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TERRE HAUTE, INDIANA

Vol. 4, No. 1

July, 1964

William A. Carter Elected President Of Parents' Group

Mr. William A. Carter of Gary, Ind., who served as the first communications chairman of the Rose Parents' Association when it was organized three years ago, was elected president for 1964-65 at the annual meeting May 9. He is service chief at the Republic Steel Corporation.

Mr. and Mrs. Carter's older son, William, graduated from Rose in 1961 and is now associated with the Inland Steel Company. Their younger son, Bryan, was a freshman at Rose during the past year.

Mr. Carter succeeded Mr. Howard D. Wood of Indianapolis, whose son, Duane, graduated this June from Rose.

Other officers who will serve with Mr. Carter are Mrs. Richard James, Seelyville, Ind., first vice president; Mr. Joseph M. Cull, Bloomington, Ind., second vice president; Mr. Delmer P. Huppert, Indianapolis, activities committee chairman; Mrs. Gilbert M. Bosworth, Terre

(Continued on page two)

ENGINEERING PROFESSION FACES GREAT CHALLENGES, GRADUATES TOLD

The exploding economy of our country, the stature of our nation, and "the very survival of our free institutions in a world in turmoil" are the three great pressures on the engineering profession today, Dr. Paul H. Robbins, executive director of the National Society of Professional Engineers from Washington, D. C., told the 81 members of the graduating class at the 86th Commencement exercises on June 6.

He received the honorary Doctor of Engineering degree from the Institute in recognition of his contribution to engineering education.

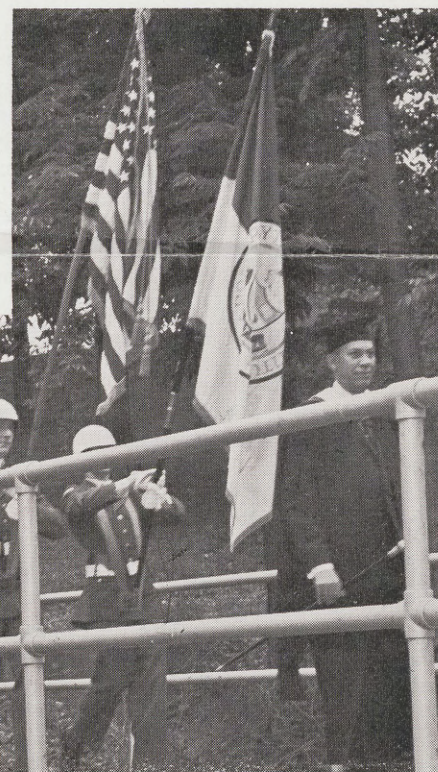
"The need for more jobs, the war on poverty, the requirements for more housing, more roads, more refrigerators, more automobiles, more pure water, more communications, all present challenges to engineering," Dr. Robbins continued.

"No longer is a nation's posture measured by the numbers of men it can muster," he declared, "but instead by

the amount of technical brainpower at its command."

As to our "free institutions in a world of turmoil," he emphasized that "it is this pressure to which we as a profession are giving too little concern."

In his alumni address to the class, Russell E. Archer, Sr., of Terre Haute, president of the Alumni Association, urged the graduates to assume their civic responsibilities because, as graduates of Rose, they were "especially well equipped to lead in civic affairs."



The Academic Procession marches to the Wilbur B. Shook Memorial Field House for Commencement ceremonies. (Photo by Carter)

Student Research Projects Underway

A National Science Foundation grant of \$9,800 is enabling four Rose students to work on research projects during this summer and the coming academic year under the direction of Dr. Charles C. Rogers of the Electrical Engineering Department who is also Director of Graduate Studies at the Institute.

Stanley W. Henson, senior from Spencer, Ind., is working on an electronic flood forecasting device which, in a matter of seconds, could predict accurately flood conditions in advance as well as determine the best possible locations for reservoirs. Mr. Henson's project will attempt to include some "non linear" mathematical terms in the equations which govern the operation of the device and thereby improve the accuracy of the forecasting.

Research by Alfred J. Mayle, senior from Northridge, Calif., is concerned with designing and constructing an "autocorrelator" which has the capability to extract signals from noise, leaving only a clear signal with no noise as a result. Such devices are now being used in a few instances to extract the intelligence of the electrical signals of the human body. Present research may lead very possibly to the conclusion that some of the electrical voltages or signals in the body are much more indicative of an individual's health than is his temperature or blood pressure.

Jim L. Brown, Farmersburg, Ind., senior, has designed and is now testing a tunable band pass filter. This, when attached to an electronic stethoscope, will enable the physician to clearly separate the fetal heartbeat of the unborn infant from the mother's heartbeat which is much stronger. If it were possible to hear the fetal heartbeat in its earliest stages, complications in an unborn infant could possibly be discovered and corrective measures taken before it was too late.

Gerrand L. Mellinger of Terre Haute, who graduated this June, is attempting to duplicate the experiment of Dr. Marcel Bessis of the Centre National De Transfusion Sanguine in Paris, France. Dr. Bessis used successfully a laser beam, a very powerful light beam, to selectively kill portions of a cell without damaging other portions, thus effectively achieving a microsurgical tool which can operate in a space of only millionths of an inch. If he is successful, Mr. Mellinger will then attempt to devise new applications for the laser's use as such a tool.

Three more students will be selected in September to join the group.

From the President of the Rose Parents' Association

Being a Rose graduate has always been quite a distinction. I am sure it will always be that way.

Now that Rose is expanding more boys will have the opportunity to become Rose men and enjoy the distinction that has been built over the years.

Rose parents must have a part in this expansion. We must make sure the high standards of education are maintained and improved where possible; assist the school administration with its problems; recruit boys we want our boys to grow up with; develop a direct and interested attitude toward Rose.

With these thoughts in mind the Rose Parents' Association can do much to help Rose through the many problems brought on by an expansion program.

William A. Carter, President
Rose Parents' Association

68% Will Hold Doctorates

With the return this Fall of two Rose faculty members who have been on leave to complete their doctorates, new faculty, and completion of the degree by other faculty members, 68 per cent of the teaching staff will hold doctorates.

According to Dr. Charles C. Rogers, three years ago only ten per cent of the faculty held doctorates.

The two returning faculty members are Dr. Benjamin S. Benjaminov of the Chemistry Department who completed his work at the Weizmann Institute at Rehovoth, Israel, and Dr. Kenneth Carr, Electrical Engineering, who has been at the University of Illinois.

Dr. Dennis Sapp, Civil Engineering, also completed his work at the University of Illinois this Spring. Professor Warren W. Bowden, Chemical Engineering, is continuing his doctoral studies at Purdue University.

PARENTS' ELECTION

(Continued from page one)

Haute, co-chairman.

Also, Edward J. Wodicka, Jr., Terre Haute, communications chairman; Eli J. Gesell, Decatur, Ill., co-chairman; Dr. Robert O. Lancet, Terre Haute, development chairman, and Edwin J. Jirousek, Cleveland, Ohio, co-chairman.

Plan Cooperative Doctorate Program

A cooperative program for students wishing to obtain a doctorate in science or engineering has been established by Rose Polytechnic Institute and Washington University, St. Louis, Mo.

The announcement was made jointly by Dr. Logan and Dr. George E. Pake, Provost of Washington University, following several months of extensive planning by both institutions.

In their statement the administrators pointed out that this program provides the opportunity for outstanding graduate students to complete the work for the master's degree at Rose as well as a portion of the work for the doctorate.

Engineering students enroll in the Sever Institute of Technology of Washington University and receive the Doctor of Science degree. Science students enroll in the Graduate School of Arts and Sciences of the University and receive the Doctor of Philosophy degree. These doctorates are awarded by Washington University.

Dr. Charles C. Rogers, Director of Graduate Studies at Rose who will administer the program, said that applications are now being received for admission to the program.

Officers of the Rose Parents' Association

President William A. Carter
327 North Jasper Street, Gary, Ind.
First Vice President

Mrs. Richard M. James
Box 237, Seelyville, Ind.

Second Vice President Joseph M. Cull
3508 Longview Avenue,
Bloomington, Ind.

Recruitment Committee

Chairman Raymond W. Beattys
3113 Houston Boulevard,
Louisville, Ky.

Activities Committee

Chairman Delmer P. Huppert
1545 Windermire Street,
Indianapolis

Co-Chairman

Mrs. Gilbert M. Bosworth
1400 South 21st Street, Terre Haute
Communications Committee

Chairman Edward J. Wodicka, Jr.
217 Arcadia Drive, Terre Haute

Co-Chairman Eli J. Gesell
366 South Linden, Decatur, Ill.

Development Committee

Chairman Dr. Robert O. Lancet
20 Nitche Drive, Terre Haute

Co-Chairman Edwin J. Jirousek
13718 Southview, Cleveland, Ohio

ROSE BUDS

Elections of class officers and officers for other student organizations have been announced for the coming year. Although all returns were not complete at press time, the following class officers have been elected:

Senior Class: **JOHN DIEFENBAUGH**, Terre Haute, president; **ANDREW J. SZILAGYI, JR.**, Cleveland, Ohio, vice president; **PHILIP H. HALT**, St. Louis, Mo., secretary-treasurer.

Junior Class: **JOHN P. HOWLETT**, Normal, Ill., president; **WILFRED S. OTAGURO**, Honolulu, Hawaii, vice president; **LARRY D. HALSTEAD**, Lynn, Ind., secretary-treasurer.

Sophomore Class: **BARRY E. RAFF**, Indianapolis, president.

* * *

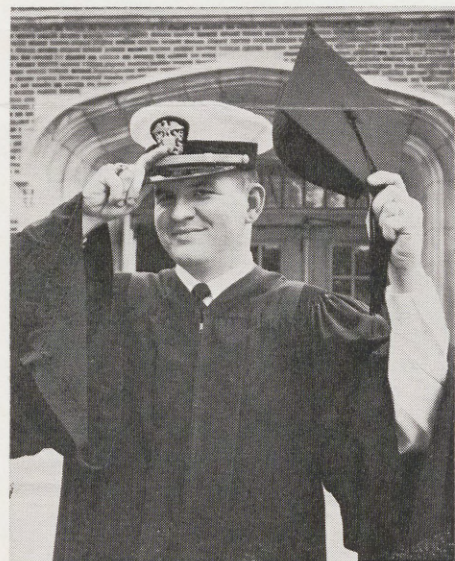
The Campus Club is being replaced by the Interdormitory Council whose officers will be chosen next Fall. Each dormitory will have its own government, and Deming Hall has formed its organization. **RON ESSERMAN**, Chesterton, Ind., is chairman and **LARRY HALSTEAD** treasurer of the group.

* * *

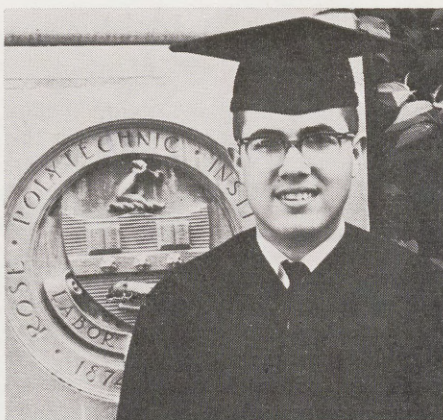
Tau Beta Pi: **ALLEN STANLEY**, Rockville, Ind., president; **STEPHEN JAMES**, Seelyville, Ind., vice president; **THOMAS EVANS**, Lansing, Ill., treasurer; **JAMES KUZMANOVICH**, recording secretary; **JAMES FEARDAY**, corresponding secretary; **R. TOBY KING**, Birmingham, Mich., cataloger.

* * *

Blue Key Honor Fraternity: **JOSEPH GRIFFIN**, Speedway, Ind., president; **JOHN DIEFENBAUGH**, vice president; **DAVID Y. RICE, JR.**, secretary-treasurer.



Patrick C. Hauert, Kankakee, Ill., tries his Naval officer's cap. He is the first Rose senior to receive a commission in the Naval Reserve upon graduation. (Photo by Martin)



David A. Rennels, Terre Haute, received the prized Heminway Gold Medal for the highest scholastic average for the four years. He majored in Electrical Engineering. (Photo by Martin)

urer; **JAMES HOWENSTINE**, corresponding secretary; **DAVID M. HALL**, Richmond, Ind., alumni director; **JIM BROWN**, Farmersburg, Ind., publicity director.

(Ed. Note: Space does not permit listing of officers of all the other student organizations.)

* * *

JOHN ROHR made a complete 12" Stereo L-P recording of the Rose Glee Club on tour this Spring. Cost of the record is \$3.00 per copy, according to Terry Schultz, Glee Club president, and includes a printed pasteboard cover similar to any commercial recording. A quantity of recordings will be ordered above the number of orders received and these will be made available without previous order and at no extra cost.

Five National Merit Scholars In New Freshman Class

Five National Merit Scholarship holders from the 63 students awarded this scholarship throughout the state are members of the class of 250 freshmen who will enter Rose this Fall.

According to figures from Prof. Paul B. Headdy, Director of Admissions and Placement, 13 members of the class were finalists in the National Merit Competition and 20 students received a letter of commendation in the competition. The average Rose freshman ranked in the upper 15 per cent of his high school class.

One of the five Merit Scholarship holders declined this award, however, and is coming to Rose on another type of scholarship. Prof. Ralph M. Ross, Dean of Students, pointed out that 84 students, or 32 per cent of the Rose freshman class, hold various scholarships totaling \$45,250. Another \$36,000 has been allocated for loans to freshmen.

Remodeling Will Improve Facilities; Grants Received

Remodeling of the interior of the classroom and administration building began the latter part of June, following approval of the plans presented by Miss Juliet A. Peddle, Terre Haute architect, at the June meeting of the Board of Managers.

Work in progress will provide a new lecture room seating 150 students; a study room equipped with study carrels (individual study "cells"); a seminar room and a new laboratory space, all of which will be air conditioned.

An elevator is being installed in the area to provide easier handling of equipment to the various floors of the building.

Three grants totaling \$43,260 from the Undergraduate Scientific Equipment Program of the National Science Foundation have been allocated to Rose. These grants, to be matched by the Institute, will be used to provide needed facilities and equipment in the departments of Electrical Engineering, Chemical Engineering, and Chemistry for undergraduate experimentation and research.

Assistant Professor Henry H. Winton will direct the grant for the Electrical Engineering Department for work in automatic control systems.

Dr. J. Nelson Reeds, head of the Chemical Engineering Department, will direct research and experimentation on mass transfer, and Dr. Frank A. Guthrie, of the Chemistry Department, will direct work in analytical, physical, organic and general chemistry.

Circle the Date! Save the Days!

Two-day orientation program for freshman parents has been scheduled for September 13 and 14, according to the announcement from Prof. Ralph M. Ross, Dean of Students. The Rose Parents' Association officers and committee chairmen, in cooperation with members of the Rose administration staff, are working out the details of the program. They will meet on August 8 and at the same time will discuss plans for the organization for the coming year. Parents will receive later this summer complete details about the orientation program.

Richard Martin New Football, Assistant Basketball Coach

Richard Martin, for three years head football coach at Olathe High School, Olathe, Kan., has been appointed football coach at Rose. Martin, who is no relation to Dick Martin, coach at Wiley High School in Terre Haute, will have responsibility also for track and will be assistant basketball coach.

Now taking graduate work at Indiana University where he expects to complete the degree of Director of Physical Education this summer, Martin received the Bachelor of Arts degree in 1955 from Ottawa State University, Kan., and the Master of Arts degree from Colorado State College, Greeley, in 1959.

His combined football record at Olathe (a suburb of Kansas City) and at Yates Center High School, Kan., where he was head football coach for four years, is 43 wins, 11 losses and three ties. His teams have never finished less than second place in any conference in which they have competed and he has had four all-state performers and one high school all-American. He and Mrs. Martin have two sons.

A new portable basketball floor with cross courts and six new rollaway baskets will be provided in the fieldhouse, as well as new portable "telescopic" bleachers to be placed next to the permanent bleachers. These new facilities will allow two intramural basketball games at the same time. The entire interior of the fieldhouse will be painted and receive a general "face lifting." Plans include two new tennis courts to be built west of the present outdoor courts on the campus.

New Faculty Includes Pulitzer Prize Winner

Appointment of Dr. Carleton Mabey, Pulitzer prize winner in 1948 for his biography of Samuel F. B. Morse, as Professor of History and Chairman of the Department of Humanities and Social Studies has been announced.

Also joining this department in the Fall will be Dr. William F. Young, Dr. Lewis A. Richards, and Dr. M. C. Ballenger. Plans are underway for a very much enriched and broadened curriculum in the department.

Dr. John W. Rhee and Dr. K. H. Ruei will join the Physics Department as assistant professors and Dr. Laurence J. Sacks will be assistant professor in the Chemistry Department.

Mr. Harold A. Sabbagh will be assistant professor in the Electrical Engineering Department and expects to complete his doctorate this summer at Purdue University, Lafayette, Ind.

Maj. Charles R. Livingston, graduate of the Electrical Engineering Department at Georgia Institute of Technology in 1950, will join the Military Department in August after a tour of duty in Viet Nam where he was assigned last July. He attended language classes at the Presidio, Monterey, Calif., for the study of Vietnamese before going overseas. His home is in Augusta, Ga.

For the second consecutive year, Rose led all other engineering colleges, both public and private, in the percentage of alumni contributing to the Alumni Fund, according to the report just issued by the American Alumni Council for 1962-63.

Many '64 Rose Graduates Receive Fellowships

An unusually high percentage of Rose graduates this June will be attending graduate schools throughout the country, and many of the students have received fellowships and assistantships.

Professor Paul B. Headdy said that 25 per cent of the class will begin graduate work this Summer or Fall. Of particular note is the fact that John Rohr of Hinsdale, Ill., who received the Bachelor of Science degree both in Electrical Engineering and Mathematics this June, was one of ten college graduates throughout the nation who received a Tau Beta Pi graduate fellowship for the coming year. He is a Tau Beta Pi-Honeywell Fellow No. 14 and will do his work in computer technology at the University of Illinois.

In many cases, Professor Headdy said, other graduates this June who took positions with industry will continue with part time graduate study either on their own or as a fringe benefit from their respective companies.

Average starting salary overall was more than \$612.00 a month, approximately \$25.00 more than last year, with fringe benefits frequently in addition.

During the 1963-64 academic year, "top flight giants" in business and industry, or 148 companies, sent representatives to Rose for a total of 567 interviews averaging seven per senior. These companies are located on the East and West coasts and in the industrial and business centers of the Middle West.

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