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ECHOES

Rose-Hulman Institute of Technology



Fall-Winter 1973-74

ECHOES

ALUMNI MAGAZINE

Fall-Winter 1973-74 Vol. XII, No. 3

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Richard L. Brown '59

Senior Orientation

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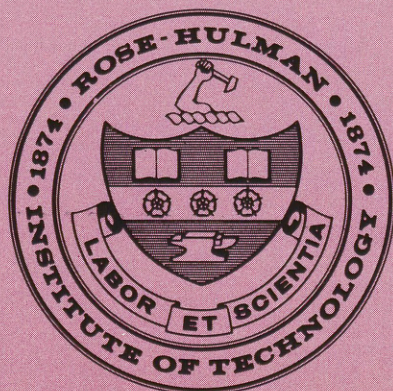
1970 to Annual Meeting 1974

John T. Newlin '43

1972 to Annual Meeting 1976

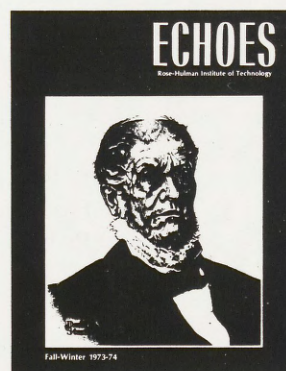
W. Kent Harris

Editor



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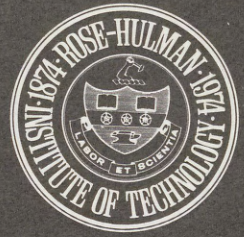


The Cover

The cover of this magazine honors Chauncey Rose, founder of Rose-Hulman Institute of Technology. It was executed by young Terre Haute artist David Stamper through the medium of charcoal.

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The Centennial Year



... Look Back, Look Ahead and Celebrate

Hulman, Hazzard Receive Doctorates During Centennial Kickoff Convocation

The celebration of a centennial is both an opportunity and a challenge for a college. During this period we look back on historical roots, recognize accomplishments, evaluate the current role in higher education and the engineering profession, and more importantly, examine in detail the role of the future.

Since its founding in 1874 Rose-Hulman Institute of Technology, formerly Rose Polytechnic Institute and before that The Terre Haute School of Industrial Science has been a "rare jewel" among colleges and universities. And through the years "Dear Old Rose" has become known more as a family than a mere institution.

It was in this "family tradition" that the Centennial Celebration was officially kicked off Saturday, January 26 with the Opening Convocation--an academic convocation and banquet which featured principal addresses by John L. Bloxsome and President John A. Logan.

Another highlight was the awarding of honorary doctor's degrees to 20th Century benefactor Anton Hulman, Jr., and Dr. George W. Hazzard, president of Worcester Polytechnic Institute, Worcester, Massachusetts--the college founder Chauncey Rose chose to pattern his "dream school of the West."

Dr. Bloxsome (Bill Bloxsome to those in the Rose family) drew on his 45-year association as teacher, department chairman, vice president and chief fund-raiser and more recently as author of the centennial history in speaking on the history of the college. With his charm and wit, he captured a full house in the auditorium while tracing the history of Rose back to the Connecticut boyhood home of the founder.

He masterfully described the events--principally the need for engineers in the new West--which led to the

founding of Rose-Hulman and outlined the accomplishments of the various administrations, thus setting the stage for the awarding of honorary degrees to Tony Hulman and the president of Worcester.

As Dr. Bloxsome pointed out, the tie between the Hulman family and the college dates to the luring of the first president, Dr. Charles O. Thompson, from the presidency of Worcester to Terre Haute. To offset loss of a lucrative consulting practice, Herman Hulman joined members of the original Board of Managers in supplying a \$10,000 bonus to Dr. Thompson.

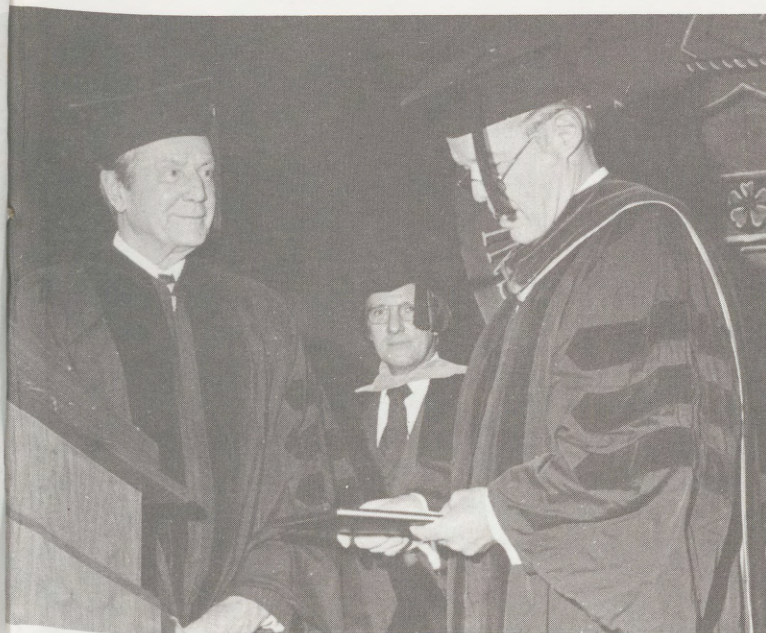
Later, in 1917, the Hulman family donated the 123-acre present site of the campus to the Institute, allowing it to move from its former downtown location at Thirteenth and Locust streets.

Shortly after his college days as an All-America end on the Yale University football team, Tony Hulman served in a part time position as freshman coach and assistant to "Heze" Clark during the mid-1920s.

He came on the Board of Managers in 1946 and since has been instrumental in every capital drive undertaken. The Hulman family's support of the Institute was capped by the donation of the assets of the family foundation in 1970--at which time the board voted to change the name of the college, thus joining the names of the chief 19th and 20th century benefactors on the banner and seal.

The conferring of the doctorate on Hulman was not his first, but if one can judge by the aura of humility and joy which lighted his face on stage, the Doctor of Laws from Rose-Hulman will be among the most cherished of his honors.

Prof. Alfred R. Schmidt, chairman of events for the year-long Centennial Celebration, presented Hulman for the doctorate.



Anton Hulman, Jr. (left) and Dr. George Hazzard receive honorary doctors degrees.

In the citation, he said:

"Mr. President, on behalf of the Board of Managers of Rose-Hulman Institute of Technology, I am privileged and honored to present to you Mr. Anton Hulman, Jr., for the degree of Doctor of Laws.

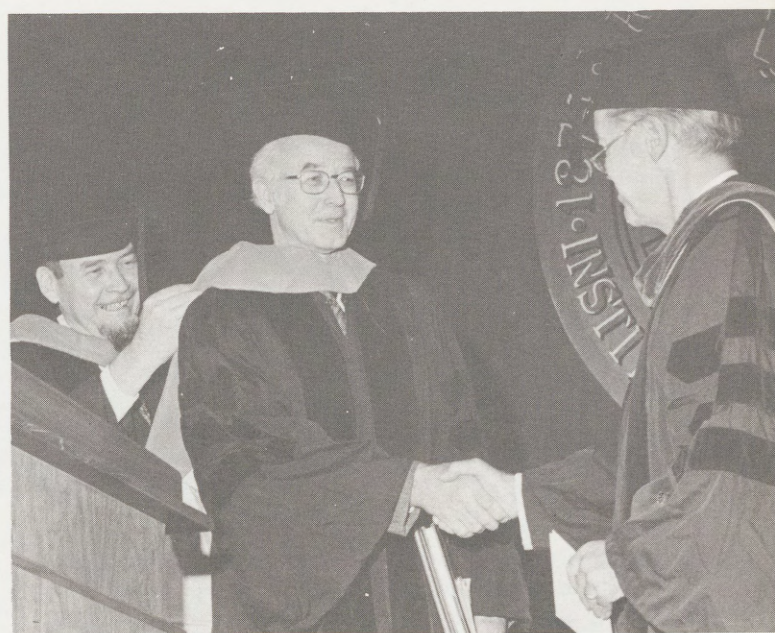
"A lifelong resident of Terre Haute, Mr. Hulman was graduated from Yale University with the degree of Bachelor of Science in Administrative Engineering in 1924. He returned to Terre Haute and entered the business founded by his grandfather in 1850. Under his guidance, Hulman and Company has become one of the Midwest's most diversified enterprises.

"Mr. Hulman's enthusiasm for sports led him to develop the Indianapolis Speedway "500" auto race into one of the world's great sporting events and the Speedway facility into a major test site for automotive improvements.

"He has continued the family tradition of service to the community and the State in addition to his business activities which have included public utilities, transportation, banking, and newspaper publishing among others. In community and state service, he has been active in state and local Chambers of Commerce and in the areas of conservation, education, medical facilities, art, local history and the Olympic Games; in the area of charitable activities, he has contributed both leadership and financial support to art, education, medicine and to every other community organization of merit.

"In recognition of his outstanding example of responsible citizenship, his influence on this community, this State and the nation, and of the long and valued association between the Hulman family and this Institute, the Board of Managers of Rose-Hulman Institute of Technology presents on this twenty-sixth day of January in our Centennial Year 1974, Mr. Anton Hulman, Jr. for the highest award the Institute may bestow, the degree of Doctor of Laws."

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The president of Worcester Polytechnic was presented by Dr. James B. Matthews, vice president for academic affairs and dean of the faculty.

The citation follows:

"Mr. President, on behalf of the Board of Managers of Rose-Hulman Institute of Technology, it is my privilege and pleasure to present to you Dr. George W. Hazzard, President of Worcester Polytechnic Institute, for the degree of Doctor of Engineering. This high honor is awarded him in recognition of his outstanding achievements as teacher, scholar, researcher, administrator, and author.

"Dr. Hazzard spent the early years of his career teaching mathematics and physics at St. Lawrence University where he earned the B.S. and M.S. degrees. In 1947, he was awarded the Ph.D. degree in experimental physics and physical chemistry from Cornell University. Following an eleven year association with the General Electric Research Laboratory, he returned to the field of higher education as associate provost and later vice chancellor for professional schools and research at Washington University. Dr. Hazzard is currently President of Worcester Polytechnic Institute, a position he assumed in 1969.

"During his outstanding career, he has been very active in professional and civic organizations, having served on numerous important committees and advisory groups. In 1968 he was honored as an outstanding alumnus of St. Lawrence University and in 1971 he was awarded the honorary degree of Doctor of Science by Union College.

"In recognition of his service and contribution to engineering education, the Board of Managers of Rose-Hulman Institute of Technology presents, on this twenty-sixth day of January in the year 1974, Dr. George W. Hazzard for the highest honor bestowed by the Institute, the degree of Doctor of Engineering."

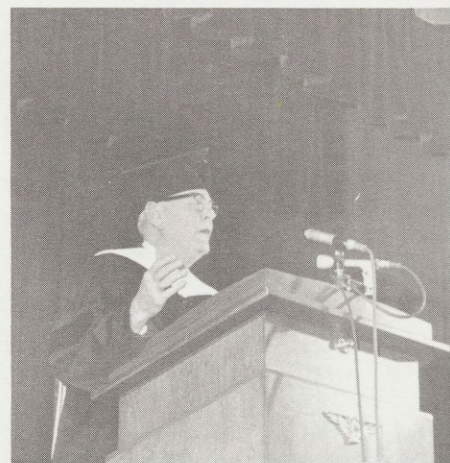
Bloxsome on History...

In his address Dr. Bloxsome described Chauncey Rose, his major enterprises, his philanthropy and the reasons for his founding of the Institute.

Drawing from his centennial history, *Rose: The First One Hundred Years*, he told the story of how Mr. Rose set out to seek his fortune in the West. As Bloxsome said, "Perhaps it will be better at this point to let him tell us in his own words about the factors which led him to choose Vigo County for his residence. . ."

"In the fall of 1817, I traversed the states of Indiana, Illinois, Missouri, Kentucky, Tennessee, and Alabama, looking for a location at which to reside and engage in business. I spent several days at Terre Haute; it had been laid out the previous year. The following winter I spent in Kentucky. Favorably impressed with the location and the people in and about Terre Haute, I returned and became a resident in April, 1818. There were but two cabins in Terre Haute, and the nearest boarding place was at Fort Harrison, where I boarded, as did the county officers, at a house kept by Mrs. Stewart . . . There were no direct roads. The trip east was made by way of Louisville, Baltimore, and Philadelphia. It was a source of great rejoicing when the first steamboat landed at Terre Haute in 1822. In 1819 I moved to Parke County and engaged in the business of milling. I sawed and furnished the lumber for the court house erected in the public square; and I returned to Terre Haute in 1825."

Prof. Bloxsome outlined in some detail Rose's mill at Roseville in Parke County, his defeat for sheriff of Parke County and subsequent move back to Terre Haute, his



Dr. John L. Bloxsome

. . . A great harvest

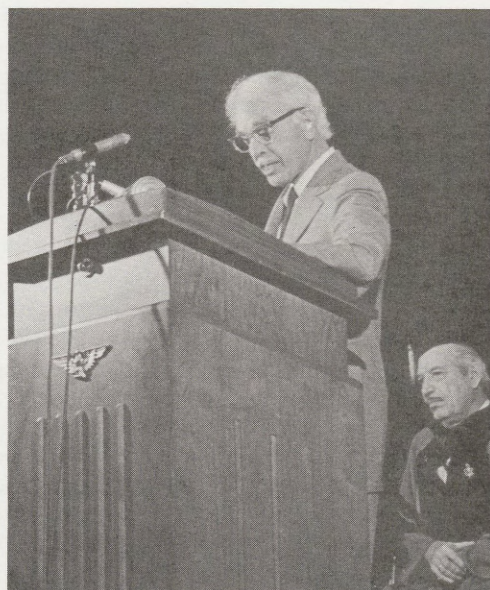
shrewd business skill financing his railroads, his foresight in building the Prairie House well outside the then edge of the town of Terre Haute (the present site of The Terre Haute House). He also described Chauncey Rose.

"What kind of person was Chauncey Rose?" questioned Bloxsome. "Mr. Rose was a resolute man. In all the enterprises in which he engaged he displayed this quality, and in consequence, generally achieved success in what he undertook. His strong will enabled him to influence others and to impress them with his opinions. This, too, increased his own earnestness and untiring activity in pursuit of the objects he desired to accomplish; for it is one of the inexplicable laws of the human mind that its own vigor and energy is increased in the same proportion as it imparts them to others.

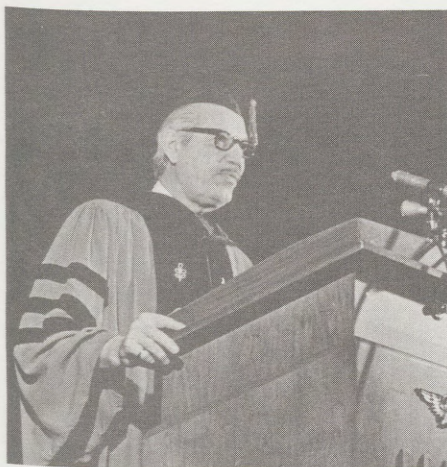
"He was not afraid to take hold of work himself, and it is said he was seen many a time at the corner by the Prairie



John Bloxsome wins hearts of standing room only kickoff convocation crowd.

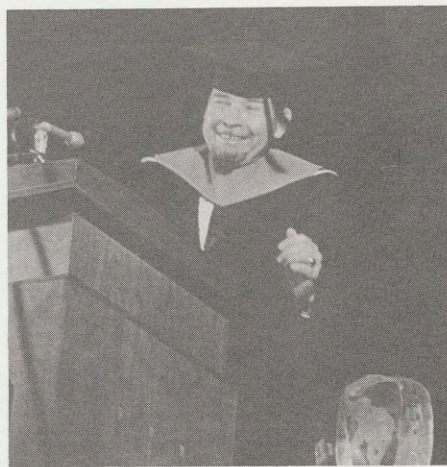


Fox Burns praises Prof. Bloxsome. Echoes



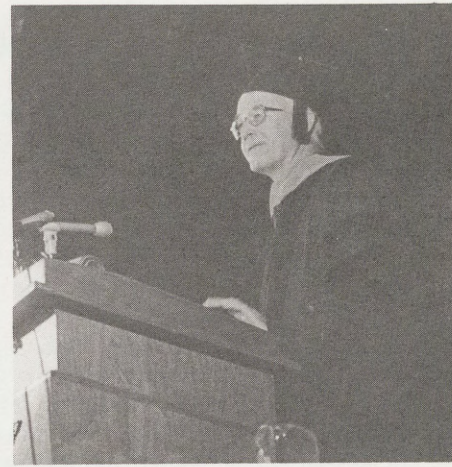
Dr. John A. Logan

... Awesome Challenges Ahead.



Dr. Herman Moench

... Reflects on 49 years.



Dr. George W. Hazzard

... Salute from Worcester.

House, then his hotel, with a hoe in his hand scraping the mud from the crossing. . . Chauncey Rose was a generous man, and many of his gifts were made during his lifetime. . . In 1872 Providence Hospital was dedicated in Terre Haute, and to this hospital he gave the land on which it was situated and \$30,000. . . To the Ladies Aid Society he gave \$100,000. . . To Wabash College he made generous gifts aggregating \$85,000. . . In his will he also provided for generous bequests to what later became the Rose dispensary which provided free medicine to indigent people. . . His will also provided for a gift of \$150,000 to establish an orphan's home. The money for this home could also be used for the support of aged females, aged males, and crippled persons. . . To Rose Polytechnic Institute he left a portrait of himself and the sum of \$107,594.34. The engineering school was also made the residuary legatee of his estate. In this connection it is a pleasure to note one of his noblest acts of charity. It was done so quietly that few knew it."

Dr. Bloxsome then moved to the reasons for founding an engineering college in Terre Haute.

"It has been said that while traveling back and forth over that part of the railroad between Terre Haute and Indianapolis supervising construction that the idea of an engineering college was born. Mr. Rose and his associates had great difficulty in getting men with technical training to come so far west at that time and remain until the road was completed. So great was the problem that Chauncey Rose decided there should be proper opportunities in the new west for the young men who wanted to study engineering."

Thus, he called some of Terre Haute's leaders (many of the parks and historical markers bear their names today) in the library of his residence and plans were made to send Charles R. Peddle, whom he had hired to superintend construction of his railroads, and William A. Jones, president of Indiana Normal to visit polytechnic schools of the East and make an elaborate report.

Mr. Rose also called on the counsel of Barnabus Hobbs, Quaker schoolmaster of Friends Academy at Bloomingdale (he later served as president of Earlham College and state superintendent of public instruction) for advice on

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establishing a school and selecting its faculty. A letter from Hobbs dated June 2, 1875, outlined what Hobbs thought were appropriate procedures--guide-lines which are as relevant today as they were nearly a century ago.

After careful study and counsel with trusted friends including Josephus Collett, Firmin Nippert, Charles R. Peddle, Barnabus Hobbs, William A. Jones, Demas Deming, Ray G. Jenckes, General Charles Cruft and Colonel William K. Edwards, the farseeing Chauncey Rose formed a corporation on September 10, 1874, and entrusted its administration to the incorporators under the title of managers.

The Main Building was begun the following year, but Chauncey Rose was not to see the school in operation. He died August 13, 1877 at the age of 83 years, and his trusted friends who sat on the board carried on the work he had started. And after considerable delay in settling his estate, Rose Polytechnic Institute opened its doors to 27 young men in March, 1883.

In conclusion Dr. Bloxsome said, "At the beginning of this history, it was pointed out that 'the heritage of the past is the seed that brings forth the harvest of the future.' We have a great harvest. But we must never forget the tremendous contributions that those in the past have made. The dream of Chauncey Rose has been fulfilled to a much greater extent than he could ever have foreseen."

The RoseTech Alumni Association recognized Dr. Bloxsome for his contribution to the college and his writing of the centennial history which has been distributed to each alumnus. On behalf of the alumni, Ruel Fox Burns '15 presented Dr. Bloxsome a handsome elephant etched in crystal in appreciation of his work.

A similar work was presented to Kent Harris, Director of Information Services, in recognition for his work with Dr. Bloxsome on the centennial history. Mrs. Lois Rutledge also was cited for her assistance to Dr. Bloxsome and preparation of the manuscript.

Dr. Hazzard gave the response to Dr. Bloxsome's address, reinforcing the historical ties between Worcester Polytechnic and Rose-Hulman.

Moench Reflects...

Dr. Herman A. Moench, senior vice president, made the closing remarks. Prof. Moench, like Prof. Bloxsome, drew on many years of dedicated service to the Institute.

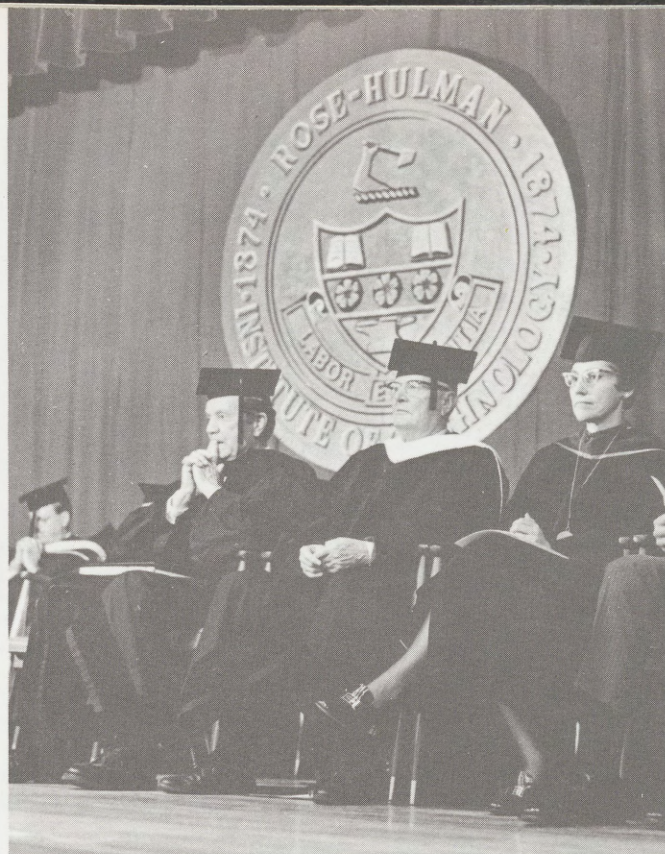
"You see, Bill, I can win in this matter about who has been at Rose longest. I came to Rose from Wiley High School as a very green freshman in 1925--long before Bill Bloxsome got out of DePauw. . ."

Prof. Moench then turned to the serious part and related the qualities which he feels makes the Institute unique--the student body, a dedicated faculty, a sense of purpose and what he describes as "a wholesome genuineness."

He also mentioned those teachers of distinction he had had the pleasure of knowing or working with over the years--Frank Casper Wagner, Carl Leo Mees, Robert McCormick, Clarence Knipmeyer, Carl Wischmeyer (the list, of course, continued).

And from his vantage point of nearly 50 years, he said, "But the best thing that has happened to Rose-Hulman Institute of Technology has been John Logan." Audience response was in overwhelming support.

In closing he asked the Lord to guide the Institute in its second century as He had in the first.



Drs. Hulman, Bloxsome, Knoerle.

Awesome Challenges in Future: Logan

Moving on to the Centennial Kickoff Banquet, Dr. John A. Logan, tenth president of Rose-Hulman and the man most responsible for the most exciting period in the college's rich history, turned his attention to the future of Rose-Hulman Institute of Technology.

"In my opinion, the problems to be faced and the challenges which lie ahead are far more awesome than any we have met in the past. They are essentially and inextricably involved with the future of technology and, accordingly, with the future of this great nation," said Dr. Logan.

"Never, in the history of the United States, has the importance of technology been so forcibly brought to our attention as in the present energy crisis.

"There is every indication that we are moving towards a similar crisis in connection with the world's mineral resources. World food production is not keeping pace with the population, and the world faces serious food shortages, if not famine, in years ahead."

Dr. Logan said he feels strongly that Rose-Hulman will be prepared to fulfill its educational mission. Although the Institute is not without problems, he is quick to point out that Rose-Hulman is progressing on schedule with the Centennial Development Program undertaken shortly after he assumed the presidency in 1962.

"The Institute has maintained and strengthened the loyalty of its alumni," he said, "and we continue to graduate the quality of engineer and scientist who will take their

rightful place with their predecessors in providing leadership in widely diverse fields.

"While recognizing the giants of the past, the Institute now has the strongest Board of Managers, the most outstanding faculty and the most competent administration in the school's history.

"We now have the ideal sized student body (1,000) from the point of view of quality of education, impact and economy."

As for Rose-Hulman's role in the future, Dr. Logan stated:

"What can a relatively small independent engineering school do to help assure that one hundred years from now, in 2,074, we can look back and say that R. H. I. T. has played its small, but important part in assuring the survival of the nation, and, in a larger sense, the planet earth? I am firmly convinced that it is in this broad context that Rose should lay its plans for the future."

Dr. Logan suggested that the Institute be among the leaders who aspire to the ideal that technology should not expend its total efforts in satisfying today's demand without taking into account tomorrow's consequences.

Secondly, the Rose-Hulman president emphasized that the school must rededicate itself to its objective of providing a "liberal education in science and engineering."

This, he says, will require continued strengthening of Rose's humanities and social sciences program, and increased cooperation between independent liberal arts

Echoes

schools such as DePauw, Wabash and St. Mary-of-the-Woods, as well as public institutions such as Indiana State University.

"For far too long the humanities have lived in an ivory tower of unreality; they are now going to have to provide practical direction as to the kind of world we want and the kind of society we need for survival. The liberal arts must, of necessity, work with engineers and scientists to assure our future well-being."

"Rose-Hulman must try, with every skill at its disposal, to reverse the rising costs of higher education. One of the most promising approaches to this is inter-institute cooperation and we are close enough to a number of fine schools, both public and independent, to make this an increasing reality.

"Rose-Hulman must build on and strengthen its programs in systems analysis and technology assessment. These powerful tools offer our best hope for truly meaningful solutions to the great social and technological problems which lie ahead.

"Rose-Hulman must continue to strengthen its belief in the breadth of its education. Small institutions offer unusual opportunities in this regard by making extra-curricular activities, such as debate, band, glee club, drama and chess, open to every student. Here again, cooperation with our sister institutions offer great promise, and in one particular area we can provide special leadership; a return to sanity in intercollegiate athletics - play for fun rather than play for pay. This is one reason why I personally am anxious that Rose-Hulman take advantage of an invitation to join the Collegiate Athletic Conference - a group of prestigious small colleges, with high academic standards, who have agreed to abandon, completely, the concept of athletic scholarships.

"Rose-Hulman must complete in its entirety the physical plant planned for its centennial plan, which includes a new Recreation Center and important campus improvements. These will not only fill long-needed basic necessities, but, with the completion of the new Hulman Municipal Golf Course, will give the Institute a special appeal for summer programs. During the second hundred years a Fine Arts Building and a Chapel will, undoubtedly, be needed.

"And above all, Rose-Hulman must continue to consolidate its position of pre-eminence in the field of undergraduate education of scientists and engineers. We must take a special pride in Rose-Hulman's reputation. We are unique. We are flexible - we can adjust rapidly to changing situations. We are independent. I believe that we of the Rose-Hulman family can look forward to the future with hope and with confidence."

Benjamin G. Cox, chairman of the Board of Managers, was master of ceremonies for the banquet. In addition to Dr. Logan's keynote address the more than 400 in attendance were entertained by Rose-Hulman's Glee Club. The evening was capped by the cutting of a huge "birthday cake" with 100 candles.

The opening convocation and banquet was, indeed, a perfect opening for the "year of the party."

Other events include:

The Rose Show--Saturday, April 6. Under the direction of Gary Moon, a senior from Granger, students will stage a revival of the Rose Show.

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Centennial Parents' Day--Saturday, April 27. Every spring sports team will be in action at home this weekend, as well as performances by the drama club, glee club, band and other organizations.

Greek Weekend also is scheduled for the same period, providing more concentrated activity than ever scheduled on the campus.

Centennial Commencement--Friday, May 24. Senior Ron Andrews of Terre Haute is chairman for commencement. Elliot Richardson, former United States attorney general, will be the commencement speaker.

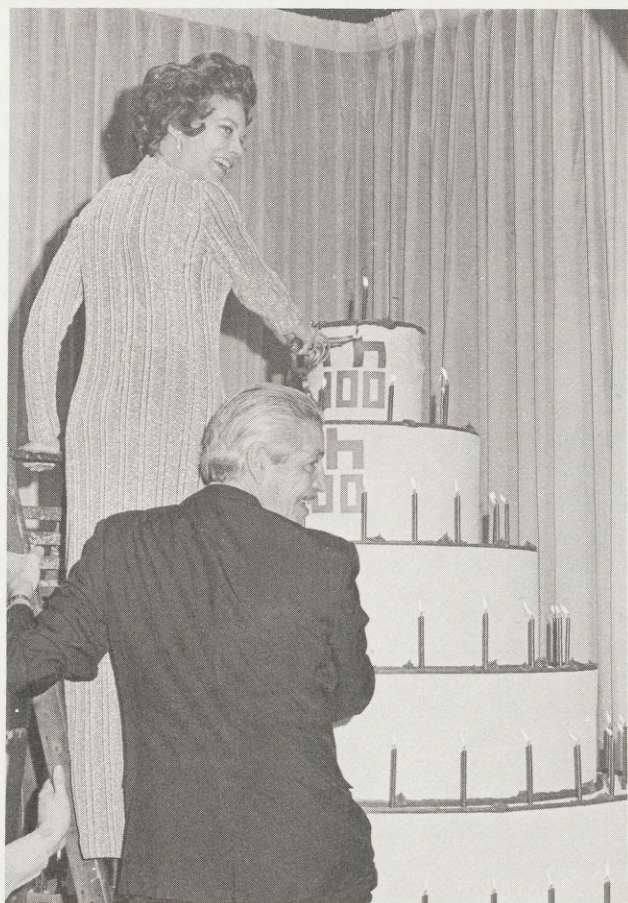
Hawaii Tour--Saturday to Saturday, June 1-15. Alumni, faculty, students and friends of the Institute are invited to participate in a two-week tour of Hawaii. Our Hawaii RoseTech Club has promised a special party.

Centennial Homecoming--Friday-Saturday, Oct. 18-19. The 'granddaddy of 'em all.'

Centennial Tournament--Friday-Saturday, Dec. 6-7. Rose-Hulman will play host to the University of the South, Kenyon and Wabash in a tournament which will pit the basketball teams, as well as teams in any sport or activity the schools can field a team--chess, billiards, mathematics, etc.

Convocation for the Future--Tuesday, Jan. 8, 1975. Centennial planners purposely avoided a "closing" convocation in favor of something more appropriate--a convocation for the future. At this time Rose-Hulman will look into its role in the future and honor alumni and others who have made outstanding contributions outside the fields of engineering and science.

Mrs. Logan cuts 100-candle cake.



Across the Campus

Students Hitting Books Harder Than Ever: Ross

"There has been more sense of purpose and study on this campus than I've seen in the last five years."

The subject was the overall "pulse" of the student body at Rose-Hulman and the speaker was one who should know--Ralph Ross, vice president and dean of student affairs.

Those who know Dean Ross will agree that he is not one to overstate his case, thus when Rose's 24-hour-a-day man says students are studying harder and going about their business in a happier frame of mind, it's close to being gospel.

The reasons, it appears, are fourfold: 1) a general return to what makes school keep on the broad, national scene; 2) a faculty at least as enthused as the student body; 3) some real success outside the classroom (the chess team, glee club, the football, cross country, and basketball teams, national honors to Rose-Hulman chapters of Alpha Tau Omega and Lambda Chi Alpha fraternities, a newly redecorated house for another--Phi Gamma Delta, the "rebirth of the *Modulus* primarily through the hustle of a "can do" staff comprised of mostly freshmen); and 4) a bit of nostalgia created by the Centennial Year and revival of the Rose Show, etc.

School opened in the fall with the smallest enrollment since 1969 (1,022). With graduation of a few men at the end of the fall and winter terms and the normal attrition for other reasons, enrollment will probably drop to around 950 before the year's end.

Duncan Murdoch, dean of admissions, reports that he and his staff have a record 600-plus applications for next fall's freshman class. However, while interest in engineer/science is on the upswing, the competition for the type of student who chooses Rose-Hulman is keen and the admissions chore will not be completed until the 350th man has made his intentions known.

Meanwhile, the faculty is engaged in some new and exciting developments in engineering education. Headed by Dr. A.T. Roper, professor and chairman of civil and mechanical engineering, Rose-Hulman is at the forefront in a new program in technology assessment at the undergraduate level. Members of the faculty in humanities and social sciences are similarly engaged in an innovative program entitled "The Immobile Years in a Mobile Society"--a program heralded for its effectiveness in articulating a problem which the engineer and humanist can cooperate.

Allude to Change

Board Invites Participation by Faculty, Students

The Board of Managers of Rose-Hulman approved the participation of students and faculty on two operating committees of the board and heard reports which ultimately will have influence on the college's direction and educational philosophy during the annual meeting conducted Homecoming weekend.

Board Chairman Benjamin G. Cox announced the official endorsement of the invitation of a student representative and a faculty representative on the Committee on Academic Affairs and the Committee on Student Affairs.

The chairman of each committee had high praise for the participation by Student Body President Clayton Black, a senior mechanical engineer from Eaton, Ohio, and Dr. Noel E. Moore, professor of chemical engineering and faculty secretary, during a trial meeting of their committees with representation outside the board.

The report of the Committee on Academic Affairs, the group with the charge of the continuing task of evaluating curricular programs, emphasized the need for evaluating programs in terms of their place in the national interest and the demands of industry-- the marketplace for the Rose-Hulman graduate.

Of primary importance was the board's stance that any new program would not increase the cost of education per student and should produce a marketable product without lowering the standards for admission or diluting the quality of education at Rose-Hulman.

Suggested programs include the establishment of a center for technology assessment and policy studies and the possibility of providing a means through which Rose-Hulman might join in the national problem of training more women for technical management positions. The latter, it is suggested, might best be achieved through cooperation with existing co-educational institutions.

Echoes



Twelve-inch "Winter Wonderland"-1973-74

Richardson New Physics-EE Head

Dr. Glen A. Richardson has assumed his duties as professor of electrical engineering and chairman of the division of physics and electrical engineering at Rose-Hulman.

Dr. Richardson, who formerly was chairman of electrical engineering at Worcester Polytechnic Institute, Worcester, Mass., was named to the position in September. His appointment was effective Jan. 1.

In announcing the appointment Rose-Hulman President John A. Logan noted Dr. Richardson's outstanding contributions to engineering education during his tenure of teaching at the University of Kansas, Iowa State College and Worcester Polytechnic.

A native of Kansas, he earned the B.S. and M.S. in electrical engineering from the University of Kansas in 1941 and 1947 respectively. He continued his studies at Iowa State College, earning a Ph.D. in electrical engineering there in 1952.

He was a member of the faculty of the University of Kansas from 1942 through 1947. He later taught at Iowa State, rising to associate professor. Dr. Richardson moved to Worcester Polytechnic as professor and chairman of electrical engineering in 1958.

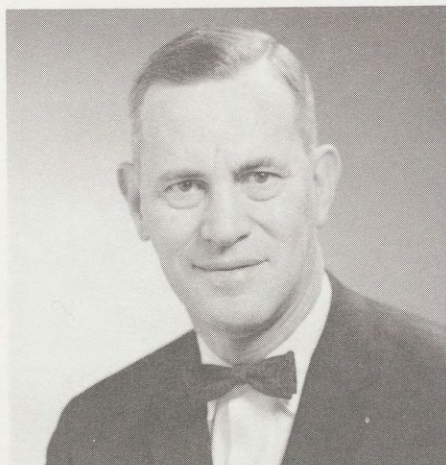
In addition to teaching and administration, Dr. Richardson conceived and directed a National Science Foundation summer institute for electrical engineering teaching for nine years beginning in 1962. This program was designed to update electrical engineering teachers from both the U.S. and foreign countries.

Long active in professional activities related to electrical engineering and education, he has held national elected offices in the Institute of Electrical and Electronics Engineers (IEEE) and the American Society for Engineering Education.

His association with ASEE dates to 1947 when he was chairman of the Kansas-Nebraska section. In 1963-64 he was national chairman of the electrical engineering division of ASEE.

From 1966 through 1968 he was vice president of ASEE, a member of the board of directors and the national

Fall-Winter 1973-74



Dr. Glen A. Richardson

organization of engineering educators and chairman of the ASEE's council of technical divisions and committees.

New Faculty

Rose-Hulman welcomed seven other teachers to the faculty and a number of adjunct professors this year.

Don L. Dekker returned to Rose-Hulman following completion of his Ph.D. in mechanical engineering at Stanford University. Don, who was graduated from Rose in 1961, earned an M.S. from the University of New Mexico in 1963 and taught mechanical engineering, was tennis coach, etc., at Rose from 1965 until his leave of absence for graduate school in 1969.

New to the faculty are:

Dennis A. Lewis, assistant professor of chemistry. A graduate of St. Peter's College in 1964, he earned a Ph.D. from the University of Connecticut in 1972 and served as a post-doctoral teaching assistant at Rose-Hulman during the 1972-73 academic year.

Evan H. Curtis, assistant professor of environmental engineering. Prof. Curtis earned his B.S. from the University of Arizona in 1964 and an M.S. in environmental engineering from Brigham Young University in 1966. He currently is a Ph.D. candidate in environmental engineering at Northwestern University and is doing the research for his doctorate at the U.S. Atomic Energy Commission's Oak Ridge, Tenn., facility.

Daniel L. Hogan, instructor of biological engineering. Prof. Hogan was graduated with a B.A. from Memphis State University in 1970. He earned a B.S. in electrical engineering from

Christian Brothers College the following year, and since has either been a graduate student or teaching assistant in the biological/electrical engineering field at Rose-Hulman and Ohio State University.

Patrick D. Brophy, assistant professor of psychology. Prof. Brophy joins the Rose-Hulman faculty after teaching experience in physiological psychology at Bradley University. He earned his B.S. and M.S. degrees from Bradley and recently completed a Ph.D. at Southern Illinois University.

Thomas J. Haigh, assistant professor of mathematics. Prof. Haigh, who formerly taught at Ohio University, earned his B.S. from Marquette University in 1965 and the M.S. and Ph.D. in mathematics at the University of Wisconsin in 1967 and 1971 respectively.

Col. Charles R. Supplee joined the faculty as professor of military science and commanding officer of the U.S. Army ROTC detachment of Rose-Hulman which oversees ROTC programs for the Institute and Indiana State University. A graduate of the United States Military Academy in 1946, Col. Supplee has had extensive service with the U.S. Army Corps of Engineers. He holds advanced degrees from Massachusetts Institute of Technology and Harvard University in 1952 and 1955 respectively.

Lance A. Wallace joined the faculty as assistant professor of physics in January. He earned a B.A. in English literature at the University of Washington in 1959 and later served as a science copywriter and editor for Dover Publications, Collier's, Cromwell-Collier & MacMillan through 1965 when he entered graduate school in physics. Having completed his Ph.D. at City University of New York, he formerly taught physics at Brooklyn and City College.

Earl M. Kleiser assumed the position of director of dormitories and Hulman Memorial Union. Kleiser holds both B.S. and M.S. degrees in student personnel from Indiana State University in 1971 and 1973 respectively.

Also joining the institute as social director was Mrs. Susan Robinson, wife of Rex D. Robinson '66 C.E. Mrs. Robinson holds a B.S. in English from Indiana State University.

Exploding a Myth

Institute Acquires Art for Library

In another bid to overcome what President John Logan describes as the mistaken impression that Rose-Hulman is interested only in computers and technical materials, the Institute recently received a number of works of art to be permanently displayed in the new Learning Resources Center.

Dr. and Mrs. Logan and members of the Fine Arts Commission formally accepted a work by sculptress Elisa Bialk Krautter of Chicago in November and in January announced the permanent loan of the 92-piece Kappa Kappa Kappa of Indiana collection of famous Indiana artists.

The works, which include sculpture and paintings in watercolor, oil and acrylic, as well as a montage, will be on view in the Learning Resources Center upon its completion in August. The acquisitions will be placed with consultation of the Arts Commission and the forward looking interior design firm which will incorporate what designers call the landscaping effect.

Mrs. Krautter, a well-known writer of childrens literature who recently turned to sculpture with marked success, donated *Reflections*, a five-foot bronze sculpture executed by the "lost wax" method. *Reflections* is an intricate arrangement of hoops within hoops, with alternating figures scaled to diminishing size.

The Tri Kappa collection was acquired largely through the efforts of the Arts Commission and state officers of the sorority including Mrs. C. Gordon Hayes of Terre Haute (Gordon is a 1949 alumnus of Rose-Hulman).

"The collection of famous Indiana artists is the only one of its kind and will handsomely complement our fine collection of 19th Century British watercolors," notes Dr. Logan.

The collection was started in 1929 and since that time Tri Kappa has purchased works of art from professional juried arts shows in Indiana. All artists are either Hoosier-born, Hoosier-trained or are residents of the state.

The proposal to give Rose-Hulman the collection on permanent loan was made by the Tri Kappa executive board earlier



Mrs. Krautter explains sculpture to Mrs. Hulman and Dr. Dyer.



Dr. Haslem, Tony Hulman and Prof. Moench "approve" library plans.



Members of Rose-Hulman's art commission and officers of Kappa Kappa Kappa of Indiana are shown during the presentation of the Tri Kappa collection to the Institute. On hand, left to right, are Dr. Calvin Dyer, chairman of humanities and social sciences, Mrs. Milo Mitchell, Mrs. Stanley Barkley and Mrs. G. Gordon Hayes, all of Tri Kappa; President Logan, Howard Wooden, director of Swope Art Gallery, and Dr. Betty Blumberg of the art commission.

this year. Overwhelming endorsement of the proposal came through a polling of each of the Tri Kappa chapters during the fall.

An outstanding antique cherry cabinet nine feet in height and four feet in width will soon be placed in Hulman Union to house the Lion Glass collection donated by Mrs. Chester Ballard. A formal presentation will be programmed to receive the glass collection at a later date.

The arts commission of Rose-Hulman is actively seeking art and antiques, especially works or articles which tie to the life or period of founder Chauncey

Rose during the centennial year. Persons who have suggestions for acquisitions are requested to contact the commission by calling or writing the office of the president.

Members of the arts commission are Fred M. Crapo '19 and Mrs. Crapo (adviser), Dr. Calvin R. Dyer, chairman of humanities and social science; Howard Wooden, director of Swope Art Gallery, Terre Haute; Mrs. Anton Hulman, Jr., Dr. Betty Blumberg, Mrs. Benjamin G. Cox, Mrs. Frank Sayers, and Mrs. John Haslem, and Mrs. Logan all of Terre Haute, and Mrs. Krautter of Chicago.

The Money Picture

During the Fall meeting of the Board of Managers, it was suggested that a report of the financial operations of the Institute be made available to each alumnus. The following report prepared by Robert T. Willets, vice president for financial affairs, covers the fiscal year ended August 31, 1973. Briefly stated, it shows the sources of income and the out-flow of cash commitments. The report reflects a "black budget" with "a small excess of income over expenditures."

The following material has been prepared in response to many requests for information concerning the financial operations of the Institute to be presented in a less cumbersome manner than the normally accepted accounting methods required in "fund accounting."

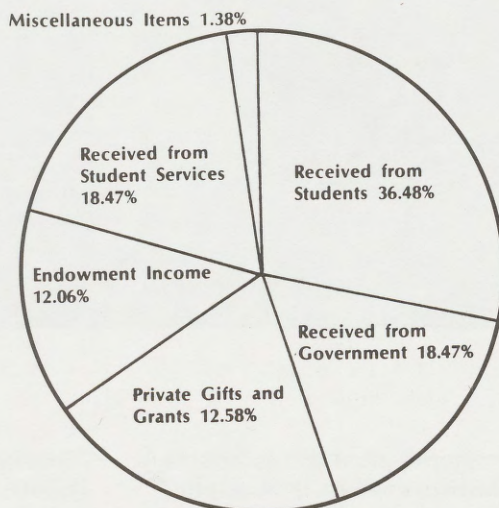
Rose-Hulman Institute of Technology maintains its books of account in accordance with the accepted principles established for colleges and universities. Its annual financial report is prepared, audited, and published in this manner. These reports are available on request.

The day-to-day financial operations of the Institute are governed by an operating budget prepared by the administration and approved by the Board of Managers at the February meeting preceding the fiscal year commencing

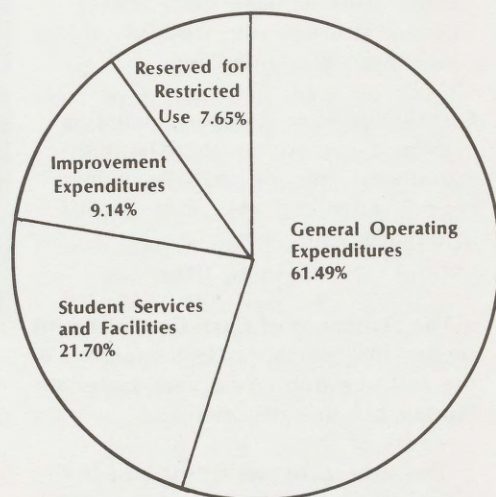
the following September. This budget consists generally of an estimated Statement of Income and a Statement of Planned Expenditures. For the fiscal year ended August 31, 1973 the Institute operated generally in accordance with its fiscal plans for the year. There was a small excess of income over expenditures.

These operations have been translated into two informal statements reflecting the actual sources of income and cash receipts, and the actual uses of income and cash commitments. These two statements are supplemented by "pie" charts showing the same information in a graphic manner.

SOURCES OF FUNDS



USES OF FUNDS



The **Statement of Cash Receipts** reports the "in-flow" of cash to the Institute during the year from the following six principal sources:

1. Amounts received from students, their parents and other sources not otherwise accounted for as income to the Institute. This amount is not equal to tuition.
2. Sums received from the State and Federal Governments for student aid, equipment and other purposes.
3. Funds received as gifts and grants from private sources for both restricted and unrestricted purposes. Gifts to the Centennial Fund are not included since this program is separate from the normal operations of the Institute.
4. Income derived from all endowments, including the general endowment, funds managed by others in the interests of the Institute, and the segregated Hulman Funds.
5. Amounts received for student services, such as room and board payments, fees, rentals, and interest, and including Bookstore income. This amount does not include sources of student aid elsewhere accounted for.
6. Miscellaneous income including interest earned on short-term investments, rentals and salvage, fees and applications and other miscellaneous items.

The **Statement of Cash Commitments** reports the "out-of-pocket" expenses of the Institute during the year under the following four categories:

1. The general operating expenses of the Institute which include the direct costs of providing the

STATEMENT OF CASH RECEIPTS (Year Ended August 31, 1973)			
Received from Students			\$1,362,000
Received from Government			
Student Aid	\$611,000		
Equipment and Other	<u>98,000</u>		709,000
Private Gifts and Grants			
Current Operating Expense	\$264,000		
Scholarships	121,000		
Financing Capital Items	<u>78,000</u>		463,000
Endowment Income			
General Endowment	\$179,000		
Funds Managed by Others	76,000		
Segregated Hulman Funds	<u>228,000</u>		483,000
Received for Student Services			
Room	\$218,000		
Board	348,000		
Fees, Rental, Interest	13,000		
Bookstore	<u>189,000</u>		768,000
Miscellaneous Items			
Interest on Short-term Investments	\$37,000		
Rentals and Salvage	1,000		
Fees and Applications	8,000		
Miscellaneous	<u>7,000</u>		<u>53,000</u>
TOTAL CASH RECEIPTS			\$3,838,000

academic programs and associated administrative costs, the costs for recruitment of students, development costs and the costs of

providing the day-to-day operations (such as utilities) and routine maintenance of plant.

2. The expenses incurred in the

Echoes

STATEMENT OF CASH COMMITMENTS (Year Ended August 31, 1973)

GENERAL OPERATING EXPENSES¹

Academic Programs	\$1,877,000	
Student Recruitment	91,000	
Development	99,000	
Operation and Maintenance of Plant.....	<u>287,000</u>	
		\$2,354,000

STUDENT SERVICES AND FACILITIES

Food Service	\$255,000	
Dormitories	132,000	
Campus Center	70,000	
Bookstore	187,000	
Sports Programs	90,000	
Bond Principal and Interest	<u>97,000</u>	
		\$831,000

IMPROVEMENT EXPENDITURES

Equipment	\$156,000	
Plant	<u>194,000</u>	
		\$350,000

ALLOCATED TO RESTRICTED FUNDS PURSUANT TO DONOR'S INSTRUCTIONS ²	<u>\$293,000</u>
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TOTAL CASH COMMITMENTS	<u>\$3,828,000</u>
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Note 1: These expenses include \$10,000 cost to Institute to implement Federal Student Aid Programs and about \$250,000 of Institute funds dedicated to student aid.

Note 2: See preceding explanation.

3. Expenditures which have provided for new facilities and for the renovation and improvement of existing facilities consisting of equipment and plant.

4. Funds are received from time to time for use for purposes specifically designated by the donor, the Board of Managers, or by the terms of the Bond indenture. These funds are not necessarily expended in same fiscal year in which received and are, therefore, restricted or reserved for use later on for the purposes indicated. Some examples of these types of funds include:

a. Grants by corporations to specified academic areas such as Mechanical Engineering and generally designated for use in purchase of equipment.

b. Scholarship grants from various sources, such as the Anderson Foundation, the money for which has been received for use in the following year.

c. Small excesses of income over expenditures, if any, are normally restricted by the Board of Managers for whatever purpose they deem appropriate.

d. Funds developed in the operation of the Hulman Student Center and dormitories and not expended in the current fiscal year must be, by items of the indenture, reserved for application to needs of the indentured properties in future years. This year, for example, reserved funds were required for an interest payment of about \$40,000, on September 15, and payment for renovation of Deming Hall, which had been contracted for in fiscal year ending August 31, 1973 but not billed until October 1973.

provision of student services and facilities which include the cost of food services, dormitory expenses, operation of the Hulman Memorial

Student Center, Bookstore costs, direct costs of the athletic and recreational programs, and bond principal and interest payments.

Fall-Winter 1973-74

Homecoming '73

*Rain and Defeat, But No
Dampening of Spirit . . .*



Rosie says, "Welcome Back to Homecoming".

Neither a rainy weekend, nor the fuel pinch, nor a game-tying touchdown stalled three inches from paydirt as the clock ran out were enough to dampen spirits of Homecoming '73, October 26-27.

To be sure, the weather hurt overall attendance but not to the point where the classes of Threes and Eights celebrating five-year reunions gave up the big weekend.

For the second in as many years the 50-year class--the Class of 1923--got at least a one-day jump on Homecoming with a party Thursday evening.

Friday's activities moved into the morning hours with the first Homecoming Golf Tournament staged at the Phoenix Country Club west of the campus. Perry Ray and members of the Class of 1948 organized the tournament—an event which could become an integral part of Homecoming in view of the prospects of the new Hulman Links championship course currently under construction east of the campus.

Homecoming '73 was planned on a railroading theme, one which was followed more closely than any of the last five or six years. The Class of 1938 stood out with engineer caps and bandannas, and the Rose-Hulman band, of course, was already in uniform. Conductor Jim Church picked up a railroad conductor's uniform from one of the bankrupt railroads to add theme to the halftime performance by Rose's "Give 'Em Hell" marching (?) band.

RoseTech President Vern Whitehouse '40 and his successor, Fred Bogardus '32, found that "railroading" the annual meeting and honors banquet was made much easier with a properly pressed L & N engineer's cap. Of course, the cap was for show. Or was it?

Perhaps the best adaptation to theme was Sigma Nu's paper/plaster sculpture which greeted alumni just inside the Main Gate. Senior Jim Johanningsmeier of Vincennes was the chief sculptor/designer on the clever way of saying, "Welcome, Alumni and Friends."

The homecoming football game against Wabash College created more school spirit than has been seen since Don Ings and Company thrilled fans with racehorse basketball a few years ago. Many fans watched in dismay as the



Dr. Logan crowns queen Janis Knust.

Engineers lost a one-point heart-breaker at Wabash last year (a gentleman's way of describing a shaft) and there was no question that coach Bob Bergman and crew wanted revenge.

At Friday night's pep rally Mrs. John Logan, one of those who sat through the last year's game, announced a day off for students Monday if the Engineers upset Wabash. Some members of the faculty

were humming about the announcement, so just to set the record straight Mrs. Logan, looking at a 7-0 halftime score in favor of the Little Giants, said: "About that day off I promised last evening. . ." (Many expected her to say, I erred, etc.) "Beat Wabash and it's yours." That's school spirit.

Miss Janis Knust, an Indiana State

University freshman from Clay City, reigned as queen of Homecoming '73. The petite brunette is majoring in mathematics while minoring in music. She also is a member of the ISU concert band.

Her court consisted of Sandy Flint, a St. Mary-of-the-Woods student representing Alpha Tau Omega; Jana Hauger, Princeton, an ISU sophomore representing Lambda Chi Alpha; Jane Ware, Louisville, an ISU sophomore representing Sigma Nu, and Susie Wesemann, Center Grove, State Sweetheart of the Indiana DeMolay, representing members of the sophomore class.

Other student activities included the traditional bonfire (railroad ties and outhouses are both in short supply), a rock concert by a British band called "If," followed by a concert by the "Soul Messengers."



Conductor Jim Church and Rose Band.

Osmer, Zwerner, Wischmeyer and Smith

The highlight of homecoming was the annual banquet and the presentation of honor alumni awards to three alumni who have made significant contributions of time and service to the Institute.

Selected to receive the award--highest honor bestowed by the RoseTech Alumni Association--were Walter L. Osmer '20, retired insurance executive;

engineering with the Milwaukee Railroad.

He formerly was district manager for the Equitable Life Assurance Society and for a number of years has been an independent insurance broker.

Long active in alumni affairs, Osmer served as an alumni representative on the board of managers from 1958 to 1962 and subsequently was named a life

Michigan, Link-Belt Africa Ltd., Washington, D.C., and Baltimore.

President of the Alumni Association in 1964-65, he holds the distinction of having held office in more RoseTech clubs than any other alumnus in the history of the club. He currently is serving in the most demanding volunteer task ever asked by his Alma Mater--that of serving as general



RoseTech President Vern Whitehouse presents award to Walter Osmer and Mrs. Osmer.



The Gene Zwerners accept Honor Alumni Award.

Gene A. Zwerner '34, sales manager for the Link Belt Division of FMC Corporation, Indianapolis; and Carl R. Wischmeyer, director of education for the Bell Telephone Laboratories, Holmdel, N.J.

An award honoring George W. Smith, a 1939 graduate killed in action while serving with the U. S. Army Air Corps during World War II, was given posthumously.

Each of the alumni recognized have made significant contributions to Rose-Hulman as students and alumni of the engineering college.

Osmer, a graduate in civil engineering, turned to a career in insurance following more than 10 years in

member of the board. He served as secretary of the board for eight years prior to his retirement to emeritus status in 1970.

In addition to his service as a board member, he served as president of the RoseTech Alumni Association in 1954 and has held various responsibilities in area RoseTech Club and fund-raising activities.

Zwerner, a native of Terre Haute and graduate of Rose with a B.S. in mechanical engineering, joined Link Belt in 1946 following 12 years in government service with the Soil Conservation Service, War Production Board and the U. S. Navy.

He has served Link-Belt in sales positions covering Illinois, Indiana,

chairman of Rose-Hulman's \$5 million final phase of the Centennial Development Campaign.

Son of the late Dr. Carl Wischmeyer, former vice president and head of mechanical engineering, Wischmeyer was graduated first in his class in 1937.

He assumed his duties as Director of Education for the Bell Systems in 1968, following a 29-year tenure at Rice University. While at Rice he advanced from an instructor in electrical engineering to Master of the Baker College of Engineering at the prestigious Houston, Texas, school.

At Bell Laboratories he has corporate responsibility for planning, implementing and administering the Bell Lab's extensive campus and in-house education programs.

Echoes

th Named Honor Alumni for '73

Wischmeyer, who received an honorary Doctor of Engineering degree from Rose in 1970, has served Rose-Hulman capacities for class agent for fund-raising to being an alumni member of the board of managers of the school.

He was president of the RoseTech Alumni Association in 1960 and served on the board of managers from 1964 through 1968.

wings in November, 1942, and continued training for the B-24 bombers.

Injured in a bomber crash in Hawaii in June, 1943, he served as an engineering officer while convalescing. Returning to active piloting in early December of that year, he was listed as missing in action Dec. 21, 1943.



Carl Wischmeyer becomes second generation honor alumnus.



Mrs. George Smith, mother of Lt. Smith, and sister, Mrs. John Phelps accept award.

Lt. Smith, a 1939 graduate in mechanical engineering, will be well remembered by those who were in school with him or by others who saw him in action on the football field and basketball floor during his student days.

A natural leader, George was president of his senior class, president of Alpha Tau Omega, captain of the football team, co-captain of the basketball team and business manager of the Rose Technic.

He joined Terre Haute Paper Company (currently Weston-Wabash Paper Company) in 1939 and was rising rapidly as a mechanical engineer when he was ordered to active duty in 1941.

He entered service in the Corps of Engineers, but soon after transferred to the U.S. Army Air Corps. He earned his **Fall-Winter 1973-74**

'48 Takes Team Honors.

Bill Leake '28 Wins Golf Tourney.

The rains held off just long enough for a successful golf tournament. Playing with the handicap of adding the year of graduation to the card for the round, many scores soared to the mid-150s.

Bill Leake '28 won the trophy for low gross with a 73 on the Phoenix course, while David Badger '53 with a 78 plus 53 was low net at 131.

The team trophies for low gross and low net went to the Class of '48--the best foursome being comprised of Herb Sliger, Al Smith, Dick McFarland and John Nevins.

Youth prevailed as Jim Hegarty '76 won the farthest drive; shortest drive

honors belonged to Bob Cooney '48. Howard Freers '48 was closest to pin, while Owen Meharg '53 was farthest from the pin.

Other scores worthy of mention were Rose-Hulman golf team members Terry Zgorka (74), Bill Olah (75), Hegarty (79), Coach Jess Lucas (78), and Bill Ennis '53 (79).



Class of '28

The Fifty-Plus Club

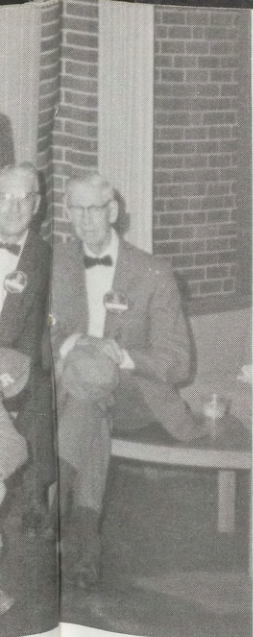


Class Re

Class of '33



s Reunions



Class of '23 Sings "Dear Old Rose"



Class of '38

Class of '43



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Class of '48



Class of '53



Class of '58



Class of '63



Class of '68

Two Summer Sessions

Operation Catapult: Launching a Boy in Engineering

Do you know of a high school junior who has been considering engineering or science as a career? If so, one of the best tips you can give him is to take a look at Rose-Hulman's "Operation Catapult" program this summer.

Operation Catapult, an incentive program for top flight male students, will be conducted in two three and one-half week sessions scheduled June 9-July 4 and July 7-August 1.

Initiated in 1967, the program typically draws students from as many as 20 states. The limited session of 65 male students live as a group on the Rose-Hulman campus where they gain practical experience in the use of the "scientific method" of investigation during their month-long look at college life. Although grades are not issued, two **Fall-Winter 1973-74**

hours of college credit are given upon completion of the program.

The projects-oriented program allows students to study and do basic research in an area of interest. Work in mathematics, physical science and engineering problems are included in conjunction with the individual student's exploration of areas such as testing tires with a laser beam, design of a mini-computer, or numerous other topics.

Since the digital computer is an indispensable tool in all of science, the Catapult program includes basic instruction in the use of FORTRAN language for the IBM 1130. Following preliminary instruction, the IBM 1130 scientific computer, the PDP 11/40 "hands-on" computer and analog computers are available for student use

both to further his knowledge and as a tool for Catapult projects.

Headed by Prof. Alfred R. Schmidt, professor of mathematics and director of the program since its inception, members of the Catapult faculty are full time members of the Rose-Hulman faculty whose schedules regularly include instruction at the freshman level. In addition, a number of Rose-Hulman students selected for their abilities as students and counselors assist in the program.

Cost of the program is \$250 which includes instruction, room and board for the residence program. Interested students are requested to obtain information and application forms from the Admissions Office, Rose-Hulman Institute of Technology, Terre Haute, Ind. 47803.

The Annual Alumni Meeting

*Not Much Railroading...
The Cap Was for Show*



RoseTech President Fred Bogardus '32
...Hand on Throttle, Eye on Rose





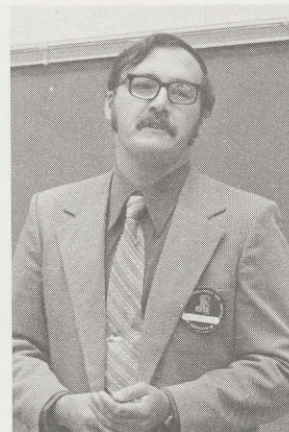
VERN WHITEHOUSE '40

... On My Honor



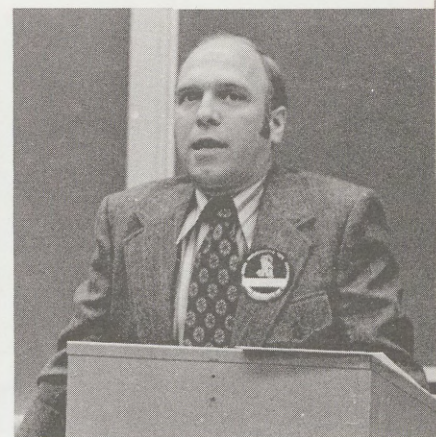
JOHN NEWLIN '43

... Top Notch Men



JACK FENOGLIO '59

... Let's Top 50%



FRED GOETSCH '57

... Job Well Done

MINUTES OF ANNUAL MEETING ROSETECH ALUMNI ASSOCIATION BUSINESS MEETING SATURDAY - OCTOBER 27, 1973 - 10 A.M.

The meeting was called to order in Room B-119 of the Main Building by President Vernon E. Whitehouse '40. He had the 50+ Club members and the anniversary classes of '3s and '8s rise and be recognized. Richard D. Madison '13 was the oldest alumnus present.

It was moved by John Tonetti '32 and seconded by Fred Goetsch '57 that the minutes of last year's meeting as published in the Fall, 1972 *Echoes* be accepted. The motion was approved.

"State of the Institute" - Dr. John A. Logan

Dr. Logan announced that three Rose alumni, Robert L. Voges June '47, Ernest G. Hurst '31 and Burt F. Raynes '37, are new members of the Rose Board of Managers. He also said that representatives of the student body and faculty will attend the Academic Affairs and Student Affairs Committee meetings.

Dr. Logan said that the Centennial Fund is now close to \$3,000,000. This includes the \$750,000 grant from the Lilly Endowment which is to be put in the Rose-Hulman Endowment and is to be matched by funds contributed to Rose from other sources.

He then discussed the two new buildings, the Learning Resources Center and the Recreation Center. The two top floors of the Learning Resources Center will be for storage and retrieval of books, etc. and will have islands of furniture. The ground floor will have the new electronic devices and will be open 24 hours a day for the students. Dr. Logan said that the present recreation facilities are inadequate for a student body of over 1,000 students. They do not provide enough space for individual and intramural sports. Dr. Logan said there is a great need to keep our enrollment at 1,050 students.

Financially, Rose faces problems continually, but so far Rose has always operated in the black, and he hopes it will
Fall-Winter 1973-74

again this year. On behalf of the Institute, he expressed thanks to the alumni for their support. He said that Rose does face problems, but that he is confident that all future problems will be solved.

Alumni Representative to the Board - John T. Newlin Feb. '43

John Newlin said that it had been very rewarding to observe this past year as Alumni Representative to the Board of Managers. He was very impressed with the quality of the members of the Board. He said that they are "top-notch, dedicated men."

Election of Non-Graduates

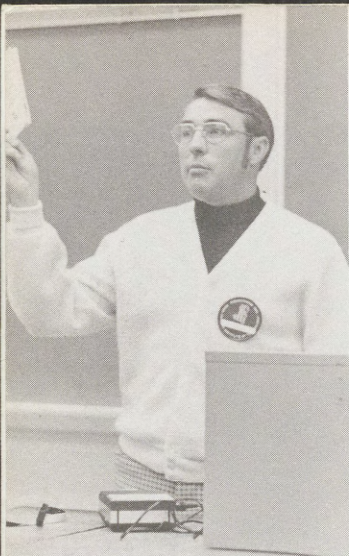
Anthony G. Blake '31, Secretary-Treasurer, read the list of non-graduates who had been nominated for membership in the RoseTech Alumni Association. Thirty-five men had been nominated. Tony Blake moved and Richard Mullins '40 seconded the motion that these men be granted membership in the Association. The motion carried.

President Vern Whitehouse then presented the names of the Honorary Degree Recipients who received their degrees at Commencement last year. Herman Moench '29 moved, seconded by James Matthews '54, that these recipients be given Honorary Membership in the Alumni Association. The motion carried.

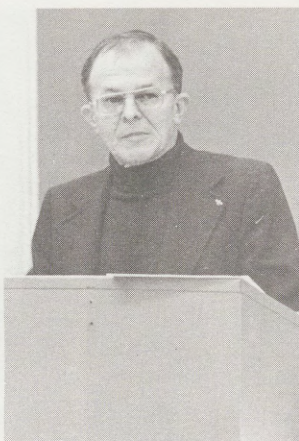
Vern Whitehouse then introduced the new President Elect, Frederick J. Bogardus '32. President Whitehouse said that he was very pleased with the staunch support he had received this past year from the Chairmen of the operating committees.

A list of non-graduate alumni nominated for membership in the RoseTech Alumni Association follows:

Warren McKeen Hussey '19	Charles H. Zachritz '37
William R. McKeen '19	Logan Davis '39
H. Roland Dix '23	Robert D. Parr '41
Frank DeWitt '32	Joseph S. Robinson '42
Charles H. Hutchins '34	William J. Kahn Feb. '43



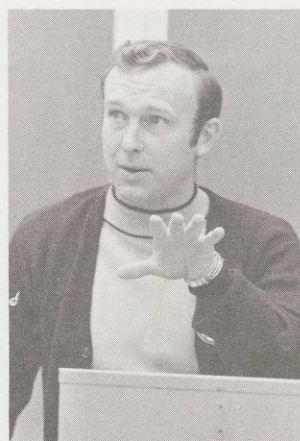
VERN FELLOWS '62
... Head 'em up



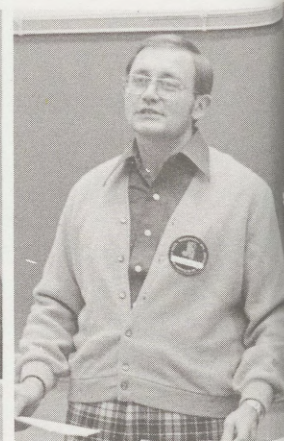
DICK MULLINS '40
... Honor Men



DICK BROWN '59
... Solid Program



BOB SANDBERG '66
... The Fun Begins



TOM REESE '58
... We Can Do It

F. D. Dailey '46
Ted Jeffers, Jr. '46
Robert Sewell '46
Walter Vanderveer '46
D. G. Norton '48
Thomas Keough '49
David Cundiff '58
Robert M. Hicks '58
Phillip Donald Kennedy '58
Sherman Smith '59
George A. Truster '61
Grady R. Wallace, Jr. '63

James McClure '64
Barry Lucht '64
John W. Ulmer '64
Charles B. Miller '65
Rodney S. Yerkey '65
Andrew Marcinko '68
Edward Roark '68
Michael Harrison '71
Gerald T. Munchel '71
Lt. Raymond King '72
Mark Warren Spowls '72
Mark Heidleburger '73

Fund Raising Committee - John C. Fenoglio '59

Jack Fenoglio said that 43.26% of the alumni had contributed to the Alumni Fund and Centennial Fund. If three or four more people from each class had contributed, the percentage would have reached 50%. Thirty classes exceeded 50% and 31 classes increased their percentage.

Student Recruitment - Fred W. Goetsch, Jr. '57

Fred Goetsch announced that he is retiring as chairman after serving for four years. Chuck Huppert '65, who has been working with him this past year, will be the new chairman. Fred said that there are 280 members in the freshman class this year. Last year not enough applications were received for consideration. He is pleased that more than 525 applications have been received for next year's class. Fifty alumni were active last year in helping with recruitment. The alumni need to refer names of prospective students to the Admissions Office and to encourage prospective students to attend Rose.

RoseTech Clubs - Vern Fellows '62

Vern Fellows said that there is a need for a greater degree of activity in the RoseTech Clubs. At the present time a manual for the operation of RoseTech Clubs is being printed and will be sent to all the clubs in the near future.

Awards and Recognition Committee - Richard A. Mullins '40

Dick Mullins said that dozens of nominations were received, and the Committee was sorry that they could only give four awards. They based their selection on men who had worked hard for Rose-Hulman over the years. The recipients are:

Walter L. Osmer '20
Gene A. Zwerner '34
Carl Wischmeyer '37
George W. Smith '39 (posthumous)

George Smith, who died in the Pacific during World War II, was selected to represent the hundreds of Rose men who have served in the service of their country.

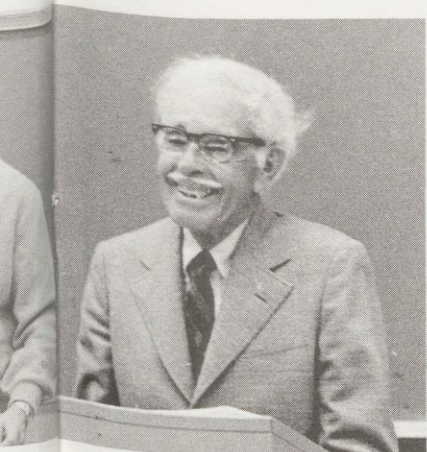
Continuing Education - Richard L. Brown '59

Dick Brown reported that excellent classes were presented under the direction of Prof. Irvin Hooper. These classes have been very well received and are considered to be an asset to the school's public relations. At the present time two courses are being offered in Engineering Materials and Noise Pollution. The committee is always looking for subject matter of current interest and would welcome suggestions from the alumni.

Homecoming Committee - Robert K. Sandberg '66

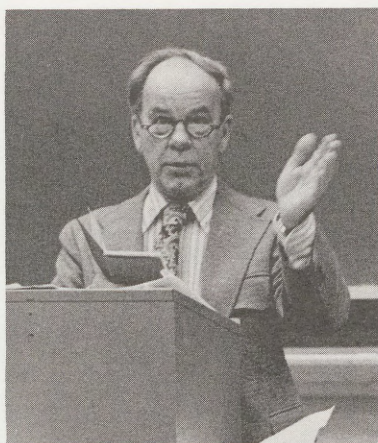
Bob Sandberg said that Homecoming officially started on Thursday evening with the 50 Year Dinner of the Class of 1923. A golf tournament, sponsored by the Class of 1948, was a new event this year. The trophies for the tournament will be presented at the Alumni Banquet. He then listed the activities for the rest of the day and evening.

The Annual Meeting



FOX BURNS '15

... Life Begins at 50+



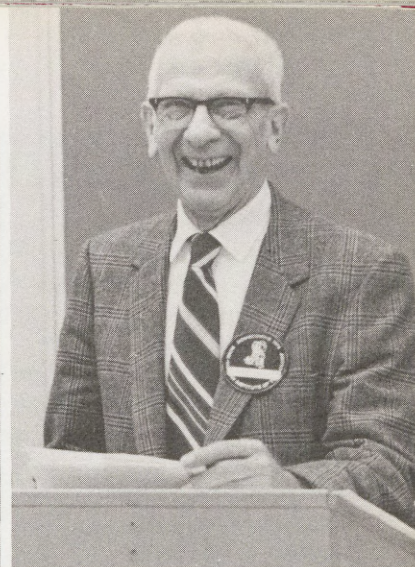
BOB MEES '31

... It's In The Book



GENE ZWERNER '34

... Goal In Sight



TONY BLAKE '31

... All's A-OK

Senior Orientation - Thomas L. Reese '58

Tom Reese said that the purpose of Senior Orientation is to bridge the gap between graduation and becoming an alumnus. He made a plea for more alumni participation in orientation and suggested that anyone who is interested should contact Fred Bogardus. The committee gave all the seniors a magazine called "The Graduate" which has many helpful tips on how to get jobs.

Report on 50 Year Club - Fox Burns '15

Fox Burns reported that the fifth Annual Meeting was a huge success, and everyone enjoyed it. The Class of 1923 sang "Dear Old Rose" for their initiation, and Fox said they were excellent the second time around. He hopes that next year the Class of 1924 will turn out in large numbers.

Report on Centennial Celebration - Robert T. Mees '31

Bob Mees reported that Rose-Hulman Institute is going to celebrate one hundred years of service to the community, the state and the nation. The celebration will begin with the Opening Convocation on January 26, 1974 and will end with a Convocation for the Future on January 14, 1975. Other special events will be the Rose Show, Parents Day, Commencement, Homecoming, Centennial Tournament and the Hawaiian Tour. The Memorial Volume written by Dr. John L. Bloxsome will be distributed to all alumni early in 1974.

Report on Centennial Campaign - Gene A. Zwerner '34

Gene Zwerner reported that the Centennial Fund now stands at the three million dollar level. He thanked all the workers who worked in this campaign. He said that the staff, faculty and Board of Managers had done very well, but that more backing is needed from the alumni and industry. He said that there is still a long way to go, but there are good prospects of getting the other two million.

There was no old business or new business.
Fall-Winter 1973-74

Report of Election Committee - Anthony G. Blake '31

The results of the balloting for Vice President of the Alumni Association have been completed. The new Vice President is Robert S. Kahn '39.

Report of the Nominating Committee - Adam K. Grafe '25.

Adam Grafe could not be present so Tony Blake gave the report. This committee is composed of the last five Alumni Association Presidents. This year the members are Adam K. Grafe '25, Chairman, Robert L. Royer Apr. '49, Robert T. Mees '31, John T. Newlin Feb. '43, and Richard C. Brown '27. They have nominated the following:

Vice President

Paul H. Sawyers '32

Alumni Representative to the Board

Harold A. York '28

Alfred A. Yee Oct. '48

Vernon E. Whitehouse '40

It was noted that the slate was not complete.

Election of Secretary-Treasurer

It was moved by Fred Bogardus, seconded by Vern Whitehouse, that Anthony G. Blake be reelected Secretary Treasurer. The motion was unanimously passed by acclamation.

The meeting was then adjourned.

Anthony G. Blake

Anthony G. Blake, Secretary-Treasurer

Engineer Cagers 'Turn Corner'

"Although our record may not indicate it, I think we have turned the corner and I see a bright future ahead for our basketball program."

That is the optimistic viewpoint of Coach John Mutchner whose Engineers compiled a 9-18 basketball record this year.

Mutchner's optimism stems from the fact that this year's starting five consisted of three freshmen, a junior and only one senior.

"Last year we won only seven games and were playing with seniors, but this season was different. Although we did not win many more games, we were a better team and there is no doubt that the freshmen improved from the beginning of the season and will continue to improve as they get more experience."

Although the Engineers did not have the winningest basketball team in Indiana, they did compile a fantastic scholastic record and were called "the smartest starting five in Indiana" in an article in the *Evansville Courier-Press*.

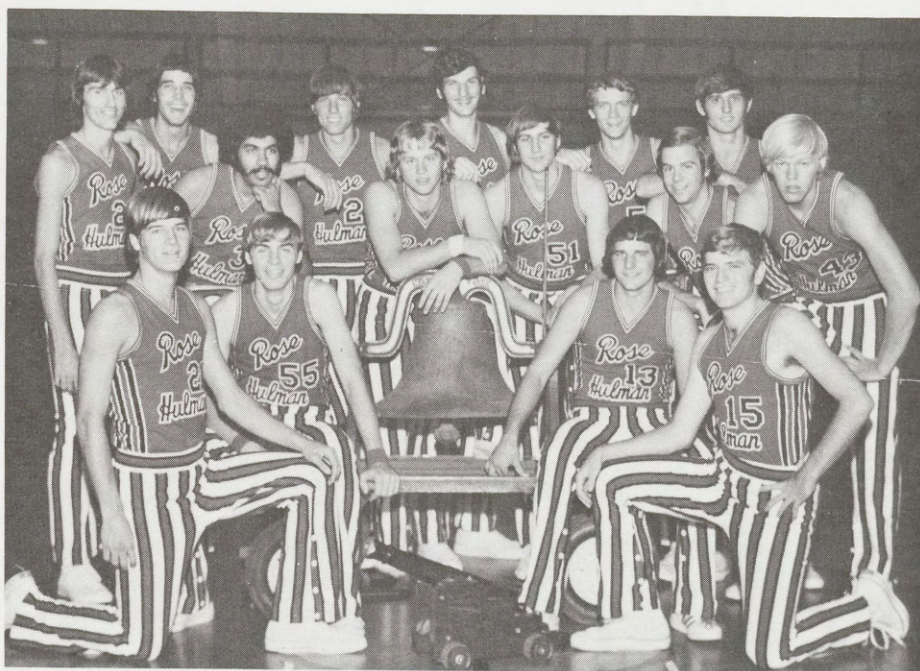
In the classroom, 11 out of the 14 members of this year's team had a 3.0 or better grade point average. Five of those 11 had 3.5 or better averages and the starting five had a 3.3 cumulative grade point average.

The Engineers started the season by winning two of their first three games during a jaunt through Michigan and Canada. The Engineers defeated Detroit Tech and Fanshawe but lost a one point decision to St. Clair.

This year's schedule was one of the most demanding in the school's recent history and even Coach Mutchner admitted that the Engineers may have "over scheduled"

Among the losses during the first dozen games were to Hanover, which ended the season with a 24-3 record (the best in the school's history), Earlham, which lost to Hanover by only one point, Eckerd College of Florida, Marian, ISU-Evansville, and Centre---each had terrific seasons.

Following the Rose-Hulman Invitational tournament in January, the Engineers began to jell and won four out of their next six games which included a five-game winning streak in Shook Fieldhouse.



Rose-Hulman's young Engineers rally around the victory bell which was to ring often late in the season as the basketball team "turned the corner." From left, in front, are Mark Hodson, Roger Inbody, Todd Eck and Mike Griggs. Middle row, Mike Kilpatrick, Bruce Dougan, Ron Wingarter, Clayton Black and Doug Weber. Top row, Denny Townsend, Bill Ransbottom, Steve Van Dyck, Kevin Otto, Terry Maddux and Mike Engle.

Three out of the last four games of the season were on the road with the Engineers dropping losses to small college power St. Joseph's, and to out-of-state foes Kenyon (Ohio) and Greenville (Ill.).

The Engineers returned home for the last game of the season and played perhaps their best game of the year in bowing in overtime to NCAA power Wright State University of Dayton, Ohio.

Despite the losing season, there were stellar performances by every player in a season highlighted by the record-breaking performance of freshman Mike Griggs of Mendon, Ohio.

The 5-10 guard broke the freshmen scoring record, as he collected 468 points. The old record of 380 points was set by Jim Eppen ('73) in 1969-70.

Griggs scored in double figures in 25 of the 27 games this season and in one streak scored more than 20 points in three straight games and ended the season with a 17.3 scoring average.

Veterans also paced the Engineers this

season as center Bill Ransbottom, Springfield, Ohio, led the team in rebounding, including a season high 21 rebounds against ISU-Evansville. Ransbottom was second to Griggs in scoring with a 15.1 average.

Ending four-year careers for the Engineers were seniors Clayton Black, Eaton, Ohio and Mike Kilpatrick, East Chicago. Black finished his career with 845 points which puts him 11th among all-time leading scorers in the college's history.

As a spot starter, Kilpatrick had a career high 17 points against Wabash and was best known for his tenacious defense.

The other starting freshmen for the Engineers, forwards Terry Maddux, Westport, and Steve Van Dyck, Grafton, Wisc., both improved as the season progressed and there is little doubt that they will both be playing a lot of basketball for the Engineers in the next three years.

(Continued on page 31)

Echoes

Finish 5-4

Gridders Toughen With Experience

At the beginning of the football season, Coach Bob Bergman warned, "We are a very young team and we will make a lot of mistakes early in the season, but I guarantee you we will be a better team during the latter part of our schedule." Coach Bergman kept his promise.

Despite the fact that a winning season again eluded the Engineers, Rose-Hulman finished the season with a 4-5 record, winning three of its last five games.

This year's team, consisting of 65 players, was made up of only four seniors and eight juniors. Four freshmen and nine sophomores were starters for the Engineers in 1973, which saw the Engineers start slowly but end with a chance at a winning season.

In the season opener it appeared that perhaps the Engineer defense was so complicated that only the other team's offense could figure it out. Rose-Hulman's inexperienced squad bowed to a powerful Franklin offensive unit that rolled up over 500 yard total offense en route to a 54-6 win at Franklin.

Immediate thoughts centered around the question of whether such a young team could regroup in a week's time.

The "word" for the rest of the season for the Engineers was "pride." The young squad rebounded and was eager to show fans that it was capable of playing sound small college football.

The defensive unit was the first to show its prowess. Holding Anderson to six first downs, the Engineers won 9-7. The next week Earlham took advantage of nine turnovers to win 20-7. Rose-Hulman corrected the mistakes the fourth game of the season against Hanover, but lost 17-7 as the Panthers scored their final touchdown with two seconds remaining.

Playing before a Dad's Day crowd, the Engineers shut off Southwestern's potent aerial game and won 9-7 on the strength of a field goal by Larry Spilbeler.

The Engineers continued to roll, trouncing Illinois College 26-3 as Dave Meese and Kevin Kingery rambled for 200 yards. Defensive tackle Jack Farr scored on a 41-yard pass interception--the lineman's dream.

Fall-Winter 1973-74

In every season a football team has a game that turns out to be the most thrilling and sometimes the most up-setting. This year's Homecoming contest against Wabash had both those qualities. With revenge in their eyes (in view of last year's 22-21 loss to the Little Giants) the Engineers needed nothing to "fire them up."

The game was close throughout, as Wabash took a narrow 7-0 halftime lead that was widened to 14-0 in the fourth quarter. A 19-yard pass from Pat Noyes to another sophomore Dennis Callahan narrowed the margin to 14-7 to set up the dramatics. With less than a minute to go, Wabash was forced to punt from its own end zone. A fierce rush resulted in a poor kick with the ball going out of bounds on the Wabash 11. With no timeouts remaining, and less than forty-five seconds left in the game, the Engineers started their drive to the goal line. On the first play Noyes hit Jim Gidcumb with a pass at the Wabash one-yard line. The play was good for a first down and should have meant an automatic official's timeout (Rose-Hulman was out of timeouts) to enable the officials to move the yard markers downfield. The officials, for some reason, did not call timeout and with the clock running, Noyes tried a quarterback sneak that was close but was ruled down three inches short of the Wabash goal line. With only five seconds to go, Noyes again tried a quarterback sneak that was short and the game ended 14-7.

The Engineers pounded Principia 40-7 the next weekend--the first time in 13 years they had won at Elsah. Rose-Hulman took hopes of a winning season, to Illinois Benedictine, but lost 20-6 to the powerful Eagles. The Engineers knocked Benedictine from the unbeaten ranks with a thrilling 18-17 win in 1972.

The contest marked the final game for four Rose-Hulman seniors. Playing in their finale for the Engineers were offensive guard Joe Baker, defensive tackle Dan Denlinger, cornerback Tom Hunt, and safety John Kelm.

One school record was set by the Engineer defense this year, as the Rose-Hulman defensive backfield intercepted 21 passes.

The football team's MVP award this year went to junior linebacker Steve Wolodkiewicz, who was also named the team's most valuable defensive back.

Dave Linderman was awarded the most valuable defensive lineman award, while Mark Gibson was the recipient of the most valuable offensive lineman award. Kingery was named the most valuable offensive back and Phil Audet was awarded the most improved freshman trophy.

Gibson and Linderman were named on the Associated Press small college All-America team as honorable mention winners.

With 10 of its starting offensive unit returning and nine starters on defense coming back next year, the Engineers will surely create some sleepless nights for opposing coaches next fall.

5-3 Season

Young Harriers Superb

When Coach Jim Carr started the 1973 cross country season with a squad of seven freshmen and only three juniors not many people gave him much hope for a winning season. Their doubts proved to be not well founded.

Anchored by the brilliant running of junior letterman Dennis Dierckman of Batesville, the youthful Engineer runners compiled a 5-3 season record and the 12th winning season in 13 years for Coach Carr.

An exciting, revenge win against DePauw, 26-29, during the last meet of the season combined with wins over Marian (twice), 18-48 and 17-46; Franklin 15-50, and the University of Evansville 21-40 resulted in a surprising finish for the inexperienced squad.

The Engineers dropped meets to Wabash 20-35, Hanover 23-45 and Butler 19-38.

For the third year in a row Dierckman was selected as the most valuable runner on the squad. He won six of the eight meets on the Engineers' schedule, was the winner of the District 21 N.A.I.A. meet at Indiana University, and finished first in the five-mile run at the DePauw Invitational. Dierckman also holds the course record at Rose-Hulman with a 26:26 clocking.

Freshmen on this year's squad receiving letters were Dave Baumann, Mike Korkos and Alan Cassiday, all of Indianapolis; Paul Georgas, Crown Point; Dave Schacht and Jim Cottom, both of Terre Haute and Steve Shroka, Cedar Lake. Dierckman was the only upperclassman to receive a letter.

News From Alumni

'22

Eugene S. Whitlock (M.E.) reports a move from Chicago to Rockford, Ill. Formerly Chicago representative for Gerbing Manufacturing Corporation, he now resides at 2323 Sauber Avenue, Rockford, Ill. 61103.

'32

Dr. C. Chester Stock (ChE.) received Lambda Chi Alpha's Order of Achievement award at the fraternity's 34th General Assembly and Leadership Seminar in Muncie, Ind., in late August. The award is considered to be the highest bestowed by the fraternity. Dr. Stock continues as vice president of Sloan Kettering Institute for Cancer Research in New York City, and Director of its Walker Laboratory in Rye, N.Y. He has been active in cancer research for 27 years and is widely recognized for his work in chemotherapy. Recipient of a Doctor of Engineering degree from Rose, he was named to the Board of Managers last February.

'42

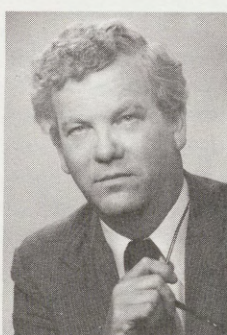
Gene F. McConnell (M.E.) recently was awarded a masters in business administration by the University of Evansville. Gene, who has been associated with Whirlpool Corporation for a number of years, is director of engineering services for the corporation. His address is 9612 Petersburg Road, Evansville, Ind. 47711.



C. C. Stock



J. V. Titsworth



J. D. Morrow

'48

Howard P. Freers (M.E., Oct.), Detroit Section Chairman of the Society of Automotive Engineers, is on this year's program of the annual banquet of the ASE Automotive Engineering Congress and Exposition in Cobo Hall Feb. 25-March 1, 1974. In his capacity of chief host for the Detroit section, he'll give the official welcome to the congress. Howard's full time job is that of chief engineer for Light/Luxury Vehicle Engineering, Product Development for Ford Motor Company. He continues to reside at 536 Whitehall Rd., Bloomfield Hills, Mich. 48013.

'49

John V. Titsworth (M.E., Jan.) has been appointed to the new position of executive vice president of Control Data Corporation's Peripheral Products Company. In his new position he will be involved with overall management of the subsidiary, including the areas of disk memory products, terminals, engineering, legal, personnel, Washington area operations, and selected executive sales accounts. John also will continue to directly supervise a number of operations which reported to him in his former post as vice president and group executive for the memory products group. He joined Control Data in 1968 as general manager of the company's Normandale Operations. Previously he was associated with Lear Jet Industries, Inc., as corporate vice president and general manager of the Avionics Division. He and his family reside in Minnetonka, Minn.

'50

Dr. JoDean Morrow (C.E., Aug.), professor in the department of theoretical and applied mechanics at the University of Illinois at Urbana-Champaign, has been awarded the Charles B. Dudley Medal by the American Society for Test and Materials. The Dudley Medal is given to the author of a paper or series of papers, published by ASTM, of outstanding merit constituting an original contribution in the technical areas of ASTM. Dr. Morrow's contribution dealt with a method for relating laboratory fatigue data to service applications involving geometrics such as notches and fillets, and to complex loadings. Upon graduation from Rose he earned his M.S. and Ph.D. in theoretical and applied mechanics at the University of Illinois and since has been engaged in teaching, research and consulting in the area of mechanical behavior and properties of engineering materials. Since 1957 he has been in his present post except for the year 1969 when he was a visiting member of the engineering faculty at Kyoto University in Japan while on sabbatical leave from Illinois.

'51

Carl H. Wokasien (E.E.) has been promoted to director of product assurance for Delco Products Division of General Motors Corporation. The appointment to the executive staff was effective Aug. 1 and moved Carl from general superintendent of inspection and quality control where he had responsibility for activities at the division's Dayton and Rochester operations. Carl joined Delco Products following graduation from Rose, and subsequently became inspection foreman in 1953, senior quality control engineer in 1961, and senior reliability engineer in 1963. Appointed general superintendent of inspection of the Dayton operations in 1965, he was given added responsibility for quality control in 1969 and elevated to his recent post in 1972. He resides at 7312 Eagle Creek Dr., Dayton, Ohio 45459.

'52

Leo E. Little (E.E.) is now senior project manager for the U.S. Atomic Energy Commission in Germantown, Md. Leo joined the AEC following a number of assignments with Aerojet General Corporation in California and Nevada. His current address is 24804 Ridge Road, Damascus, Md. 20750.

Mark Your Calendar

Homecoming '74

October 18-19

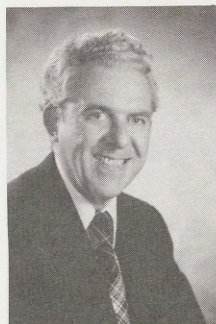
Louisville Utility Promotes 4 Alumni

Four Rose-Hulman graduates--**Robert C. Somers '49**, **William G. Cummings '51**, **James E. McCulloch '55** and **Frederick Wright '62**--recently received promotions at Louisville Gas & Electric Company.

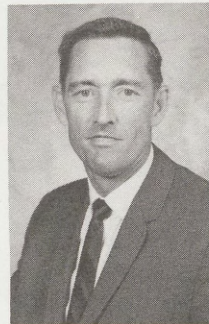
Somers, who joined Louisville Gas and Electric following his graduation in civil engineering in January, 1949, was promoted to assistant general superintendent of the Operating Department. He previously had been assistant superintendent and superintendent of special construction.

Cummings, who was graduated in civil engineering in 1951 joined LG & E in 1953, succeeded Somers as superintendent of special construction. Having joined the utility as a civil engineer, he since has held positions as senior construction engineer, and assistant superintendent of special construction.

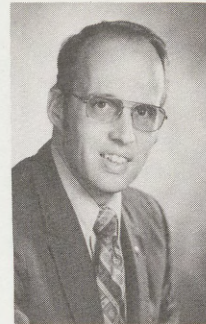
McCulloch, a 1955 graduate in electrical engineering, assumed the position as assistant superintendent of special construction. He,



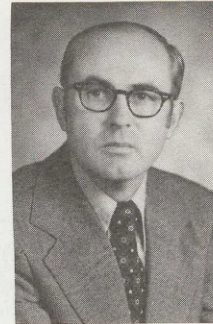
R. C. Somers



W. G. Cummings



J. E. McCulloch



F. Wright

too, joined LG & E upon graduation and has held positions of electrical engineer, senior electrical engineer, and chief electrical engineer.

Wright meanwhile, transferred from sales to staff engineer in the operating department. Fred, who worked for LG & E during the summers of 1957 to 1961 before being regularly employed by the utility following his graduation in 1962, has a wide range of experience at the company.

He started as a mechanical engineer in the special construction department. In 1963 he transferred to the sales department as a sales manager and in 1969 was elevated to manager of gas sales.

Promotion of Rose engineers by LG & E has been prevalent for many years. **George Armstrong '21** rose to chairman of the board; **John F. Mayrose '35** is executive vice president, while **Robert L. Royer '49** is vice president of operations.

'55

Jerry L. Hebb (M.E.), manager of personnel safety and environmental control at the Monsanto Research Corporation's Mound Laboratory at Miamisburg, Ohio, recently participated in an international symposium on radioactive materials in the atmosphere conducted by the International Atomic Energy Agency in Vienna, Austria. Hebb was invited to present two papers-- "Mound Laboratory Environmental Control Program" and "Mound Laboratory Air Surveillance System." Both deal with the aspects of an advanced environmental control program which Mound has implemented and perfected since the site was constructed in 1949. Hebb, who has been at Mound Laboratory since 1969 and with Monsanto Company since 1956, is responsible for all phases of environmental protection. According to Mound, its current program has established a sophisticated air surveillance system which includes on and off-site monitoring stations, a meteorological station, mobile laboratory sampling and computerized data banks. Prior to joining the laboratory operated by Monsanto Research Corporation for the U.S. Atomic Energy Commission, Jerry held various engineering capacities with Monsanto at Texas City, Tex., and Chocolate Bayou, Texas, production plants and with Corporate Engineering at Monsanto World Headquarters in St. Louis. He and his wife, Suzanne and son reside in Kettering, Ohio.



J. L. Hebb

'56

John W. Elder (Ch.E.) has been appointed licensing specialist for B. F. Goodrich Chemical Company, Cleveland, Ohio. His new duties include promotion and licensing of the company's various process technologies which are available worldwide through licensing agreements. John joined Goodrich in 1956 at its technical center at Avon Lake, Ohio, and was transferred to the Calvert City, Ky., operation in 1961 where he rose to senior engineer. Active in Goodrich's vinyl chloride monomer (VCM) technology pioneered in the early 1960s, he has been involved in training and start-up assistance for licensees of the VCM process since 1969. His new address is 2771 Bramblewood Drive, Broadview Heights, Ohio.

'58

Barton D. Hartsock (M.E.) recently moved to Tampa, Fla., to become a partner in Southern Equipment Corporation, mechanical contractors. Prior to the move Bart was an engineer with the Lee Tire & Rubber Company, a subsidiary of Goodyear Tire and Rubber Company, and most recently worked at Wayne, Pa. His new address is 1525 W. Kennedy Boulevard, Tampa, Florida 33603.

'59

Richard B. Kirby (M.E.) has a new position as manager of quality engineering and standards for the Component Products Division of Electronic Memories and Magnetics Corporation, Hawthorn, Calif. His current address is 3621 Emerald, No. 50, Torrance, Calif. 90503.

Send Your Son
To

Operation Catapult

... Launch a Career
in Engineering
and Science

'61

William R. Fenoglio (M.E.) has been appointed manager of marketing for the Specialty Motor Products Department of General Electric Company in Fort Wayne. Bill joined General Electric in Indianapolis with the component sales department in 1961 and since has held assignments in Dallas, Evansville and Fort Wayne. While in his last assignment at Fort Wayne he has coordinated product departments and field sales efforts for sales to consumer markets, manager of appliance sales, manager of operations for one of the Fort Wayne units and manager of materials for another. Bill and his wife, Becky, have three children and reside at 4415 Austin Drive in Fort Wayne.

'65

Norman G. Schuld (Chem.) has an interesting assignment with ESSO International, a subsidiary of Standard Oil of New Jersey. He reports on his job as assistant department manager of the Buenos Aires office thusly: "My work here is a genuine challenge. Being close to operations, in contrast to the head office in New York, is a new insight for me. . . . We are fighting for survival as the new government adopts new policies and laws relating to foreign capital participation . . . Twelve hours per day at the office has been normal since I arrived with weekend work either at home or at the office. . . . "Norm reports that both he and his wife, Leanne, took two weeks of "total emersion" in learning Spanish with instructors who do not speak English. The Schults reside about 15 miles north of Buenos Aires where Leanne teaches in an American school. Steven, 6, is in first grade, Mark, 4, is in nursery school, and Heather, 2, is learning Spanish from the maid. Mail may be directed to Norm and the family at ESSO, Av. Roque Saenz Pena 567 Buenos Aires, Argentina, South America.

Charles B. Huppert (E.E.) recently announced the formation of a new law partnership in Indianapolis. He joined with William S. Gardiner and Don G. Hayes, Jr., in forming Gardiner, Huppert & Hayes, with offices at 6325 North Guilford Avenue, Indianapolis, Ind. Chuck is very active in alumni affairs and recently succeeded Fred Goetsch '57 as the chairman of student recruitment of the RoseTech Alumni Association. He and his wife, Linda, also an attorney, have a one-year-old daughter.

William L. Bergstrand (M.E.) has been promoted to assistant division superintendent of the plastics department of E.I. du Pont de Nemours & Co., Inc., in Washington, W.V. He formerly was a production supervisor in the plastics department. Bill's address is Rt. 2, Somerville, Washington, W.V. 26181.



Alumnus Wegrich with model of Skylab

NASA Honors Richard Wegrich '58

A 1958 graduate of Rose-Hulman has been cited for the role he played in the Skylab space station program of the National Aeronautics and Space Administration.

He is Richard Wegrich, an honors graduate in mechanical engineering who currently is an aerospace engineer at the NASA-Marshall Space Flight Center, Huntsville, Ala.

Wegrich received the "Director's Commendation" from the Marshall Center's director, Dr. Rocco A. Petrone, expressing appreciation for his "dedicated service" to the center and the Skylab program.

He joined the team at Marshall Space Flight Center 12 years ago, following graduate school at Southern Methodist University.

Specifically, the Rose-Hulman alumnus was recognized for outstanding performance during the Skylab hardware, development and manufacturing phase while working as a systems engineer on the thermal and environmental control systems.

The award also commended him for outstanding performance as a team

leader for one of five teams of Marshall personnel working in the Flight Operations Management Room at Johnson Space Center in Houston during the Skylab mission.

Wegrich was one of the chief engineers on the 100-ton Skylab, America's first space station. His speciality of thermal and environmental control for this space station about the size of a small three-bedroom house was among the most critical areas of the program.

During its five months in orbit at 270 miles altitude, some 90 different experiments were carried out by the first U.S. manned orbital research facility, according to NASA officials.

The emphasis is on the practical benefits that space research can bring to man. And, of course, with data collected and new information at hand, Wegrich and other engineers and scientists will continue to forge new horizons.

The Terre Haute native is married to the former Nancy Cade of Terre Haute. The couple has two children, Richard 12, and Deborah, 10 years of age.

Echoes

Andrew D. "Skip" Szilagyi (Ch.E.) recently received his doctor of business administration degree from the Graduate School of Business, Indiana University. Skip is now assistant professor of organization behavior and management at the College of Business Administration at the University of Houston, Houston, Texas. His research and consulting activities have been and will continue to be focused on the management of health care systems. Skip, his wife, Sandy, and their children, Darin and Dana, reside at 415 Spring Woods Drive, Spring, Texas 77373.

Ray V. Frischkorn (E.E.) recently was appointed director of data processing at St. Luke's Methodist Hospital in Cedar Rapids, Iowa. Prior to the move Ray was associated with Collins Radio and Korn Enterprises for a number of years, during which time he has been a pillar in the Iowa RoseTech Club. The Frischkorns reside at 2165 Evergreen, N.E., Cedar Rapids, Iowa 52402.

Michael I. Atkins (Math) completed his Ph.D. in computer science at Case-Western Reserve University in Cleveland in September and has moved to Rochester, N.Y., and a position as assistant professor of computer science at Rochester Institute of Technology. Mike, who stayed on at Rose to earn a masters in mathematics in 1966, formerly taught mathematics at Cuyahoga Community College near Cleveland while working on the Ph.D. His new address is 4 Strawbridge Road, Henrietta, N.Y. 14467.

'66

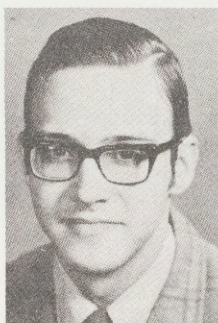
Stephen Daugherty (E.E.) pens a note concerning his current assignment with the U.S. Army in Taipei, Taiwan. Steve, who recently completed a tour of duty in Hawaii, is assigned to the U.S. Army Communication Command and is working with the technical evaluation detachment. As the officer in charge of evaluation team, his assignment is to test and maintain the Army's wideband communications systems in the Pacific area. Says Steve: "The job serves for a lot of interesting travel to many Asian countries and provides a lot of engineering experience. Promotions are coming quite slow now, but I may make captain soon. I always keep my fingers crossed for the prospects." Mail may be sent to Lt. Daugherty at Technical Evaluation Detachment, USACC SIG SPT AgCY-TWN, APO, San Francisco 96263.

Mark Your Calendar

Centennial Tournament

December 6-7

Fall-Winter 1973-74



G. W. Lackey



R. A. Williams

'67

John W. Katzbeck (M.E.) pens a note about his recent winning of the class championship in Modified I in the Pennsylvania Hill climb Association's 1973 series. John drove a 1967 Austin Healey Sprite and says of his feat: "This series is unusual in that it is the only organized hillclimb series for cars in the U.S. A hillclimb is a solo run against the clock up a hill (or mountain) on paved roads--curves and all. Maybe I'll go SCAA road racing this summer. . ." John continues in the same job as a design engineer at the Greensburg Division of ITE Imperial Corporation. His address is 6A Stonevilla Ct., Greensburg, Pa. 15601.

'68

Stephen D. Ahlbrand (E.E.) reports that he will be released from active duty with the U.S. Army in February, 1974 and plans to return to The Johns Hopkins University Applied Physics Laboratory. Steve also announces the birth of a daughter, Stephanie Nicole on August 9, 1973.

Stephen P. Mueller (M.E.) is now sales manager of the Northern Ohio office of Ellman Equipment Company, a company which deals in systems for air pollution control. A special note: "My wife, Jean, presented me with a blonde-haired, blue-eyed baby girl last Thanksgiving named Melissa Beth." Congratulations, Steve and Jean. The Muellers reside at 4617 Linda Lane, Akron, Ohio 44321.

Cagers Turn Corner

(Continued from page 26)

VanDyck had the highest single game point total of the season for an Engineer as the 6-4 wingman poured in 35 points against Fanshawe.

Key reserves for the Engineers this season included junior Denny Townsend, Hamilton, Ohio; sophomores Bruce Dougan, Holland; and Doub Weber, Hebron, Ohio; along with freshmen Roger Inbody, Findlay, Ohio; Kevin Otto, Anna, Ill.; Kevin Kingery, Frankfort, and Mark Hodson, Fairland, Ind.

Craig H. Weerts (M.E.) drops a line with the Rose news from Columbus. Top on the list was a daughter, Jennifer Michelle, born to Craig and Suellen on October 3. Ten days later they moved into a new home at 4540 Mission Court in Columbus--just one block from Dave Trueblood (M.E., '69). Just to keep things in the Rose family, the Weerts sold their former home to Ed New ('69 M.E.) who returned to Cummins following a tour of duty with the U.S. Army.

'69

Gary W. Lackey (Ch.E.) recently was promoted to senior process engineer for Texaco, Inc., in Lawrenceville, Ill. Gary, who joined Texaco upon graduation, formerly was a process engineer at the refinery. He and his wife, Diane, and son, Gary Todd, reside at R.R. 1, Lawrenceville, Ill. 62439.

John K. Malmquist (C.E.) has accepted a position as cost engineer for the Mining and Metals Division of Bechtel Corporation in San Francisco. John, who married the former Miss Carol Lawler Dec. 30, continued his education at the University of Wisconsin where he earned a B.S. in business in 1972 and an M.B.S. in August, 1973. Carol attended St. Mary-of-the-Woods and received her degree in nursing from Wisconsin. The Malmquists reside at 30 Corwin, San Francisco, Calif. 94114.

Robert A. Burricelli (M.E.) recently completed a masters in business administration from Rutgers University. Bob continues as an engineer for Public Service Electricity and Gas in New Jersey. He resides at 61 Lenox Terrace, West Orange, N.J. 07052.

'71

Richard A. Williams (M.E.) has completed pilot training at Luke Air Force Base, Arizona, in the F-4 Phantom fighter-bomber. First Lieutenant Williams, already a qualified pilot, took the advanced training during a six-month course which included more than 100 hours flying time and more than 500 hours of classroom and ground ground training (shades of Rose?). Rich is married to the former Priscilla A. Lace, but no current assignment was available at press time. Mail may be directed to him at 324 Boston Road, North Billerica, Mass. 01862.

Randall L. Foulke (Bio.) is working for Henry B. Steeg and Associates, consulting engineers of Indianapolis. He recently moved from Indianapolis to nearby Greenfield; his new address is 1420 Candle Light Drive, Greenfield, Ind. 46140.

Hugh E. Ollech (M.E.) is a systems engineer and consultant for Industrial Nucleonics at Lisle, Ill. Hugh, who earned a masters in industrial engineering at Purdue University's Krannert Graduate School of Business, resides at Apartment 1-D, 4740 Lake Trail Drive, Lisle, Ill. 60532.

Charles E. "Chick" Sweeney (C.E.) currently is completing his M.S. in civil engineering at Colorado State University, Fort Collins, Colo. Specializing in hydraulics, Chick's thesis is on "Cavitation and Energy Dissipators." Chick, who expects to finish his work in June, also has been working in CSU's research laboratories on a number of commercial testing projects for Westinghouse Corporation and Chicago Bridge and Iron Company, and reports he has co-authored a paper on cavitation with James W. Ball which will be presented at the Institute of Mechanical Engineers' Fluid Machinery group conference at the University of Edinburg, Scotland, in September. But the biggest news is his engagement to Agnes Hannon of Kouts, Ind. The couple plans to marry in December. Meanwhile, Chick is job-hunting for a position as a hydraulics engineer or a consulting engineer with a firm specializing in water resources development. His address is 217 S. Sherwood St., Fort Collins, Colo.

Bruce L. Shipley (C.E.) is "loving the work and moving all over Colorado" as a project engineer for Meurer-Serafini-Meurer, Inc., consulting engineers of Denver, Colo. (Senior partners in this firm are fellow Rose alumni Charles Meurer '42 and Malcolm Meurer '49). Working primarily in the area of water treatment and sewage development, Bruce's enthusiasm bubbles when he speaks of a preliminary design at Ouray, Colo.--called Little Switzerland-- or his current assignment as the firm's representative on a country club community development near Colorado Springs. Outdoorsman Bruce and his sidekick, Chick Sweeney, also have done some mountain hiking and camping as time allows.

Michael B. Lammey (C.E.) has accepted a position with Kates, Peat, Marwick & Company, a Canadian management consultant firm. Mike reports he is a consultant with their transportation division of the Toronto office. Says Mike: "My responsibilities are in the areas of transportation plans, transit plans (including Dial-a-Bus studies), and site analyses such as airports. Barb and I are now living temporarily at 77 Bannockburn, Toronto, Ontario M5M 2M9. Any friends interested in a vacation outpost are encouraged to write."

Eric L. Mitchell (Aero.) recently completed the 16-week helicopter pilot course at the U.S. Army Primary Helicopter School, Fort Wolters, Texas, and since moved on to the advanced aviation school. Eric entered the Army as a second lieutenant last December after having been employed briefly by Gann Conveyor, Inc. Eric's current address is Lot 1224, Leisure Lake Village, Palmento, Fla. 33561.

In Memoriam

'04

William H. Bowsher (M.E.), retired farmer, died Nov. 4 in Topeka, Ind.

'07

Howard C. Taylor (E.E.), retired president of the Acme Pattern & Machine Co., of Buffalo, N.Y., died June 25 in Buffalo.

'09

Edwin C. Read (C.E.), died Aug. 8 in Indianapolis. Prior to his retirement he was superintendent of construction at Fort Harrison for 23 years. Most recently, he was superintendent of the Bolin & Burns Construction Co. for 12 years. He was a past president of the RoseTech Club in Indianapolis.

'12

Julius W. Ahrens (Ch.E.), chief chemist for 43 years of the Indiana Gas and Chemical Co., died Nov. 29 in Terre Haute.

Frank H. "Dutch" Wentz (E.E.), retired manufacturers' representative for 47 years for Richard Wilcox Co., died Oct. 13 in Cincinnati, Ohio.

'13

Raymond M. Ostrander (E.E.), retired planning engineer for the Commonwealth Edison Co., died in August in Chicago, Ill.

Richard O. Headley (C.E.), a retired farmer of near Robinson, Ill., died Dec. 9 following a lengthy illness.

'14

Joseph S. Gillum (C.E.), died Nov. 18 in Newcastle, Pa. Prior to his retirement he was superintendent of pensions for the Pennsylvania Railroad.

'15

Jesse E. Ham (E.E.), died June 8 in Highland Park, Ill. Prior to his retirement he was sales engineer for the General Electric Co.

'21

Charles R. "Doc" Voges (Ch.E.), who capped a 31-year career as a chemical engineer with Magnolia Corporation, Beaumont, Tex., with a 10-year stint as head of the science department at Vidor High School in that city, died Jan. 28 in Beaumont.

'22

Floyd F. Hunt (M.E.) died Feb. 21 in Bradenton, Fla. Prior to his retirement nine years ago he spent 20 years with Link-Belt Company, Indianapolis, in a production management position.

'25

Henry R. Iker (M.E.), a retired engineer with Mobil Oil Co., died Aug. 25 in Detroit, Mich.

Word has been received of the death Sept. 5, 1971 of **John M. Barr** (M.E.), formerly district manager of General Motors Corporation in Rochester, N.Y.

'28

Thomas M. Reed (M.E.), retired superintendent of electrical transmission and distribution, Ohio Edison Co., died Oct. 6 in Sun City, Arizona.

'30

George M. Renfro (C.E.), died Aug. 8 in Louisville, Ky. Prior to his retirement he served as an irrigation engineer for the U.S. Department of Agriculture for 31 years.

'31

Bruce C. Wells (E.E.), formerly senior engineer in charge of systems management and control for the Astronuclear Laboratory of Westinghouse Corporation in Large, Pa., died Dec. 30 in Pittsburgh.

'35

Frederick W. Wiles (M.E.), sales engineer for the Brown Diamond Co., died Sept. 12 in Barrington, Rhode Island.

'37

Jonathan F. Sonnefield (M.E.) died Feb. 25 in North Olmstead, Ohio. He was construction manager for Alcoa Aluminum Company at the time of his death.

'42

Clay W. Riley (E.E.) died Feb. 23 at LaGrange, Ill. Clay was project engineer for Pureco Systems, Inc., of LaGrange.

'61

Jon E. Stiles (M.E.), a member of the technical staff at the Bell Telephone Laboratories in Indian Heights, Ill., died Oct. 1 in Chicago.

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