibility, as part of the educated elite of our time, to become actively involved in the community affairs around them. The public school system, professional obsolescence, the local libraries, crime and disregard for law and order, slums, clean water, smoke control—these are just a few of the issues of our day which we ignore at our peril.

Is this too much to ask?—Fifty clans, 800 alumni interviewers, \$500,000 each year! I think not. In a world which has an over supply of mediocrity, our alma mater is unequivocally devoted to superb quality in everything it undertakes. And, moreover, let me make it perfectly clear that my impressions of the progress of the Alumni Federation are most favorable. I observe a determination to experiment, a broader and deeper involvement of alumni, and the continuing development of new, enlightened leadership.

Now we ask the alumni to come along and, indeed, set the pace with high purpose. Most of the important decisions of our time are made by the 10% of our population who have had the opportunity to extend their formal education through the college years. Within that 10% there's still a smaller number who make up an aristocracy which has little to do with wealth, or status, or temporal things—an aristocracy of those who care. Carnegie University, and her Alumni Federation, can reach and exceed our most optimistic goals, led by members of that aristocracy.

In 1909, Woodrow Wilson put it this way in a baccalaureate address at Princeton: "Nothing but what you volunteer has the essence of life, the springs of pleasure in it. These are the things you do because you want to do them, the things your spirit has chosen for its satisfaction . . ."

## Financial Aid Importance Stressed

An administration position of increasing importance and complexity at Carnegie Tech—that of director of financial aid—has been filled by Peter H. Nachtwey, 39.

His duties include evaluating student needs and granting aid to deserving applicants from one of the numerous scholarship programs, loan programs or special funds at Tech.

Mr. Nachtwey, who assumed the post in August, succeeds Dr. Dale E. Strick. Dr. Strick resigned to become dean of academic affairs at Millersville State College, Millersville, Pa.

Said Mr. Nachtwey of his new role:

"With more than half of the nation's population under 25 years old, and with the new federal and state aid programs for worthy students, plus the growing awareness by industry and foundations of the needs of higher education, the financial aid director has a key role in the administration of any major institution."

The new aid director will spend much of his time in counseling students—attempting to keep students from losing awards which have been granted, and granting aid to other students where the family financial circumstances have changed.

For such work, Mr. Nachtwey holds a professional diploma in vocational counseling from Teachers College, Columbia University. His other degrees are a master's in education from Columbia's Teachers College, and a bachelor's in chemistry from the University of Rochester.

Mr. Nachtwey was financial aid director at Rensselaer Polytechnic Institute, Troy, N.Y., before coming to Tech.

He and his wife, Rosemary, are the parents of four children. They live at 2353 Haymaker Road, Monroeville.

## "New Social Studies" Examined In Lecture Series

Tech's history department has begun a series of monthly lectures entitled "The New Social Studies" as a supplement to Tech's Experienced Teacher Fellowships in History program.

Professor Richard P. Ford, director of the program, stated that the lecture series will serve to better disseminate the results of curriculum research conducted by various curriculum development centers during the past five years. Seven directors of national curriculum development centers will take part in the lecture series.

Curriculum studies authority, Dr. Hilda Taba, discussed "Teaching Strategies for the Development of Thinking" at the first monthly lecture held Thursday, September 29, in the Graduate School of Industrial Administration auditorium.

Dr. Taba, a professor of education at San Francisco State College, has had extensive experience in elementary school social studies curriculum reform. Since 1962, she has directed three major projects sponsored by the United States Office of Education.

Most recently, Dr. Taba piloted the development of a comprehensive curriculum model for social studies in grades one through eight. Dr. Taba has been active in curriculum studies at the Dalton Schools, Ohio State University, the University of Chicago and San Francisco State College.

Born in Estonia, Dr. Taba came to the United States to pursue graduate study. She received her M.A. in psychology and education from Bryn Mawr College and her Ph.D. in philosophy of education from Teachers College, Columbia University.



Dr. Dorian



Mr. Lopatnikoff

## Professors on Leave Pursue Cultural Tasks

Two members of Carnegie Tech's music faculty, following their personal commitments to culture, are undertaking major projects during sabbatical leaves from the Tech campus.

They are Nikolai Lopatnikoff, composer and professor of musical composition, who is working on his fourth symphony, and Dr. Frederick Dorian, author and professor of music, who is researching a proposed book.

Both teachers received outside funds along with their sabbaticals from Tech to help finance their work.

The largest amount, \$23,750, was granted to Dr. Dorian by the Pittsburgh Foundation, Wherrett Memorial Fund. Dr. Dorian has resumed his investigation into the nature and form of European art patronage—and what it could mean to America—with an 11-nation tour covering both sides of the Iron Curtain.

His one-year project involves researching a proposed sequel to his influential book "Commitment to Culture." He will visit Denmark, Norway, Sweden, Spain, Portugal, Greece, East Germany, Czechoslovakia, Poland, Hungary and Yugoslavia to see how the arts are supported financially there and what the United States might learn from them.

Dr. Dorian's book "Commitment to Culture" was published in 1964 and is regarded by many observers as favorably helping to influence Congressional passage of the Arts and Humanities Bill, which President Johnson signed into law in 1965. Dr. Dorian was invited to the signing ceremony and was awarded one of the pens used by the President.

"Commitment to Culture" asks whether methods of art patronage used in Europe can be successfully transplanted in America. Such patronage is "America's most important problem in the cultural sphere," Dr. Dorian wrote, adding that "If our life is to keep pace with those aspects of American civilization in which we lead the world, we cannot without grave risk postpone our commitment to culture."

Dr. Dorian, who is the author of several other books and numerous scholarly articles, joined the Carnegie Tech faculty in 1936.

Carnegie Tech's other contributor to culture, Professor Lopatnikoff, was awarded \$7,500 by the National Endowment for the Arts, Washington, to pursue creative endeavors for a year. The grant, to be supplemented by Carnegie Tech funds to equal the recipient's annual salary, is given under a program of sabbatical leave awards to painters, sculptors, poets, novelists and composers teaching at higher learning institutions.

The purpose of the program, recommended by the National Council on the Arts, is to give such artists more time to pursue creative work in the arts. Professor Lopatnikoff received one of 50 such grants. He was recommended by the National Institute of Arts and Letters, of which he is a life member.

The Tech professor has written three symphonies, plus numerous other musical compositions. All of his orchestral works have been performed by major symphony orchestras in this country and abroad.

The Russian-born professor has been at Carnegie Tech since 1945. In addition to his musical accomplishments, he holds a degree in civil engineering.

Professor Lopatnikoff's wife is the poet Sara Henderson Hay.

## Urban Design Called "Bridge"

Carnegie Tech can make great contributions to physical aspects of urban life because "we have on campus the capability of inter-linking architecture with the key disciplines of engineering and economics," according to a recently-appointed professor of architecture and urban design.

He is Geoffrey Copcutt who previously was Visiting Andrew Mellon Professor of Architecture at Tech. He was appointed a professor for academic 1966-67 in September.



Mr. Copcutt is an architect who thinks urban design is the bridge between uncoordinated single buildings and the creation of whole city environments. In addition to his teaching duties, he is consultant to Carnegie Tech's Transportation Research Institute, a role consonant with his theory of urban design as a bridge and of the whole field becoming interdisciplinary.

Added to the harmony between Tech's architecture, engineering and economics departments, the department of architecture and urban design is working closely with many Pittsburgh agencies, including the Department of City Planning, the Urban Redevelopment Authority, ACTION-Housing and the Regional Planning Association. Each influences the other, Professor Copcutt said.

Architecture and urban design education at Carnegie Tech is further linked to reality, Mr. Copcutt said, "by the availability of a large industrial city, Pittsburgh, as an urban laboratory. Many of the school's programs are related to this city region, with its special topography and typical planning features."

Tech's new professor was born in Yorkshire, England, and matriculated at the University of London. He received his diploma of architecture from Edinburgh College of Art, and a First Class Degree in Traffic Engineering from the Royal College of Science and Technology at Glasgow. He was the Royal Institute of British Architect's Research Fellow in 1961.

Professor Copcutt, who has published numerous articles about his subject, has lectured on radio and television in the British Isles. He has lectured at many universities in his native land and in the United States, including Yale, the Universities of Pennsylvania and Illinois, Massachusetts Institute of Technology and Cornell University.

Among his professional accomplishments, Mr. Copcutt designed in Britain the world's first single structure city center. He was chief architect/planner for the New Regional City for the government of Northern Ireland, and was adviser on planning and urban design for the United Nations Special Fund in 1964.

Professor Copcutt is a partner in the Pittsburgh firm of Urban Design Associates. He and his wife reside at 233 Gladstone Road, Pittsburgh.



L-r first row—J. Whitmoyer, D. Collins, B. Logan, D. Baer, L. Aderson, E. Levine. Second Row—J. Butler, D. Korns, K. Phillips, B. Bullers, S. Addison. Third Row—R. Cairns, H. Burkholder, D. Peschel, B. Flynn, J. Hass, G. Crawford, assistant coach, and head coach Carl Olson.

## Cross-Country Team Goes Undefeated

While receiving little praise and even less recognition, Carnegie Tech's 1966 cross-country team continued its long tradition of fielding the district's strongest team by compiling a 9-0 record, the fourth undefeated season in the past five years.

In fact, since head coach Carl Olson took over the team in 1961, Tech's cross-country record is 53 wins, four losses, and one tie, for an amazing .929 percentage over the six seasons.

This year's team was paced by senior Harry Burkholder, already a three-time winner of the most valuable player award in cross-country. The Connellsville, Pa., runner finished first in seven of the nine meets, and second in the other two.

Giving Burkholder substantial help were two other seniors, Roger Cairns and Kem Phillips. Sophomore Bernie Flynn proved exceptionally strong and should be the mainstay of next year's team, along with surprise freshman John Butler, who registered points for Tech in every meet this year. Other lettermen on the team were senior Francis Collins, junior Dale Peschel, and sophomore Eric Levine.

## Tech Psychologist Studies Motivation

Carnegie Tech psychologist Leonard E. Jarrard is seeking to help solve the puzzle of human motivation with a new investigation of the hippocampus, a brain structure that thus far has defied scientific analysis of its function.

Dr. Jarrard, armed with both a \$40,200 grant from the National Science Foundation and a new approach to the subject, has two goals:

1. To study fiber connections of the hippocampus, using neuroanatomical tracings.
2. To reveal the link between the hippocampus and motivation by use of behavioral testing techniques.

This approach is the first of its kind. The hippocampus (a curved elongated ridge extending over the floor of the descending horn of each lateral ventricle of the brain) has been the object of many other investigations seeking to relate it to such things as memory, epilepsy and the sense of smell in humans, and rabies in animals. The results of these studies have been generally negative or inconclusive.

In his research project, entitled "Hippocampus and Motivation," Dr. Jarrard will use behavioral testing methods to examine the animal's motivation in eating, drinking and arousal under normal and unusual conditions.

His work on the hippocampus fiber connections—which can be done only after the subject animals are dead—involves a new tracing technique. Dr. Jarrard underwent a year of study at the University of Florida College of Medicine, Gainesville, Fla., to learn the surgical-staining method. Involved is the removal of the hippocampus from the brain, plus a staining process to identify degenerating neurons and fiber connections.

Dr. Jarrard, 35, received his undergraduate degree from Baylor University, and his master's and Ph.D. from Carnegie Tech, where he is now an associate professor of psychology. He is the author of many scientific papers, the most recent of which have dealt with various aspects of the hippocampus.

## 1967 Alumni Tours Planned

Have you made your vacation plans for 1967? If not, you might be tempted to embark on a trip to Switzerland or London in January; Spain, Portugal, and Tangiers in May; or Scandinavia in July.

The Alumni Federation is planning three European excursions for the upcoming year. Members who have contributed to the Alumni Fund may take advantage of these tours. They may be accompanied by a husband, wife, children, or parents residing in the same household.

The first charter which leaves New York on Sunday, January 15, offers alumni a choice between a week in London or a week in Lausanne. The return trip is scheduled for Sunday, January 22. The trip, which costs \$295 per person, includes jet transportation; six nights at either the London Hilton or the Lausanne Palace Hotel; and one meal a day in London or two meals a day in Geneva.

Perhaps you would prefer to spend three weeks touring the lands of El Greco, Ferdinand and Isabella, and Mohammed V. The Spain-Portugal-Tangiers excursion leaves New York by TWA Superjet on Monday, May 22, and returns Thursday, June 8. Included in the tour, which costs \$599 per person, is transatlantic travel as well as transportation between Iberian countries, first class hotel accommodations, and two meals a day.

If the northern climate is more to your liking, the four-week Scandinavian tour offers a varied itinerary. Departing from New York on Saturday, July 22, the excursion includes London, Bergen, Balestrand, Loen, Golaa, Oslo, Stockholm, Helsinki, Copenhagen, and Paris. Return to the States is set for Friday, August 18.

The tour, which costs \$695 per person plus \$250 for jet transportation, includes first class hotel accommodations and two meals a day while staying at hotels.

Both the Iberian and Scandinavian tour prices cover sightseeing fees, taxes on hotels and transportation, tips to bellboys and porters, and transfers of passengers and baggage between airports and hotels.

For alumni wishing only to take the charter plane to London or Paris on July 22, the charge is \$250. They may debark at either city, but on the return trip on August 18, they must depart from Paris.

Mr. Depp



## Depp Elected Alumni President

The Carnegie Tech Alumni Federation recently elected John M. Depp as president. Mr. Depp, who received his bachelor of science degree in 1939, has been active in alumni affairs for many years.

He is chairman of the Chemical Engineering Visiting Committee, a member of the Alumni Executive Committee and is a former president of the St. Louis Clan. Mr. Depp is also a member of the American Society of Mechanical Engineers.

Currently, he is Director, Central Engineering Department, Monsanto Company, a firm with which he has been associated since 1946. Previously, Mr. Depp worked for U. S. Steel Corporation and served as a major with the U. S. Corps of Engineers during the war. He is a Trustee of Carnegie Tech.

Mr. Depp is married to Louise Deemer Depp, a Tech graduate, and is the father of two sons, Robert Mark and James Arthur. The Depps reside at 2610 Bopp Road, St. Louis.

## Estate Planning Director Named

Pittsburgh attorney John M. Duff has been appointed Director of Estate Planning at Carnegie Tech. Mr. Duff, for several years, was associated with Potter Title and Trust Company. He later served as vice president and legal advisor to the trust department of Fidelity Trust Company, becoming a vice president of the newly-formed Pittsburgh National Bank upon Fidelity's merger with Peoples' National Bank.

A graduate of Princeton University where he was elected to Phi Beta Kappa, Mr. Duff earned his LL.B. from the University of Pittsburgh Law School. After being admitted to the Pennsylvania Bar, Mr. Duff practiced law with his father, John T. Duff, who later became Judge of the Court of Common Pleas of Allegheny County.

Mr. Duff has taught commercial law and business courses at the Pittsburgh chapter of the American Institute of Banking. He also conducted a law school graduates preparatory course for the Pennsylvania Bar Examinations.

Mr. Duff has held top offices in the Corporate Fiduciaries Association of Allegheny County and the Pennsylvania Bankers Association, Trust Division. He is a member of the Allegheny County Bar Association.

Mr. Duff



## Merger Effect on Stock Studied

A ten-year study of mergers and stock performance of 478 major U.S. industrial concerns undertaken by three Carnegie Tech faculty members has injected a new element—human behaviorism—into conventional economic theory.

The study, published in book form by former Tech professors Samuel R. Reid and John Bossons along with Kalman J. Cohen of the GSIA faculty, measures the stock performance of "active merger" companies—those with 11 or more mergers on record during the 10-year time span—as opposed to those of pure-internal-growth companies.

The authors discovered that the stock of the internal-growth companies advanced by 680% in contrast to an advance of 307% for the active-merger companies during the decade studied.

This, the economists contend, indicated incentives other than the profit motive, ordinarily assumed by economists to be the engine which makes the market economy efficient, to be responsible for a considerable amount of merger activity.

Dr. Cohen



Authors Reid, Bossons and Cohen propose the theory that mergers occur through management's desire for "security, power, prestige and advancement within the firm." Mergers, the authors maintain, benefit the managers of the acquiring firm much more than they do its stockholders.

In testimony before a Congressional subcommittee, Professor Reid defended the authors' theory. "If economists are going to have any impact at all in this area, they must explore the possibility that managerial and stockholder interests may differ and that the profit motive may not operate as well as theory supposes in large, publicly held firms."

In their published study, authors Reid, Bossons and Cohen offered several reasons why mergers may not be as profitable as internal expansion.

1. Sudden expansion by the acquiring company may be less profitable than a step-by-step expansion that is subject to repeated examination of costs and benefits.
2. In many cases, a substantial premium over market value is paid for assets acquired.
3. The costs in integrating a formerly independent organization are high or initially overlooked.

The ten-year study, financed by Carnegie Tech, the Ford Foundation and the National Science Foundation, defined company managers' primary interests as the growth of sales, assets and number of employees, all of which results in added power and prestige within the business community.

Mergers, the authors indicate, accomplish these aims very well, and because of management's independence from stockholder control, have become a popular expansion tool in the business world.

The study, done while professors Reid and Bossons were still at Tech, has occasioned considerable controversy among businessmen and academic and government economists.

While merger managers have criticized the study as statistically inaccurate, support for the authors' theory has come from such experts as Federal Trade Commission economist Williard F. Mueller.

Testifying before the Senate Subcommittee on Anti-trust and Monopoly, Mr. Mueller stated, "These authors are on the trail of something. Their explanation

may be oversimple, but it may also be as good as a single explanation of mergers as profit maximization."

Though taking a dim view of the merger as a profit stimulant, authors Reid, Bossons and Cohen did have this bright note for merger-oriented companies. Their research into stock market performance indicated that active-merger companies did a somewhat better job for their stockholders than did those firms which merely dabbled in the merger game.

## TRI Studies Flexible Rapid Transit

Carnegie Tech's Transportation Research Institute (TRI) has launched a study into the application of flexible rapid transit systems to transportation service within urban areas.

The project, funded by a \$20,400 grant from the state, is directed by Dr. Lester A. Hoel, associate professor of civil engineering and associate director of TRI.

The study was undertaken in recognition that present transportation technology (for example, urban bus systems on congested highways, or fixed-rail systems which are restricted by grade and curvature) represents a narrow range of alternatives from which to develop meaningful transportation solutions.

The project, which continues to June 30, 1967, received the \$20,400 grant from Pennsylvania's Department of Public Instruction under the state's higher education act because the study merges with the overall research and educational program at TRI.

Transportation planners recognize that if rapid transit systems are to work effectively, they must be flexible to immediate and future community needs, Dr. Hoel said. Transit systems must provide improved coverage in residential areas and central city districts based on population and job patterns, not on grade and curvature restrictions.

Dr. Hoel said such coverage implies greater route length than is economically feasible with conventional systems. The answer, he suggested, may lie in structures carrying lightweight, smaller vehicles. The TRI study will evaluate such concepts.

Dr. Rothfus



## Rothfus Wins Ryan Award

The sixth annual William H. and Frances S. Ryan Award for Meritorious Teaching has been presented to Dr. Robert R. Rothfus, professor of chemical engineering at Carnegie Tech.

Tech President H. Guyford Stever presented the award, established by a \$10,000 gift from Mr. and Mrs. Ryan of Sacramento, Calif. Mr. Ryan received his B.S. in mechanical engineering at Tech in 1924.

The award consists of a certificate and honorarium. Dr. Rothfus received his master's and Ph.D. degrees from Tech, and his undergraduate degree from the University of Rochester. He joined Tech's faculty in 1947. He is a member of the American Institute of Chemical Engineers, the American Chemical Society, the American Society of Mechanical Engineers and the American Society for Engineering Education.

Dr. Rothfus and his wife live at 81 Seneca Drive, Pittsburgh.

## New Newspaper Spotlights Education

Denton Beal, Tech's Director of Public Relations and former editor of *Carnegie Alumnus*, and president of Editorial Projects for Education, Inc., has announced the publication of a new newspaper for higher education, *The Chronicle of Higher Education*, a semi-weekly, 16-page newspaper covering the amazing growth of education news in the U.S.

Dr. Beal said the newspaper came as a result of a study by the E.P.E. group, financed by a grant from the Carnegie Corporation, which showed that the field of education, while growing faster than any comparable subject in the U.S., was receiving poor news coverage. The new paper will be priced at \$10 per year, and will make its first appearance this month.

## Awards System Undergoes Changes

With a recent change in the Federation by-laws, a new Distinguished Service Award has been added to the other awards given in the past. The description of all the awards have been revised during the past year and the new descriptions are printed below. Any alumnus may nominate candidates for these awards. Nomination forms may be obtained by writing to the Alumni Office.

### MERIT AWARD

To be awarded for exceptional accomplishment in the alumnus' chosen occupation to which he has brought a degree of progress or in which he has distinguished himself as a leader, thereby bringing honor to himself and to Carnegie Tech.

### DISTINGUISHED ACHIEVEMENT AWARD

To be awarded to alumni for distinguished service and accomplishment in any field of human endeavor that brings honor to the recipient and his Alma Mater. The contribution need not necessarily be one in which public acclaim is emphasized, but may consist of important creative effort in organization and development having social or educational value. The Distinguished Achievement Award should not necessarily be awarded each year and in no case should more than one be given in any one year.

Note: While previous service to the Federation or to Carnegie Tech is not a prime requirement for receiving the foregoing awards, such previous service will be weighed heavily when considering all criteria.

### SERVICE AWARD

To be awarded for meritorious service to Carnegie Institute of Technology or any of its alumni organizations and in excess of service rendered for which remuneration is received. By "meritorious service" is meant unusual service in the form of active participation in alumni or school affairs, faithful and continued effort in maintaining class or other alumni organizations, making or securing donations, or assisting in expanding the usefulness, influence, and prestige of Carnegie Institute of Technology.

### DISTINGUISHED SERVICE AWARD

To be awarded to alumni who have given prolonged, outstanding service of self or substance to Carnegie Tech or any of its alumni organizations and who have previously received a Service Award. The Distinguished Service Award should not necessarily be awarded each year and in no case should more than one be given in any one year.

## Role of Managers Redefined In Fairless Lectures



One of America's leading executives has called on managers of the nation's businesses to become leaders in the struggle to fulfill mankind's greatest dreams.

David E. Lilienthal, who guided TVA into existence as a founding director and chairman, and who later helped chart America's course in the nuclear age as chairman of the Atomic Energy Commission, said the task of modern managers "is to close the gap between men's goals and the fulfillment of those goals."

Mr. Lilienthal redefined the concept of managers in his three Benjamin F. Fairless Memorial Lectures, delivered Nov. 3, 7 and 8 at Carnegie Tech.

Viewing managerial life as a humanist art, Mr. Lilienthal's three talks developed the theme of management as "the capacity to get things done by an understanding of people and a capacity to persuade and move them."

Today's managers, Mr. Lilienthal said, must "translate into reality the visions and dreams of poets and artists, to bring to actual fruition in men's daily lives the aspiration of social reformers, the theories and concepts of scholars and economists—and bankers—the stirrings in the hearts of the compassionate, the desperate need of the hungry, the shelterless, the sick and heavy laden."

Failure to do so, he warned, will result in political strife and economic chaos.

In his lectures, Mr. Lilienthal urged manager-leaders to set the pace in attacking racial discrimination, air and stream pollution, urban disorganization and overseas development.

Technical means to meet these needs are almost unlimited, and there is no shortage of articulation of goals, of concepts, of phrase-makers, of theories, of institutes, of research grants or of reports, he said. But he called for manager-leaders to come forth to get the solutions moving.

"Management requires a humanistic outlook on life rather than merely mastery of technique," he asserted.

Noting the emphasis of the last two decades on surveys, studies and masses of facts, he agreed that they are valuable if well done, but he added:

"The degree of confidence some people tend to put in their magic is misplaced. This intense pre-occupation in surveyitis grows out of a lack of awareness that it is action by people, by individuals, that is central to the management function."

To move people requires understanding people and interpreting their desires, the kind of thing that doesn't show up in reports and graphs, he said.

Calling for manager-leaders to get involved, Mr. Lilienthal rejected federal intervention in all problems. The foundations for solutions will have to be laid "not in Washington but within the communities, among civic leaders in private life, in private business, in education, as well as in public affairs."

He charged that foreign aid programs for underdeveloped nations have failed and challenged private business managers to get the job done right.

"The most ominous single fact about our contemporary world is that the gap between the poor and the rich nations continues to widen," he said, creating a real threat to peace.

To get things moving in underdeveloped areas, he said, "is not solely a matter of technology and techniques, nor a greatly increased flow of capital, essential as these are," but rather "increasing the capabilities of people."

Much of our overseas failure is our fault, Mr. Lilienthal said. We have "inhibited the growth and maturing of indigenous talents; by our insensitivity to the way things look to the other fellow with a wholly different background . . ."

He said, ". . . leadership will emerge and managerial talent will develop . . . if the heart of the job to be done is conceived of as essentially one of stimulation, e.g., encouraging, inspiring and bringing out those latent capacities of men which are the best hope of mankind and whose development is the center focus of the managerial art."

## Women Urged To Assume Responsibility

"Women are like Negroes in that they've been told they're inferior so often they believe it."

The statement was made by Dr. Daryl Bem, a Carnegie Tech social psychologist, in a recent talk on the Tech campus under the auspices of the Margaret Morrison Carnegie College Honors Seminar.

Dr. Bem compared self-perceptions of female Americans and Negro Americans in relation to the more dominant male and white American groups. His lecture was entitled, "Training a Woman to Know Her Place: Techniques Learned from the Negro Revolution."

There is a widespread belief, Dr. Bem said, that women are "naturally meant" for housework and child-raising. He called the belief untrue, and he urged girls to break the chains that bind them and assert their equality with male competitors.



He said the links in the chain are subtly forged from the time a girl reaches her third birthday until she is 20. By then most girls are really convinced they don't want big success in a career.

Dr. Bem noted that Negroes are starting to protest their status and he called on women to do the same. "When a man proposes to you, ask him if he will consider it a truly equalitarian marriage. Point out the advantages of having an intellectually stimulating wife, and tell him you won't be one if you're confined to household chores," he said.

He said that if the couple can't hire someone to do household chores while the wife works, the chores should be split up between them. If necessary, he said, they should put their children in a day nursery, similar to nurseries being tried out in Russia, Scandinavia and Israel.

Dr. Bem said his wife works—she's a psychologist, too—but, they don't have any children, he said.

Her ideas were reported by the *Pittsburgh Post-Gazette* in an interview.



Dr. Bem is an assistant professor of psychology and industrial administration at Tech, but is teaching this semester primarily at the University of Michigan in Ann Arbor.

The Margaret Morrison Carnegie College Honors Seminar, limited to girls recommended by their departments at the end of their junior year, studies biological-social influences on the role of women, and surveys the current status of women. The theme this year is "The Role of Educated Women in Society." It is conducted by Dr. Ruth Beach, assistant professor of psychology.

## New Directions For Young Minds Goal of Project

An experiment to help young minds reshape their patterns of defeat has been launched by a Carnegie Tech professor and two colleagues.

Benjamin H. Griffith, Tech history instructor, is coordinator of the project entitled "Apprenticeship Program in Learning for Youth." It is an off-shoot of Project Upward Bound, the federally-sponsored anti-poverty effort aimed at rehabilitating neglected intellects.

The experimenters have two goals:

1. To test methods of altering learning patterns so that past-and-potential failures get a new outlook on study.
2. To attempt to teach teachers how to apply these methods.

Working with Professor Griffith are Mrs. Learita Garfield, of the Pittsburgh Psychological Counseling Center and a member of the Upward Bound staff, and Dr. David J. Reynolds, a Temple University psychologist who serves as a consultant.

Mrs. Garfield, called a "master teacher in learning behavior modification," is the operational arm of the team. She works with four teachers and some 40 high school pupils on weekends at Tech and at Pittsburgh's Oliver High School instructing the four teachers in the techniques she uses with the 40 pupils to overcome their academic difficulties.

Basically a personnel training project, the Apprenticeship Program is funded by a federal grant of \$6,140 through the Pennsylvania Department of Public Instruction.

Mr. Griffith's behavior modification program differs from more common methods of helping students (tutoring, counseling, etc.) by seeking to alter basic learning practices and attitudes toward learning. It draws upon existing methods of interacting with students, but adds principles and techniques of behavior modification, which is the application of learning theory to clinical problems.

"It formalizes a number of different techniques known to aid students, and helps the student put together some of these techniques in the proper sequence to form an effective behavioral chain," Dr. Reynolds said.

Here is how it works:

Meeting in groups of eight pupils with a common subject difficulty, the teacher and class discuss principles of learning and study. With the teacher's aid, the pupils try—as a group—to apply the principles to a specific content area, such as math or English. In this way the pupils help each other. Later, they can apply the principles to any other problem area on their own.

Learning behavior modification has been successful in the past. Mrs. Garfield and Dr. Reynolds conducted studies with control groups in which students who had flunked out of other schools attempted to make comebacks at a local junior college. The two found they could break the failure attitude in most cases, and prevent future failures. In a test program at Bellevue High School, their group consistently outperformed a similar group which did not have the benefit of their work.

In addition to this project, Professor Griffith is administrative director of Project Upward Bound, which is being conducted on the campuses of Carnegie Tech, the University of Pittsburgh and Mount Mercy College. His interest in the Apprenticeship Program developed from his work in Upward Bound.

## Alumni Forums, Concerts Scheduled

The first Alumni Federation Carnegie Forum held Thursday, November 10, featured as guest lecturer University of Pittsburgh political science faculty member Professor Irwin J. Schulman who spoke on "The Asian Mind". The Forum program also included refreshments and dinner. Subsequent Carnegie Forums, to be held Tuesday, January 31, and Wednesday, March 8, will deal with the arts and the youth of today.

The Alumni Federation also sponsored a Carnegie Fine Arts String Quartet Concert on Wednesday, November 2, and will sponsor two other concerts on Wednesday, December 14 and February 22. The Carnegie Fine Arts String Quartet features music department faculty members Sidney Harth, violin, Teresa Harth, violin, George Grossman, viola, and Theo Salzman, cello.

## Russian, American Managers Have Similar Problems

Russia's economic system today can be compared to one of America's major industries: the problems are much the same, but on a larger scale in the USSR.

The analogy was made by Dr. Richard M. Cyert, dean of Carnegie Tech's Graduate School of Industrial Administration, upon his return from an international meeting of the Econometric Society and the Institute for Management Sciences held in September in Warsaw, Poland.

In his conversations with Iron Curtain economists, professors and managers, Dean Cyert said he found indications that Russia is "struggling with some of the same questions we face in the United States, such as managerial compensation, the establishment of objective standards, bonuses and other such issues." Russian planners, he said, are facing problems much like those facing planners at General Motors or U.S. Steel, only the Russian's problems are on a larger scale.

Dean Cyert said he found no consideration of private enterprise, but most Communist bloc nations are now concerned with improving management and, in particular, with the problems of manager motivation. The Russians are grappling with decentralized authority to give plant managers more individual responsibility, he said, and they are giving more consideration to consumer preferences and how to measure them. The latter, he said, resulted mainly from problems with large inventories because of misjudgment and overproduction.

Representatives from Communist nations at the meeting were interested in mathematical models as planning tools, the use of computers in planning and in planning, itself, as a field of study, the dean said.

Dr. Cyert delivered a technical paper at the Warsaw session. Concerned with the use of credit in American business, it was titled, "Selecting a Portfolio of Credit Risks by Markov Chains," and it was written by Dr. Cyert and G. L. Thompson, Tech professor of applied mathematics and industrial administration.

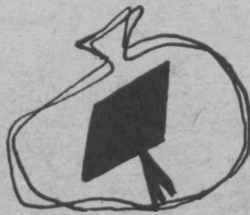
The dean said he found the Iron Curtain delegates eager to exchange ideas and get information about managerial practices in the West.

Disclaiming any expertise about Communist systems after his relatively short trip to Poland (he visited Denmark, Greece and Italy also), Dean Cyert said he gained some interesting insights from his conversations. Most Communist bloc economists believe, he said, that income distribution is more unequal in Russia than in any other Iron Curtain country. He cited the example that in the others there is little difference in the pay of a college professor and a common laborer. "Interestingly, the college professors seem to be proud of this," he said.

Dean Cyert



He said the Eastern delegates expressed great pride in their countries and in communism as an economic system. The conversations were free and open with no evidence of fear or hostility, Dean Cyert said.



## Grad bag

### Alumni Placement

The bureau of Placements has announced the discontinuance of a \$10 registration fee for their Graduate Résumé Accumulation and Distribution (GRAD) system.

The GRAD system allows the Placement Bureau to provide the qualifications of an alumnus interested in new employment to employers on a nation-wide basis. The service is available to any alumnus of Carnegie Tech.

GRAD is programmed to prevent an applicant's résumé from being sent to his present employer. Civil rights safeguards are also in effect. An alumnus can register for GRAD by contacting the Placement Director and completing an approved résumé form.

GRAD Data Center then extracts a major job title and 20 selectors from the applicant's résumé and stores them in an electronic file. Prospective employers search the electronic file and order copies of résumés which meet their specifications. Applicants who meet employers' specifications are then contacted by the employers directly.

### Musicians Honored

Two members of Carnegie Tech's music faculty have been honored by Phi Mu Alpha Sinfonia, the nation's oldest and largest national professional music fraternity.

Sidney Harth, head of Tech's music department, was initiated as a national honorary member, and Harry Franklin, associate professor of music, was initiated as a professional life honorary member in ceremonies at the fraternity's Regional Convention-Workshop on the campus of Mansfield State College, Mansfield, Pa., October 18-19.

Mr. Harth and Mr. Franklin performed a violin concerto at the event. A brass quintet of Tech students from the Alpha Omega chapter of Phi Mu Alpha also performed. They were Barry P. Catelinet, John Randall Purcell and Mark S. Silver, all of Pittsburgh; Terence R. Detwiler of Altoona, and John Bernard Dobrowski, of Springdale, Pa.

Maurice I. Laney, assistant head of Tech's music department and governor of Phi Mu Alpha's Province 21, was chairman of the convention.

### Hall of Fame

Carnegie Tech alumnus Dwight Beede has recently been elected to the Helms College Football Hall of Fame. The 1966 elections include eight outstanding players of former years and six distinguished coaches.

Along with the other recipients, Mr. Beede will have his name inscribed on the College Football Hall of Fame trophy which is lodged in Helms Hall, international sports shrine in Los Angeles.

Mr. Beede is a 1926 alumnus of Tech. Since 1950, he has been a football coach at Youngstown University. Mr. Beede also coached at Westminster and Geneva Colleges.

He resides at R.D. 3, Lisbon, Ohio.

### Mellon Professor

Aaron Frankel, veteran on-and-off Broadway director, has joined the Carnegie Tech drama faculty for one semester as a Visiting Andrew Mellon Professor.

For Mr. Frankel, who is teaching acting technique and an advanced course in directing, "Important, significant and exciting changes are occurring now in colleges. Professional and university theaters are working more closely with each other. All the tired, soft ways of both are being shaken up by the fresh thinking that is going on."

With his involvement in the professional and college theater worlds, Mr. Frankel is in a position to know.

A Phi Beta Kappa at Columbia University, he has been an associate professor of theater at Brooklyn College; associate professor of playwriting, University of Iowa; assistant professor of theater arts and director of theater workshop at Brandeis University; a teacher at Hagen-Berghof Studio, American Academy of Dramatic Arts, and currently conducts classes (in addition to those at Tech) on weekends at the New School for Social Research in New York City.

Mr. Frankel has directed more than 100 straight and musical plays, on and off Broadway and at leading stock theaters. He was a producer at the Margo Jones Theater in Dallas, and was awarded a Fulbright grant for study of the French theater. He is now executive vice president of the Society of Stage Directors and Choreographers.

Mr. Frankel said he is making the demands of his classes at Tech as "close to professional demands as I can."

The purpose of college drama, he said, is "to offer students many tools and experiences, under the highest standards, to get a beginning of practical understanding of their own strength and weaknesses as artists."

He said there is a need for even more college talent in the professional theater, although the situation is improving, thanks to schools like Carnegie Tech.

### Scholarship

Procter and Gamble scholarship holders attending Tech were honored with a dinner at the LeMont Restaurant on Thursday, September 22, which was given by the Procter and Gamble director of the program, Mr. D. M. Watt.

Freshman Procter and Gamble scholars are John Fetchko and Linda Erenrich. Other scholarship holders attending the dinner were Joseph Orens, Joseph Weber and Franklin Thieroff.

Representing Carnegie Tech at the dinner were John McCaffery, Management Information Center, George K. Brown, Dean of Student Affairs, Professor Herbert Toor, head of the department of chemical engineering and Richard Brandenburg, assistant dean, Graduate School of Industrial Administration.

The four-year undergraduate Procter and Gamble Scholarships are awarded by Carnegie Tech on the basis of the student's ability and promise.

### Economics Head

Dr. Martin Bronfenbrenner, economics professor in the Graduate School of Industrial Administration, has been appointed head of the economics department of Carnegie Tech's Division of Humanities and Social Sciences.

Dr. Bronfenbrenner joined Tech's faculty in 1962. He has taught at the University of Chicago, the University of Wisconsin, Michigan State University and the University of Minnesota. He has also held posts in the federal government, serving as an economist for the Treasury Department and as a statistician, analyst and financial economist for the Federal Reserve Bank, Chicago.

Dr. Bronfenbrenner is a graduate of Washington University (St. Louis) and received his Ph.D. from the University of Chicago. He is a member of several professional and honorary groups, including the Economic Society and Phi Beta Kappa.

The new department head is the author of more than 70 scholarly articles, plus many translations and book reviews. In 1961, he published a book, "Academic Encounter."

Dr. Bronfenbrenner, his wife and their two children live at 6612 Forward Ave., Squirrel Hill.

### Ethel Spencer

Miss Ethel Spencer, associate professor of English, emerita, at Carnegie Tech, died June 10, 1966, in Pittsburgh.

Miss Spencer held B.A. and M.A. degrees from Radcliffe College and spent a year in graduate study at Oxford University.

Miss Spencer joined Tech's English department in 1920. From 1948 until her retirement in 1955, she was head of the department of general studies in Margaret Morrison Carnegie College. After her retirement, she continued to live in Pittsburgh.

## Clan News

PITTSBURGH WOMEN'S CLAN held the Homecoming Tea on Friday, October 14. Peggy Lee Wentzel was chairman.

On November 30 a Dutch Treat Luncheon was held at the College Club. Guest speaker was Mrs. G. Curtiss Morrow. Her topic was "Traveling Abroad."

ROCHESTER CLAN had a wonderful Steak Roast at Ellison Park on September 9. We had a very fine turn-out.

ST. LOUIS CLAN has elected new officers for the next two years. President is Dr. Gino Marco (E'50). Vice president and program chairman, Wayne Nathanson (E'56); treasurer, Thomas Corrigan (E'38); secretary, Mrs. John Depp (Louise Deemer, M'40). Other members of the Board of Governors and committee chairmen are: Vince Arrigo (E'40), Roger E. Beal (E'44), Mrs. Roger E. Beal (Frances Carlock, A'43), John Depp (E'39), Richard Deverell (A'30), Neal Campbell (E'20), Richard Robbins (PM'58), David Shomper (E'65), and Mrs. Edward Tenney (Ellen M. Ross, A'40).

WASHINGTON, D.C., CLAN's members of the Board of Directors and their spouses met for a meeting and dinner on September 7. It was decided that all future Board meetings will be in the form of dinners, and spouses will be invited to participate. The next one is the first week in December.

Walter Ellis, (PM'38), Washington Chairman of the Alumni Fund Drive, and his co-chairman, Latham (Pete) Flanagan (A'33), were in charge of the kick-off dinner for the campaign at the Madison Hotel on October 14. With their large committee they expect to do big things.

Twelve of our members attended the Homecoming Events, October 15, in Pittsburgh. One of our members, John Howard Joynt (E'25) received the Service Award.

On Wednesday evening, November 9, at the American Association of University Women's Building, we held our annual dinner meeting, with Dr. William Mullin, Dean of Engineering, as the speaker.

In the planning stage is an affair in the spring.



## Classes—

**'08-'19** RAYMOND F. CROM (I'13), of Indianapolis, Indiana, is now retired. He was formerly with McQuay-Norris Manufacturing Company.

MAURICE STUBNITZ (E'13) is retired from active duties in the Stubnitz Spring Division of Hoover Ball and Bearing Company, Adrian, Michigan. At the time of the company merger of the Stubnitz Greene Corporation and the Hoover Ball and Bearing Company in 1965, Mr. Stubnitz was chairman of the board, president and chief executive officer of the Stubnitz Greene Corporation. He is presently a member of the Board of Directors and a consultant to the Hoover Ball and Bearing Company. In October Mr. Stubnitz received the Silver Knight of Management Award from the Lenawee County Management Club for his leadership both in management and civic activities.

WELBY H. HUDSON (A'11), a real estate agent and builder in Beverly Hills, California, is now retired. His home is in Van Nuys, California.

COMMANDER DAVID BOYD, USNR, RET., (E'08) is serving as an alumni advisor in Coronado, California, for the Carnegie Admissions Council.

CHARLES H. ANDERSON, SR. (I'16) suffered a serious accident this past June and will be limited in his activities until next year. His home is in Maitland, Florida.

ELIZABETH LAWRIE (M'12) had an exhibition of her watercolors at the studio-showroom of Robert Charles Whitley of New Hope, Pennsylvania, this past summer.

WALTER SCOTT (E'14) received the John Kellam Associates Award of \$100 for his watercolor, "Room and Board," which was exhibited at the 17th Annual New England Exhibition of Painting and Sculpture at the Silvermine Guild of Artists, New Canaan, Connecticut. Mr. Scott is a member of the Westchester (N.Y.) Art Society and the Yonkers Art Association.

The Kansas City, Missouri, *Star*, had a feature story on the Cleveland Playhouse, which recently concluded its 50th season. FREDERIC MCCONNELL (A'17), who is now retired and is living in California, was the first professional director for the Play House. He was director until 1958 and served as consultant for four more years.

A book titled "The Analysis of Physical Measurements" by Dr. EMERSON M. PUGH (E'18) and Dr. GEORGE H. WINSLOW (E'38) was recently published by the Addison-Wesley Publishing Company.

M. MARKLE STEEN (A'08), a retired Pittsburgh architect, died on June 28, 1966.

The Alumni Office has learned of the death of WILLIAM H. HARTMAN (I'12), of Glenshaw, Pa., on July 10, 1966.

JOHN W. CARR, JR. (E'15) died on May 15, 1966. He was retired and lived in Center Moriches, L.I., New York.

ROBERT T. MCCARTNEY (I'15), formerly an architect for the Gulf Oil Corporation, Boston, died on July 13, 1966.

MAX ALBERT (E'17), president of the Galesburg Soy Products Company in Galesburg, Illinois, died on August 25, 1966, after a long illness.

MERLE W. ALLEY (A'17), of Cleveland, Ohio, died on August 30, 1966. He had been ill for many years.

RAYMOND B. BOGARDUS (E'17) died on October 10, 1966. He was retired and his home was in Peninsula, Ohio.

The Alumni Office recently learned of the death of WALTER C. HOFFMAN (I'17), of Clearwater, Florida, in April 1965.

EDWIN C. HOYE (I'17), of New Castle, Pa., died on September 4, 1966.

THOMAS B. McDERMOTT (I'18), of Philadelphia, Pa., died on September 11, 1966. Mr. McDermott had retired five years ago after being with the Atlantic Refining Company for 40 years.

**'20**

The Alumni Office recently learned of the death of Mrs. Thor Engstrom (GERTRUDE MADEIRA, M) of Gary, Indiana, on August 11, 1966.

**'21**

HENRY T. ASPINWALL (A) is retired. The Aspinwalls (WINIFRED CRAMP, A) are living in Seattle, Washington.

Mrs. Gilbert T. Heddeaus (MILDRED KNOX, A), of Pittsburgh, died on September 12, 1966. Among her survivors is her husband, GILBERT T. HEDDEAUS (I'20).

CARL C. M. GREINER (E), a retired chemical engineer with Western Electric Company, Kearny, New Jersey, died on October 14, 1966. His home was in Packanack Lake, Wayne, New Jersey.

JEROME B. McMAHON (E) a consulting engineer and manufacturer's representative in Chicago, died September 25, 1966. In 1963 Mr. McMahon received a merit award from the Chicago Technical Societies Council for service to his profession and the community. He worked for more than 40 years in the instrumentation and automatic controls field. During World War II, he was a supervisor of instrument development at the atomic diffusion plant at Oak Ridge, Tenn., and helped direct development of control devices used in the atomic bomb project. He also served as a staff member of the Manhattan Project, which developed the atomic bomb. He was a member and past president of the Instrument Society of America. He was a former president of the Republican Committee of New Trier Township and an advisor on the Chicago Board of Education's curriculum committee.

**'22**

WILLIAM G. CONNOR, JR. (E), is a consultant in the Greensburg, Pennsylvania, area.

ROBERT B. SCHELL (A), of River Forest, Illinois, is a construction specifications specialist.

The Alumni Office was recently notified of the death of HAROLD R. BLACK (E) on July 2, 1961.

Wharton '23



**'23**

Mrs. Horace H. Johnson (SARAH WEST, A) of Bridgeville, Pa., was National PTA Representative at the three day "PTA Leadership Conference" held in June at Louisiana State University. Mrs. Johnson is national vice president from Region 11 of the National Congress of Parents and Teachers. She has served as president of the Pennsylvania state PTA and as chairman of the national chairman's conference. She is a member of the PTA Magazine Committee and the PTA Publications committee.

HUNTER P. WHARTON (I), general president of the International Union of Operating Engineers, received an honorary doctor of laws degree from Fordham University this September. Mr. Wharton has been associated with the American labor movement for 40 years. He is a vice president of the AFL-CIO. He also serves as a member of the executive committee and chairman of the public relations committee of the construction section of the Labor Conference of the National Safety Council. Mr. Wharton is an advisor on labor matters to the rehabilitation administration of the Department of Health, Education and Welfare, as well as to the Office of Equal Opportunity and the Office of Emergency Planning.

CARL W. PETERSON (E), of Albany, New York, died on September 4, 1966, in St. Petersburg, Florida.

Dr. E. C. LINN (I) was honored with a testimonial dinner upon his retirement as an administrator of Aliquippa (Pa.) Hospital. Dr. Linn received his B.D. degree in theology and his master of theology degree from Burton College. He received his Doctorate in Theology from the Galilean Seminary in Higgin's Bay, New York. He did Post Graduate work in Hospital Administration at Columbia University. Dr. Linn was ordained to the Methodist ministry in 1937. In 1945 he came to Aliquippa as minister of the First Methodist Church. Five years later he became associated with Aliquippa Hospital as a board member. In 1956 he was named the first administrator of Aliquippa Hospital.

ARTHUR C. THRONE (I), of Glenolden, Pa., died on October 23, 1966, after a long illness. Mr. Throne served as chairman of the Delaware County Republican Executive Committee from 1949 to 1957. He served two four-year terms as county commissioner, retiring in 1960. Mr. Throne had been very active in the Philadelphia Clan.

**24** WILLIAM A. WILLS (E), assistant superintendent of traffic and transportation, Savannah River Plant of DuPont, has retired after more than 31 years with the company. The Wills plan to live in Amherst, Virginia. Their new home was designed by their son, Bill Jr. (A'58), an architect with Hercules Powder Company.

GEORGE J. GREGUS (A), an itinerant music teacher with the Pittsburgh Elementary Schools, is playing viola in the Carnegie, Pa., Civic Symphony and in the South Hills Symphony.

MARK S. DOWNES (E), general manager—sales of the Timken Roller Bearing Company's Railroad Division, has retired after 41 years of service.

RENZO R. RUTILI (A), a furniture designer for Tomlinson of High Point, died on May 25, 1966, in Thomasville, North Carolina. Mr. Rutili had been a designer and Eastern sales manager for the Johnson Furniture Company in Sioux Falls, South Dakota, and Grand Rapids, Michigan, before moving to Thomasville, North Carolina.

SAMUEL J. SUGERMAN (E), former president of Kaufmann's Department Store, Pittsburgh, died suddenly at the Newark, N. J., airport on October 16, 1966. Mr. Sugerman retired five years ago as president of Kaufmann's and moved to Los Angeles, California, to become vice president of the May Company. Last year he retired from the May Company and helped found a management consultant firm specializing in mergers and acquisitions. Mr. Sugerman was a director of the Pennsylvania Economy League, the Chamber of Commerce of Greater Pittsburgh, the Better Business Bureau, the Retail Merchants Association, the Pittsburgh Symphony Association, and the Pittsburgh Playhouse. He was also a member of the board of the United Fund of Allegheny County and the Allegheny County Planning Commission. He recently was appointed to the board of trustees at Carnegie Tech.

**25** RAY L. SANDROCK (L) has retired from the engineering department of the E. I. Du Pont de Nemours & Company at Orange, Texas, after 38 years of service. He has been at nine different locations in the U.S. The Sandrocks plan to make their home in Charleston, West Virginia. They also want to do some traveling.

**26** RICHARD SITZLER (E) is serving as an alumni advisor in Charlotte, North Carolina, for the Carnegie Admissions Council.

*The Pittsburgh Press*, September 18 issue, had a feature story on "the modern look in churches." Christ Methodist Church, designed by Harold Wagoner (A'26), was pictured. The exterior of the chancel is pierced limestone accented with thick faceted pieces of glass.

LOUIS C. LUSTENBERGER (E) was elected a director of the General Time Corporation. President and a director of W. T. Grant Company, Mr. Lustenberger is a member of the board of trustees of Carnegie Tech.

Mrs. G. H. Pfeiffer (MADELINE AMBERG, M), of St. Petersburg, Florida, died on July 1, 1966.

**27** GEORGE E. SHEER (PM), vice president and general manager of McCall Corporation's Dayton, Ohio, Plant, has been appointed to the Philips Industries Inc. board of directors. Mr. Sheer is also a member of the board of Dayton Power and Light Co., Winters National Bank and Trust Co., the Dayton Art Institute, and the Dayton Museum of Natural History.

THOMAS F. BRASTOW (E) has been promoted from manufacturing manager to product manager in the industrial packaging department of the American Viscose Division of FMC Corporation, Philadelphia. Mr. Brastow joined American Viscose in 1927.

KENNETH MILLS (E) of Glenside, Pa., is serving as an alumni advisor for the Carnegie Admissions Council.

The Alumni Office was recently notified of the death of VERNON L. SPENCER (PM) in February 1966.

GENIA SIDRANSKY (M) is assistant district supervisor for the D.P.W. Public Assistance in Pittsburgh.

L. MAURY TUCKERMAN (A), a concert manager with Hurok Attractions, Inc., New York City, died on October 23, 1966.

Hotchkiss '28



**28** JOHN F. HOTCHKISS (E) has been appointed superintendent of the sundries manufacturing division at the Kodak Park Works of Eastman Kodak Company. Mr. Hotchkiss joined Kodak in 1934. He has served as a regional vice president of the Carnegie Alumni Federation and is a former president of the Rochester chapter of the Carnegie Tech alumni association. The Hotchkisses have three daughters.

JOHN A. HAGAN (E), a vice president of Koppers Company, Pittsburgh, has been named manager of operations in the Engineering and Construction Division.

**29** FREDERICK LOWE, Jr. (A) was elected an elementary-junior high school representative of the National Band Association. The NBA is an organization of representatives of all types of bands in the U. S. Mr. Lowe will attend the NBA convention in Chicago in December. He will be one of three members on the board of directors representing all elementary school and junior high school bands in the U. S. Mr. Lowe is director of the Sunbury City (Pa.) Band and director of instrumental music at Shikellamy Junior High School.

PAUL L. HEATH (A) is presently area merchandise manager of residential products for Westinghouse Electric Corporation, Bala Cynwyd, Pa. He handles the entire Eastern Seaboard area. Mr. Heath is also serving as an alumni advisor for the Carnegie Admissions Council.

FRANCIS J. KLEMPAY (E), a patent attorney in Youngstown, Ohio, died on September 2, 1966.

**30** ROBERT P. FREEHAFFER (E) has been appointed director of purchases with The Carpenter Steel Company, Reading, Pa. Mr. Freehafer will coordinate the purchasing policies of Carpenter plants in Reading, Bridgeport, Conn., Union, N.J., and New Brunswick, N.J.

Lt. Col. VICTOR L. BOHDEN (E), a government civil and hydraulic engineer with the U. S. Army Reserves, Pittsburgh, died on July 3, 1966. Colonel Bohden was a veteran of World War II and past commander of Post 549 of the American Legion. He was a member of the American Military Engineers and Professional Engineers of Pittsburgh.

The Alumni Office recently learned of the death of ANNA MARIE HUFNAGEL (A), of Pittsburgh, on June 2, 1966.

**31** ALFRED C. SCHILDKAMP (I) has recently completed 40 years of service with Westinghouse Electric Corporation, Raleigh, North Carolina.

RAYMOND H. BUCKLEY (I) is secretary-treasurer of Carley Manufacturing Company, Inc., Olean, New York.

WILLIAM E. FLUHARTY (PM) writes that he is now a grandfather to two infant boys. The Fluhartys live in Wilmington, Delaware.

Mr. and Mrs. William R. Lewis (FRANCES ARDAN, A) visited Spain and Portugal recently.

ARTHUR F. SIDELLS (A) is serving as president of the Ohio State Board of Examiners of Architects in Columbus. He has served two consecutive terms of office. He is also a visiting lecturer in the department of architecture at Kent State University.

Mr. and Mrs. C. M. BELUSAR (A) have moved to Houston, Texas.

JOHN C. EDWARDS (A) had a one man show of watercolor paintings at Charles Center in Baltimore this past summer. Last year he completed two years as president of the Baltimore Watercolor Club. His daughter, Sherrie, has received her master's degree in sculpture from Ohio University at Athens.

THOMAS E. ZIMA (E) is presently assistant chief draftsman with Youngstown Sheet and Tube Company, Youngstown, Ohio.

CYRIL M. BELUSAR (A) is now in Houston, Texas, where he is coordinator of graphics production for the Humble Oil and Refining Company. Mr. Belusar writes his sincere regrets at having to miss this year's Homecoming.

RICHARD A. CIMIOTTI (A), a senior engineer in the Sales Service Section of Johns-Manville Corporation, New York City, was one of 18 employees to be honored as members of the Company's Quarter Century Club at a dinner held in September. Mr. Cimiotti is a member of the Ardsley (N.Y.) Zoning Board of Appeals and is chairman of the Ardsley Commuters Association.

DON H. KREY (E) has been appointed marketing manager of the Staple and Machine Division of the International Staple & Machine Company, Butler, Pa. He will direct the company's sales, advertising and sales promotion activities.

LEE M. WEED (E) is president of the Master Builders' Association of Western Pennsylvania, Inc.

Cimiotti '31



Krey '31



Roush '31



"A New Concept in Calendar Design" is the title of an article by S. Everett Perlberg and REX C. SEANOR (E) which appeared in the July issue of *SPE Journal*. Mr. Seanor is vice president in charge of engineering and a member of the board of directors of the Adamson United Company, Akron, Ohio.

SAMUEL E. ZIONTS (A) has been promoted to senior architect with Deeter-Ritche-Sippel, an architectural firm in Pittsburgh. Mr. Zions will be responsible for the firm's architectural, mechanical and structural coordination.

STANLEY J. ROUSH (A) has been promoted to the newly created post of executive vice president in charge of builder and consumer products of Borg-Warner Corporation, with headquarters in Chicago. He will supervise the York, Norge and Ingersoll-Humphreys divisions. Mr. Roush had been a group vice president since 1956 and previously was president of the Morse Chain Company, a subsidiary.

**32** WILLIAM H. REED, III, (E) is president of the Carolina Fabricators, Inc., and executive vice president of the Embree-Reed, Inc., Charlotte, North Carolina. This mechanical contracting business covers all of the Southeastern states.

The July 3 issue of the *New York Times* had a story on technical writers. IGOR J. KARASSIK (E), general manager of the Advance Products Division of Worthington Corporation, has written over 1,000 technical articles in the last 20 years. He is among a small group of "competent and respected practitioners of a new and growing craft—technical writing." He received the Worthington Corporation's first Worldwide Henry Award.

JOHN M. GROVES (E) is retired. He has 31 years of service with the federal government. Since 1946 until his retirement last year he had been with the Sacramento District, U. S. Army Corps of Engineers. He assisted in the hydraulic design of such dams as Folsom, Pine Flat, Farmington and the Merced stream group in the Sacramento and San Joaquin Valleys. Mr. Groves now has a private practice in civil engineering in Sacramento.

GEORGE H. SUITT (E) is division merchandise manager with McCurdy & Co., Rochester, New York.

WILLIAM REED (E) is serving as an alumni advisor in Charlotte, North Carolina, for the Carnegie Admissions Council.

WILLIAM W. JUSTICE (E) has been appointed president of manufacturing operations for U. S. Steel's American Bridge Division.

PAULINE M. CLAIR (A), of Pittsburgh, is a public assistance case worker for the Department of Public Welfare.

The Alumni Office was recently notified of the death of WILLIAM R. GEALEY (E) in December 1965.

# Marriages

Eileen Letchworth (A'45) and Paul Larson  
 Jean M. Barr (E'58) and Derrick J. Page  
 AT HOME: 1515 Penn Avenue, Pittsburgh 15221

Lya Marquez and David L. Powers (E'60)  
 AT HOME: Valparaiso, Chile

Sandra Jean Klinkenberg (A'61) and Donald J. Wonderling  
 AT HOME: 1121 Carlisle Street, Natrona Heights, Pa.

Patricia Louise Brzezicki and Marion Joseph Makiel (E'61)  
 AT HOME: Philadelphia, Pa.

Sue Anne Steiner (M'64) and Thomas Stephen Terpack (A'66)  
 AT HOME: 5528 Fair Oaks Avenue, Pittsburgh 15217

Martha E. Cohen (M'64) and Paul W. Pheneger, Jr. (E'63)  
 AT HOME: 2260 Hanover, Palo Alto, California

Elaine Kilden (A'64) and Mark Shapiro

Barbara M. Applbaum (M'64) and Joseph H. Jaffe  
 AT HOME: 269 A South Harrison Street, East Orange, New Jersey

Kristin Bertha Kelman (M'64) and John Edward Smith  
 AT HOME: Albany, New York

Marjorie Ruth Morrison and Specialist 4 William Charles Hofer, U.S.A. (A'64)

Kathy Diane Thompson (M'65) and Samuel J. Dechter (E'64)  
 AT HOME: 1701 Parkline Drive, Pittsburgh 15227

Patriciann Furnari and Frank O. Brady (E'65)  
 AT HOME: 2112 Broad Street, Durham, North Carolina

Mary Krein and David S. Howarth (E'65)  
 AT HOME: 6202 Howe Street, Pittsburgh 15206

Susan Carol Clutter (M'66) and Ronald Walton  
 AT HOME: Shady Oaks RR 1, Minooka, Illinois

Susan Elaine Hartmann (M'66) and Kenneth Harold Kantrowitz (A'63)  
 AT HOME: 770 Greenfield Avenue, Pittsburgh 15217

Lorna Gail Hershberger (M'66) and James R. Curran  
 AT HOME: 1803 19th Street, N.W., Washington, D. C.

Beatrice Santelli and Elias Christ Lampiris (E'66)  
 AT HOME: Akron, Ohio

Sandra J. Shusda (E'66) and Bruce Bell (E'66)  
 AT HOME: 8822 Hunting Lane, Laurel, Maryland

Betty Ann King (M'66) and William Suppes Unger (M'65)

Jacqueline J. Kwasniewski (A'66) and Brian J. Hales (E'66)  
 AT HOME: 1926 Third Avenue, South, Minneapolis, Minnesota

Joyce Jean Bowie and Sherman A. Scott (E'66)  
 AT HOME: 4460 Powell Street, Memphis, Tennessee

**33** SARAH L. FREEDMAN (M) is a social worker in Los Angeles County, California.

JOHN L. KRONENBERG (PM) received the William H. and Harry J. Friedman Memorial Medal for "distinguished service in and for graphic arts education" at the New York School of Printing in June. The medal, bestowed annually since 1938, is considered one of the highest personal honors in the industry. Mr. Kronenberg is vice-president and a director of S. D. Warren Company, paper manufacturers with headquarters in Boston. He is also treasurer of the Research and Engineering Council of the Graphic Arts; a director, and member of the executive committee, Graphic Arts Technical Foundation; and vice chairman, National Scholarship Trust Fund.

E. L. STENTZ (E) is vice president in charge of corporate engineering for Packaging Corporation of America, Rittman, Ohio. He is a trustee of Wadsworth-Rittman Hospital Association and a director of Rittman Junior Achievement. He is a member of Rittman Rotary and Rittman Chamber of Commerce.

THOMAS B. BLACKWOOD (E) transferred to Latrobe, Pa., from Cincinnati, Ohio, as manager of product development with Vanadium Alloys Steel. Mrs. Blackwood is the former MARY GREEN (M'32).

**34** LEONARD H. ROSENBERG (E), president of The Chesapeake Life Insurance Company of Baltimore, has been elected chairman of the executive committee of the National Association of Life Companies. The organization consists of 217 of the medium sized life insurance companies all over the United States. Mr. Rosenberg also was appointed a member of the State of Maryland's new Educational-Cultural Television Commission. He is a lieutenant colonel in the Air Force Reserve with an educational staff rating. He is also a member of the visiting faculties of the Institute of Insurance Marketing, Louisiana State University, and of the Towson State College in Aerospace Sciences. He is a trustee of the Douglass Sears' Scholarship Fund of the University of Maryland and a member of the Board of Trustees of Carnegie Tech.

NORMAN RUTKIN (E) is now vice president of operations of Revlon, Inc., Newark, New Jersey.

RAYMOND C. HEILMAN (I) is presently superintendent of the roll shop at the McDonald Mills of U. S. Steel. Mr. Heilman joined U. S. Steel in 1936.

ADDISON E. MCCOY (E), of Orangeburg, South Carolina, is president of McCoy's, Inc.

EDWARD C. MARSHALL (E) is director of mechanical research for Kimball Systems, Inc., Belleville, New Jersey.

NELSON W. HARTZ (E) has been elected a vice president of Mine Safety Appliances Company. He is responsible for sales activities. He has been director of marketing for all MSA industrial operations since 1930.

J. CLIFTON CARR (PM) has been appointed to the newly created position of director of planning for the Challenge Machinery Company, Grand Haven, Michigan. He will also continue his duties as advertising manager. Mr. Carr joined the company in 1956.

ANTHONY E. OSTROWSKI (E), of New Castle, Pa., died on May 30, 1966.

The Alumni Office has learned of the death of JOHN H. VOEGLER (E) in Greenville, South Carolina. He was associated with Texize Chemicals, Inc.

The Alumni Office has learned of the death of JOHN W. SOARS (E) on August 25, 1966. Mr. Soars lived in Pittsburgh.

**35** IRA E. PARIS (A), owner of the Paris Construction Company, New York City, is serving as chairman of this year's Parents Program at Carnegie Tech. His son, Glenn David, is a sophomore in the department of architecture.

CHAUNCEY KELLEY (A), music director of the Savannah, Ga., Symphony, was guest conductor of the Fort Wayne, Ind., Philharmonic in November.

FRED S. DUBIN (E), a partner in the firm of Fred S. Dubin Associates, Consulting Engineers, participated in a panel discussion at the American Gas Association Annual Convention in Atlantic City in October. Mr. Dubin discussed the total energy concept, which is a system utilizing waste heat for heating airconditioning and process when a system of on-site power generation is used.

ROBERT K. BOECKMAN'S (E) daughter is attending Carnegie Tech. His son graduated this past June. Mr. Boeckman is manager and treasurer of the J. J. Boeckman & Son Packaging Company in Dayton, Ohio. He is also serving as an area chairman for the Carnegie Admissions Council.

Warren '35



The Legion of Merit, the military's second highest peace-time award, was presented to Colonel ROBERT E. WARREN (E). Colonel Warren, deputy commander of the U. S. Army Satellite Communications Agency, received the award at his retirement ceremonies in July. He also received a SATCOM Certificate of Appreciation. Both awards paid tribute to his scientific achievements in the field of satellite communications. Colonel Warren is presently a senior member of the technical staff of System Sciences Corporation in Falls Church, Virginia.

JOHN F. SALAY (E) has been named product sales manager of ally ingot sales for the metal products department of The Dow Chemical Company, Camden, New Jersey. He joined the company in 1955.

**36** DR. C. DELISLE CRAWFORD (A) has been promoted to professor of education at Wayne State University, Detroit.

DONALD M. MCCLAIN (E) is working as a project engineer in West Pakistan on a link canal for Tipton & Kalmbach of Denver, Colorado.

EDWIN W. FORD (E) is presently an industrial appraiser for the State of Arizona. The Fords are living in Phoenix.

NANCY V. LEITCH (A) is an assistant professor in the art department at Longwood College, Farmville, Virginia.

REGIS C. RAAB (E) is with the American Cyanamid Company as director of research in the Bloomingdale Department, Havre de Grace, Maryland.

ALVIN LARSON (E), of Sewickley, Pa., has retired from his position with Gulf Research.

GEORGE T. N. ROBERTS (E) retired from his position with Shell Oil Company after 29 years of service. He has opened a school for horseback riding in Norman, Oklahoma.

The Alumni Office recently learned of the death of FRANK E. GROMMES (E), of Pittsburgh, on June 1, 1966.

Mrs. Louis Steinbach (AMALIA L. ROSE, A) of Pittsburgh, died on August 8, 1966.

**37**

CHARLES J. WALTON (E) is chief of the Finishes Division at the Alcoa Research Lab, New Kensington, Pa.

ALAN F. MEYERS (E) is presently corporate director of production control for Dresser Industries, Inc., Dallas, Texas. He has been with the firm for 12 years.

RAYMOND M. REISACHER (E) is vice president in charge of operations with United Engineering and Foundry Company, Pittsburgh, and is a member of the board of directors.

REGIS F. FEY (E) represented Carnegie Tech at the installation ceremony of the new president at Slippery Rock College last spring. Mr. Fey is chairman of the Middlesex Township Planning Commission and president of Fey Steel Company, Inc., Mars, Pa.

I. NEVIN PALLEY (E), formerly executive director of technical operations, was named general manager of Military Space Systems of Martin Company, Denver. He joined the company in 1962.

Palley '37



**38**

KATHRYN S. HERPEL (A) has been transferred by Continental Can Company to New York City to work in the design center of its Consumer Products Division.

ROBERT F. PLOTT (E) is serving as an alumni advisor in La Jolla, California, for the Carnegie Admissions Council.

Cmdr. WILLIAM S. RALSTON (E) is officer in charge of construction at Marine Base, Camp Pendleton, California. The Ralstons returned to the United States last fall after spending three years in Naples, Italy. They had the opportunity to travel extensively during this period.

PAUL R. WATSON'S (E) daughter, Helen Liz, is a freshman at Margaret Morrison this fall. Mr. Watson is a supervisor of information planning with U. S. Steel in Pittsburgh.

Vice Admiral CHARLES B. MARTELL (E) had an editorial commentary on "Present Readiness, Future Improvement and Continuing Research: The Antisubmarine Warfare Programs Spectrum," which appeared in *Data*, July 1966 issue. Admiral Martell became the first director of Antisubmarine Warfare Programs, a top level Navy post in the Office of the Chief of Naval Operations, in 1964.

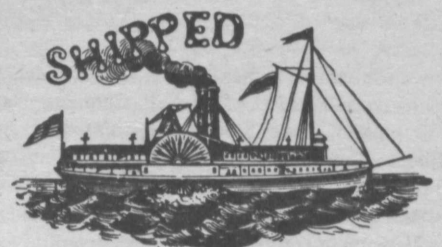
Mrs. Edward D. Harvey (DOLORES E. THOMPSON, M), of Wilmington, Delaware, died on August 22, 1966, after a long illness. Among her survivors is her husband, EDWARD D. HARVEY (E'39). Mrs. Harvey was chapter president of the Wilmington branch of the American Association of University Women in 1963-64. She was currently education chairman for the chapter.

**39**

Dr. GEORGE A. ROBERTS (E) has been elected president and a director of Teledyne, Inc., Hawthorne, California. Dr. Roberts was president of Vasco Metals Corporation from 1961 until the merger of Vasco into Teledyne in June of this year. He is the inventor of a number of special high temperature and high strength alloys widely used in aerospace and industrial applications, and author of the book *Tool Steels*. He is a trustee of Carnegie Tech. Mrs. Roberts is the former BETTY MATHEWSON (M).

C. T. HALLER (E) is now an assistant manager of the nickel sales department of the International Nickel Company, Inc. Mr. Haller joined Inco in 1945.

ARTHUR B. WESTERMAN (E), of the Battelle Memorial Institute, Columbus, Ohio, is in Southeast Asia as coordinator of the preparation of books categorizing the junks and small coastal freighters operating in the water of Thailand and South Vietnam. Authoritative, current, and usable documentation on legitimate maritime traffic has been virtually nonexistent. T. BENJAMIN FREUDENREICH (E'61) is a member of one of the two Battelle teams working on the project.



'40

Dr. R. A. FRIEDEL (E), of the U. S. Bureau of Mines, Pittsburgh, received the Henry H. Storch Award from the Division of Fuel Chemistry. This award is given annually to the citizen of the U. S. who has contributed most to fundamental or engineering research on the chemistry and utilization of coal during the preceding five years. Dr. Friedel was presented the award during the 152nd National Meeting of the American Chemical Society in New York City in September.

JOHN LUTHER (E) is serving as an alumni advisor in Charlotte, North Carolina, for the Carnegie Admissions Council.

JAMES P. COUGHLIN (E) has been promoted to the new position of vice president—marketing in the Molded Products Division of Amerace Corporation, Butler, New Jersey.

HENRY J. PARKER (E) is president of World Products, Inc., San Diego, California. This is a new company to franchise automotive products.

L. ROBERT SHOENBERGER (E) has been appointed staff metallurgist-sheet mill products in the Production Technical Services Branch of Jones & Laughlin Steel in Pittsburgh. Mr. Shoenberger joined J&L in 1940.

W. J. DIXON (E), assistant to the president of Rock Island Lines, is author of an article, "Repair Shop Management: Key to Better Car Supply," which appeared in *Modern Railroads*, September 1966 issue.

JOHN W. CULVER (E) has been promoted as manager of planning with Alan Wood Steel Company, Norristown, Pa.

FRANK Q. JONES, Jr. (E), of Youngstown, Ohio, died on October 17, 1966. He had been a sales engineer for the William B. Pollock Company for 20 years. He was a member of the American Iron and Steel Institute and the Mahoning Valley Industrial Management Association.

Friedel '40



'41

JOHN D. BEATTIE (A), of Havertown, Pa., is now retired.

CHARLES M. RADER (E) is presently vice president of heavy industrial sales with Heyl & Patterson Inc., Pittsburgh.

GEORGE W. ZENDER (E) is a materials engineer with NASA at the Langley Research Center, Hampton, Virginia.

Dr. CARL W. WEIL (E) has been named production manager-chemicals in the Tar and Chemical Division, Koppers Company. He will be responsible for the production of chemicals at the division's Bridgeville, Oil City, and Richmond, California, plants. Mrs. Weil is the former ALICE CUMMINGS, M).

GEORGE W. KROSS, Jr. (E) has been named general manager of The Babcock & Wilcox Company's Tubular Products Division, Beaver Falls, Pa. Mr. Kross joined the company in 1947.

Col. EUGENE DATRES (E) has been appointed deputy commander of the Army Satellite Communications Agency at Ft. Monmouth, N.J. He will be responsible for the Army communication satellite program and for the Army portion of the defense communication satellite program.

Kross '41



WILLIAM E. McMINN (E) has been promoted to the position of paper mill superintendent of West Virginia Pulp and Paper, Luke, Maryland. Mr. McMinn joined the company in 1941.

PAUL A. FRIEDLANDER (E), division superintendent, dock and blast furnaces, U. S. Steel, Lorain Works, is chairman of the Industrial Division of the 1967 United Appeal Crusade of Mercy campaign. Mr. Friedlander also is vice president of the Lorain Community Hospital, Inc., and a member of the United Community Service Board of Directors.

JAMES C. ARMSTRONG, Jr. (A) has been named to the position of chief of production with Deeter-Ritchey-Sippel, a Pittsburgh architectural firm. He is responsible for the production of the firm's working drawings and specifications.

Berkowitz '41



E. SIDNEY BERKOWITZ (A) has been elected president of the Clarendon Extract Corporation, Boston. He will also serve as a director.

Mrs. Robert W. Gruber (ELEANOR INK, M) of Sellersville, Pa., and WALTER POLOVINA (E), of Princeton, New Jersey, are serving as alumni advisors for the Carnegie Admissions Council.

'42

J. PAUL MAY (E) has joined William R. Trautman Associates of Buffalo as head of the mechanical engineering department. The company provides a wide range of engineering services to industry, schools and municipalities. Mr. May, previously associated with Cornell Aeronautical Laboratory for 11 years, is joining KENNETH M. KING (E'47) in the firm.

ROBERT R. ROTHFUS (E), professor of chemical engineering at Carnegie Tech, received the William H. and Frances S. Ryan Award for Meritorious Teaching in September. Dr. Rothfus is the sixth recipient of the annual award established by a gift from Mr. and Mrs. Ryan of Sacramento, California.

Mrs. JOANNE LUTHER (M) is serving as an alumni advisor in San Diego, California, for the Carnegie Admissions Council.

Mr. and Mrs. KENNETH L. BICE (E, and ELEANOR BRIGHT, M'39) are now living in Santa Monica, California. Mr. Bice is president of Executive Job Counselors of Los Angeles and Philadelphia.

JERE V. KEISER (E) is now in Tulsa, Oklahoma, where he is a metallurgical service engineer with Jones & Laughlin Steel Corporation.

VICTOR M. MARCY (E) is a chemist and group leader in research and development with the Calgon Corporation, Pittsburgh.

ROBERT B. CHALLENGER (A) is teaching in the Pinellas County Public Schools, St. Petersburg, Florida.

The DAVID J. REXES (E) and their two children are now living in Glendale, Ohio. Mr. Rex is plant manager for Diamond Alkali, Cincinnati.

'43

Dr. MAX FISHMAN (E) is a member of the technical staff of Stanford Linear Accelerator Center, Stanford, California.

JOSEPH N. BETZ (E), of Stoneharbor, New Jersey, is presently regional manager of American Gas Assoc., Inc., New York City.

T. E. TEPRAG (E) is a member of the process control group of Reactive Metals, Inc., Niles, Ohio.

JERRY N. SCHIFF (PM) has a new position as a sales representative with Duquesne Lithographing Company, Pittsburgh.

Dr. RICHARD M. LODGE (A) is now dean of the graduate school of social work at the Richard Professional Institute, Upper Darby, New York.

JACK L. BOWERS (E) is general manager of Convair—Division of General Dynamics, San Diego, California.

LOUIS JOSEPH SCHMIDT (A) has been named as the architect to design the new St. Anthony Catholic Church of Watson, West Virginia.

WILLIAM J. HAPPEL (E) is president of the Power Control Corporation in the RIDC Industrial Park, O'Hara Township, Pa.

ROSS B. HOLMES (E) has been appointed vice president-marketing of the Hoeganaes Sponge Iron Corporation, River-ton, New Jersey.

WARD E. DUCHENE (E), of Ardmore, Pa., LEWIS A. WETZEL (E), of Doylestown, Pa., and Mrs. H. Nelson Crooks (EVELYN ORR, M), of Princeton, New Jersey, are serving as alumni advisors for the Carnegie Admissions Council.

Dr. E. N. PETRICK (E), chief scientist, U. S. Army Mobility Command, Warren, Michigan, was named a "Distinguished Engineering Alumnus" at an Honors Convocation at Purdue University last spring.

JACK L. BOWERS (E), of El Cajon, California, is serving as an alumni advisor for the Carnegie Admissions Council.

## Births

Suzanne Marie born to Mr. and Mrs. Harry R. Wall (E'31)

Henry Carter, Jr. born to Mr. and Mrs. Henry C. Corson (Martha Snivly Morrill, A'47)

Elisabeth Rose born to Mr. and Mrs. Richard Roy (A'53)

Maria Carmela born to Mr. and Mrs. Michael J. Rozewski (Teresa Fusca, A'53)

Robert William born to Mr. and Mrs. William O. Henly (E'55, and Jean A. Tobias, M'54)

Susan Mara born to Mr. and Mrs. Lawrence Schneirov (E'47, and Shirley Gelman, A'58)

Alan Michael born to Mr. and Mrs. Donald D. Franks (E'56, and Dorothy A. Davis, M'58)

Brian Peter born to Mr. and Mrs. Joel M. Rudick (A'61, and Joyce Rayvid, M'61)

A son born to Mr. and Mrs. Robert V. Pearson (Marianna E. Buck, M'62)

Amy Rachel born to Mr. and Mrs. Bruce Temkin (E'62, and Susan Weisshaus, M'63)

Amy Blair born to Mr. and Mrs. Fritz Mayhew (A'63, and Patricia Waxman, A'63)

DeAnna Marie born to Mr. and Mrs. John E. Kuder (E'64)

A son born to Lt. j.g. and Mrs. Robert L. Goldman (A'64, and Sandra L. Fogelsanger, A'64)

Joseph F., III, born to Mr. and Mrs. Joseph F. Dolowy, II, (E'63, and Jean Robertson, A'65)

Pelayia Tina born to Mr. and Mrs. Constantine M. Kalogeras (M'65, and Beth Laster, M'65)

Anita Wendy born to Mr. and Mrs. Laurance D. Eisenhart (E'65, and Laura Feldman, A'66)

'44

Mrs. Vincent F. Lackner (MARGARET SKEEHAN, M) is librarian at the Sewickley Academy Senior School, Sewickley, Pa. She also serves on the Pittsburgh Catholic Diocesan School Board. The Lackners have four children.

DAVID E. GERMAIN (E), of Long Beach, California, is a management engineering consultant.

Mrs. RUTH NEELY (A) is teaching elementary music classes in the Beaver Area Schools, Beaver Falls, Pa.

EMIL A. SAGAN (E) is presently an atomic engineer with Westinghouse Electric Atomic Power Division, Pittsburgh.

The August 7, Youngstown, Ohio *Vindicator* had an interesting feature story about MILTON RUDIC (E) and his work in estimating fire damage and the cost of replacing a building damaged by fire. Mr. Rudic began this type of work in 1965. He is a partner in the Ben Rudick & Son Construction Co.

L. DAVID JOHNSON (E) is manager of industrial engineering in the York (Pa.) Division of Borg-Warner. Mrs. Johnson is the former ELOISE LAWTHERS (M'43).

Baycura '45



'45

EDWARD L. RUDISILL (E) received his M.B.A. degree in finance from the University of Southern California in August.

RALPH H. MARTIN (E) is president of C. H. Dexter & Sons Co., a division of Dexter Corporation, Hartford, Connecticut.

CHARLES H. POSNER (A) had a showing of his art work at Rogue's Gallery Two, Coral Gables, Florida, this past summer.

Dr. ORESTES M. BAYCURA (E), a specialist in magnetic devices, has been appointed an associate professor of electrical engineering at the Naval Postgraduate School in Monterey, California. For the past seven years, he has served as a research mathematician for the IBM Corporation in San Jose.

Dr. NORMAN F. PARKER (E) is president of Autonetics, a division of North American Aviation, Inc.

GEORGE E. PAKE (E), provost and professor of physics at Washington University, has been elected chairman of the board of directors of the St. Louis Regional Industrial Development Corporation.

Dr. JOHN C. R. KELLY, Jr. (E) is now head of the newly created Advanced Reactors Division of Westinghouse Electric Corporation's Atomic Power Division in Pittsburgh. Dr. Kelly was formerly director of materials at the Westinghouse Research Laboratories.

**'46** EDWARD J. WINKLER (E) has been promoted to superintendent of roll shops in the Aliquippa (Pa.) Works Division of Jones & Laughlin Steel Corporation. Mr. Winkler joined J&L in 1949.

Mrs. Fred E. Graff (VIRGINIA MULHALLAN, M) is now fashion coordinator at Fedway Department Store, Pomona, California. She coordinates fashion displays with advertising, sponsors the teen fashion board, and is in charge of fashion shows and coordinating fashion events. Mr. Graff (A'39) is a school administrator and is active in the Navy Reserve with the rank of Captain. He is director of special events for the Los Angeles County Fair and is director of the orchestra at the Cazadero Summer Music Camp in Northern California. The Graffs have a daughter, Susan.

MARY M. HOLMAN (M) is teaching English at the South Fayette Jr.-Sr. High School in McDonald, Pa.

EDMUND C. SMITH (E) has been promoted to assistant area superintendent—hot rolling at the Ambridge Works, Armco Steel Corporation. Mr. Smith joined Armco in 1952.

PIERRE AIGRAIN (E) is an official in the French Ministry of National Education.

CONSTANTINE KERMES (A) had a retrospective exhibition of his paintings, prints and drawings at the Storm King Art Center near Cornwall, New York, this fall.

**'47** C. DONALD YOCHUM (A) is a director of the new industrial design department of Industrial Products, Inc., Oakmont, Pa.

RAYMOND E. BROCHETTI (E) is self-employed in machine design in the Pittsburgh area.

MORRIS J. WEINBAUM (E) is president of Alon Processing, Creighton, Pa.

ALBERT C. FLANDERS (E) has been named director of product characterization at Wheeling Steel Corporation, Wheeling, West Virginia. Prior to his promotion he was superintendent of metallurgy at the company's Steubenville (Ohio) plant.

JAMES D. GARNER (PM) recently received his master's degree from the University of Pittsburgh. He is a junior high school teacher with the Pittsburgh Board of Education. Mrs. Garner is the former MARIE SCHURKO (M'44).

CHARLES L. WELLARD (E) is president of the American Components Inc., Conshohocken, Pa.

FREDERICK K. WUNDERLICH (E) has been appointed manager—engineering technology domestic for the engineering and research department of U. S. Steel Corporation, Pittsburgh. Mr. Wunderlich joined U. S. Steel in 1959. He is also serving as treasurer of the Pittsburgh Opera Guild and vice president of the Mt. Lebanon Toastmasters Club. The Wunderlichs have three children.

MORRIS SCORATOW (E) is president of the Investors Acceptance Corporation in Munhall, Pa.

WILLIAM C. BANKS (E) is now chief metallurgist in valve engineering and research, Valve Division of Rockwell Manufacturing Company, Pittsburgh. He was formerly associated with the Applied Research Lab of U. S. Steel.

MARY E. BARR (M) is a field representative in the Office for Children and Youth, Pennsylvania Department of Public Welfare, Pittsburgh.

Mr. and Mrs. WARREN E. OESTERLING (E, and MARY R. STRAIN, M'40) are now living in Boylston, Massachusetts. Mr. Oesterling is manager of manufacturing engineering, Morgan Construction Company.

MARTIN H. ZANGER (E), of Holyoke, Massachusetts, is president of the Holyoke News Company, Inc.

PAUL P. GIBIAN (E) has been promoted to vice president—manufacturing, General Signal Corporation, New York City.

ARTHUR W. SCHEIB (E) has been appointed manager of industrial and commercial sales at West Penn Power Company's Greensburg general office. Mr. Scheib joined the company in 1947. Mr. Scheib is chairman of the Pennsylvania Electric Association customer contact committee, a director of the Butler Area Chamber of Commerce, first vice president of the Community Development Corporation of Butler County, and a member of the Executive board of Pioneer Trails Council of Boy Scouts.

BERNARD ZAVOS (E), a meteorologist with the Environmental Science Services Administration's National Environmental Satellite Center, will participate in the 1966-67 Department of Commerce Science and Technology Fellowship Program. Mr. Zavos' assignment is with the Environmental Science Services Administration's World Weather System program at ESSA's Rockville, Md., headquarters.

NORBERT H. KIRCHGESSNER (E) has been named to the newly created post of manager-production for the Durez Division of Hooker Chemical Corporation, North Tonawanda, N.Y. Mr. Kirchgessner has been associated with Durez since 1947. In his new position, he is responsible for operations at Kenton, Ohio, and South Shore, Kentucky, as well as manufacturing operations at North Tonawanda.

DONALD R. TOPE (E) has a new position as general operations manager of the Transmission and Chassis Division of Ford Motor Company, Livonia, Michigan.

CHAUNCEY L. RAPP (PM) is serving as president of the Carnegie Printers Alumni for 1966-67. He served as program chairman for last year's conference. Mr. Rapp is a past president of the New York Carnegie Clan. He is vice president of Offset Reproductions, Inc., a New York lithographic firm.

THOMAS L. CULBERTSON (E) has been promoted to engineering associate in the General Engineering Division at Esso Research and Engineering Company, Florham Park, New Jersey. He is a member of the American Petroleum Institute's Committees on Fire Protection and Safety and has been chairman of the National Fire Protection Association's Committee on Foam for about ten years.

D. H. BURKERT (E) has been named coordinator, tire engineering, at The General Tire & Rubber Company, Akron, Ohio. He joined the company in 1947.

**'48** RALPH B. SNAPP (E), an engineer for 16 years with the U. S. Navy Marine Engineering Laboratory at Annapolis, Md., was presented the George W. Melville Award. The Melville Award is the highest honor for scientific and engineering achievement at the Laboratory. Mr. Snapp received the award in recognition for his important contribution to submarine shaft seal technology.

JORGE L. DELLEPAINE (E) is in Lima, Peru, where he is head of industrial service at the Callao Naval Base.

ROBERT S. SCHOENBERGER (E) has been appointed manager of purchasing services with Union Carbide Corporation, New York City. He joined the firm in 1948. In his new position he will be responsible for the establishment and operation of all the administrative functions of the Purchasing Department.

H. F. PORTER (E) has been promoted to production superintendent at the Goodyear Tire & Rubber Company's tire plant at Jackson, Michigan. Prior to his promotion he was manager of engineering at the Goodyear Topeka tire plant.

GEORGE A. SMITH (E) is a business consultant in the Greensburg, Pa., area. Mrs. Smith is the former MARY ANN RODES (A).

Snapp '48



Kennedy '48



Marshall '48



R. D. KENNEDY (E) is now manager of merchandising for General Electric's Electronics Sales Operation in Syracuse, New York. He had been sales manager for G.E.'s entertainment receiving tube operation in Owensboro, Kentucky.

PAUL SECHER (E), of Cincinnati, Ohio, is a buyer for General Electric.

JOHN J. GELL (E) has been appointed manager of manufacturing for the Lock and Hardware Division of Eaton Yale and Towne, Inc., Rye, New York. Mr. Gell has been associated with the company for 18 years.

JOHN SCARR, JR. (E), project engineer in the industrial product evaluation section, New Products Division of Gulf Research and Development Company, Pittsburgh, was honored for his 30 years of service with the company.

Mrs. Peter Hanson (MARTHA MOORE, A), of Bryn Mawr, Pa. is serving as an alumni advisor for the Carnegie Admissions Council.

C. BOND MARSHALL (E) has been promoted to vice president of engineering for Alloy Rods Company division of Chemetron Corporation, York, Pa. Mr. Marshall joined the firm in 1955. He is the immediate past chairman of the York-Central Pennsylvania section of the American Welding Society.

DAVID L. WALLACE (E) is associate professor of statistics at the University of Chicago.

**'49** HORACE A. MC ALLISTER, JR. (E) is now serving as administrative coordinator to the mayor of Meadville, Pennsylvania. He was formerly assistant city manager of Villa Park, Illinois.

ABRAM G. HOPPER, JR. (E) has been transferred from the Trenton, New Jersey, office to the new Boston, Massachusetts, office of Allstates Engineering Company. He is principal supervising engineer in charge of design operations.

C. PHILLIP PFLEEGER (E) has been appointed plant manufacturing engineer of a new plant to be built at State College, Pa., by Corning Glass Works. Mr. Pfleeger joined Corning in 1949 and has held a number of positions in process engineering and product development, primarily for television. Since 1964 he has been supervisor of product engineering for color television.

The LEONARD J. KROKOS (E) and their four children, Catherine, Caroline, Peter, and Ned, have moved to Orange, California. Dr. Kroko is an electrical engineer with Autonetics NAA, Anaheim, California.

ARTHUR C. BORDT (E) is presently sales engineer with Atlantic Research Corporation, Alexandria, Virginia.

RODNEY B. TEEL (E) has been appointed chemical group leader in the development and research department of The International Nickel Company, Inc., New York City. Mr. Teel joined the company in 1941. He is presently a major in the United States Air Force Reserve.

FRANK BARILLA (E) has been promoted to the newly created position of field sales manager for mobile products—hydraulic control valves, cylinders, accumulators, hose and fittings, and related components for mobile equipment, with Parker-Hannifin Corporation, Cleveland, Ohio. In his new capacity, he is responsible for field supervision of the mobile sales engineers. Mr. Barilla joined the company in 1953. The Barillas and their four children live in Elm Grove, Wisconsin.

Teel '49



Barilla '49



LAWRENCE KETTLER (E) has been named vice president and coordinator of special projects for Romanek/Golub & Company, Chicago real estate developers.

ROBERT GAYDOS (E) is presently an engineer in the Bessemer Cement Division of Diamond Alkali Corporation, Poland, Ohio.

Mrs. HELEN KELLER CESVET (M) has accepted an appointment as a technical librarian in the Library Services Department of Argonne National Laboratory.

**'50** Dr. JOHN W. GRAHAM, JR. (E) has been selected as the 11th president of Clarkson College, Potsdam, New York. Dr. Graham had been dean of the University of Rochester's College of Engineering and Applied Science since 1959. From 1948 to 1955 he was assistant dean of the College of Engineering and Science at Carnegie Tech. Dr. Graham is president of the Association of Engineering Colleges of New York State, a fellow of the American Society of Civil Engineers, a member of the American Society for Engineering Education, and a member of the board of the Engineering College Research Council. He is a consultant on science facilities to the National Science Foundation and a member of the State Advisory Council for the Advancement of Industrial Research and Development.

F. ROBERT BROWN (E) is a program manager for Motorola, Inc., Scottsdale, Arizona.

JOHN R. MAXTON (E) is a vice president with Moore Machinery Company, Emeryville, California.

BERNARD BOGIN (A) is a counselor in vocational rehabilitation in Miami, Florida.

RICHARD J. SPHON (E) has been appointed supervisor of process engineering at the new Canton plant of Corning Glass Works. Mr. Sphon has been a market specialist since he joined the company in 1964.

ROGER W. BORNEMAN (IA) has been named systems planning director in the Corporate Systems Division of Atlantic Richfield Company, with headquarters in Philadelphia, Pa. He had served since 1963 as manager of systems and staff services of the Richfield Division of Atlantic Richfield and of Richfield Oil Corporation in Los Angeles prior to its merger with The Atlantic Refining Company early this year.

EUGENE F. EISEMANN (IA) has been elected president of Bulk Petroleum Corporation, Chicago. He joined the firm in 1962. In his new position he will also be responsible for the firm's subsidiaries, Power Oil Corporation and Daniels Oil Company.

Dr. JOHN A. TALLMADGE (E), of Wayne, Pa., is serving as an alumni advisor for the Carnegie Admissions Council.

Dr. DUANE SAMPLE (A) has been appointed an assistant professor of music education in the Dana School of Music, Youngstown University, Youngstown, Ohio.

Lt. Col. JAMES E. CHIKAR (E) is on duty with U. S. combat air forces in Southeast Asia. A transport pilot, he is assigned to a forward combat base.

WESLEY F. FRICK (E) has been appointed Butler division manager for the West Penn Power Company. Mr. Frick had been senior industrial power engineer at the Greensburg general office since 1963. He joined the firm in 1952. He is a member of the Association of Iron and Steel Engineers' Pittsburgh chapter and the American Institute of Mining, Metallurgical, and Petroleum Engineers.

GERSHON KULIN (E) is chief of the Hydraulics Section at the National Bureau of Standards, Washington, D. C.

Mrs. Robert C. Nelson (AUDREY OLSON, A), of West Concord, Massachusetts, and Richard Williams, of Denver, Colorado, are serving as alumni advisors for the Carnegie Admissions Council.

WILLIAM P. LILLER, JR. (E) is presently a sales representative in the Chemical Division of Pittsburgh Plate Glass Company, East Boston, Massachusetts.

Rex '50



HAROLD E. REX (E) has been appointed industry manager, packaging materials, in plastic material sales with B. F. Goodrich Chemical Company. He will be located in the firm's Cleveland, Ohio, headquarters. He joined the company in 1950.

The St. Louis, Missouri, *Post Dispatch*, September 18 issue, had a feature story on MILLER B. SPANGLER (E). Dr. Spangler, former director of economic research for the St. Louis Regional Industrial Development Corporation, expresses his concern for the economic and industrial growth of St. Louis. Dr. Spangler has accepted a position with the National Planning Association in Washington as project director for a Government-subsidized study of the economic effects of oceanographic research.

51 Dr. RICHARD G. GRISKEY (E), formerly professor of chemical engineering and chairman of the materials engineering science program at Virginia Polytechnic Institute, has been named chairman of the department of chemical engineering, professor of chemical engineering, and a section head in the chemical division of the Denver Research Institute.

EDWARD A. SCHWENDNER (E) is now a member of the supervisory staff with Aluminum Company of America at Massena, New York.

ROBERT C. GANGLOFF (E) is a project engineer for General Electric Company, Waterford, New York.

FREDERICK E. LUNT, JR. (E) has a new position as manager of materials in the U. S. Gauge Division, Ametek, Inc., Sellersville, Pa.

ALFRED J. ZENGER (E) is research manager at the Singer Central Research Laboratory, Denville, New Jersey.

ELIAS L. CORPAS (E) is presently a section head at the Zero-G-Research Facility, NASA Lewis Research Center, Cleveland.

Dr. WILLIAM E. MOTT (E) is assistant director of technical programs with the Atomic Energy Commission's Division of Isotopes Development, Washington, D.C.

ALLEN L. MOSSMAN (E) is vice president of the Gas Division of The Matheson Company, Inc., East Rutherford, New Jersey.

MARY WELLS (M) is president of the newly-formed Wells, Rich, Greene advertising agency in New York City.

GEORGE M. PYLE, JR. (E) is a metallurgical engineer for U. S. Steel Corporation, Kansas City, Missouri.

WILLIAM C. HAGMEIER (E) is product sales supervisor for corrosion protection products of 3M Company, St. Paul.

EUGENE H. SAPPER (E), of La Mesa, California, is serving as an alumni advisor for the Carnegie Admissions Council.

ROBERT H. ARNOLD (E) is an area chairman in Syracuse, New York, for the Carnegie Admissions Council. He is also an alumni advisor.

Dr. ROBERT T. CROUCH (E) has a new position as director of research and development for Avery Label Company, Monrovia, California.

DONALD L. TANNER (E), a project engineer with the consulting engineering firm of Richardson, Gordon & Associates, Pittsburgh, received a \$2,000 fifth-place award in the 1966 James F. Lincoln Arc Welding Foundation Award Program for Progress in the Arc Welded Design of Structures. Mr. Tanner's entry was entitled "Welded Box Girders and Welded Steel Bents Support Double-Deck Roadways." This design was developed for the approaches to the Fort Duquesne Bridge.

52 Dr. FREDERICK J. YOUNG (E) has been promoted to professor of electrical engineering in the College of Engineering and Science at Carnegie Tech.

Dr. NEIL SHELDON (A) has been appointed speech pathologist at the New England Medical Center Hospital's Speech, Hearing and Language Center and assistant professor of physical medicine and rehabilitation at Tufts University School of Medicine, Boston. Dr. Sheldon will be responsible for clinical supervision, research, and training of medical and dental personnel in the area of speech pathology.

EDGAR R. HARTT (PM) is assistant to the president of F. L. Smithe Machine Co. Inc. The Company has a new location in Duncanville, Pennsylvania.

EDWARD J. SHOLETTE (A) is presently project architect with Harold E. Wagoner of Philadelphia, Pa.

JOSEPH SHUMOVICH (E) has been transferred to work with the Martin Company as an experimental analyst for the Apollo Applications Program. He will be in the Denver area for approximately one year.

ROBERT FREIDMAN (E) is an aerospace engineer at the NASA Lewis Research Center in Cleveland.

LAWRENCE A. SLAUGH (A) is teaching at the Greensburg Salem Junior High School, Greensburg, Pa.

MITCHELL BACKON (PM) is plant superintendent of the Rumford Press Division of Blanchard Press, Inc.

WILLIAM L. POLSON (A) is in Corpus Christi, Texas, where he is an architect with Page, Southerland, Page & Whittet.

The newly formed architectural partnership of JULIAN W. NAETZKER (A) and C. Phillip Thorsell have moved into their new office building in Jamestown, New York.

Dr. WILLIAM F. HUGHES (E) has been named professor of mechanical and electrical engineering in the College of Engineering and Science at Carnegie Tech.

SUSAN B. BARLOW (A) is serving as an alumni advisor in Rosemont, Pa., for the Carnegie Admissions Council.

ELWIN A. MILLER (M) is now director of Social Services of the Charlton School in Burnt Hills, New Jersey. For the past six years, Mr. Miller has been executive director of Family and Children's Service of Albany (N.Y.), Inc.

JOHN F. LANDAU (E) is senior geophysicist in Gulf Technical Services Center, Houston, Texas.

CHARLES B. HERMAN (E) has been appointed manager of petroleum purchases for Union Carbide Corporation, New York City. Mr. Herman joined the firm in 1960.

EDGAR D. MITCHELL (E) is a U. S. Navy Commander and NASA astronaut in Houston Texas. He received his Sc.D. degree in Aero and Astro Engineering from Massachusetts Institute of Technology in 1964. Mrs. Mitchell is the former LOUISE E. RANDALL (A).

VITO J. TRICARICO (A), of Flushing, New York, is serving as an alumni advisor for the Carnegie Admissions Council.

The Alumni Office recently learned of the death of WILLIAM P. MCQUILLAN (E), of Pittsburgh, in 1965.

53 Dr. WILLIAM M. KAUFMAN (E) recently joined Hittman Associates, Inc., a consulting engineering company, in Baltimore, Maryland, as manager of the medical engineering department. The Company's activities include providing engineering consulting service to the Artificial Heart Program of the National Heart Institute.

Mrs. J. H. Anderson (GRACE SAUER, A) received her master of science degree in education from Western Reserve University in September.

The ROGER E. STANSFIELDS (E) have returned to Berea, Ohio, after spending two years in Pakistan, teaching at Forman Christian College in Lahore.

RICHARD P. THORN (E) has been promoted to manager of engineering research at the Lord Manufacturing Company, a division of Lord Corporation, Erie, Pa.

CLYDE V. STAHL, JR. (E) is technical director of the Martin Company, Baltimore, Maryland.

The FRANK E. CARTERS (E, and BARBARA BOYD, A'54) are living in LaGrange, Illinois. Mr. Carter is a management consultant for Booz, Allen & Hamilton, Inc.

JOHN C. STEVENSON (A) is serving as an alumni advisor in San Diego, for the Carnegie Admissions Council.

WALTER S. MERZ (PM) is working toward his Ed.D. degree at George Peabody College for Teachers in Nashville, Tennessee.

FRANCIS J. GREB (A) was recently made an Associate by the Chicago-based industrial design firm of Mel Boldt and Associates, Inc.

C. WILLIAM FETTE (E) has been appointed as a member of the faculty at Point Park College, Pittsburgh. He will teach basic mathematics.

JOHN E. BRINGE (E) has joined the MITRE Corporation's Technical Staff in Bedford, Massachusetts. MITRE is an independent, systems engineering corporation formed in 1958 to provide technical advice and support to such Government agencies as the Electronic Systems Division of the Air Force Systems Command and also serves the Department of Defense and the Federal Aviation Agency.

## Deaths

- A'08 M. Markle Steen
- I'12 William H. Hartman
- E'15 John W. Carr, Jr.
- I'15 Robert T. McCartney
- E'17 Max Albert
- A'17 Merle W. Alley
- E'17 Raymond B. Bogardus
- I'17 Walter C. Hoffman
- I'17 Edwin C. Hoyer
- I'18 Thomas B. McDermott
- M'20 Mrs. Thor Engstrom (Gertrude Madeira)
- E'21 Jerome B. McMahon
- A'21 Mrs. Gilbert T. Heddeaus (Mildred Knox)
- E'21 Carl C. M. Greiner
- E'22 Harold R. Black
- I'23 Arthur C. Throne
- E'23 Carl W. Peterson
- A'24 Renzo R. Rutili
- E'24 Samuel J. Sugarman
- M'26 Mrs. G. H. Pfeiffer (Madeline Amberg)
- A'27 L. Maury Tuckerman
- PM'27 Vernon L. Spencer
- E'29 Francis J. Klempay
- E'30 Victor L. Bohden
- A'30 Anna Marie Hufnagel
- E'32 William R. Gealey
- E'34 John W. Soars
- E'34 Anthony E. Ostrowski
- E'34 John H. Voegler
- E'36 Frank E. Grommes
- A'36 Mrs. Louis Steinbach (Amalia L. Rose)
- M'38 Mrs. Edward D. Harvey (Dolores E. Thompson)
- E'40 Frank Q. Jones, Jr.
- E'52 William P. McQuillan
- M'62 Mrs. Charles A. Buerger (Brona Sue Stein)

54 HARRY E. B. LANTZ (A) is presently office manager of Hazelett Strip-Casting Corporation, Winooski, Vermont.

Dr. PAUL SMITH (E) is a member of the staff of the Institute of Atmospheric Sciences at the South Dakota School of Mines and Technology. He is a research engineer and associate professor of meteorology.

Major and Mrs. James Jennings (JO ANN WEIHL, M) are living in Berkeley Springs, West Virginia. Major Jennings is with the U. S. Air Force.

R. GLENN HOFFMAN (E) is in the Netherlands where he is a product manager for Mobil Chemie N. U.

JOHN E. LAYNOR (E), of Concord, Massachusetts, and HARRISON J. UHL (A), of Princeton, New Jersey, are serving as alumni advisors for the Carnegie Admissions Council.

RICHARD J. MAUTHE (IA) is now chief industrial engineer for the automotive division of Arvin Industries, Inc., Columbus, Indiana.

ALFRED B. CAHEN (E) has resigned from his position with World Publishing Company to devote full-time to a career as a creative writer. He is presently an editor of "American Weave," the Cleveland literary journal. He is author of a book of poems "Houses of Ice," recently published by American Weave Press.

GEORGE PEPPARD (A) is starring in "The Blue Max."

NORRIS L. STEPHENS (A) played the dedication recital of the newly installed carillon at St. James Memorial Episcopal Church in Titusville, Pa., in October.

Goldschmidt '54



WILLFRED GOLDSCHMIDT (A) has been named product design director at Robert Zeidman Associates, New York. Mr. Goldschmidt was formerly with Continental Can's Glass Division and the Brockway Glass Company as regional design consultant for the New York area.

**55** WAYNE M. GALBRAITH (A) has been appointed organist and director at the Edgewood Presbyterian Church in Pittsburgh. He is also organist at B'nai Israel Synagogue of the East End.

LEE N. CAPLAN (E), of West Chester, Pa., is serving as an alumni advisor for the Carnegie Admissions Council.

DAVID L. RAYMER (E) has been appointed to the new post of manager of systems and procedures with Latrobe Steel Company, Latrobe, Pa. Mr. Raymer will be responsible for establishing systems and procedures to guide operations, technical and administrative control. He joined Latrobe Steel in 1959.

NORMAN D. BIRRELL (E) is chief oceanographer for Newport News Shipbuilding, Newport News, Virginia.

Dr. NORBERT L. ACKERMANN (E) is in Berkeley, California, where he is an associate professor of hydraulic engineering at the University of California.

TOM CARUSO (A), performed in his third season with the Civic Light Opera this summer. He is a music teacher at West Mifflin North High School.

VIJAY K. CHANDHOK (E) received the John A. Mathews Award Citation for his "outstanding contribution to wire technology" from Crucible Steel Company. Mr. Chandhok is a research metallurgist in the High Temperature Section of Crucible, Pittsburgh.

**56** The Reverend Mr. JACK KENNEDY (E) has returned to the United States after three years in West Africa. Mr. Kennedy and his wife are missionaries with the Wycliffe Bible Translators and have been studying Dagaari, the language spoken by a quarter of a million people in northwestern Ghana and the Upper Volta. They have been doing basic linguistic research in preparation for an intensive program of literacy training and Bible translation in West Africa. They plan to return to Ghana next year to continue their work.

DONALD F. MUSHALCO (A) has been appointed a member of the faculty at the University of Pittsburgh.

The Wichita, Kansas, *Beacon*, August 13 issue, had a feature story about Mrs. Charles Olsen (ROSALYN OLSEN, A) and her acting career. The Olsens have a nine-month-old son, David Christopher.

DONALD A. HROSIK (E) is a sales engineer with Latrobe Steel Company, East Orange, New Jersey. The Hrosiks have two children, Diana Marie and Gary John.

HARRY J. WATSON (E) is presently metallurgical engineer with Aluminum Company of America, Lebanon, Pa.

JOSEPH CHALUPA (E) is serving as an alumni advisor in Cherry Hill, New Jersey, for the Carnegie Admissions Council.

ARTHUR B. OSTROFF (A) has been in Brussels since November 1965. He is assistant director/production manager for Miller Freeman Publications, Brussels, Belgium.

JAMES D. McLELLAN (IM) is a sales engineer with United Engineering and Foundry Company, Pittsburgh.

Dr. KALMAN J. COHEN (IA) has been promoted to professor of economics and industrial administration in Carnegie Tech's Graduate School of Industrial Administration. Mrs. Cohen (JOAN NEWMAN, A), an artist, was featured in a story in the *Pittsburgh Press* last spring.

ARTHUR H. HURST (E) is presently product engineering supervisor for 3M Company's instrument department, Camarillo, California.

ROBERT V. SOUFL (E) is a member of the technical staff of the Aerospace Corporation, El Segundo, California.

JAMES B. BLEECKER, JR. (E) is a staff engineer with American Cyanamid Company, Princeton, New Jersey.

The EDMUND A. KARCHERS (E) will move into their new home at 883 Country Club Drive, North Palm Beach, Florida, next month. Mr. Karcher is supervisor of linear and digital integrated circuit development in the ITT Semiconductor Research and Development Department.

J. P. RAMER (E) has recently been promoted to engineering specialist at the Martin Company, Orlando, Florida, Division.

DAVID M. CHABALA (E), formerly with Rust Engineering Company, is now a design engineer with Universal Atlas Cement Company, a Division of U. S. Steel Corporation, Pittsburgh.

Dr. RICHARD E. JOHNSON, Sr. (E), of Cincinnati, Ohio, is manager of mechanics of materials at the Evendale Plant of General Electric Company.

THOMAS DUNKERS (E) has joined the MITRE Corporation's technical staff at its Bailey's Crossroads, Virginia, facility. Mr. Dunkers had been a senior applications engineer at the Control Data Corporation in Rockville, Maryland from 1965 until his present appointment.

DONALD F. HEPLER (E) has been named head of the international section of the marketing research department of The Firestone Tire & Rubber Company, Akron, Ohio. Mr. Hepler joined Firestone in 1961 as a marketing analyst.

Hepler '56



**57** Cdr. SEYMOUR N. ROSS (E) has returned from a three-year tour at the Hague, The Netherlands. He now has a position at the Boston Naval Shipyard, as planning and estimating superintendent.

ROBERT E. DUNN (E) is now senior project engineer in the research and development department, Koppers Company, Metal Products Division, Baltimore, Maryland.

WILLIAM WALTER (E) is presently plant engineer at the Allenport Works of Pittsburgh Steel Company. He is licensed by the State of Pennsylvania as a Registered Professional Engineer. He is serving as secretary of the Carroll Township Planning and Zoning Commission.

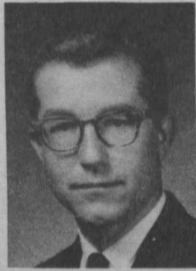
RICHARD H. FLOCK (E) is a graduate assistant at the Lutheran Student Foundation of Western Pennsylvania, Pittsburgh. He is serving as the Lutheran Campus Pastor at Carnegie Tech.

RONALD G. VANVOORHIS (E) has a new position as manufacturing engineer at the Westinghouse Astronuclear Laboratory, Large, Pa.

ALBERT KOCH (E), of San Diego, California, and JON S. SAXE (E), of Upper Montclair, New Jersey, are serving as alumni advisors for the Carnegie Admissions Council.

SARAH S. MULLEN (M) is teaching at the Stamford High School in Stamford, Connecticut.

Stroup '57



JAMES P. STROUP (E) has been advanced from supervising research metallurgist to manager of product research in Latrobe Steel Company, Latrobe, Pa. He joined the company in 1957.

ARNOLD OLDS (PM) has accepted a position with Peninsula Lithograph Company, Menlo Park, California. He is involved in job planning and sales service.

ERNEST E. SHIN (E) received his Ph.D. degree from Harvard University this past June.

NORMAN L. ACHILLES (E) attended the Fondation National des Sciences Politiques, Paris, last year to study Southeast Asia and International Relations. He is presently at the U. S. Embassy, Saigon, Vietnam, as second secretary and vice consul for the U. S. Department of State.

JOSEPH F. DESIMONE (E) is a design engineer with U. S. Steel Corporation in Pittsburgh.

ROBERT E. BERNAT (A), assistant professor of music at Indiana University of Pennsylvania, was in Pittsburgh in November for the premiere performance of his work "In Memoriam, John F. Kennedy," an orchestral Passacaglia, which was performed by the Pittsburgh Symphony.

ROBERT L. PATTERSON (E) has accepted a new job with Commonwealth Association Inc., consulting engineers in Jackson, Michigan. Mr. Patterson is a project engineer responsible for all structural engineering on 1200 miles of 380 KV Transmission Line in Turkey.

**58** TROY E. WEST (A) has been promoted to assistant professor in the department of architecture, College of Fine Arts, Carnegie Tech.

The William F. Smiths (MARGARET COYNE, M) and their four children are now living in Miami, Florida. Mr. Smith is production manager of the National Brewing Company's Miami plant.

JOSEPH G. SVEC (A), assistant professor of speech and dramatic art and English at Cornell College, was elected vice president in Cornell's chapter of Phi Beta Kappa, national honorary scholastic society.

DOROTHY A. WALTON (E) is a research technician at the University of Rochester's Medical Center.

THOMAS R. LANGAN (E) has been transferred and promoted to assistant general foreman of electrical maintenance by Jones & Laughlin Steel Corporation Pittsburgh Works.

ANTHONY N. DOMENICK (E) is a group leader at the Airborne Institute Lab., Deer Park, New York.

Dr. M. LUCIUS WALKER, JR. (E) is presently associate professor of mechanical engineering at Howard University, Washington, D. C.

JOHN F. POTTER (E) has been appointed section engineer for the Instrumentation and Electrical Section of the design and drafting department at the Linde Division of Union Carbide Corporation, Tonawanda, New York. The Potters (CAROL J. PAINTER, M'60) and their two children, Melissa and David, are living in Snyder, New York.

ANTONIO NOGALES (E) is head of purchasing for Siderurgica del Orinoco, Edo Bolivar, Venezuela.

GARY L. BENTON (E), of Brookline, Massachusetts; JOEL GOLDHAMMER (E), of Melrose Park, Pennsylvania; Mr. and Mrs. HARRY JAMISON (E, and DOROTHY PRIEST, M'59) and Mr. and Mrs. WILLIAM LEETE (E, and DOROTHY ACKLIN, M'59) of Broomall, Pennsylvania, are serving as alumni advisors for the Carnegie Admissions Council.

MARILYN M. ALBRIGHT (L) has been appointed associate reference librarian at Hunt Library, Carnegie Tech.

Dr. DAVID CAMP (E) has been named assistant dean of graduate studies for the University of Detroit College of Engineering. Dr. Camp will administer the new graduate program of the college and will also be a member of the chemical engineering faculty.

**59** "Computer Graphics" is the title of an article by Dr. IVAN E. SUTHERLAND (E) which appeared in the May issue of *Datamation*. Dr. Sutherland is director for Information Processing Techniques at the DOD's Advanced Research Projects Agency, Washington, D. C.

CARL R. VAUGHAN (E), of Phoenix, Arizona, and BRUCE C. BROWN (E), of San Diego, California, are serving as alumni advisors for the Carnegie Admissions Council.

GERALD SCHOENBERGER (E) is now development engineer in the ceramic fuel section of the core engineering and manufacturing department of the Westinghouse Bettis Atomic Power Laboratory in West Mifflin, Pa.

Dr. WILLIAM H. STARBUCK (IA) is visiting associate professor of social relations at Johns Hopkins University.

RAYMOND W. SMITH (IM) is happy to be relocated in the Pittsburgh area. He is district manager for AT&T. The Smiths have three children, Andrew, Matthew, and Kathryn.

VINCENT JAMES SANZOTTI (A) was musical director for the Musical Theatre Guild (Butler, Pa.) production of "Sound of Music," which was presented this past June. Mr. Sanzotti is a member of the Butler Concert Band and the Butler County Symphony Orchestra, and is director of St. Michael's Men's Choir and of the MTG Singers. He has served as musical director for the Musical Theatre Guild productions of "Pajama Game," "Carnival," and "Music Man." He is a private music instructor and manages the Monroe Hotel.

G. WILLIAM EVARTS (IM) is director of corporate planning and growth for Youngstown Steel Door Company, Cleveland.

JOSEPH R. VOGAN (IA) is now assistant director of purchases in the purchasing department, Glass Division of Pittsburgh Plate Glass Company.

JOHN B. LADLEY, Jr., (L) has been appointed to the staff of Bowdoin College's Nathaniel Hawthorne-Henry Wadsworth Longfellow Library. Mr. Ladley is reference librarian. He was formerly circulation-reference librarian at Lebanon Valley College in Annville, Pa.

JAMES H. HOUSER (IA) is Eastern regional sales manager in plastics for the Pennsalt Chemicals Corporation, Philadelphia, Pa.

The DEAN C. ZIMMERMANS (E) and their two sons, Scott and Jeffrey, are living in Columbus, Indiana. Mr. Zimmerman is a supervisor of metallurgy with Cummins Engine Company.

Mr. and Mrs. Robert Patterson (ROBERTA WRIGLEY, M) are presently living in Livonia, Michigan.

ANNE BALLARD DUNLAP (E) has a new position as a chemist in the Inorganic Materials Division at the Westinghouse Research and Development Center, Pittsburgh.

SYBREN KRAMER (IA) has been promoted to manager of the department for automation of information systems with the Royal Dutch Blast Furnaces and Steelworks in IJmuiden, The Netherlands. The Kramers and their three sons live in Heemsted.

W. L. STEINBRENNER (E) has been appointed division manager of Armeco, Inc., Wooster, Ohio. He is responsible for operations at the Armeco plant. Armeco merged with Vasco Steel and Advanced Metals Company in 1963.

JOSEPH A. BISHKOFF (A) is conductor of the new South Hills Civic Symphony. He teaches instrumental music in the Baldwin-Whitehall Schools, Pittsburgh.

RICHARD J. DONATI (E) joined Ketchum, MacLeod & Grove, Inc., as an advertising account executive.

AUDREY J. CAMP (M) is this year's president of the Leechburg, Pa., Junior Monday Evening Club. She is a home economics teacher in Ford City High School.

RAYMOND L. ZAHRADNIK (E) is visiting associate professor of chemical engineering at Carnegie Tech.

FRANK E. ACKER (E) is an instructor in electrical engineering at Carnegie Tech.

Dr. C. F. LUTZ (E) is a new member of the physical metallurgy branch of Kaiser Aluminum & Chemical Corporation's department of metallurgical research in Oakland, California.

WINSTON S. SHARPLES, JR., (A) is presently a film director and writer for Synchko-Sound, Inc., New York City.

'60

CLARK ARMSTRONG (IA) has a new position as specialist in operations research with the Chrysler Corporation in Detroit, Michigan.

KEITH SPRINGEN (E), of Merion Station, Pa., is serving as an alumni advisor for the Carnegie Admissions Council.

CLARK C. WALLACE (A) has been named a partner in the architectural firm of Foreman Dorsch and Bashford Architects, Lancaster Township, Pa.

MILTON C. MILES (PM) has been named assistant advertising manager for the Consumer Products Division of Calgon Corporation, Pittsburgh.

DONALD G. BEAMAN (A) has been appointed assistant professor of drama at Carnegie Tech.

JAMES H. CRISSMAN (A) received his Master of Architecture degree in urban design from Harvard University this past June.

ALBERT A. OLBETER (E) is presently a senior engineer with Lockheed Electronics in Houston, Texas.

JAMES J. KELLY, Jr. (E) is laboratory manager for the W. P. Fuller Company in San Francisco.

DENNIS D. M. MATTEUCCI (E) is presently marketing representative for IBM in Pittsburgh.

PATRICIA B. PARSHALL (A) is teaching junior high school English in the Philadelphia School System.

FRANK TRAFICANTE (A) has a new position as music reference librarian at the Library of Congress, Washington, D. C.

H. RICHARD CUPPETT (E) is presently working as a consulting engineer for the firm of Brockway, Owen, and Anderson, Engrs., Inc., in West Palm Beach, Florida.

Dr. RUSSELL D. PIERCE (E) is a member of the technical staff of Bell Telephone Laboratories in Murray Hill, New Jersey.

Dr. HANS H. A. HUYGEN (E) is a research engineer at Gulf Research in Harmarville, Pa.

SHERMAN CHOTTNER (E) has been appointed assistant professor of statistics in the quantitative methods department of the College of Business at Syracuse University.

FRANK BYNUM, Jr. (PM), of Charlotte, North Carolina, is serving as an alumni advisor for the Carnegie Admissions Council.

KENNETH J. BUTLER (A) has joined the faculty of the College of Fine Arts, Carnegie Tech, as assistant professor of painting, design and sculpture.

CHARLES R. ADKINS (E) has been appointed assistant professor of mechanical engineering at Carnegie Tech.

Miles '60



Bostak '60



RONALD J. BOSTAK (E) was cited recently for his excellent work as an electrical engineer at the U. S. Army Mobility Equipment Command's Engineer Research and Development Laboratories, Fort Belvoir, Virginia.

OLEG R. KOMARNITSKY (E) is with the U. S. Air Force as a test pilot in Edwards, California.

JAMES G. HAGAN (A) had an exhibit of his sculpture at Chatham College this fall. Mr. Hagan is currently a member of the faculty at the University of Virginia.

'61

ROY T. KING (E) is a research staff member of the Oak Ridge National Laboratory, an atomic energy installation operated by the Nuclear Division, Union Carbide Corporation, Oak Ridge, Tennessee.

Dr. JOHN D. FOLLEY, Jr. (E) is corporation president of Applied Science Associates, Inc., Pittsburgh.

Dr. DAN B. CANDLER (E) is in Dallas, Texas, where he is a research engineer at the Mobil Oil Field Research Lab.

ELLIOTT RAPHAELSON (IA) is presently a systems analyst for Wakefern Foods, Inc., Elizabeth, New Jersey. The Raphaelsons have two children, Debra Susan and Mark Lee.

CARTER L. FRANKLIN, II, (E) joined the faculty of the University of Pennsylvania Wharton School.

WILLIAM S. BROWN (E) is a project engineer at the Research and Engineering Center in Plum Borough of Pittsburgh Corning Corporation.

WILLIAM HOWES, Jr., (E) has been appointed industrial engineer for the affiliated Chesapeake & Ohio and Baltimore & Ohio Railroads in Baltimore.

WILLIAM RUDOLPH (E) is now an associate professor of mechanical engineering at the University of Pittsburgh.

LAWRENCE S. SCHMITZ (E) is serving as first lieutenant in the U. S. Army Signal Corps at Redstone Arsenal, Alabama, after receiving his Ph.D. from Carnegie Tech last fall.

Dr. MICHAEL SCHOENBERGER (E) is presently a senior engineer at the Westinghouse Space and Defense Center in Baltimore, Maryland.

ALBERT YABLONSKY (E) is now a process engineer with Mobil Chemical Company, Richmond, Virginia.

MARLENE E. SWIGGER (A) is choral director for the Hopewell Senior High School in Aliquippa, Pa.

JAMES A. FRANCIS (E) is presently a design engineer with Westinghouse Electric Corporation in Baltimore, Maryland.

EDWARD S. GODWIN, Jr., (E) is working at the Westinghouse Electric Bettis Atomic Power Lab in West Mifflin, Pa., as a design engineer. The Godwins have a 15-month-old daughter, Christine Marie.

PHILIP B. JAMES (E) received his Ph.D. degree in physics from the University of Wisconsin in August. He now has the position of research associate in the physics department at the University of Illinois, Urbana.

BRUCE J. WILLIAMS (PM) has been promoted to the rank of captain in the U. S. Air Force in Europe. Mrs. Williams (CAROLE DENNISON, A'63) is teaching English and history at the International School in Fontainebleau, France. The Williams will return to the U. S. in March 1967.

VICTOR E. HILL (E) received his Ph.D. degree in mathematics from the University of Oregon and is now an assistant professor at Williams College. During 1965-66 he played 13 organ and harpsichord recitals on the West Coast and at Oberlin, Ohio.

RONALD C. BANKO (A) is presently an industrial designer with Westinghouse Electric in Metuchen, New Jersey. The Bankos (IDA MARIE VITARO, M'62) and their two daughters, Cassandra and Rona, have moved to their new home in Lakewood, New Jersey.

WILLIAM J. MCWILLIAMS (E) is a transducer engineer for the Sperry Products Division of Automation Industries in Danbury, Connecticut.

DALE R. WEIGEL (IA) is in Washington, D. C. where he is an international economist with the Department of State Agency for International Development.

After 16 months in Calcutta, JOHN R. LEPPERD (IM) is in Kathmandu Nepal serving as cultural attache for the U. S. Information Service. In Calcutta he organized information and cultural programs in Indian Universities in Assam, Bengal, Bihar, and Orissa.

W. D. FRISCHEMEIER (IA) has a new position as manager of corporate planning with Hammermill Paper Company, Erie, Pennsylvania.

RAYMOND W. PILEWSKI (PM) is now administrative assistant to vice president and business manager of the Philadelphia Bulletin, Philadelphia.

Dr. VIRAF S. BHAVNAGRI (E) is executive engineer-designs, at Atomic Energy Est., Trombay, Bombay, India.

MICHAEL C. ZERNER (E) received his Ph.D. degree from Harvard University this past June.

"Changes in Computer Performance, A Historical View" is an article by KENNETH E. KNIGHT (IA) which appeared in the September 1966 issue of *Datamation*. Dr. Knight is currently an assistant professor at Stanford Graduate School of Business.

Mrs. Sheldon N. Cole (PATRICIA MILLER, A) received her M.A. degree in painting from the University of Michigan in 1964, where she studied with RICHARD WILT (A'38). Mrs. Cole is presently employed as an elementary art teacher in Ann Arbor.

JOEL M. RUDICK (A) is now a registered architect in the State of New York.

DAVID W. MORRIS (E) received his Doctor of Medicine degree from the University of Pennsylvania School of Medicine. He is now an intern at the Hospital of the University of Pennsylvania, Philadelphia.

ALBERT R. REID (E) is a development engineer with the U. S. Air Force in Sunnyvale, California.

TIMOTHY K. HASSELMAN (E) is a member of the technical staff of TRW Systems, Redondo Beach, California.

DOUGLASS R. MURRAY (IM) is a marketing representative in data processing with I.B.M., Columbus, Ohio.

First Lieutenant RAYMOND E. CZAHOR (IM) graduated from the Air University's Squadron Officer School, Maxwell Air Force Base, Alabama. He has been reassigned to Hill Air Force Base, Utah, for duty.

## Alumni Federation

### EXECUTIVE COMMITTEE

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Executive Vice President . . . William A. Conwell, E'29

Alumna Vice President . . Mrs. J. H. Hillman, III, A'47

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(I-A) George Kemp, E'63

(II) Joseph Oxley, E'52

(III) Donald Lilly, E'54

(IV) Thomas Coulter, I'33

(V) Dee J. Andella, PM'42

(VI) William Statler, E'40

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Alumni Fund Chairman . . . . . Robert Greiner, E'36

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Executive Secretary . . . . . Robert G. McCurdy

Associate Secretary . . . . . Wanda Garver

Associate Secretary . . . . . Richard S. Hopkins

Recorder . . . . . Mrs. Helen Sneec

'62

JANIS GEISLER RAMEY (M) is presently a technical communications writer for the Hagan Corporation a division of Westinghouse, Pittsburgh.

WILLIAM C. WANSLEY (IA) is in Atlanta, Georgia, where he is a marketing planner for American Cryogenics.

Mr. and Mrs. RICHARD O'MALLEY (IA, and KATHLEEN SHEEDY, M'63) are serving as alumni advisors in the Trenton, New Jersey, area for the Carnegie Admissions Council.

Dr. James F. Wilson (NANCY KEELER, E) is a postdoctoral fellow at Ohio State University, Columbus.

Dr. GEORGE W. SEMAN (E) is presently a staff scientist in research and advanced development for AVCO, Wilmington, Massachusetts.

Dr. UMID R. NEJIB (E) is an assistant professor at Wilkes College, Wilkes-Barre, Pa.

Mrs. J. Wallace Robinson (JUDITH WISE, M) is a computer programmer for People's Life Insurance Company, Washington, D. C.

DANIEL R. BRADLEY (PM) is pressroom assistant superintendent for the Sharp Corporation in Conshohocken, Pa.

DONALD F. FURGERSON (E) was released from the army last March and has been living in Pittsburgh where he is an associate engineer in the Computer Systems Division of Westinghouse Electric Company. Mr. Furgerson plans to work toward his M.S. degree.

BRUCE TEMKIN (E) is now employed as a design engineer for Space Craft, Inc., in Huntsville, Alabama.

Dr. and Mrs. CHARLES S. DURIS (E, and SYLVIA M. MATJJKO, L'61) are living in Alexandria, Virginia, where Dr. Duris is employed as a mathematician with Teledyne Ind., Inc.

ARTHUR SHAFFER (A) was a resident actor with the Civic Light Opera this past summer.

J. GEORGE CALDWELL (E) received his Ph.D. degree in statistics from the University of North Carolina at Chapel Hill this past June. For the past two years Dr. Caldwell has been with the Operations Research and Economics Division of the Research Triangle Institute in Durham, North Carolina. In August he joined the operations research department of the Deering Milliken Service Corporation in Spartanburg, South Carolina, as senior operations research analyst. The Caldwelles have two sons, Jay and Chris.

Mr. and Mrs. RENE AUBERJONIS (A, and JUDITH MIHALYI, A'65) are with the American Conservatory Theatre.

DENNIS P. MANKIN (E) is presently enrolled in the School of Law at Duquesne University.

Mrs. Clyde F. Friedline (RUTH REA, L) has been appointed to the professional library staff at Shippensburg State College. Mrs. Friedline had served as a librarian in the Somerset County (Pa.) schools since 1958.

KENNETH SUCHAN (A) is in Toledo, Ohio, where he is a planner III with the Toledo-Lucas County Plan Commission.

JOHN CLARKE, Jr. (E) is secretary and general manager of S.T.C. Leasing Inc., Masury, Ohio.

THOMAS A. HUFF (E) is presently a planning engineer with the H. K. Ferguson Company in Cleveland.

Dr. MARSHALL ABRAMS (E) has a new position as assistant professor of electrical engineering at the University of Maryland.

CASIMIR M. LAZICKAS (IA) is now in Buffalo, New York, where he is manager of product development and quality control for Eastman Machine Company.

GERALD L. ANDERSON (IA) has a new position as accounting supervisor in subsidiary company accounting for the Selas Corporation of America, Dresher, Pa.

LEONARD S. FREEMAN (E) is an operations analyst for Presearch, Inc., Silver Spring, Maryland.

Mrs. Thomas A. Mercer (DELTA KRAUSS, E) and her son, Thomas A. Jr., are in Tokyo, Japan, for a five months' visit with her husband, who is a lieutenant in the U. S. Navy and is on duty with the U. S. 7th Fleet off the coast of Viet Nam. Mrs. Mercer was formerly the senior (computer) systems analyst at the Barnett First National Bank in Jacksonville, Florida.

E. KEARS POLLOCK (E) is in Pittsburgh where he is a research engineer with Pittsburgh Plate Glass.

MARSHALL K. KURTZMAN (IA) is employed by Esso Mathematics and Systems Inc., Florham Park, New Jersey, as an engineer.

CHARLES A. GALLAGHER (E) was recently promoted to lead sales engineer with Electronic Associates, Inc., Des Plaines, Illinois. He now has responsibility for directing marketing of small and medium size analog/hybrid computer systems in the Central U. S.

DALE L. PERINETTI (E) received his master of science degree from Ohio State University in September.

Mrs. Charles A. Buerger (BRONA SUE STEIN, M), Glen Rock, New Jersey, died on August 1, 1966. Among her survivors are her husband CHARLES A. BUERGER (PM'60) and two children.

Dr. JAMES H. KORN (IA), assistant professor of psychology at Carnegie Tech, attended the 18th International Congress of Psychology in the Soviet Union this past summer. Dr. Korn was one of 10 young psychologists from the U. S. and Canada, selected by the American Psychological Association to attend the Congress.

**63** RICHARD W. BAIER (E) has completed his active military service and is presently working as a design engineer with Allied Chemical Corporation in Morristown, New Jersey.

MARTIN N. ACKERMANN (E) has been appointed an assistant professor of chemistry at Oberlin College.

D. A. SALVETTI, Jr. (IM) is presently manager of market research with U. S. Gypsum Company, Chicago.

W. RICHARD PIERCE (E) is doing graduate study in nuclear engineering at the University of Virginia under an Atomic Energy Commission Traineeship.

Dr. and Mrs. MARTIN G. LICHTENSTEIN (E, and ARLEEN MILLER, E'64) are living in Richardson, Texas, where Dr. Lichtenstein is a research scientist with Texas Instruments.

PAUL L. CARNAHAN, Jr. (E) received his Bachelor of Divinity degree from Harvard University this past June.

ROBERT R. ENGEL (E) received his Ph.D. degree in chemistry from The Pennsylvania State University in September.

RICHARD G. PARKER (E), a graduate student at the University of Nebraska, received a Texaco fellowship in Chemistry. He is working toward a Ph.D. degree in organic chemistry.

JUNE HELMERS REED (A) appeared in the Las Vegas cast of "Hello, Dolly!" this summer.

Mrs. Paul D. Piper (JEAN C. SCHWARTZ, M) is teaching in the Tacoma (Washington) Schools. She is working with the Head Start-teaching program for 4- and 5-year-old disadvantaged children.

WILLIAM W. WHITEHURST (IA) has joined the firm of L. E. Peabody & Associates, transportation consultants in Washington, D. C.

JON G. PARKER (PM), of Yardley, Pa., is serving as an alumni advisor for the Carnegie Admissions Council.

Dr. GERALD B. BRANDT (E) is a senior engineer at the Westinghouse Electric Research and Development Center, Pittsburgh.

CHARLES E. DONALDSON III (E) is attending the middle management development course at the Harvard University Graduate School of Business Administration.

ALAN M. WALMER (A) is an architect with Alexander, Rothschild and Joyce, of Huntsville, Alabama.

Dr. ROBERT R. JUDD (E) is presently a research engineer with U. S. Steel in Monroeville, Pa.

THOMAS C. JORDAN (IA) is in Pittsburgh and is a data consultant with Bell Telephone Company of Pennsylvania.

Dr. REID B. CROOKSTON (E) is presently a research engineer with Gulf Research & Development Company in Pittsburgh.

Mr. and Mrs. ARTHUR STEIN (E) are presently living in Las Vegas, Nevada. Mr. Stein is an engineer at the Westinghouse Astronuclear Laboratory.

RONALD W. SKEDDLE (E) is an assistant to the director of research, Pittsburgh Plate Glass, Pittsburgh.

In January, ROGER L. MOHRLANG (E) will be leaving for Nigeria, West Africa, to serve with the Wycliffe Bible Translators.

KENNETH H. KANTROWITZ (A) is an architectural designer for Williams, Trebilcock & Whitehead, architects in Pittsburgh. Mrs. Kantrowitz (SUSAN E. HARTMANN, M'66) is teaching ninth grade social studies in the Pittsburgh Public Schools.

Mr. and Mrs. DAVID E. HENKIN (E, and NANCY C. C. VOLTZ, M) and their son, Michael David, are living in Huntington Station, New York. Mr. Henkin is an electrical engineer for Airborne Instruments Laboratory in Deer Park, New York.

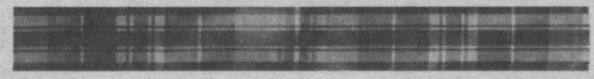
Dr. ANDREW P. CHENZOFF (IA) is a member of the staff of Applied Science Associates, Inc. in Pittsburgh.

JOHN GREBOS (A) is a teacher in the North Allegheny Schools, Pittsburgh. Mrs. Grebos the former BLAIR JESSOP (M'64) is teaching English at the Babcock Schools.

MICHAEL A. ROSEN (E) has been commissioned a second lieutenant in the U. S. Air Force upon graduating from Officer Training School at Lackland Air Force Base, Texas. He has been assigned to Keesler Air Force Base, Mississippi, for training as an electronics officer.

DALE A. DOUGLASS (E) has been appointed an instructor in electrical engineering at Carnegie Tech.

EDWARD W. DEVECKA, Jr. (E) is on leave of absence from the Radio Corporation of America, Aerospace Systems Division, to attend Harvard Business School.



## Let's Meet & Eat

The *Alumni News* presents a list of regular meetings, particularly luncheon meetings of the Clans—with the hope that traveling alumni can take advantage of these recurring events to meet some old friends or make some new ones.

### BOSTON

Third Wednesday of each month, 12 noon  
Rosoff's—97 Summer Street  
(No Reservations Needed)  
Pres. Donald L. Lilly  
Secy. Jo Anne Proulx

### CHICAGO

First Monday of each month, 12 noon  
Men's Grill, Carson's, S. State Street  
For reservations call  
Pres. Richard A. Waichler  
Secy. F. M. McGee, 262-0117

### CLEVELAND

Second Friday of each month, 12 noon  
(Except August)  
Cleveland Engineering Society  
3100 Chester Avenue  
(No Reservations Needed)  
Pres. William S. Haddock, Jr.  
Secy. Mrs. Robert Aronson

### NEW YORK

*Downtown*—3rd Wednesday of each month  
12:30 p.m., Miller's Woolworth Bldg.  
233 Broadway  
*Uptown*—last Thursday of each month, 12:30 p.m.  
N.Y.U. Club, Town Hall Bldg.  
123 West 43rd Street  
(No Reservations Needed)  
Pres. Jacolyn Connolly  
Secy. Mrs. Diann Litwar Fleischmann  
Clan Telephone Barclay 7-9190

### PHILADELPHIA

Second Friday of each month, Alpha Club  
1911 Chestnut Street  
For reservations call Charles Neu  
EV 2-1000 (ext. 2567)  
Pres. John D. Beattie  
Secy. Richard Elkman

### PHOENIX

First Tuesday of each month, 12 noon  
Smokehouse Restaurant  
4701 North 16 Street  
(No Reservations Needed)  
Pres. Albert J. Nelesen, Jr.

### SAN DIEGO

Second Wednesday of each month, 12 noon  
The Islands Restaurant, Hanalei Hotel  
Mission Valley  
For reservations call  
Pres. Robert F. Plott, 459-1668  
Secy. Mrs. Cecil Cotton

### WASHINGTON

Second Thursday of each month, 12 noon  
Golden Ox Restaurant  
1615 "L" Street, N.W.  
Pres. Gerard I. Sawyer  
Secy. Mrs. Leah Wolf, TA 9-2132



**'64** FORREST DEAN CARTER, Jr. (E) is presently a civil engineer at the Hydraulic laboratory of the Newport News Shipbuilding and Dry Dock Company.

DARYL C. KEMERER (A) had two of his original choral works performed by students and graduates of the College of Church Musicians of Washington National Cathedral last spring. Mr. Kemerer is presently organist-choirmaster at North Chevy Chase (Md.) Christian Church.

JOHN M. COOPER (E) is a supervisor with Alcoa in Lebanon, Pa.

Lt. j.g. ROBERT L. GOLDMAN (A) is presently assistant officer-in-charge of Radarman School at the Naval Training Center at Great Lakes, Illinois.

DAVID H. BIALOSKY (E) received his M.S. degree in chemical engineering from the Pennsylvania State University in September.

ANDREW P. LANGLOIS (E) received his master of business administration degree from Harvard University this past June.

NANCY BETH JACOBS (M) is employed by Conde Nast Publications as a fashion secretary to one of *Vogue's* fashion editors.

MICHAEL N. INGRAM (E) received his master of business administration degree from the University of Denver in August.

HOWARD SINDER (A) has joined Modern Publishing Enterprises as production manager. He had been with Random House. Mr. Sinder is also working toward his Master of Business Administration degree at the Bernard Baruch School of New York City University.

GUY M. BEATY, III (E), is presently mechanical engineer with Guy M. Beaty & Co. of Tennessee, Inc., a heat and sound insulation business in Chattanooga.

Dr. WILLIAM W. HILLIER (A) is associate director of television production for King Broadcasting Company, Seattle.

PATRICIA A. MILLS (A) is working for the Pittsburgh Regional Planning Association as a designer-planner.

Dr. RONALD L. KLUEH (E) is employed as a research metallurgist at the Oak Ridge National Laboratory at Oak Ridge, Tennessee.

ROBERT W. SMOCK (E) is Chicago Editor of *Steel Magazine*, Chicago, Illinois.

WILBERT A. PINKERTON, Jr. (IM) received his Master of Business Administration degree from Harvard University in June.

JAMES A. FITZGERALD (E) is in Wilmington, Delaware, where he is a research chemist with E. I. du Pont de Nemours & Co.

STEPHEN B. NEWMAN (A) received his Master of Business Administration from Harvard University in June. He is presently an architect-director of planning for St. Charles City, Inc., Washington, D. C.

GERALDINE ECKSTEIN (M) is teaching typing and business courses at Gladstone High School in Pittsburgh.

BURTON F. ROTHENBERGER (E) is presently a research engineer with Sun Oil Company, Marcus Hook, Pa.

Dr. ROHIT K. TRIVEDI (E) is a member of the faculty at Iowa State University.

Mrs. Paul W. Pheneger, Jr. (MARTHA E. COHEN, M) received her Master of Social Work degree from the University of California in Berkeley in June. She is now employed by the Santa Clara County Welfare Department as a social worker.

RUSSELL W. HERMAN (E) is a programmer for RCA, Cherry Hill, New Jersey.

Dr. LARRY B. CHURCH (E) is a post-doctoral fellow at the University of California, Irvine.

JOHN L. WHITE (E) received his A.M. degree from Harvard University last March.

Dr. JOHN A. HALBLEIB (E) is a member of the technical staff of Sandia Corporation, Albuquerque, New Mexico.

Dr. and Mrs. ROBERT M. BALZER (E, and JO ANN PASACIC, E'65) are living in Malibu, California. Dr. Balzer is a research scientist with Rand Corporation and Mrs. Balzer is teaching at the Pepperdine College in Los Angeles.

ROBERT A. BAULDAUFF (E) is in Oil City, Pa., where he is a metallurgical engineer in the Electric Weld Tube Division of Jones & Laughlin Steel Corporation.

RAY H. BAUGHMAN, Jr. (E) received his Master of Science degree from Harvard University this past June.

THOMAS H. MURPHY (A) received his Master of Architecture degree from Harvard University last March.

KENNETH C. JOHNSON, Jr. (A) is associate producer of the "Mike Douglas Show," Westinghouse Broadcasting Company Productions, Philadelphia. He had been producer-director at WPIX-TV, New York City, for 10 months prior to joining Westinghouse Broadcasting.

LOUIS J. KOOS (E) is an engineer at Westinghouse Electric Corporation Research and Development Center, Pittsburgh.

FRANK C. POND (A) received his Master of Fine Arts degree in art education from Pratt Institute Art School.

KENNETH P. HANOVER (A) received his Master of Architecture degree from Harvard University this past June.

RONALD P. HACKLEMAN (E) has been appointed a research associate in statistics at Carnegie Tech.

STEPHEN B. ZIMMERMAN (IM) received his M.S. degree from Rensselaer Polytechnic Institute in June.

Mrs. Alvin Bregman (ELISSA ANN FRESHMAN, A) is working as an activity therapist for the State of Pennsylvania at the Eastern Mental Health Center in Philadelphia. Dr. Bregman is in his last year of dental residency at Bryn Mawr Hospital, Pa.

DENNIS A. ROSS (E) is working as a field planning engineer with the Catalytic Construction Company of Philadelphia and is presently at the Borden Chemical Company in Leominster, Massachusetts.

JOHN PRUNCHAK (A) is supervising the string program for the Beaver (Pa.) Area Schools.

JOHN E. JACKSON (IA) received his Master of Public Administration degree from Harvard University in June.

ALLEN C. GREEN (E) received his M.S. degree in sanitary engineering from The Pennsylvania State University in September.

Dr. OM P. GOEL (E) has been appointed as an associate research chemist in Parke, Davis & Company's research laboratories in Detroit.

JAMES W. STRAW (E) is an electrical engineer at the Bell Telephone Labs in Naperville, Illinois.

JAMES R. SLATER (E) is employed by Jones & Laughlin Steel Corporation, Hammond, Indiana, as an electrical foreman.

SALLY SOFIELD (M) has a new position as executive secretary to the vice president of E. J. Lavino and Company, Philadelphia, Pa.

GEORGE A. GARLAND (IA) is management systems officer with the U. S. Public Health Service, Commissioned Corps, Cincinnati, Ohio.

CAROLYN FARKAS (M) received her M.A. degree in English from Johns Hopkins University in June. She is presently a graduate assistant at the University of Maryland.

SUSAN K. SEIBERT (M) is now teaching home economics in the Pittsburgh City Schools.

Mr. and Mrs. STEVE D. KORNBLOTT, (E, and JOYCE REISER, M'66) are living in Cleveland, Ohio. Mr. Kornblatt is a systems analyst for the Cleveland 7-County Transportation Land-Use Study. Mrs. Kornblatt is working toward her master's degree in English at Western Reserve University.

Dr. EUGENE A. PEYROUS, Jr. (A) is an assistant professor of drama at Antioch College.

Dr. ROMAN L. WEIL, Jr. (IA) is presently an assistant professor in the Graduate School of Business at the University of Chicago.

CHRISTOPHER H. KNAPP (E) is a chemical engineer at the Research and Development Center of General Electric, Schenectady, New York.

GEORGE T. PIERCE (E) is in Milwaukee, Wisconsin, where he is a project engineer for AC Electronics.

PAUL M. LAVELL (IM) is employed by Shell Oil Company, Toledo, Ohio, in sales.

The W. HOWARD WAUGHS (IA, and ALICE DIECKHAUS, M'62) are living in Irvington, New York. Mr. Waugh is a financial analyst with Esso Chemical Company.

RAYMOND G. STEIN, Jr. (E) is presently an engineer in the transportation systems department of Westinghouse Electric Corporation, Research and Development Center, Pittsburgh.

BENJAMIN S. PORTER (E) is presently an operations analyst with Xerox Corporation, Webster, New York. As of March, Mr. Porter will enter the U. S. Army Corps of Engineers for two years of active duty.

FRANK O. BRADY (E) is in his second year of graduate study in biochemistry at Duke University. He is working toward a Ph.D. degree. Mrs. Brady is a public health nurse in Durham County.

DAVID B. FRANCIS (E) is working toward his Ph.D. degree in electrical engineering at Carnegie Tech.

BEVERLY SILVERSTEIN (A) is an art teacher in the Shaker Heights City School District, Cleveland, Ohio.

RAMCHANDRA K. IYENGAR (E) is presently a research metallurgist with Jones & Laughlin Steel Corporation in Pittsburgh.

SHELDON W. LAUDERBAUGH, Jr. (E) is in Parkersburg, West Virginia, where he is a technical advisor with F. M. C. Corporation.

BELLAMY H. HOSLER (A) is a piano teacher at the Wisconsin School of Music, Madison, Wisconsin.

LAWRENCE SOUTHWICK, Jr. (IA) is a lecturer at State University of New York at Buffalo, New York.

EDWARD L. COYLE (E) is in St. Charles, Missouri, where he is a development engineer with American Car and Foundry.

LAURANCE D. EISENHART (E) is a scientist in the reactor physics and mathematics group at the Westinghouse Atomic Power Division, Pittsburgh.

EVERETT C. OREN (E) is presently in Bethlehem, Pa., where he is a research engineer at the Homer Research Lab of Bethlehem Steel Corporation.

Mrs. ROCHELLE COOPER WAGNER (A) is teaching fine arts in the Springfield, Massachusetts, schools.

GERST A. GIBBON (E), a Carnegie Tech graduate student, received a \$5,000 fellowship from the Mobay Chemical Company for independent research.

HOWARD W. PIFER, III (IA) is a doctoral candidate at Carnegie Tech.

ROBERT M. COHN (A) has been appointed designer and technical director of the Edyth Bush Theatre of Hamline University, St. Paul, Minnesota. He will also serve as instructor of speech and theatre at Hamline. Mrs. Cohn (HARLENE MARLEY, A'65) is an instructor at Humboldt Institute.

Mr. and Mrs. GARY W. LEACH (E) are living in Charleston, West Virginia, where Mr. Leach is a production supervisor with Union Carbide.

WESLEY L. WEBER (IA) is a lecturer at the State University of New York at Buffalo.

Dr. NASSIR MONEMI (E) is a design engineer with U. S. Steel Corporation in Pittsburgh.

DONALD R. GRAHAM (A) has been appointed a director of the industrial design department of Industrial Products, Inc., Pittsburgh.

JAMES H. LEVY (IA) is employed by the Hershey Chocolate Corporation, Hershey, Pa., in the marketing department. The Levys have a daughter, Alison Faith, 16 months old.

Mrs. Marvin B. Jacobson (RACHELLE A. BILLOWITZ, A) is teaching art in the Hopewell Valley Regional School District, Trenton, New Jersey.

RONALD G. CARLSON (E) has joined the Babcock & Wilcox Company, Barberton, Ohio.

JAMES R. SWARTZ (IA) is assistant to the manager of production services of Campbell Soup Company, Camden, New Jersey.

SUSAN M. ALEXANDER (E) has been appointed as a research assistant in the chemistry department of Parke, Davis & Company's experimental laboratory in Ann Arbor, Michigan.

KENNETH E. CODLIN (IA) has joined the Rand Corporation's logistics department, Santa Monica, California.

CARL V. BOSTROM (IM) is a metallurgist in the technical control group of Austenal Micro-Cast Division of Howmet Corporation, Dover, New Jersey.

JUDITH H. WINDT (M) is doing graduate work at Stanford University.

Mr. and Mrs. BRIAN J. HALES (E, and JACQUELINE KWASNIEWSKI, A) are living in Minneapolis, Minnesota. Mr. Hales is working toward his Ph.D. degree in chemistry at the University of Minnesota. Mrs. Hales is a research specialist in the Institute of Child Development at the University.

SCOTT McCORMICK (E) is attending graduate school at Purdue University and studying metallurgical engineering.

LAWRENCE E. RAYHER (IA) is an assistant to the vice president, engineering department of Hewlett-Packard in Palo Alto, California.

CARLOS E. TAYLOR, Jr. (A) is an architect with Robert & Company, Associates, of Atlanta, Georgia.

JENNY E. WHITE (M) is a dietetic intern at the University of California Hospitals, San Francisco.

Dr. MOHAMED-ALI KETTANI (E) is an assistant professor in the electrical engineering department at the University of Pittsburgh.

MICHAEL G. BROWN (E) is a mathematician at the U. S. Navy Marine Engineering Lab in Annapolis, Maryland.

MARCIA D. ISRAEL (M) is a systems engineer trainee with IBM in Pittsburgh.

MARLENE M. KOSTEK (M) is teaching business studies at Scotch Plains High School in Scotch Plains, New Jersey.

PAMELA J. MERRILL (A) is adult promotions director for Kaufmann's in Pittsburgh.

WIKTOR C. NERWINSKI (A) is an architect with the Urban Redevelopment Authority in Pittsburgh.

RICHARD J. MURPHY (IA) is in St. Paul, Minnesota, where he is a security Analyst for 3M.

GIORGIO CORALUPPI (E) is a senior project engineer with American Optical Company, Pittsburgh.

IOSEF TALMACIU (E) is employed by R.C.A. as an electronic engineer in Meadow Lands, Pa.

PETER A. TETT (IA) is presently in England where he is a member of the finance staff of Ford Motor Company Limited in Warley, Essex.

FRANK L. GENTRY (IA) is an economic analyst for Humble Oil and Refining in Houston, Texas.

GARY P. McCLOY (A) is attending graduate school at Alfred University to work towards his M.F.A. degree in ceramic design.

FRANK J. PLECITY (IM) is now a metallurgist in the stainless steel department of U. S. Steel Corporation's Vandergrift plant. Mr. Plecity joined U. S. Steel in 1956.

DAVID B. PARKS (A) has accepted a position with Post-Newsweek Station WTOP-TV in Washington, D.C., in the production department.

RICHARD L. BEHLING (IA) is assistant to the vice president for manufacturing of Westinghouse Air Brake Corporation, Pittsburgh.

WILLIAM F. COWHERD, II, (E) is doing graduate work in the department of chemical engineering at the University of Maryland.

TOM THOMAS (A) is studying film-making in London under a Cameron Overseas Grant this year.

ISIDRO J. FERRER (E) is a process design engineer with the Monsanto Company in St. Louis, Missouri.

WILLIAM F. MOORE (A) is a 2nd lieutenant in the U. S. Army Signal Corps. After attending the Student Officer Basic course and airborne training at Fort Benning, he will relocate in Augsburg, Germany.

ARNOLD J. LIEBERMAN (IA) has been appointed a special assistant to the Dean of the Graduate School of Industrial Administration at Carnegie Tech.

SUBRATA K. SEN (IA) is a Ph.D. candidate at Carnegie Tech.

CHANDRAKANT R. BHATIA (E) is in Dayton, Ohio, where he is a mechanical engineer with the National Cash Register Company.

TERESA M. PICCOLA (A) is teaching art in the Trinity Area Schools, Pittsburgh.

RICHARD G. FEGAN (E) is a mechanical design engineer with the Dravo Corporation in Pittsburgh.

ROBERT L. RAPPAPORT (A) is doing graduate work in drama at New York University. Mrs. Rappaport is the former REGINA RESS (M'64).

EDGAR WEINSTOCK (A) graduated from a Volunteer In Service To America Training Program at the University of Minnesota in Minneapolis. He will spend one year working with the Hull House of Chicago. VISTA, the volunteer corps of the Office of Economic Opportunity, sends workers to projects that request aid in poverty pockets within the United States and its territories.

EUGENE LESSER (A) will direct the Milwaukee Repertory's production of "The Merchant of Venice."

GEORGE C. AIGRET (E) is presently an engineer with Caterpillar Belgium in Gosselies/Charleroi, Belgium.

ALFRED S. STRAUMANIS (A) directed the summer workshop in dramatics at the Robert Morris Junior College in Moon Township, Coraopolis, Pa.

THOMAS P. FERENEC (IA) is an assistant professor at Columbia University. Mrs. Ferenc is the former ELEANOR WISEMAN, (M'64).

JOHANN A. STAMM (E) is a mechanical engineer in the Central Research Group of Rockwell Manufacturing Company, Pittsburgh.

CHARLES R. FLETCHER (A) is teaching art at Westinghouse High School in Pittsburgh.

Mrs. Richard B. Grove (KAREN HILL, E) is doing graduate work in educational research at the University of Pittsburgh.

JOHN C. FRANK (E) is an engineer with Sikorsky Aircraft, Stratford, Connecticut.

JOHN M. CUTHBERT (E) is a design engineer with McDonnell Aircraft Corporation, Space and Missile Engineering, St. Louis, Missouri.

F. RICHARD MOORE (A) is doing graduate work at the University of Illinois Graduate School of Music, Urbana. Mrs. Moore is the former MICHAEL MCCOY (E'65).

JOHN W. LATCHEM, III (E) is in Downey, California, where he is a structures engineer for North American Aviation.

RANDON M. BOSCH (M) is living in Pittsburgh and is employed by Gulf Oil Corporation as a secretary.

FRANK A. RISCH (IA) is a financial analyst for Standard Oil Company of New Jersey, New York City.

RONALD G. CARLSON (E) has been assigned as an assistant engineer in the nuclear and special products department at The Babcock & Wilcox Company's Boiler Division headquarters in Barberton, Ohio.

Carlson '66



ROBERT J. FRITZ (E), who is working toward his Master of Business Administration at the Harvard University Graduate School of Business Administration, has been selected as one of 20 National Honorary Fellows from an entering M.B.A. class of approximately 695.

LAURENCE A. DAWSON, Jr. (E) has been awarded an American Machine and Foundry Company Fellowship at the Harvard University Graduate School of Business Administration. He is working toward a Master in Business Administration degree.

VIRGINIA LEE SALKO (M) has a new position as systems associate in the systems research department of Southern Pacific Railroad, San Francisco.

# The Secretary's Letter



Bob McCurdy

One could not ask for a more exciting time to be on the campus of Carnegie Tech. The newly announced joining with Mellon Institute to form Carnegie University, the fact that within a short period of time educational television station WQED will be located on our campus and the potential of a new college of liberal arts have added an excitement that is difficult to realize unless you are an active part of it. Carnegie alumni should take every opportunity to visit the campus and feel the dynamic throbbing pulse of the faculty, student body and the administration. Everything is booming.

The recent Homecoming was a testament to the spirit that has developed at Carnegie Tech. I have never seen more creative fraternity exhibits for Homecoming. I have never before seen a campus go so all out in backing the football team with spirit. Signs were everywhere. The stands were full to capacity and the grass bank opposite the field held another 1000 spectators. It is the first time in a long time that 7000 people attended a Carnegie Tech football game.

It is obvious that the faculty, the students and the alumni are cooperating toward making this one of the greatest universities in the country. The seeds are being sown now for this great university. This will require a great deal of creativity and imagination on the part of

alumni because this attitude is a contagious one, and as alumni are enthusiastic and actively supporting their Alma Mater, so does the rest of the community.

I have seen the spirit of students displayed at alumni receptions wherein prospective students and their parents, along with present students, are invited to meet with alumni. To hear our present students selling Carnegie Tech to prospective students is indeed heart-warming. It is obvious that the cooperation we are now enjoying from alumni through the Carnegie Admissions Council in helping to recruit prospective students is providing us not only with students of exceptional ability but also with students that are well rounded socially. In fact, I might even go out on a limb and say that it appears to me that this year the students are even dressing better.

Alumni have responded well to every request in the past, but now with the even greater opportunities to have a great university will come even greater opportunities for alumni to serve. Carnegie Tech needs the support of its alumni through creative ideas and hard work. A dormant volcano is about to explode. Each alumnus can be a part of this according to his own desires. We're counting on every one of you to join this hard-hitting team.

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