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ROSE ECHOES

ALUMNI MAGAZINE

SPRING, 1970

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Farewell To The Good Guys

ROSE ECHOES

Alumni Magazine

May, 1970

Vol. X, No. 2

ROSE ALUMNI ASSOCIATION

EXECUTIVE OFFICERS 1969-70

Robert T. Mees, '31, President

John T. Newlin, Feb. '43, Vice President

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Fund Raising William R. Gray, Aug. '50

Student Recruitment Fred W. Goetsch '57

Rose Tech Clubs Gene L. Mrava '57

Awards and Recognition
William Nicewanger '63

Continuing Education
Carl R. Wischmeyer '37

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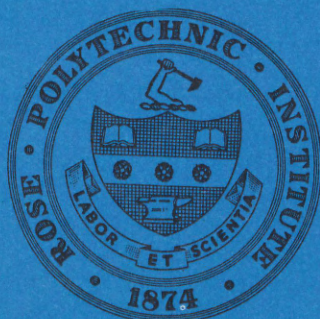
Russell E. Archer, Sr., '34
1966 to Annual Meeting 1970

Fred W. Garry April '51
1968 to Annual Meeting 1972

ROSE ALUMNI OFFICE

Terrence R. Barton Alumni Director

W. Kent Harris Editor, The Echoes



In This Issue



The Cover: Professors John L. Bloxsome and Paul B. Headdy, who will retire in August after 41 and 22 years of service to Rose, were elected by acclamation as "Good Guys of the Year" during a special recognition dinner for the popular duo in May. Chairman Al Schmidt ('49) and party boss Dr. John A. Logan are shown with the candidates at the big rally.

Across the Campus	Page 1
Honorary Doctorates	2
Faculty. . . A New Dean	4
Earth Day '70	6
Student Government on Move	7
Chemistry. . . Raquel vs. Twiggy?	8
Commencement '70	10
Alumni in the News	12
Class Notes	14
In Memoriam	20

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Across the Campus

In an hour when many colleges and universities have been forced to close their doors and call off Commencement for fear of violence, it is gratifying to be able to sit down to a typewriter and look out a window over a calm and green campus in search of the best way to open this Spring issue of *Rose Echoes*.

One could call it a "business as usual" atmosphere, but why bother? Instead, let's take a ten-page tour "Across the Campus" where we will find. . . .Honorary doctor's degrees to four favorites at *Rose* on Page 2. . . . Appointment of a new Dean of the Faculty and other high administrative changes on Page 4A visit to *Rose* by consumer watchdog Ralph Nader on Page 6. . . . Raquel Welch in a chemistry lecture (?) on Page 8 and quick look at Commencement '70 on Page 10.

The balance of the magazine is about alumni, and it is at this point *The Echoes* wishes to thank those who took the time to send in class notes or call our attention to a special story about an alumnus. Participation in this area has improved vastly in recent months. It is our hope that correspondence to *The Echoes* will continue to improve, thus further expanding the alumni notes section of the magazine.--The Editor.



Perhaps the most action-packed half hour of the Spring quarter was the ten-mile bicycle race which climaxed the annual Greek Games. Lambda Chi Alpha fraternity took overall honors for friendly competition which included relay races on bicycles and go-carts (the hand-pushed variety) and in canoes, a tug-of-war and song contest.

Four Rose men—three of whom earned degrees from the Institute and another who has played a major role in the operation and growth of the college over the last four decades—were among six persons receiving honorary degrees at the 92nd commencement exercises.

Chosen for the highest award of the Institute were **Joseph A. Engelhard '22**, formerly president of Glenmore Distilleries Company, Louisville; **Adam K. Grafe '25**, president of Adam K. Grafe Associates, Inc., consulting engineers of Dallas, Texas, and Lexington, Kentucky; **Carl R. Wischmeyer '37**, director of education for Bell Telephone Laboratories, Holmdel, New Jersey, and **John L. Bloxsome**, vice president and special assistant to the president of Rose and senior member of the faculty of the school.

Others are John T. Rettaliata, president of Illinois Institute of Technology, Chicago, and I. Lynd Esch, president of Indiana Central College, Indianapolis, commencement speaker.

Special as this recognition is to an alumnus or person associated with higher education, the occasion takes on new dimensions for one honoree in particular.

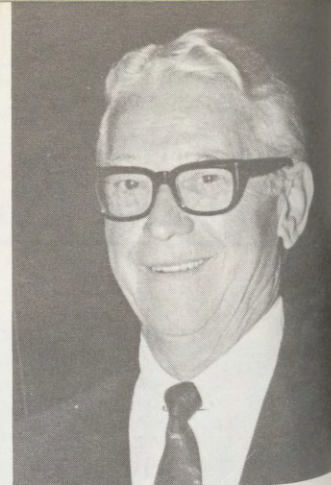
For Professor Bloxsome, awarding of the Doctor of Letters serves as a high point in a career dedicated to Rose Polytechnic, its students and alumni.

A member of the faculty since 1929, Professor Bloxsome has participated in fifty-three Rose commencement exercises and owns the distinction of having taught more Rose men than any other member of the faculty.

Honorees



Joseph A. Engelhard
Doctor of Engineering



Adam K. Grafe
Doctor of Engineering

Joseph A. Engelhard, who was graduated with the last class to spend all four years at the original Rose campus in Terre Haute, served as president of Glenmore Distilleries for more than twenty years prior to his retirement five years ago.

A nationally-known leader in his field, he entered the business at the outset of Repeal in 1933 and in less than a decade was named to head the corporation. Engelhard was made secretary-treasurer in 1935 and acting president in 1941, a position he held until being named president in 1946.

Although his college career was interrupted by a tour of duty as a second lieutenant in the United States Marine Reserve Flying Corps during World War I, he was a four-year letterman and captain of the 1921 Engineer football team, student body president and a member of Alpha Tau Omega fraternity.

Following graduation, he went to work for Reynolds Metals Company, advancing through engineering assignments to a position as assistant treasurer and manager of the company's foil rolling mill in Glendale, New York, in 1929.

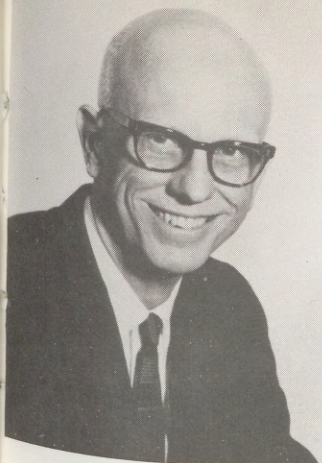
A loyal alumnus and frequent visitor to Rose over the years, he served as the alumni representative to the Board of Managers from 1962 to 1966.

Adam K. Grafe, who served as president of the Alumni Association in 1967-68, has engaged in numerous phases of engineering, mining and construction during a career spanning forty-five years.

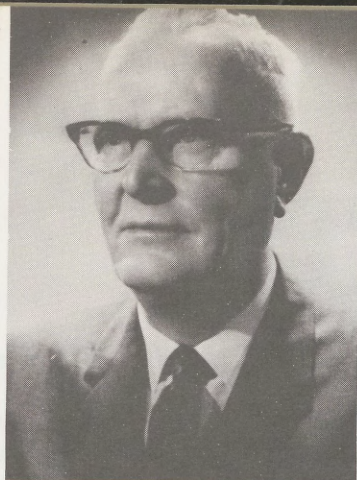
An active consulting engineer in twenty states, his company in recent years has been engaged in design of major interstate and tollway projects throughout middle America and the Southwest.

Following his graduation in civil engineering (his college memberships included Sigma Nu fraternity), Grafe held various positions in the phosphate mining industry of Florida, coal mining in Indiana and general civil engineering work in Pennsylvania. In 1936, he left Maumee Collieries Company, Terre Haute, and launched his own engineering and construction firm in Dallas.

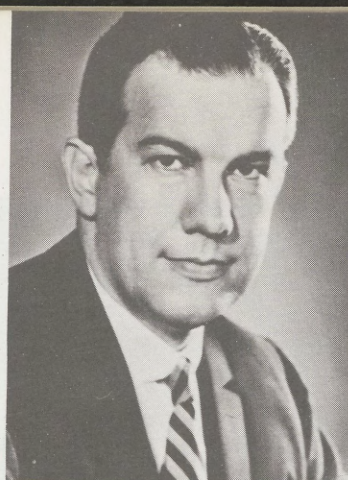
Grafe later was president of McGinnis and Grafe, Inc., of Dallas, from 1942 to 1949, during which time he was responsible for design and construction of a major highway building program and military airport complexes throughout the Southwest. More recently, his company designed the recently completed tollway system in Kentucky -- a project which brought about a branch office in Lexington.



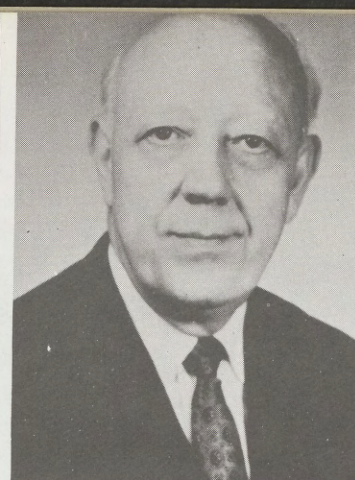
Carl R. Wischmeyer
Doctor of Science



John L. Bloxsome
Doctor of Letters



John T. Rettaliata
Doctor of Engineering



I. Lynd Esch
Doctor of Letters

Carl R. Wischmeyer assumed his duties as Director of Education for the Bell System in 1968, following a twenty-nine year tenure at Rice University where he advanced from instructor in electrical engineering to director of continuing studies at the prestigious Houston, Texas, school.

Son of the late Carl Wischmeyer, formerly vice president of Rose Polytechnic and chairman of the mechanical engineering department, Wischmeyer is a second generation Rose graduate, Hemmingsway Medal winner and recipient of the highest award of the Institute. (Rose conferred the Doctor of Engineering degree on his father upon retirement in 1955).

Wischmeyer earned a masters in electrical engineering from Yale University in 1939 and the same year moved to Rice University. In addition to his teaching duties, he was Master of Baker College, the Rice Institute, from 1956 until his move to Bell Laboratories.

Wischmeyer, who has corporate responsibility for planning, implementation and administration of campus and in-house educational programs of the Bell System, served as president of the Alumni Association in 1960 and was the alumni representative on the Board of Managers from 1964 to 1968.

If it is possible to become a "Rose man" by association, Professor John L. Bloxsome should have been inducted into the order years ago.

A Rector Scholar at DePauw University where he earned an A.B. in 1927 (M.A., University of Chicago, 1935), Professor Bloxsome joined the faculty in 1929 and remained in teaching until 1960 when he was named the college's first Director of Development-- a position responsible for creating admissions, placement, public relations and fund raising programs to fit the needs of a school which was to more than double in enrollment to 1,000 men in less than a decade.

Professor Bloxsome, oldest member of the faculty in terms of service, subsequently was named Vice President for Development in 1965 and in 1969 was named to his current duties as Vice President and Special Assistant to the President of Rose.

His experience in school administration outside Rose has included three terms on the Board of Trustees of DePauw, five terms as an elected member of the Terre Haute Board of School Trustees. He also is the governor's appointee to the Board of Directors of the Wabash Valley Regional Institute of the Indiana Vocational Technical College at Terre Haute.

Dr. John T. Rettaliata has been president of the Illinois Institute of Technology since 1952, during which time he has received numerous honors both as a professional engineer and a leader in the field of engineering education.

A native of Baltimore, he earned the B.S. and Doctor of Engineering degrees from John Hopkins University in 1932 and 1936 respectively.

Dr. Rettaliata joined IIT as director of mechanical engineering in 1946 after ten years with Allis-Chalmers Company, Milwaukee, where he had advanced to manager of research and the gas turbine development division of the corporation.

An active civic leader, he is a director of thirteen major corporations, including Amsted Industries, Brunswick Corporation, DeSoto, Inc., and Western Electric Company.

Dr. I. Lynd Esch, president of Indiana Central College in Indianapolis since 1945, has been a key figure in furthering the aims and goals of privately supported education in the State of Indiana in recent years.

A native of Pennsylvania, he was graduated as the top man in his class at Goodyear Industrial University (M.S. '27) and later worked for Goodyear until 1933

(Continued on Page 7)



Dr. James B. Matthews
... New Dean of Faculty

Three Alumni Named to New Administrative Posts at Rose

Faculty

Several Rose Polytechnic faculty members and administrators—including three graduates of the institute—will assume new duties at the school when the 1970-71 academic year commences in September.

Dr. James B. Matthews ('54, M.E.), chairman of the mechanical and aerospace engineering department and a member of the faculty since 1956, will become Dean of the Faculty—no doubt the youngest academic dean in the history of the school.

He will succeed fellow Rose man Dr. Darrell E. Criss (Feb. '43, E.E.) who will assume duties as Director of Institutional Research and Professor of Engineering at Rose. Dr. Criss has had the dual responsibility of academic dean and director of the computer center since 1956.

Dr. P.D. "Dave" Smith ('50, E.E.), professor of electrical engineering and a member of the faculty since 1954, is the new chairman of electrical engineering, replacing Dr. Charles C. Rogers, who has asked to be relieved of the chairmanship and devote full time to teaching.

Dr. Alan T. "Tom" Roper, professor of mechanical and aerospace engineering, will assume the chairmanship vacated by Dr. Matthews. Approval of the major academic personnel changes was made during the last meeting of the Board of Managers.

The retirement of Professor Paul B. Headdy as Director of Placement will bring about two administrative personnel changes.

Professor Headdy, a member of the faculty since 1948 and director of both admissions and placement from 1960 to 1968, will

be succeeded by William W. Sisson, who has served as registrar for the last two years.

Louis W. Harmening, Jr., a teacher of English at the college and high school levels in the Chicago area for the last eight years, has been named to replace Sisson as registrar and teach part time in Humanities and Social Science department.

Dr. Matthews, who will be responsible for administration of the academic programs, continued his education at the Massachusetts Institute of Technology and the University of Arizona. He earned a masters at MIT in 1959 and completed a Ph.D. in aerospace engineering from Arizona in 1966.

Advancing through the professional ranks at Rose, he was named chairman of the mechanical engineering department upon his return to Rose in 1966. Since that time he had been instrumental in introducing aerospace engineering to the curriculum--the program having been granted degree-granting status last fall.

Dr. Criss, who joined the faculty upon return from military service in 1946, earned both the masters (1950) and Ph.D. (1959) from the University of Illinois.

He taught electrical engineering for nearly 20 years prior to being named associate dean of academics in 1965. A year later he was appointed Dean of the Faculty.

Instrumental in the formation of the experimental Indiana Regional Computer Network (IRCN), a link between Purdue University's giant computing center and eleven other institutions, Dr. Criss will continue to direct Rose's computer operations in addition to his new research duties.

Dr. Smith brings both academic and industrial experience to his new position. He earned his masters at the University of Illinois in 1952 and the Ph.D. from the University of Denver in 1966.

His research and industrial experience includes work with Denver Research Institute, Bell Telephone Laboratories, Texas Instruments, Inc., Naval Avionics, Boeing Airplane Company and Farnsworth Electronics Company.

A 1961 graduate of Indiana State University, Sisson came to Rose from industry where he had served in personnel and industrial relations positions for the Visqueen Division of Ethyl Corporation and Commercial Solvents Corporation.

He joined Visqueen in the personnel office and in 1965 was promoted to personnel manager of the corporation's new LaGrange, Georgia, facility. He had been associated with Commercial Solvents for two years prior to becoming registrar in 1968.

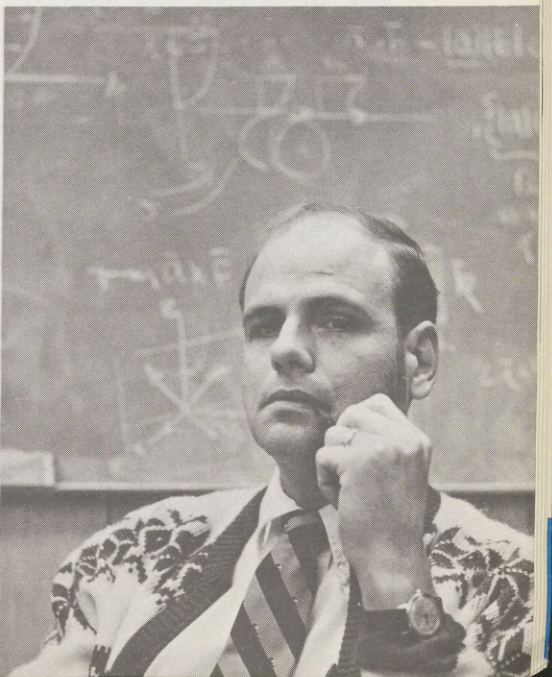
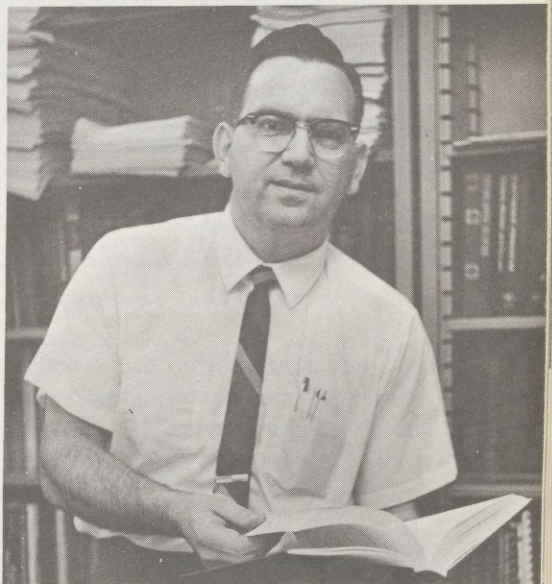
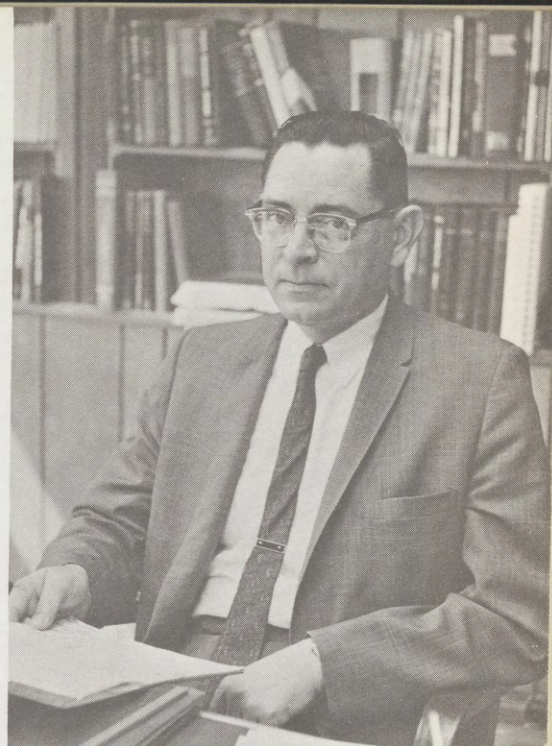
A graduate of DePauw University in 1961, Harmening has been a teacher of English at the high school and college level since his graduation.

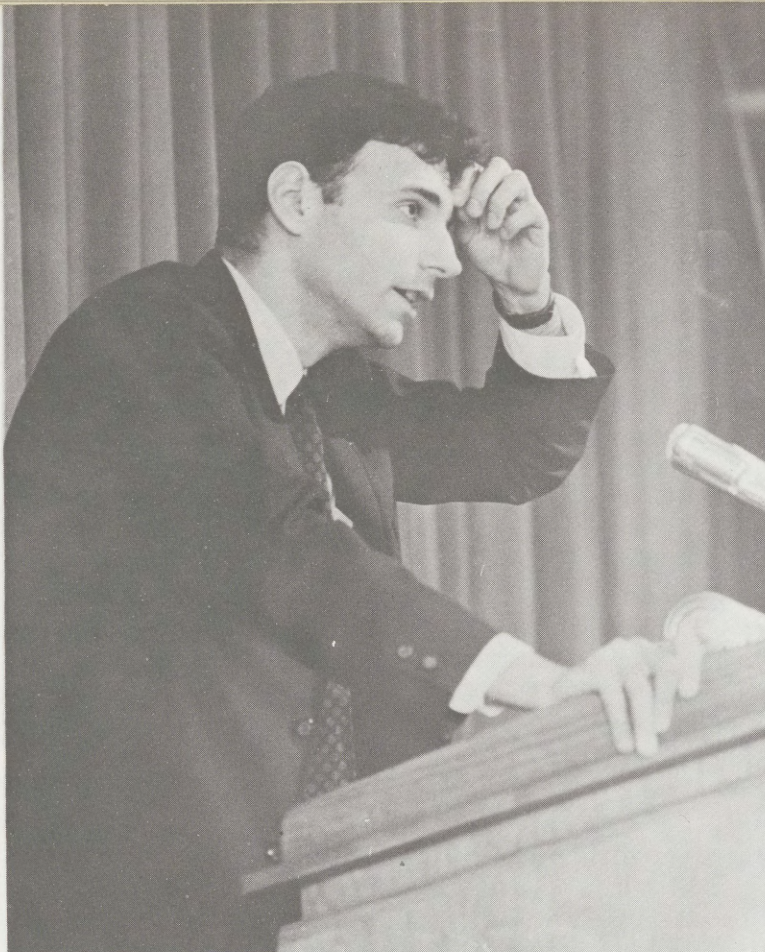
He earned a masters at Northern Illinois University, DeKalb, and has done additional graduate work at Macalester College in Minnesota. Additional college experience includes teaching at Elmhurst College on a part time basis and participating in teacher certification and curriculum evaluation programs in the Chicago area.

Dr. Darrell E. Criss

Dr. P. David Smith

Dr. Alan T. Roper





"We must make sure that the water is pure under the bridge and the air is pure around that skyscraper"

They didn't march on corporate headquarters of industry demanding the impossible. Nor did they bury an automobile or make other gestures common to Earth Day '70 activities on college campuses across the nation this spring.

But, to be sure, the Rose student body made a variety of points on the pollution of our environment very clear. And the students articulated them to the public in a manner which professional men would appreciate.

Headed by Bill Strahle, a sophomore biological engineering major from Terre Haute, the Rose Earth Day committee planned an environmental teach-in which was rivaled in the Midwest by only

Michigan State and its bevy of nationally-known speakers.

The high point of Environment Week '70 at Rose came on the opening day and a visit to the campus by Ralph Nader, much publicized watchdog for the American consumer public.

In his speech to the student body, the young attorney urged the students to develop a new "engineering conscience" and dedicate themselves to helping solve the technological and moral problems facing the world today.

"The point here is that engineers really have got an obligation to teach these potentialities and to teach the ethic that we can save so many more lives and limbs quicker and more cheaply by

adopting technology to fit man rather than by bending man to adapt to technology," he told the student audience.

"First of all, 'environmental pollution', as a phrase, should be abolished. It doesn't really convey what it is. . . .because what it is . . . is 'environmental violence'--pristine, raw, documented environmental violence. Hydrocarbons, carbon monoxides, sulfur oxides, nitrogen oxides, particulate matter, and just hundreds of other forms of chemical violence, gaseous violence, and the like, attacking tissue, human tissues, cell structure, having a genetic effect on future generations. This is a massive form of persuasive violence, and you can't get away with it.

"What is the role of the engineer here? First of all it's quite clear (it's) one of the biggest challenges for your generation. In the old days the challenges to engineers were, you know, to build a bridge, to build a skyscraper. Now it's really to make sure that the water is pure under the bridge and the air is pure around that skyscraper.

"These are the kinds of engineering challenges that are arising because past engineering developments were very imbalanced. They were pretty good for their commercial objective, they were terrible for their polluting, their ravaging of the natural environment."

Other Environment Week speakers included one of the state's leading naturalists, the founder of the local chapter of "Zero Population Growth" and faculty members from Rose and Indiana State University who teach environment-related subjects or work in pollution control, such as Rose's Dr. Noel E. Moore, professor of chemical engineering and director of the Pollution Control Division of the Vigo County Health Department.

The Rose committee also sponsored a community-wide session of

Rose Echoes Alumni Magazine

Students

A dean of student affairs at a large Midwestern university recently was quoted as saying that "student government is dead on the nation's college campuses."

Obviously, the generality does not apply to Rose where Student Government still operates by majority rule (approximately sixty percent of the student body voted in an election for student government offices in May) and appears eager to tackle new projects of general interest to the college.

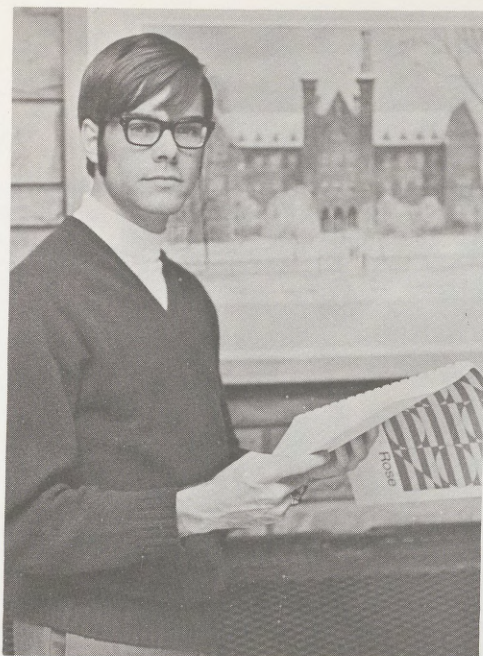
Student Government, which dates back to before the turn of the century at Rose, has been a dynamic force on the campus in recent months. A brief accounting of its accomplishments follows:

- **Big-name Entertainment--** Student Government sponsored "The Association," a \$10,000 group for Homecoming, and recently had a hard rock group, "Frijid Pink" on campus for a novel outdoor concert--on a raft in the campus lake, no less!

- **Speaker of National Prominence--**Ralph Nader spoke at opening day activities for Environment Week '70. SGA arranged and paid for his appearance at Rose.

- **A New Kind of Student Handbook--**SGA replaced the former printed handbook in favor of a seventy - five page mimeograph handbook which emphasizes services and "how do I get there from here" information rather than the traditional "restatement of the rules" approach. The book is more economical and should prove simpler to revise.

the teach-in and called on Rose President Dr. John A. Logan, a consultant to the World Health Organization, Congressman John T. Myers (R-Ind.) and leaders of local industry to discuss the problems of pollution in the community.



When Student Government President John Hodsdon ('70, Physics) learned SGA could not afford printing or professional secretarial services, he personally type stencils for the new seventy-five page Student Handbook. That's student government in action.

- **Creation of Activities Board--** The activities board has been established as a part of Student Government to improve the social atmosphere at Rose. The board will 1) promote "big-name" entertainment two to three times a year; 2) bring in three prominent speakers for significant convocations; 3) sponsor up to three major campus dances per year (bands of \$600 range) and 4) be responsible for the entire student social schedule at Rose.

- **Refrigerator Rentals--**(Profit will go to budget of activities board).

- **Rules Changes--**Rules were adopted for party scheduling, fraternity and dormitory house regulations, etc. In fact, it will be working "overtime" this summer on plans for a bigger and better Homecoming '70 for the students, as well as alumni and friends of Rose.

Student Government certainly is not on the way out at Rose.

More About

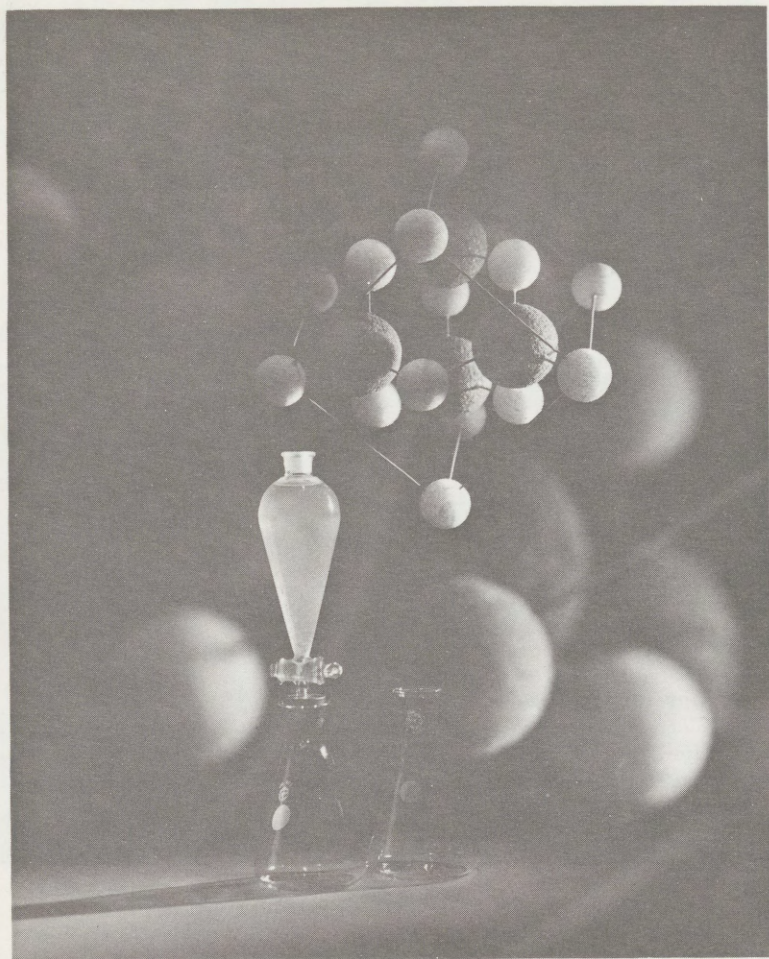
Honorary Degrees

when he entered the ministry.

Dr. Esch earned a B.A. in religion and philosophy from Chapman College in 1939 and continued his education at the University of Southern California where he earned the M.A. and Ph.D. in religious education ('42).

During his tenure at Indiana Central, the college has witnessed both academic and physical growth, having recently adopted extensive night school and graduate programs in teacher education to better serve the educational needs of central Indiana.

Dr. Esch, who will retire at the end of the current school year, previously has been awarded honorary doctorates by York, Lebanon Valley and Chapman colleges and Butler University.



Two decades ago the study of chemistry was largely one of defining and studying the composition of matter. Today, the emphasis has shifted and the test tube and beaker have given way in varying degrees to the computer and instrumentation.

In order to get a better picture of the changes in chemistry curricula, let's sit in on part of a lecture by Dr. Frank A. Guthrie, recently appointed chairman of the department of chemistry which this year is observing its tenth anniversary as a degree-granting department.

Projecting a color slide of actress Raquel Welch on the screen at the front of the classroom, Dr.

Guthrie greets a beaming student group. (It's not often that the likes of Miss Welch are seen on the Rose campus).

"Think of Raquel," he tells the students, moving quickly to the next slide in the series, "Now, think of Twiggy.

"The old chemistry dealt with the composition of matter; in other words, the percentage of composition of the sample," he said, building for his first point, "These two gals would have basically the same chemical composition, but this alone is not enough to distinguish between them.

"Now, think of the same two young ladies and new chemistry which is concerned with structure;

in other words, the way the atoms are arranged within the molecules and the way the molecules are arranged with respect to each other. Structurally, there is an obvious difference between the two."

His point (and slides) well taken by the students, Dr. Guthrie then proceeds to describe "new chemistry" and the ways chemical structures can be studied by a variety of chemical, spectroscopic and other instrumental methods. Inasmuch as the average student entering Rose will have had a better chemistry background than a college sophomore fifteen years ago, the school introduces him to new methods such as infrared and ultraviolet spectrophotometry at the earliest possible date.

Students begin work in infrared at the sophomore organic level and progress through the curriculum to a point where they not only have the ability to interpret spectra, but also learn many of the design features of the equipment. Through use of systems analysis, he studies optics, electronics, mechanics and chemical systems to find out what an instrument will and will not do, thus it is more than a "black box."

While the curriculum is moving more toward the new chemistry, Rose attempts to attain a reasonable balance between the conventional "wet chemical" methods and the modern instrumental methods. Reasonably equipped in both areas, the school has two infrared and two visible-ultraviolet spectrometers, a gas chromatograph and related instrumentation. Study of crystal structures with X-ray diffraction, and emission spectroscopy are possible through the joint efforts of the departments of chemistry and physics.

At the freshman level alone, the department recently spent \$5,000

Chemistry

New Chemistry As Much Like Old As Raquel Welch and Twiggy . . . ?

freshman now rather routinely uses pH meters (an instrument used for measurement of solution to put modern equipment into the laboratory experience. Hence, a acidity), colorimeters and semi-automatic balances. In short, students from the freshman course to the highly-specialized senior chemistry offerings are using equipment that was not available a decade ago when Rose added degree programs in the pure sciences of chemistry, physics and mathematics to the long standing engineering curricula of the school.

Rose, which will have conferred nearly sixty B.S. degrees in chemistry by the end of 1970, is beginning to realize the impact of the relatively new program. Chemistry graduates have entered a number of fields with success, including research, sales and corporate management, education, chemical oceanography and pollution control.

The department has been one of the leaders in the number of graduates continuing their education, and at the present time has sixteen men who hold the Ph.D. or are well on the way to the advanced degree on a fulltime basis.

The faculty, which still devotes a major portion of its time to general course work at the freshman and sophomore levels and service offerings for chemical and biological engineering and other departments, will number six members for the first time in September.

A sprinkling of veterans and younger teachers, the chemistry faculty is comprised of Dr. Oran M. Knudsen, a member of the Rose family since 1946 and head of the department from 1952 through 1969; Dr. Guthrie, a member of the faculty since 1952; Dr. Benjamin Benjaminov (1959-), Dr. Theodore Sakano (1965-), and newcomers Dr. R. Dean Hill and Dr.

Glenn Baca. Dr. Hill joined the faculty in 1968, while Dr. Baca (a doctoral candidate under Dr. Hill at New Mexico State and teaching assistant at Rose in 1968-69) will assume fulltime duties at Rose in September.

In addition to offering a diversity in chemistry (physical, analytical, organic, inorganic, etc.), the faculty is engaged in numerous other activities at Rose. Dr. Knudsen, for example, is active in Rose's unique "Operation Catapult" during the summer, while Dr. Guthrie is faculty advisor to the recently chartered Phi Gamma Delta social fraternity.

Dr. Hill, who serves as chief fuel checker for the National Hot Rod Association, has created a tremendous amount of interest in the

Rose Racing Association (70 members). . . enough interest, in fact, that the club has built a stock dragster which it plans to race competitively this summer.

Dr. Benjaminov, meanwhile, has been selected as a visiting professor of chemistry at the University of Strasbourg in France during the 1970-71 academic year, and has been granted leave for the four R's of sabbatical--rest, rededication, research and reading.

Chemistry is on the move at Rose, but it does have a problem-- lack of exposure. Alumni, as well as the public, are not generally aware that a quality education is available at Rose in the sciences. Help us pass the word.



Dr. Oran Knudsen (left) makes a point during a meeting of the chemistry faculty. Members of the department are (left to right) Drs. Knudsen, Benjamin Benjaminov, Frank Guthrie, Dean Hill and Ted Sakano.

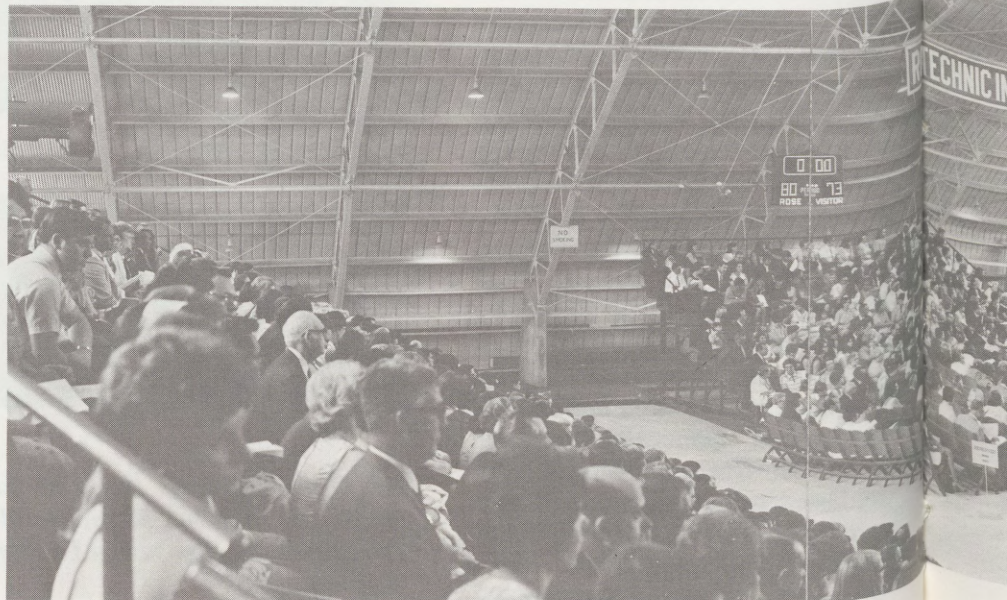
Commencement '70

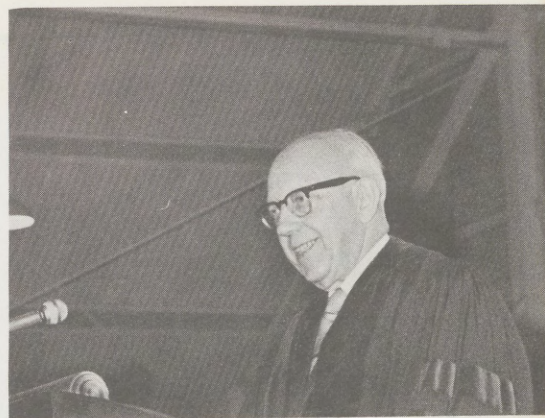


With Professor Paul B. Headdy serving as honorary marshal for the procession, more than two hundred men marched from the Main Building to Shook Memorial Fieldhouse to receive diplomas at Rose Polytechnic Institute's ninety-second Commencement exercises Saturday, June 13.

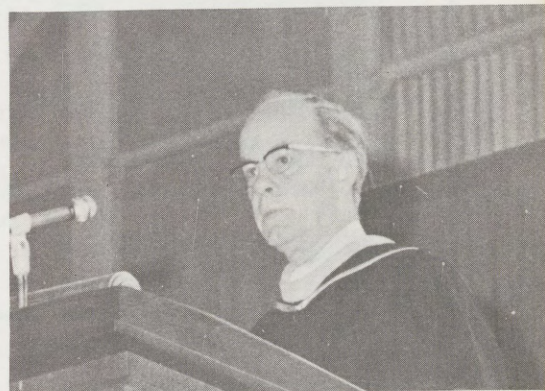
For most, the occasion was a milestone. But for four Rose men--Joseph A. Engelhard '22, Adam K. Grafe '25, Carl R. Wischmeyer and Prof. John L. Bloxsome (DePauw '27, Rose '70 LL. D.)-- the day will be the most memorable in a long and loyal association with the school. For they were awarded honorary doctor's degrees--highest honor of the Institute.

Dr. I. Lynd Esch, president of Indiana Central College, gave the Commencement address and received his fifth honorary degree, while Robert T. Mees '31 delivered the eighty-eighth alumni address and welcomed the latest 189 men as Rose alumni.

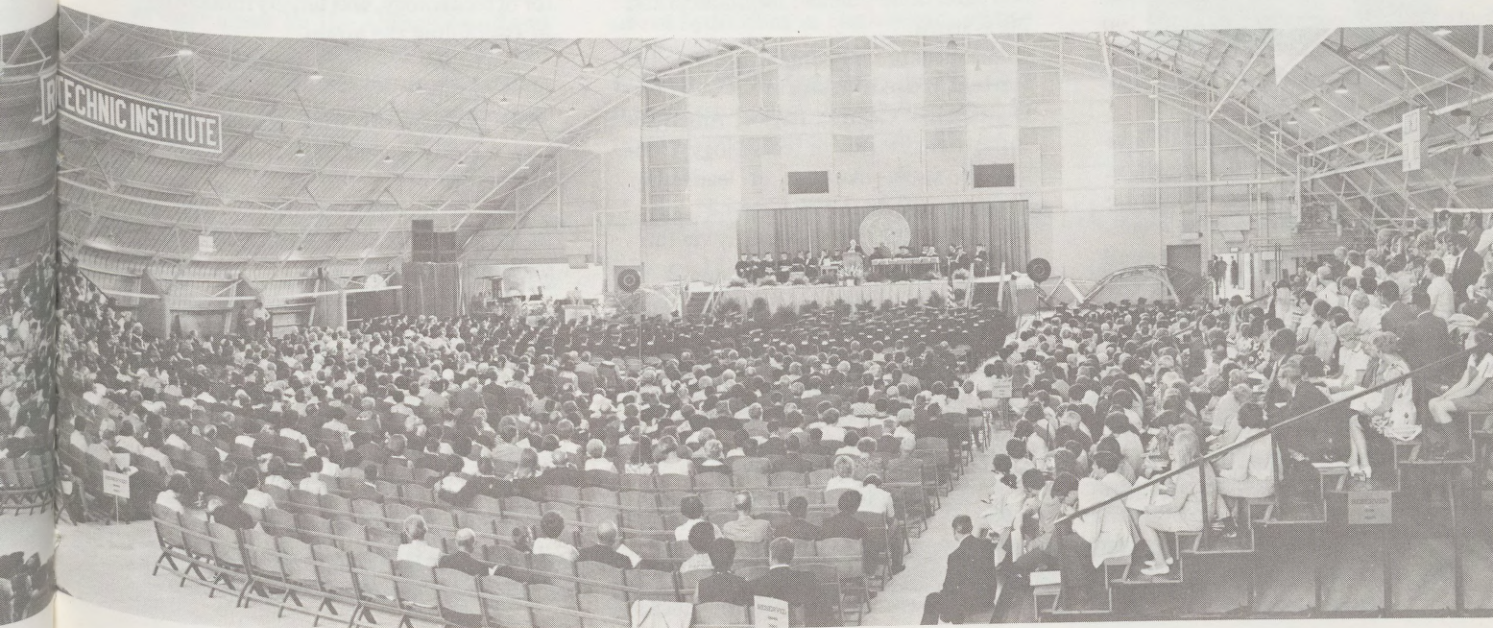




"All of life's freedoms and most of life's real joy lie beyond the duty line. They lie in the realm of things which we do more than is required of us."



"In your pursuit of success—over the years into your future—don't forget Rose."





MICHAEL G. SCHAEFER (April '49, M.E.) performs one of the more pleasant duties as president of the "500" Festival, that of escorting Festival Queen Ann Rachelle Bollei, Logansport, Ind. Schaefer, a partner in Mitchum-Schaefer, Inc., metal fabricators of Indianapolis, has served on the festival board of directors nine years.

John G. Appel Promoted To Rank of Major General

Army Brigadier General John G. Appel, a 1941 graduate of Rose in chemical engineering, was selected for promotion to major general on May 15.

General Appel is the director of plans, Office of the Deputy Chief of Staff for Logistics, Department of the Army, Washington, D.C.

Receiving his commission as a second lieutenant shortly after graduation from Rose, he served as a company and depot commander in the Chemical Warfare Service in Europe during World War II.

Upon his return to the states, General Appel attended the Army Command and General Staff College, Ft. Leavenworth, Kansas, and held several staff positions in his branch of the service. During the period 1954-57, he was stationed in the Panama Canal Zone where he was the chemical officer, U.S. Army Caribbean.

In November 1966, following his promotion to brigadier general, Gen. Appel assumed command of the Deseret Test Center, Ft. Douglas, Utah. He was reassigned from this joint command in June 1969 and returned to the Pentagon in his present assignment.

Gen. Appel holds two awards of the Legion of Merit and an award of the Army Commendation Medal.

The general is also a graduate of the Armed Forces Staff College, Norfolk, Virginia, and the Army War College, Carlisle Barracks, Pennsylvania.

The Appels make their home at 1608 Oakcrest Drive, Alexandria, Virginia.

Cleveland Company Names 2 Grads to 'Brain Council'

A young Cleveland, Ohio, company has stolen the march on some of the corporate giants. It has formed an advisory council comprised of nine top scientists and engineers—including Dr. Abe Silverstein ('29, M.E.) and J. Edward Taylor ('40, Ch.E.).

The group, which is expected to have a substantial impact on the growth of the two-year-old American Industries Corporation, Cleveland, will be identified as American Industries' Science and Technology Council. For openers, the "brain council" will make a technological forecast for the twenty-first century.

The advisory team is made up of experts in the fields of social and behavioral science, electronic systems, engineering and information, bio-medical

engineering, aerospace, urban and transportation science, environmental and agronomic science, mechanical and life systems.

Members of the council are Dr. Silverstein, retired director of NASA's Lewis Research Center; Taylor, American Industries director of technology; Donald W. Cole, manager of leadership development for TRW; Victor P. Kovacic, director of new technology ventures for Studebaker-Worthington; Harry W. Mergler and Simon Ostrach of Case-organ research, Cleveland Clinic Foundation; George W. Szego, president of Inter-Technology Corporation and senior consultant, Institute of Defense Analyses, and Richard Wynveen, president of Life Systems, Inc.

Taylor, who was director of product

development at TRW in Cleveland prior to joining American Industries as director of technology, was largely influential in assembling the group.

"All these men are scientists with good business instincts," Taylor said, "The cross fertilization of ideas from such a group should be of mutual value to everyone."

But why should a company with only \$9 million in annual sales want to assemble such a council?

"We want to grow," says president Richard L. Osborne, "The small company that falls behind in technology soon disappears. It either fails or is absorbed by others. In either way it loses its identity."

"We don't want that to happen to us."

Alumni in the News

R. T. 'Tim' Kelley Assumes Position As Vice President for Dart Industries

R.T. "Tim" Kelley, an April 1949 chemical engineering graduate and recently appointed life member of the Board of Managers of Rose, has taken a position as executive vice president, Specialty Chemicals, for Dart Industries, Inc., (formerly Rexall) in Los Angeles.

Kelley is responsible for the four companies that comprise the chemical division--Aztec Chemicals, Fiberfill, Pure-Chem and Wilson Products--in his new position, and since February has set some kind of record as a coast-to-coast "commuter."

Kelley, who previously had been with Standard Oil of New Jersey since 1950, last served as manager of the Plastics Division of Enjay Chemical Company in Summit, N.J.

Having joined Enjay in 1960 after ten years in various positions at the Humble Oil & Refining plant in Baton Rouge, La., he was named president of Extrudo Film Corporation, an affiliate of Enjay, in 1965. In 1968 he was named to the position he held at the time he left the Standard Oil subsidiary.

The Sullivan, Ind., native has long been active in Rose alumni affairs. He is immediate past president of the New York Rose Tech Club and has served as class agent for the Alumni Fund and worked with the national business and industry committee for fund raising.

His business address is 8480 Beverly Boulevard, Los Angeles. 90059.



R.T. "Tim" Kelley

Winters Advances At Caterpillar

Frank H. Winters, the Heminway Medal winner of the class of October 1943, has been appointed assistant director of engineering for Caterpillar Tractor Company's general offices in Peoria, Ill.

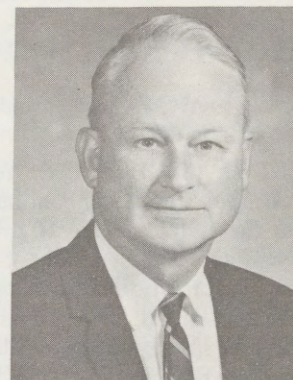
The appointment, effective in February, marked the third major promotion for Winters in the last four years. In 1966, he was named chief engineer for the Joliet, Ill., plant and two years later was moved to corporate headquarters on an assignment as results management coordinator.

Only recently his previous position took him to Prague, Czechoslovakia, where he participated on an international industrial seminar on "Management Development Practices." Winters' first-hand report of the meeting was published in the Caterpillar house organ.

Winters joined Caterpillar following his return from military service in 1946 and spent his first 13 years with the company in research work. His work in engineering has reflected the increased use of hydraulics in earthmoving equipment, the development of control systems for Caterpillar's power shift transmission, and the establishment of research programs on hydraulics.



Frank H. Winters



F.J. Bogardus

F. J. Bogardus Named Vice President at Tri-State

Dr. Frederick J. Bogardus, a 1932 graduate of Rose in mechanical engineering and dean of the faculties at Tri-State College since 1962, has been promoted to the position of vice president for academic affairs.

Dr. Bogardus will serve also as the dean of the School and Arts and Sciences and will have the deans of the Schools of Business and Engineering and other academic administrators reporting to him.

A native of Terre Haute, Dr. Bogardus earned the Master of Science in mechanical engineering from Yale University, and the Doctor of Philosophy degree from Purdue University in 1954.

Dr. Bogardus joined Scott Paper Company of Chester, Pa. in 1934 as a junior engineer and remained with that firm until 1947, except for the World War II years, advancing to the position of mechanical development

engineer.

Dr. Bogardus, who has been associated with higher education for the last 23 years, was a member of the faculty of Purdue University from 1947 to 1962, advancing to the rank of professor.

He is a registered professional engineer in Indiana and Pennsylvania, and is a member of the board of the Anthony Wayne Area Council, Boy Scouts of America, and the Angola chapter of Kiwanis International.

Class Notes

'15

EDWARD J. HEGARTY (E.E.) published his twenty-seventh book in March. Published by McGraw-Hill, *The Successful Speaker's Planning Guide* is based on his widely acclaimed *Speech Organizer* and offers different plans for presentations geared to different audiences: a general audience, employees, one's boss, a management committee. Hegarty has spent more than forty years in business with Westinghouse and other companies in the marketing area of electrical appliance business. His books have centered on salesmanship, public speaking and other topics, including *How to Succeed in Company Politics*, a popular study of executive politics, published by McGraw-Hill in 1964.

'22

ALBERT D. DUNLAP (C.E.) retired Jan. 30 after 48 years of continuous service to the Indiana State Highway Commission--the longest tenure of any employe since formation of the commission in 1919. Dunlap, who joined the department as a bridge designer following his graduation from Rose in 1922, last served the commission in the Plans and Specifications department. His current address is 4226 North Park Avenue, Indianapolis, Ind. 46206.

'24

WILLIAM H. WALTMAN (E.E.) has retired to Boulder, Colo., to "enjoy the climate and mountains and to get caught up on my fishing and photography." Waltman formerly was associated with the Shop Plants & Machinery department of the Chicago, Rock Island & Pacific Railroad, and until recently resided in Park Ridge, Ill. His current address is 565 Mohawk Drive, Apartment C 5, Boulder, Colo. 80303.

'28

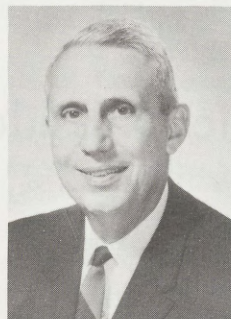
ROBERT A. THOMPSON (C.E.) has been appointed operations manager of the Eastern Construction Division of Dravo Corporation, Pittsburgh. Thompson, who joined Dravo in 1928, formerly was assistant operations manager of the Eastern Construction Division. A registered professional engineer in West Virginia, he is serving his second term as president of the Constructors Labor Council of West Virginia. His responsibilities in his new position include a variety of heavy construction of dams, bridges, tunnels and port facilities. Thompson's current address is 106 Debaren Lane, Rosemont, Pa. 10910.

'29

GALEN B. CLARK (E.E.) has moved from Pennsylvania and his hobby of raising pure-bred Black Angus cattle to Sarasota, Fla., "to enjoy warm Florida weather, fishing and golf." His current address is 6711 Lockwood Ridge Road, Sarasota, Fla. 33581.

'36

WARREN S. SENTMAN (M.E.) has been named manager of the Processed Corn Department of the Spencer Kellogg Division of Textron, Inc., in Kansas City, Mo. Sentman joined Spencer Kellogg in 1967 as a project engineer in Buffalo and moved to the Kansas City



facility as sales manager for the processed corn department in September, 1968. Prior to joining Textron, he was vice president and secretary of the Miner-Hillard Milling Company in Wilkes-Barre, Pa.

'37

CLYDE E. CROMWELL (M.E.) has been promoted to assistant to the vice president and general manager of the



Turbine Division of DeLaval Turbine, Inc., Trenton, N.J. His current duties include coordination of the various departments of the turbine division, rela-

tions with other divisions of the company and long-range planning. Cromwell joined DeLaval as a sales engineering trainee in 1937 and has held various field sales and sales management posts. Since 1966 he has been General Sales Manager of the Turbine Division.

'38

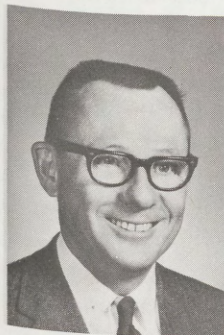
ROBERT W. DISPENNETT (Ch. E.) manager of consumer durable goods sales, Aluminum Company of America, Pittsburgh, has been elected chairman of the Consumer Durables Committee of the Aluminum Association, a group which develops standards and coordinates a number of programs in the interest of the industry. The committee he heads develops new markets for aluminum in the consumer goods and products field, and is one of twelve marketing groups of the association. Dispennett, who joined Alcoa in 1942 and has held various sales and operating positions in ensuing years, has held his current position since 1961.

'39

LUTHER L. YAEGER (Ch. E) president of SPORAD, Inc., of Houston, Tex., has been elected a Fellow of The American Institute of Chemists, a national organization whose principal purpose is to develop the professional and economic status of chemists and chemical engineers. He formerly was associated with Bjorksten Research Laboratories in Houston.

STANLEY R. CRAIG (M.E.) has been named Manager of Sales for the Components Division of the J.I. Case Company in Racine, Wis. Craig is responsible for marketing components manufactured by Case such as engines, hydraulic cylinders, etc., to customers. He is located at the Racine Clausen Plant. Craig, who most recently was applications manager for the Adel Division of DeLaval Turbine in Glendale, Calif., also has been associated with Bendix and International Telephone and Telegraph Corporations.

AVERY C. KELSALL (E.E.) has been elected to the board of directors of Commonwealth Associates, Inc., Jackson, Michigan.



Kelsall, who joined Commonwealth in 1967 as director of the Systems and Consulting Engineering division was elected vice president of

the Architectural and Engineering Systems group in 1968. Before joining Commonwealth, he was director of engineering for Girdler Corporation, Louisville, Ky., and prior to that was chief electrical engineer for Sanderson and Porter in New York City. A registered professional engineer in five states, Kelsall also has training in law through part time study at the Jefferson School of Law at the University of Louisville.

W.C. SOUDRIETTE (Ch. E., February) was appointed manager of the Corporate Planning Division of Cities Service Oil Company in Tulsa, Okla., effective April 1. Soudriette joined Cities Service as a process engineer at the East Chicago, Ind., refinery in 1947 and remained at the location until 1955 when he was transferred to Bartlesville, Okla., as assistant to the vice president of refining. A year later he returned to East Chicago as plant manager of the refinery. Soudriette was transferred to Tulsa in 1967 as manager-operations staff in the refining division, the position he held at the time of the April promotion.



Robert D. Strum '46 (center) chats with Professor Herman A. Moench '29 during a visit to the Rose campus in April. Looking on is John Ward, co-author with Strum on a number of widely accepted programmed instruction textbooks related to engineering education.

R. D. Strum ['46] Returns to Campus As Principal in Teaching Workshop

Robert D. Strum, a 1946 electrical engineering graduate who later taught the subject at Rose from 1950 to 1958, returned to the campus for a week and one-half in early April—this time to “teach” the faculty.

Strum and a fellow professor of electrical engineering at the Naval Postgraduate School, Monterey, California, were the principals in a two-weekend in-house workshop on educational technology conducted by Rose as a part of the institute's government-supported College Science Improvement Program (COSIP).

The workshop was one in a series aimed at exploring and experimenting with new approaches to engineering education to determine their value to individual faculty members and specific course offerings at Rose. Strum and John D. Ward presented their case to the faculty based on experience gained while working as a team on the development of universally accepted methods of programmed instruction in Laplace transforms (a special technique in teaching higher mathematics) and systems analysis.

Simply stated, Strum and Ward illu-

strated situations where programmed instruction was more effective than the standard lecture-recitation-- problems method of teaching. Effectiveness was underscored by test results and efficiency gained by each student progressing at his own rate of speed.

The pair, which has published a number of programmed instruction textbooks, including “On the Response of Linear Systems” and “State Variable Analysis,” also took up the use of television as an instructional book, the computer in education (computer assisted instruction, computer managed instruction, classroom and student support, etc.) and improved methods of laboratory instruction.

In a report on the workshop Strum indicated to Rose administrators that he was “favorably impressed with the faculty's participation in the program designed at providing better teaching at Rose.”

In closing, he said he hoped the (Rose) administration would recognize efforts on the part of the faculty to improve their teaching methodology—an area which has been neglected at the Naval Postgraduate School.

RICHARD C. ELLSWORTH (M.E., October) has been elected president of Tucker Manufacturing Corporation, a



wholly-owned subsidiary of Hamilton Cosco, Inc. Tucker Manufacturing is a leading producer of plastic house-

wares, with plants in Leonminster, Mass., and Arlington, Tex. Ellsworth joined Tucker as Director of Marketing in December, 1967, and was elected Executive Vice President in May, 1969. Prior to his affiliation with Tucker, he held several marketing positions as an employee of Cosco Household Products, Inc., and Cosco Business Furniture, Inc. He previously had been national sales manager, small appliances division, for Westinghouse Electric, Inc.

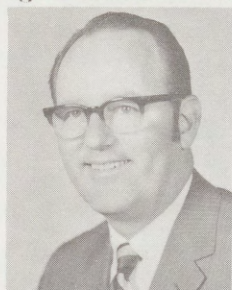
'46

THEODORE W. BLICKWEDEL (Ch.E.) has been transferred to the Waltham Research Center of General Telephone and Electronics Laboratories, Inc., in Concord, Mass., to organize a new group in electrochemical research. Blickwedel, who completed 20 years with the corporation last July, previously was associated with the Bay-side Research Center in New York from 1965 to 1969, and the General Engineering Department of Sylvania Electric (subsidiary of GT & E), Electronic Components Group, at Emporium, Pa., from 1949 to 1965. Blickwedel's new address is 120 Kennedy Lane, Concord, Mass. 01742.

'49

LT. COL. MAX DUGGINS (M.E., July) currently is assigned at Tan Son Nhut Air Force Base, Vietnam. Colonel Duggins is an air operations officer with a unit of the Pacific Air Forces, headquarters for air operations in Southeast Asia, the Far East and Pacific area. He previously served at Wright-Patterson AFB, Ohio. Commissioned in 1952 by direct appointment, he holds the aeronautical rating of command pilot and obtained master's degrees in aeronautical management and engineering from the University of Oklahoma and Rensselaer Polytechnic Institute, Troy, N.Y.

RALPH L. TRIMBLE (E.E., November) has been appointed resident manager of Marathon Petroleum of Ireland,



Lt., Dublin, Ireland. He is responsible for conducting drilling and other operational activities as well as coordinating explor-

ation throughout the Republic of Ireland. Upon graduation from Rose Trimble joined Marathon Oil Company as an electrical engineer and has held various positions in engineering and construction. Early in 1969, he was named Manager, Operations Department, Eastern Hemisphere division of International Production. He and his wife Roselee, reside in Dublin. Their son, Hugh, is a senior electrical engineer at Rose, and their daughter, Janet, is a freshman at Hanover College, Hanover, Ind.

JAMES W. SCHWIER (E.E., November) has been transferred from Jenn Air Corporation in Indianapolis to its wholly-owned subsidiary, Connor Engineering Corporation of Danbury, Conn., as a member of the board of directors and Director of Manufacturing for the corporation. He had been with Jenn Air Corporation for 13 years and was manager of manufacturing engineering at the time of his transfer last June. Connor Engineering is a manufacturer of air distribution equipment for commercial and industrial heating and air-conditioning systems and activated carbon filters for industrial air pollution control. The Schwiers have taken residence at 15 Grand Place, Newton, Conn. 06470.

Homecoming

'70

October 23-24

'53

HERBERT L. GATEWOOD (Ch.E.) recently has been made patent counsel for the Coated Abrasive and Tape divisions of the Norton Company. Gatewood, who earned his degree in law at George Washington University in 1964, formerly was a patent attorney for the Celanese Corporation in Charlotte, N.C. His current address is 12 Brookwood Drive, Elnora, N.Y. 12065.

'54

RONALD E. SMITH (Ch.E.) recently was promoted to the rank of commander in the U.S. Navy in ceremonies held at the Naval War College, Newport, Rhode Island. Commander Smith is a 1968 graduate of the School of Naval Command and Staff and was specifically selected to remain on the faculty of the school. He previously was assigned as an officer with the Patrol Force Seventh Fleet Staff in the Pacific. His current address is 70 Lisa Terrace, Portsmouth, R.I. 02871.

'55

ALBERT E. "ED" WHITNER (M.E.) has been named director of the Quality Assurance Department of the Naval Ammunition Depot, Crane, Ind. A veteran of nine years of federal service, he formerly was associated with the Weapons Production Engineering Center at Crane where he served as manager of the Product Development Division. Whitner, his wife, Donna and three children reside at R.R. 6, Bedford, Ind. 47421.

'56

P. CARTER SMITH (M.E.) has been named manufacturing manager for the Atlanta, Chicago, Pittsburgh and Los Angeles plants of Mead Packaging. Smith formerly was plant manager at Atlanta, a position he had held since 1967. He joined Mead Corporation upon graduation and a tour of duty with the U.S. Army Corps of Engineers and has served in various engineering and management positions at Chillicothe, Ohio, and South Lee, Mass., prior to moving to Atlanta. Smith's current address is 2507 King Arthur Circle, Northeast, Atlanta, Ga. 30329.

Rose Echoes Alumni Magazine

'60

DANIEL P. LaGATTA (C.E.) was awarded the Doctor of Philosophy degree from the Division of Engineering and Applied Physics of Harvard University in January. Dr. LaGatta has since received an appointment as a Research Fellow and currently is engaged in post-doctoral research at Harvard in the department of soil mechanics. Dr. LaGatta, his wife, Mary, and son reside at 349 Washington Street, Winchester, Mass. 01803.

'62

DR. CLYDE R. METZ (Chem) has been promoted to associate professor of chemistry at the Indiana-Purdue University campus at Indianapolis. Dr. Metz, who earned a Ph.D. in analytical chemistry at Indiana University in 1966, has been at the Indianapolis campus the last four years where he has been cited for a wide range of campus activities, including the development of the chemistry laboratory at the campus from conception to blueprint. He was associated with Mallickrodt Chemical Works and the Argonne National Laboratory prior to his appointment at I.U.-Purdue. He is listed in the 1967 edition of Outstanding Young Men of America and the 1970 edition of American Men of Science.

MORRIS CLEVERLY (C. E.) has been promoted to Engineering Manager for the New York State division of Mobil Oil Corporation. Morris reports that since his contact with The Echoes (an article in 1965 relating his experience in Malaysia with Mobil Oil) he has become a registered professional engineer in Pennsylvania and New York. He also reports contact with fellow Rose alumnus and Mobil manager George Wence '52, at his first managers meeting. Cleverly's current address is 27 Greenlawn Road, Paoli, Pa. 19301.

'63

LT. ROBERT N. COLTHARP (Chem) is serving in the U.S. Army and is stationed at the Manned Spacecraft Center, Houston, Tex. Coltharp, who completed his Ph.D. at the University of Florida last March, entered the Army in June of last year. Coltharp's current address is 1621 Rayburn Lane, Pearland, Tex. 77581.

THOMAS B. BROWN (M.E.) a marketing and management major in the Indiana University Graduate School of Business, is the recipient of the 1970 Dow Chemical Company's \$1,000 scholarship to the school. Brown, who will receive his M.B.A. degrees at I.U. in June, was an engineer with General Electric Company from 1963 to 1968.

LARRY A. ANDERSON (Ch.E.) has a research assistantship and is working toward a Ph.D. in chemical engineering at the University of Illinois. A registered professional engineer, Anderson was associated with the B.F. Goodrich Chemical Company and its Paducah, Ky., facility prior to entering graduate school. His current address is 2212 Broadmoor Avenue, Champaign, Ill. 61820.

ROBERT A. McKNIGHT (M.E.) recently received certification as a registered professional engineer. McKnight is in the Methods and Results division at the Perry-K plant of the Indianapolis Power and Light Company. He joined the utility in 1965, after working summers with the company during his college days. Since leaving Rose he has earned a M.S. degree in industrial administration from Purdue University. McKnight, his wife, Patricia, and two children reside at 230 South Ninth Street, Zionsville.

'64

EDWARD K. DOWNEY (C.E.) has been promoted to supervisor, Labor Relations, for the Packard Electric Division of General



Electric Division of General Motors in Warren, Ohio. Downey started as a foreman at the division in 1964 and after a two-year tour with the U.S. Army (1965-67) returned to Packard as an industrial engineer. He since has begun work for a law degree at Akron University and in 1969 was transferred to the labor relations department. His current address is 1446 Drexel Avenue, Warren, Ohio 44485.

'66

LT. THOMAS R. SPROUSE (C.E.) has been awarded silver wings as a U. S. Marine Corps pilot upon graduation from the U.S. Air Force pilot training school at Laredo Air Force Base, Texas. Following completion of the school, Lieutenant Sprouse was assigned to Cherry Point Marine Corps Air Station, in North Carolina for flying duty as an F-4J Phantom pilot. Prior to entering service, he was employed as an associate engineer for Humble Oil & Refining Company in Evansville, Ind.

LT. (j.g.) MAX E. JOSEPH (C.E.) currently is serving as a personnel officer for the U.S. Navy Reconnaissance Attack Squadron I at Albany, Ga. Lt. Joseph, who is a navigator for the RA-4C Vigilante when the Navy Reserve unit is on maneuvers, entered the Navy in 1966 and received his commission through Officer Candidate School. The Josephs reside at 340 North Riverside Circle, Albany, Ga. 31701.

GILBERT M. "GIB" BOSWORTH (M.E.) has been promoted to a position as sales engineer for the Industrial Sales Division of General Electric Company in Cincinnati, Ohio. Bosworth is assigned primarily to numerical control equipment for machine tools and control computers for industrial manufacturing applications. Prior to moving to Cincinnati, he worked in G.E.'s Drives Systems Division in Schenectady, N.Y. His current address is 11449 Islandale Drive, Cincinnati, Ohio. 45240.

BILL J. SIMS (E.E.) received a Master of Engineering degree from Pennsylvania State University in December. Prior to entering graduate school, Sims was employed by the General Electric Company, located at Louisville, Ky.

'67

RICHARD T. LAUBACH (E.E.) has taken a position with an engineering design and development group of National Cash Register Company in Cambridge, Ohio. Prior to the move in March, Laubach had been associated with Emerson Electric Company in St. Louis, and had completed approximately one-third of the work towards a master's degree in electrical engineering at the University of Missouri at Rolla.

GEORGE C. VASBINDER (E.E.) and Betty June Parks, Akron, Ohio, were married in the University of Illinois Lutheran Chapel on March 27. Vasbinder has been employed as an electrical engineer with the Magnavox Corporation plant in Urbana, Ill., since February, 1968. He also is attending the University of Illinois and expects to complete a master's degree in electrical engineering in 1971. Mrs. Vasbinder joined the Peace Corps upon graduation from high school and now is working at the University of Illinois where she is a student. The Vasbinders reside at 204 West Green Street, Savoy, Ill. 61874.

ROBERT H. BARNETT (M.E.) has accepted a position as a project engineer with P & W Engineers, Inc., in Chicago. P & W Engineers is an environmental and consulting engineering firm formed three years ago as a subsidiary of the Perkins and Will Partnership, a long-established Chicago-based architectural firm (Perkins and Will designed the union building and new dormitories at Rose). Barnett reports his current position is a training slot for a future marketing research position in the company. Prior to moving to the Chicago area, he was an industrial sales engineer for Columbia Gas of Ohio, Inc., in Toledo. While at Toledo, he worked toward an M.B.A. degree at Toledo University. His current address is 262 Churchill Place, Clarendon Hills, Ill. 60514.

'68

LT. GARWOOD L. VANA (Math) currently is stationed at Fort Ord, California, where he is assigned to an analysis branch of the Computer Division. He serves as chief of the analysis branch for the instrumentation support group for combat development, an experimentation command of the U.S. Army at Fort Ord. His address is 230 Buna Road, Fort Ord, Calif. 94941.

STEVE WHITESELL (ME.) currently is in the second phase of General Electric Company's Manufacturing Management Program and is assigned to the Neutron Devices Department of GE in St. Petersburg, Fla. Whitesell, who spent his first year with the company (June, 1968-June, 1969) at Schenectady, N.Y., will be transferred next month to his final location on the program, after which he will take a permanent position with General Electric.

THOMAS M. DUFF, JR. (E.E.) has taken a position with the Foxboro Company, Foxboro, Mass., and is training to be an instructor in the company's Digital Systems Training Department. Released from active duty with the U.S. Navy on March 5, he served as an instructor of mathematics and physics at the Aviation Ordnancemen School at Jacksonville, Fla., in his last Navy assignment. While at Jacksonville, he was awarded The William O. Florestadt Award for teaching excellence and won competition for "Schoolmaster of the Year." His current address is 10 Burroughs Road, Lexington, Mass. 02175.

ROLF P. HILL (M.E.) currently is serving with the U.S. Army at Ft. Ord, California. Drafted last September, he completed basic training at Ft. Benning, Georgia, prior to being given an assignment in accounting at the post stockade. Rolf and his wife, Jan, became the parents of a son, Robert Rolf, on Feb. 3, 1970. Prior to entering military service Hill was associated with McDonnell Douglas Aircraft Corporation in St. Louis as an associate design engineer on the DC-10 project.

STEPHEN P. MUELLER (M.E.) has been promoted to sales engineer in Mechanical Collector Sales for the Air Correction Division of Union Oil Pacific. Promoted Jan. 1, he had worked in the field of air pollution control at the Darien, Conn. facility since graduation. His current position will include sales work in the United States and abroad. Mueller's address is c/o Union Oil Pacific Air Correction, Tokeneke Road, Darien, Conn. 06820.

LARRY O'HAIR (C.E.) has accepted a position as superintendent in charge of construction with a custom home builder, Jimmy A. Casto & Associates, in the West Palm Beach, Fla., area. The O'Hairs moved from Indianapolis to Florida in October "for change in climate." His position encompasses supervision of construction of six to 10 custom built homes at one time. The O'Hairs' current address is Tudor Apartments, No. 13, 1505 Crescent Circle, Lake Park, Fla. 33403.

*Change of Address?
Send It to Rose*

'69

PVT. THOMAS M. DAVEY (Chem) has been assigned as a chemist with the Research Laboratories of the U.S. Army Edgewood Arsenal in Maryland. Entering the Army last November, he completed basic training at Ft. Leonard Wood, Missouri. Prior to entering service, Davey served as plant chemist for the Lone Star Cement Company at Greencastle, Ind.

2ND LT. TERRANCE MULDOON (Ch.E.) recently completed a 16-week helicopter pilot course at the Army Primary Helicopter School, Ft. Wolters, Texas. Upon completion of the course, he was transferred to advanced flight training school at the Army Aviation School, Ft. Rucker, Ala. Having entered on active duty last July, he received his commission through the Reserve Officers' Training Corps at Rose. Correspondence to Lt. Muldoon may be addressed Box 76, Beverley Shores, Ind. 46301.

LT. MORRIS BELKNAP (Math-Econ) currently is serving a two-year tour of duty with the U.S. Army in Germany. Lt. Belknap, who entered the Army last June, completed the missile maintenance officer course at Redstone Arsenal, Alabama, in February, and after a one-month leave reported to the overseas assignment where he will be working with the Hawk Missile System. Mail may be directed to APO New York. 09082.

DOUGLAS ROOF (E.E.) has been transferred from Nashville, Tenn., to Roanoke, Va., and an assignment at General Electric Company's Industry Control Department there. Having joined G.E. upon graduation, Roof will spend approximately one year at the Roanoke facility as a part of the training in the company's Technical Marketing Program which will groom him for a position in the Industrial Sales Division of General Electric. A Blanket Award winner as an outstanding senior athlete a year ago, Roof still has one accolade to pick up at Rose--the Adirondack Batting Trophy. The honor citing Roof for a .350 plus batting average over a four-year collegiate career arrived after his departure from the school. Roof's current address is Apartment 5B, 4132 Avenham Extn., S.W., Roanoke, Va. 24014.

LT. KENNETH CULP (M.E.) has received orders for a one-year tour of duty in Vietnam. Lt. Culp, who is scheduled to arrive in Vietnam June 15, entered the U.S. Army last June as a second lieutenant (R.O.T.C. at Rose). He completed an Ordnance Corps basic officer's course and advanced training at Aberdeen Proving Ground, Maryland, after which he was assigned to the Yuma Proving Ground, Arizona, as an automotive project engineer. Following his graduation from Rose Lt. Culp spent one year as an experimental engineer at the Delco-Remy division of General Motors in Anderson, Ind. Casual mail may be sent to 914 North Strode Street, Independence, Mo. 64050.

PAUL J. NOWAK (M.E.), an aerospace engineer at the Kennedy Space Center, Florida, was engaged in the ground operations for the historic Apollo mission April 11. Nowak, who has been with NASA since his graduation in 1968, also worked with Apollo 11 and 12 lunar landings. Nowak now resides at 325 Coral Drive, Cape Canaveral, Fla. 33304.

LT. HENRY KEAHEY (Ch. E) currently is assigned as an instructor in the Nuclear, Biological and Chemical Division of the U.S. Army School at Fort Belvoir, Virginia. Having entered the service shortly after graduation, he received his commission through the Army R.O.T.C. program at Rose and completed the Engineer Officer Basic Course at Fort Belvoir in November. His current address is 7212 Richmond Highway, Room 70, Alexandria, Va. 22306.

STEPHEN R. SMITH (M.E.) has accepted a position as assistant project engineer for bearing applications with the Bantam Bearings Division of the Torrington Company (a division of Ingersoll Rand Corporation) in South Bend. Smith's current address is 2002 Inglewood Place, South Bend, Ind. 46616.

2ND LT. ALAN L. HEATH (M.E.) currently is assigned to the U.S. Army ammunition officers school at Redstone Arsenal, Huntsville, Ala. In mid-July he will be reassigned to Fort Riley, Kansas. Heath entered the service in March after assignments with Texas Gas at Monroe, La., and Owensboro, Ky. Mail may be directed to R.R. 1, Jamestown, Ind. 46147.

Wanted: 'Lost' Rose Men

Keeping up a mailing list on "men on the move" is not an easy task. If you know the whereabouts or, in fact, anyone who might know the address of any of the following "lost" alumni, please contact the Alumni Office at Rose with the information. The alumni directory is scheduled to be published over the summer and we want it to be as complete as possible.

04 WILLIAM H RANDALL	JN 47 WILLIAM P WOOLSEY	58 RICHARD J KREMER
06 FRANK A DELLE	SP 47 LOUIS W FELLWOCK	58 JACK R NIEMI
06 JOHN M JOHNSON	DC 47 FAUSTO D BOGRAN	58 JAY S STEVENS
07 EARL G ALBIN	DC 47 ROBERT H BRIGGS	58 GILBERT D KOVENER
07 ERWIN J MINER	DC 47 MARVIN B KOONTZ	59 DONALD A DUCK
07 JAMES H NICHOLS	DC 47 RONALD E LARSON	59 LYMAN C HITCHCOCK
07 ALONZO D SCHOFIELD	MR 48 JOHN J BISCH	59 RICHARD A REEVES
08 FLOYD W CORSON	OC 48 ALBERT W BUESCHER	59 WILLIAM L KUNZ
08 PAUL B HAMILTON	OC 48 WILLIS I HUDSON	60 WILLIAM T BRUMMETT
08 SAMUEL E MITCHELL	OC 48 JAMES W LEONARD	60 JOHN F EDGINGTON
08 JOHN F ROBBINS	OC 48 ORVILLE L STONE	60 RICHARD R SLATER JR
14 GEORGE O KLINGMAN	OC 48 KENNETH WISE	61 WILBUR L DECKER
14 JOHN T SCOTT	JA 49 WARD L NEWGENT	61 MEADORT HILL JR
15 ERNEST B PLOTT	JA 49 JOHN W NORWALK	61 ROBERT A MCCARDLE
16 JOHN F O BRIEN	AP 49 ROBERT E BRETTLE	62 LAWRENCE G SHABI
19 ARTHUR L ERVIN	AP 49 J WILLIAM KEPLER	62 MICHAEL D SPRAGUE
19 ADOLPH A GEIGER	AP 49 JACK SNYDER	63 MARVIN E BARKES
21 JOSEPH T FERRELL	AP 49 LYLE A WEISS	63 WILLIAM W BARONE
24 LESLIE E GARRETT	JL 49 MAX DUGGINS	63 GREGORY L BOLT
24 EDGAR A WILSON	NV 49 WILLARD K HAM	63 RICHARD A CORDILL
25 MICHIO SATO	NV 49 MAURICE D HUNT	63 DALE A FRENCH
26 R H AITKEN	NV 49 CHARLES E MCMORRIS	63 MAX W LUNSFORD
27 ERNEST O JOHNSON	NV 49 DANIEL V METZGER	63 DONALD J PIERCE
27 ROBERT K SATO	NV 49 A DONALD STOLZY	63 ZAFARULLAH
27 WILBUR L WILSON	FB 50 HAROLD B FORSYTHE	64 JAMES L HAYMUREST
28 OTHEL S CALHOON	FB 50 RAY C GILMORE	65 JAMES A BULLARD
28 MORRIS C WESLEY	AG 50 JACK S MARSHALL	65 CLARENCE E DELPORTE
29 CLARENCE L MUNTZ	51 EUGENE H MCDONALD	65 MICHA GAZIT
30 PAUL H BAKER	52 THOMAS W ALBRIGHT	65 RAY WARD
30 ROYER A BLAIR	52 CARL H BALS	65 THOMAS T YOSHIDA
31 EMIL J EARL	52 WAYNE M BARKER	65 LAWRENCE R LEMON
31 TOM D IRVINE	52 ROBERT J SKIDMORE	66 RICHARD F BONELLI JR
34 RUFUS DANNER	52 CARL R VAUGHN JR	66 RELLO L CRISTEA JR
34 ROBERT C LARSH	53 KENNETH G BRINSON	66 JAMES J HSU
34 MARSHALL C POWELL	53 WILLIAM C CHAMBERS	66 PAUL F KUEBER
35 EZEKIEL A HAMILTON	53 HOWARD M DAVIS JR	66 BAHMAN MAHMOODI
38 THOMAS G REED	53 EDWARD J EMMER	66 WILFRED S OTAGURO
38 ANDREW C REYNOLDS JR	54 WILLIAM B LAMB	66 MICHAEL G PRATHER
40 EMIL G CHRISTIANSEN	56 HENRY H CASE	66 VIRGIL L ROBERTS
41 JOHN E TRACY	56 PAUL C ELLIOTT	66 EARL T SUTTER II
42 JACK K KENNEDY	56 JERRY R FROMHOLTZ	66 NGUYEN TRIEN
FB 43 ANTONIO BOGRAN	56 CHARLES F HARTLEY JR	67 HARRY D BLAKER
OC 43 JAMES F ARMACOST	56 ARTHUR W MASON	67 JAMES L LEAVER
JL 44 LEROY S MILLER	56 HERBERT F NORTON	67 MICHAEL R MCGEE
JL 44 WILLIAM S MITCHELL	56 JACK R TAYLOR	67 GOHLAMA SEMSARZADEH
JL 44 F DAYLE PRICE	57 JAMES E CALABRO	67 SAHAT THONGJEN
JN 47 FRANK M BEELER	57 THEO J SOLMUNDSON	67 WILLIAM S ATARAS
JN 47 LYNDON E EBERLY JR	57 LAWRENCE D THOMAS	68 R TOERKI WITTOELAR
JN 47 ANTHONY P TUCCARONE	58 OLIVER I CASE	69 DUCK-ON-KIM

In Memoriam

Lt. Kenneth Rogers, Commander of ROTC Brigade in 1968, dies in Vietnam

U.S. Army First Lieutenant KENNETH F. ROGERS ('68 E.E.), commander of the Rose ROTC brigade and class president his senior year, was one of nine officers who died with an American general in a helicopter crash in South Vietnam May 5.

The Defense Department said the helicopter was hit by enemy ground fire and crashed in the Central Highlands of South Vietnam, 10 miles southwest of Pleiku.

Lieutenant Rogers, Liaison officer with the 937th Engineering Group, en-

tered service November 3, 1968, and was overseas eight months--the last few weeks as personal aid to Major General A.B. Dillard, commander of the U.S. Army Engineer Command in Vietnam, one of those killed in the crash.

Lieutenant Rogers, who went with General Electric following graduation, was a member of Alpha Tau Omega fraternity, Blue Key, I.E.E.E., Student Government, Glee Club and Rose Rifles.

Military services and burial were May 23 in his hometown, Mt. Healthy, Ohio.

'03

ALBERT A. "JIM" KRIEGER (C.E.), retired civil engineer for Arrasmith, Judd, Rapp & Associates of Louisville, died February 17 in Louisville. While most of his career was spent as a consulting engineer, he was city engineer for the City of Louisville from 1927 to 1933.

'05

RAY G. JENCKES (E.E.), died April 27, 1970 in Indianapolis. Prior to his retirement, he was chief engineer for the Indianapolis Water Company.

WALTER E. JOHNSON (E.E.), died March 5 in Cleveland, Ohio. Prior to his retirement, he was engaged in the paint business, primarily in Emporia, Kansas.

'06

JOHN M. ROTZ, SR., (C.E.), vice president of J.M. Rotz Engineering Company, Indianapolis, died February 15 in Scottsdale, Arizona. Following seven years of engineering and construction experience in the railroad industry, he founded the firm which bears his name in 1913 and continued as an officer until his death.

'07

RUSSELL S. SAGE (E.E.), died January 25 at Albany, New York. Mr. Sage spent his entire career as an electrical engineer for General Electric Company in Schenectady, retiring with 43 years service in 1950.

'11

ERNEST C. BRADFORD (E.E.) died January 19 in Baltimore. Prior to his retirement, he was vice president and general manager of John D. Lucas Printing Company, Baltimore.

'12

Belated word has been received of the death of W.P. CHILDS (X) B.S. '16, on July 4, 1969. Prior to his retirement he was a sales engineer for the family owned Childs Machinery Company, Avondale Estates, Georgia.

JOHN M. LAWLER (C.E.) died March 26 in New Philadelphia, Ohio. A retired engineer with the Ohio Highway Department (1961), Lawler was associated part time with W.E. Quicksall and Associates of New Philadelphia from 1962 until his retirement in 1968.

CARL J. KRIEGER (Ch.E.) died November 28, 1969, in East Orange, New Jersey. Prior to his retirement, he was associated with the National Board of Fire Underwriters in New York City.

WALTER E. RANKIN (M.E.) died March 15 in Kettering, Ohio. Retired since 1951, he formerly was sales engineer and a partner of the Southmayd-Rankin Company of Dayton, Ohio.

'15

EDWARD D. BRAUNS (Ch.E.) died April 8 in Swarthmore, Pennsylvania. Prior to his retirement, he was associated with Duriron Company as a sales engineer.

HUGH E. WALLACE SR. (C.E.) died January 24 in Terre Haute. For many years he operated Acme Coal and Lime Company in Terre Haute, last serving as secretary-treasurer of the family-owned business.

'16

J. LUTHER PIRTLE (E.E.) died March 23 in Riverside, California. Mr. Pirtle spent his career in electrical engineering work, having retired in 1955 as chief, electrical branch, of First Army. He remained active after retirement as a fruit grower at Fallbrook, California.

'28

LT. COL. MORRIS GUGGENHEIM (Ch.E.) died January 1 in Frederick, Maryland. Having retired in 1968 after 37 years of federal service, he last served as an administrator for Plans and Readiness Operations, at Fort Detrich, Maryland.

'31

HILLARD D. GEHRES (C.E. & Arch.) died November 22, 1969 in Circleville, Ohio. Having joined the Tennessee Valley Authority in 1935, he had been supervisor of the TUA river control and procedures development branch at Circleville since 1954.

'32

ROBERT G. LAATZ (M.E.) died March 11 in Balboa, Panama, Canal Zone. He had been in the Canal Zone for more than 30 years, having most recently served as district engineer for the Pacific District Maintenance Division of the Panama Canal Company.

'46

ROBERT W. LEATHERS (M. E.) died July 25, 1969, in Pittsburgh. At the time of his death he was a sales engineer with the United Engineering and Foundry Company in Pittsburgh.

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