

Spring 1975

Volume XIII - Issue 4 - Spring, 1975

Echoes Staff

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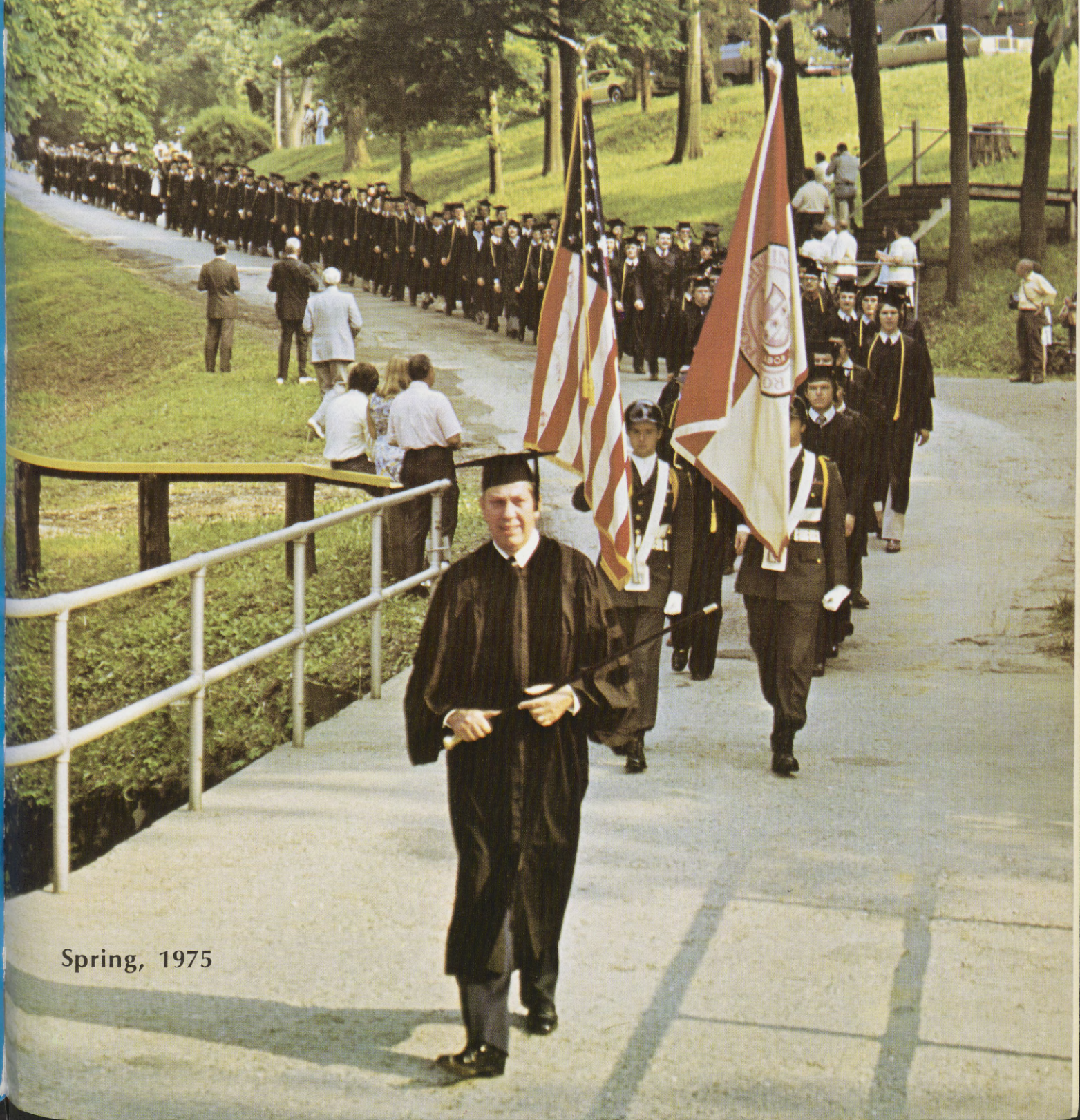
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ECHOES

Rose-Hulman Institute of Technology



Spring, 1975

ECHOES

ALUMNI MAGAZINE

Spring, 1975

Vol. XIII, No. 4

ROSETECH ALUMNI ASSOCIATION

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Senior Orientation

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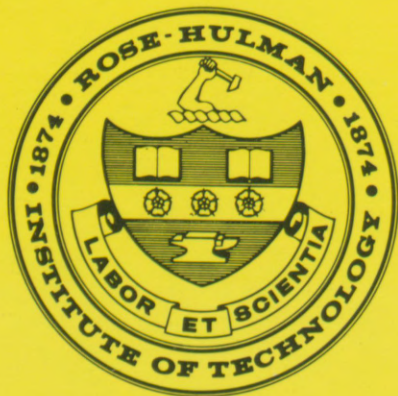
1972 to Annual Meeting 1976

Vernon E. Whitehouse '40

1974 to Annual Meeting 1978

W. Kent Harris

Editor



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The Cover

Dean Ralph M. Ross leads the procession from the Main Building to the Fieldhouse for the 1975 Commencement. Ross, who is retiring at the end of August, also received a degree at commencement--the Doctor of Science.

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Across the Campus

1974-75 was a very eventful year at Rose-Hulman Institute of Technology.

It marked the culmination of many things, including:

The final series of events in observance of the 100th anniversary of the school's founding by Chauncey Rose.

The senior year for some 215 men who became alumni at the 97th commencement May 23.

The "senior" year for veterans Ralph Ross, Jim Carr, Gordon Haist and Oran Knudsen, who retire with a total of 115 years of service to Rose.

The completion of the Learning Resources Center and the start of construction of the much-needed Recreation Center. This latter construction, of course, heralded the culmination of the 10-year Centennial Development Program initiated in 1965.

This issue of the *Echoes* is devoted to the events of Spring, and particularly commencement '75.

Dr. Fujio Matsuda, the first Rose-Hulman alumnus to become a university president, returned to his alma mater to deliver the commencement address. The University of Hawaii president and other fellow alumni--John A. Wagner '18 and H. Loren Thompson '34--were awarded the honorary Doctor of Engineering degree. Dean Ross was awarded the Doctor of Science.

Those attending commencement were greeted with the warmest day of the year to that date--85 degrees at the Hulman Field weather station prior to the commencement procession. One does not need Prof. Irv Hooper's class in Spring, 1975

air-conditioning to figure out that Shook Fieldhouse was one of the "hottest spots in town."

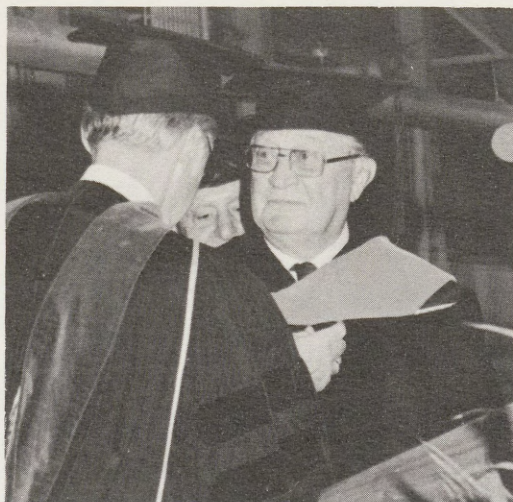
Dr. Matsuda delivered one of Rose-Hulman's better commencement addresses, and Professors Herman Moench, Al Schmidt and others added what is called Rose's family informality to the commencement.

Prof. Schmidt got one of the better responses with his departure from his prepared introduction of Dean Ross for the honorary degree. Listing Ross' many contributions, Schmidt interjected, "Ralph Ross has for 25 years practiced medicine without benefit of license or malpractice insurance. . ." Needless to say, Schmidt received a warm response.

The four honorary degree recipients, as presented by Dr. Herman A. Moench (Dr. Matsuda), Dr. J. Darrell Gibson (Wagner), Dr. Cecil T. Lobo, (Thompson), and Prof. Schmidt (Ross), are shown receiving the highest honor bestowed by the Institute (pages 2-3). Other honors given at commencement may be found on pages 4 and 5, followed by the texts of addresses by Dr. Matsuda and RoseTech President Robert Kahn on pages 6-8. Rose legacies are shown on page 9.

The appointments of Dr. Herbert R. Bailey as acting vice president of academic affairs and dean of the faculty and Dr. Jess R. Lucas to the post vacated by Dean Ross are reported on page 10, followed by additional "Across the Campus" news and class notes throughout the remainder of the magazine.

Honorary Doctorates



JOHN ARTHUR WAGNER
Doctor of Engineering

Mr. President, on behalf of the Board of Managers of Rose-Hulman Institute of Technology, I am pleased to present to you John Arthur Wagner for the degree of Doctor of Engineering. This high honor is awarded to him in recognition of his distinguished career as an engineer and as a business and civic leader.

After graduating from Rose Polytechnic Institute in 1918 with a degree in Mechanical Engineering, Mr. Wagner served with the U. S. Marines in France. In 1919 he joined the Wagner Casting Company of Decatur, Illinois, a firm founded earlier by his father. He became president of the company in 1933 and was later named chairman of the Board of Directors, a position he now occupies.

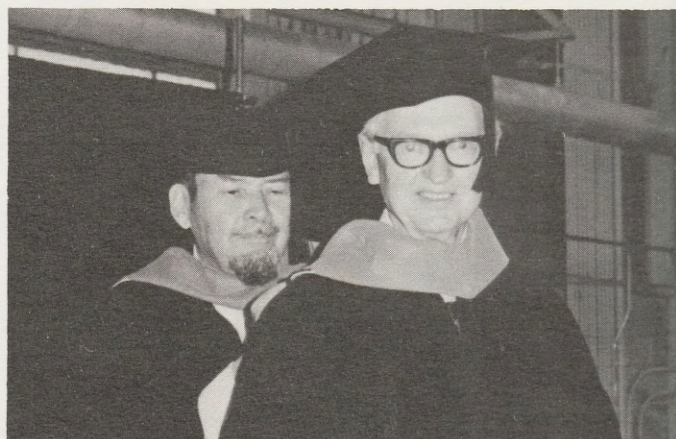
Under his leadership, the Wagner Casting Company has pioneered in the production and sales of malleable and nodular iron castings and furnishes to the automotive and small appliance markets over two million such castings each week. The company is recognized widely today as a leader in the small casting industry.

Mr. Wagner has served as both a director and the president of the Malleable Founders Society and in 1954 received the Charles H. McCrea Medal from that society "for his outstanding contribution toward progress and development in the malleable iron industry."

In 1973 the American Foundrymen's Society awarded him the Peter L. Simpson Gold Medal "for more than a half a century of magnanimous management leadership in production and research of the malleable and ductile segments of the cast metals industry."

Mr. Wagner has served as a director of the Citizen's National Bank in Decatur, Illinois, a member of the Chamber of Commerce, and also as a director and president of the Decatur Memorial Hospital.

In recognition of these outstanding accomplishments, the Board of Managers of Rose-Hulman Institute of Technology presents on this twenty-third day of May, 1975, John Arthur Wagner for the highest award of the Institute--the degree of Doctor of Engineering.



H. LOREN THOMPSON
Doctor of Engineering

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 H. Loren Thompson for the degree of Doctor of Engineering. This high honor is being conferred on him in recognition of his distinguished career as a civil and environmental engineer.

Loren Thompson graduated with honors from Rose Polytechnic Institute in 1934 with a B.S. degree in Civil Engineering. He earned his MSCE degree in 1940 from Michigan State College, and served as assistant professor of civil engineering at the University of Idaho and the Technological Institute at Northwestern University during the early years of his professional career.

Mr. Thompson entered private practice in 1945 and is currently president of the firm of Stevens, Thompson & Runyon, Inc., consulting engineers and planners, headquartered in Portland, Oregon. Since 1973, when STR joined CRS Design Associates, Inc., he has also been serving on the Board of Directors of CRS Design Associates.

During these past thirty years of his association with STR, Mr. Thompson's engineering achievements have been numerous and noteworthy. He has successfully directed various projects that include water and sewerage facilities, highways, airports, resource management, and urban planning. More recently he has been engaged in solving pollution problems and developing environmental protection programs.

Mr. Thompson's accomplishments have been duly recognized by the profession. He was voted Engineer of the Year in 1958 by the Professional Engineers of Oregon; he won the ASCE Outstanding Civil Engineer Award in 1970; and he has been a recipient of the Bedell Award of the WPCF. During his illustrious career, he has been very active in professional and civic organizations, having served on many important national and regional committees and advisory groups.

In recognition of his outstanding career and his national leadership in the field of consulting engineering, the Board of Managers of Rose-Hulman Institute of Technology presents, on this twenty-third day of May in the year 1975, Mr. H. Loren Thompson for the highest award the Institute may bestow, the degree of Doctor of Engineering.

Echoes



FUJIO MATSUDA
Doctor of Engineering

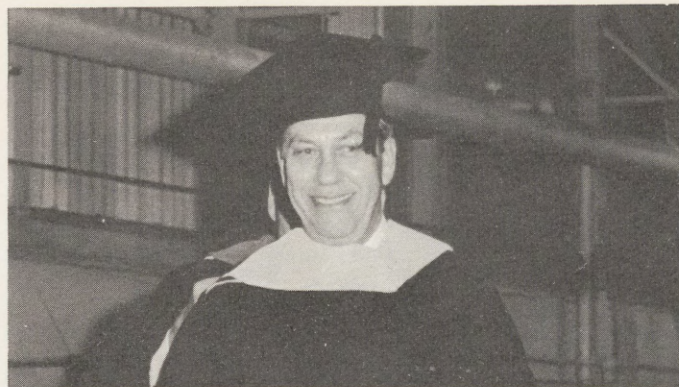
Mr. President, it is my privilege to introduce Dr. Fujio Matsuda for the honorary degree of Doctor of Engineering. Dr. Matsuda, the ninth president of the University of Hawaii, is a civil engineer whose distinguished career in public service has combined broad experience both as an administrator and an educator.

A native of Honolulu he was graduated from McKinley High School, and, for a time attended the University of Hawaii. In 1959 he received his bachelor's degree in civil engineering from Rose Polytechnic Institute, going on to graduate work at Massachusetts Institute of Technology where he received the degree of Doctor of Science in Civil Engineering in 1952. He returned to Hawaii to join the faculty of the University after service as a research assistant at MIT and at the University of Illinois. His university service was interrupted in 1963 when he became Director of Transportation for the State of Hawaii, a post he held for ten years. In this cabinet position, he was responsible for Hawaii's statewide airport, harbor, and highway systems. He returned to the University in May 1973 to become vice president for business affairs, supervising the University's budget, fiscal operations, personnel, security, and physical planning and development.

Effective as of September 1, 1974 Dr. Matsuda was installed as President of the University of Hawaii by action of the Board of Regents. In this important post he provides administrative leadership for the entire University system with an enrollment of more than 45,000 students. He has also served on numerous committees, commissions, and task forces appointed by the Governor of Hawaii.

Dr. Matsuda is a member of the National Academy of Engineering, the American Society of Civil Engineers, the National Society of Professional Engineers and the honorary societies, Sigma Xi and Tau Beta Pi. He has served as president and chairman of the Pacific Coast Association of Port Authorities and is a member of numerous boards of directors. In 1969 he received the Honor Alumnus award of our Alumni Association and was chosen Engineer of the Year by the Hawaii Society of Professional Engineers in 1972. It is a pleasure to present him for the degree of Doctor of Engineering in recognition of his outstanding contributions to education and government.

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RALPH MAURICE ROSS
Doctor of Science

Ralph M. Ross was born in Cloverdale, Indiana. He earned an A.B. degree in mathematics and physics from DePauw University in 1933 and an M.A. degree in mathematics from Indiana University in 1938.

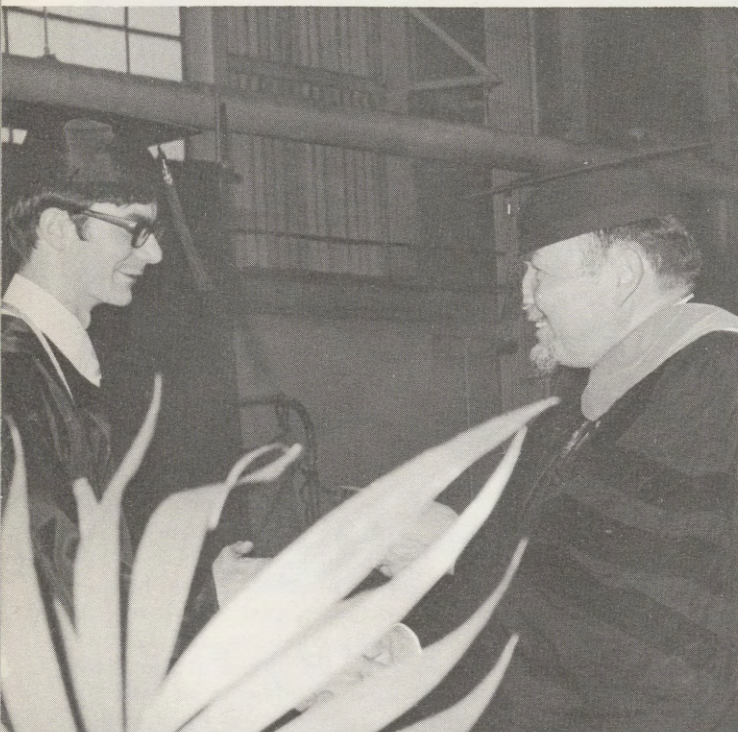
After serving as store manager for a grocery chain, he entered the teaching profession and was chairman of mathematics in high schools at Brownstown and Greencastle, Indiana. From 1942 to 1946, he served in the then Army Air Corps as a weather training-officer with rank of captain. In 1946, he joined the faculty of Rose Polytechnic Institute as instructor in mathematics and was appointed professor of mathematics in 1955.

Professor Ross assumed the additional duties as resident director of student housing in July of 1949. He was appointed as the first full-time Dean of Students in February, 1961 and as the first Vice-President for Student Affairs in 1973. During his twenty-five years as Chairman of Financial Aid, the student body has increased from about 400 to more than 1,000 students and the financial aid program from about \$30,000 to more than \$1.5 million. He has supervised the expansion of the varsity and intramural athletic programs in which some 80% of the student body now participates. Dean Ross was instrumental in establishing a regular infirmary and physician service on campus. His office now administers all student housing, the Hulman Memorial Union, all student organizations, the Athletic Department, the Financial Aid Office, the Student Counseling Office, and in addition he has maintained a steadfast and genuine concern for students in both their academic and personal lives.

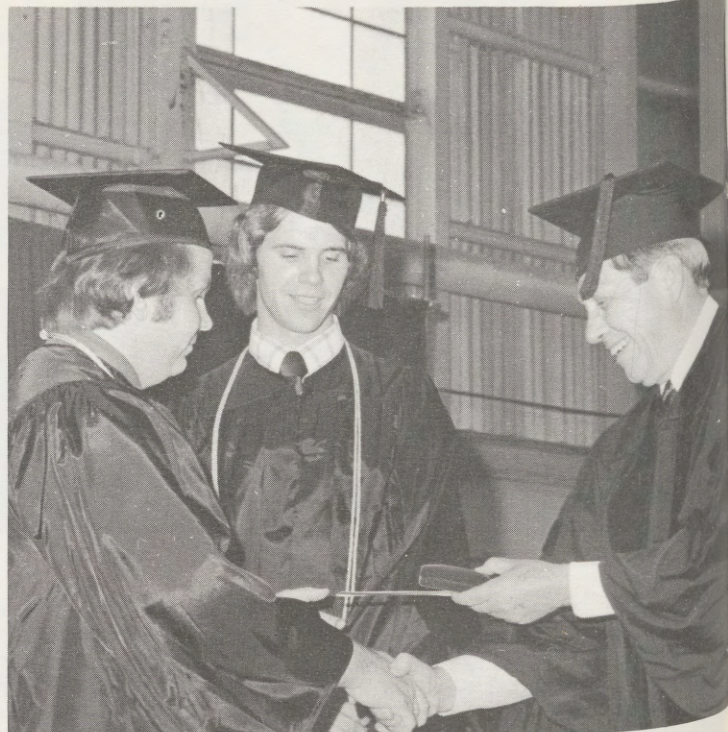
His civic activities include membership in the Terre Haute Rotary Club and the Maple Avenue United Methodist Church which he served as superintendent of education for many years.

If a meaningful measure of the quality of a person's life can be taken as the number of lives he has touched beneficially and to whom he has been of help when needed, then certainly the twenty-nine years Dean Ross has contributed generously and sincerely to the "Rose Family" should provide him the satisfaction of having tried and having succeeded.

In recognition of his long, varied, and dedicated service, it is with great pride that I present, on behalf of the Board of Managers of Rose-Hulman Institute of Technology, my teacher, colleague, and friend of many years, Dean Ralph M. Ross for the highest award the Institute may bestow, the degree of Doctor of Science, on this twenty-third day of May, 1975.



Dean Moench presents Heminway Medal to Gallagher.



Dean Ross presents Royse Award to Nelson and Farr.

Special Recognition

Tim Gallagher Wins Heminway Medal; Jack Farr, Art Nelson Share Royse Award

Timothy J. Gallagher of Louisville, who earned degrees in both mathematics and physics, was presented the Heminway Gold Medal as the top scholar of the Class of 1975.

Gallagher earned a 3.936 cumulative grade point average on a 4.0 system while pursuing the double degree. A National Merit Scholar at St. Xavier High School in Louisville, he scored at the 96th percentile national on the Graduate Record Examination and has been accepted for the graduate program in applied physics at California Institute of Technology.

While at Rose-Hulman, he was active in the astronomy and physics clubs and was tapped for membership in Pi Mu Epsilon, national mathematics honorary.

Two graduates whose overall contributions to the Rose-Hulman campus have spanned the broadest range of student activities were awarded the John Tuller Royse Award as the outstanding senior. The award is based on academic achievement, campus leadership and extra-curricular activities.

Jack Farr II, a biological engineering major from Martinsville, and Arthur R. Nelson, a mechanical engineering

major from Norman, were named co-recipients of the award.

Farr, who served as student body president his senior year, completed his degree with high honors distinction in March and currently is employed in the Intern-Education Division of Lilly Endowment, Inc., in Indianapolis. In August he will begin studies at the Indiana University School of Medicine in Bloomington.

A four-year starter on the Engineer football team at defensive tackle, Farr was co-captain two years, an all-conference selection and was named to "Outstanding College Athletes of America" and "Who's Who Among Students of American Colleges and Universities" his junior and senior years. A member of Sigma Nu social fraternity, he was tapped for Tau Beta Pi, national engineering honorary, and Blue Key.

As president of the student body, Farr served on the Committee on Student Affairs of the Board of Managers, and is the student representative on Rose-Hulman's Presidential Search Committee.

Nelson, who has accepted employment with E. I. DuPont in Nashville, Tenn., has excelled in a broad range of activities at Rose-Hulman.

Active in Lambda Chi Alpha fraternity, he has served as house manager and scholarship chairman of his fraternity and is a student member on the chapter's house corporation. He has been president of the Rose-Hulman chapter of the American Society of Mechanical Engineers as a sophomore, junior and senior.

Nelson also has been the driving force behind Rose-Hulman's band, which this year organized a dance band in addition to the pep band. He served as both vice president and president of the band.

Nelson also has been active as a counselor in Operation Catapult, an innovative program for high school juniors conducted each summer at Rose-Hulman. He will serve as head counselor at the Catapult program this summer and report to DuPont in the fall.

Retiring Jim Carr Honored As Dean's Outstanding Teacher

James H. Carr, the retiring 28-year veteran coach and director of intramural athletics at Rose-Hulman, received the eighth Dean's Outstanding Teacher Award.

In presenting Carr for the honor, Dr. James B. Matthews, vice president of academic affairs and dean of the faculty, said:

"The recipient for 1975 has earned the respect and admiration of students, faculty and staff through his conscientious effort and dedication to his work. Good teaching occurs both in and out of the classroom and although this man has never taught a course at Rose in the classroom, he has contributed significantly to the overall education of our students by teaching principles of fair play and teamwork on both the varsity and intramural playing fields. I consider myself to be very fortunate to be one of the nearly two-thirds of our living alumni who have benefitted from association with this truly outstanding gentleman and teacher."

A graduate of Indiana State University, Carr earned his masters at Indiana University and also holds the director's degree from Indiana.

He has coached basketball, baseball, football, cross country, tennis, and golf at Rose-Hulman in addition to serving as director of an intramural program which has active participation by 80 percent of the student body in more than a dozen sports and activities.

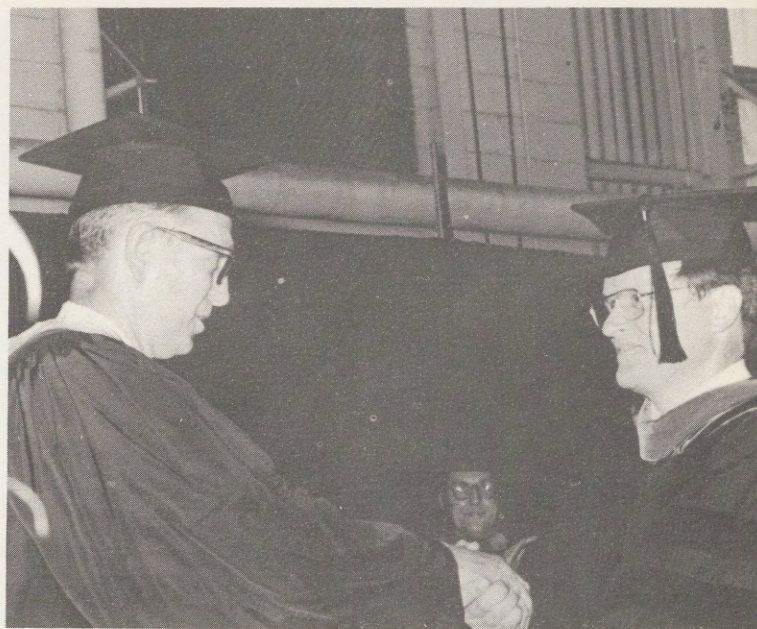
The Dean's Outstanding Teacher Award is comprised of an engraved desk set and a check for \$250.

Paul Phillips Receives President's Service Award

Paul G. Phillips, superintendent of buildings and grounds at Rose-Hulman, received the President's Outstanding Service Award. Sponsored by Indiana Bell Telephone Company, the award is presented to a member of the faculty or staff for outstanding service to the college.

Phillips joined Rose-Hulman in 1966 as assistant superintendent of buildings and grounds, a position he held until being named superintendent in 1974.

Spring, 1975

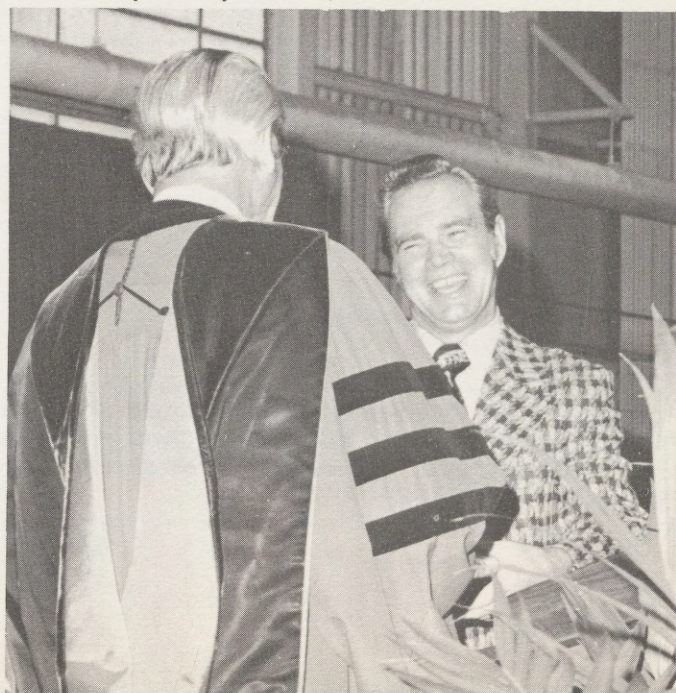


Dr. James B. Matthews (right) congratulates outstanding teacher and coach Jim Carr.

In presenting Phillips for the honor which consists of a plaque and \$250, President John A. Logan said:

"This award was established in 1971 for service to the Institute over and above an expected level of service and the selection is not made by a committee, but is the prerogative of the president, based on recommendations received. As usual it has been difficult this year to select the one person, among many, whose services to the Institute are of such a nature as to warrant the President's Outstanding Service Award. After a great deal of thought, I have finally selected a man who is largely responsible for making the Rose-Hulman campus one of the show places in Indiana. He has taken over a highly responsible position and has performed it with dedication, with conscientiousness, and always with a smile. It is a great pleasure to recognize at this time one who is a friend of the entire Institute, faculty and staff--Mr. Paul Phillips, superintendent of buildings and grounds."

Paul Phillips accepts Service Award.



Commencement Address

Aloha & and an international prescription for seeking the good life Mahalo

This occasion, auspicious as it is, arouses mixed emotions for an alumnus in my situation.

On the one hand, I feel deeply privileged and highly honored to be invited back to the college of my undergraduate years. A full measure of nostalgia overcomes me as I view this campus and recall happy memories of my student years.

But I also approach this forum with some trepidation, remembering that any speaker at a college commencement faces circumstances fraught with hazards.

While I prefer not to think back on how long ago it was, I can recall sitting on your side of this forum. As I remember it, a restless impatience and a dogged desire to get the ceremony over with was the prevailing mood.

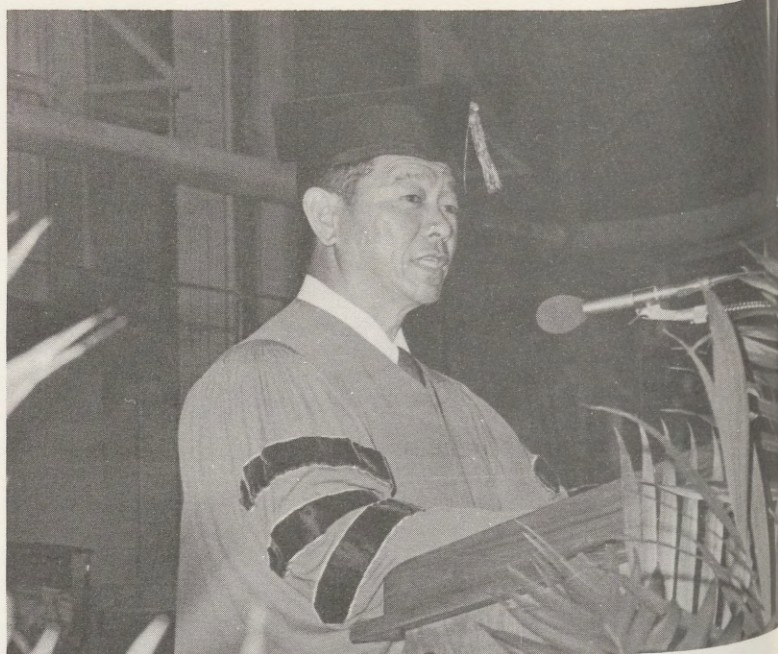
I suppose much the same feeling still prevails, and I do not blame you in the least for champing at the bit. There are friends and family waiting to get at you with hugs and kisses and perhaps even some tears of happiness. And out there in the world beyond the campus there is so much to be done, so many fresh challenges to test your newly developed talents and abilities.

Generally, such restless impatience is healthy; whether in youth or in those of us who are, shall we say, somewhat less youthful. There are any number of problems about us that could stand a good shot of enthusiasm and fresh insight to move them further toward meaningful resolution.

But if you will bear with me for a few moments, I should like to discharge the obligation that has brought me here today, some 4,000 miles from the vineyards of my own labors.

"A debt to be remembered and repaid."

I welcome this opportunity to return to Rose-Hulman because I feel a very strong desire to return whatever I can to this institution, where I was privileged to gain my own start in a professional discipline.



Dr. Fujio Matsuda

What I feel cannot be described simply in terms of alumni loyalty or of "old school ties." It goes beyond that and reflects the amalgam of Western and oriental traditions that are part of my own past. In the native Japanese of my parents, the appropriate word is "on." The word means, roughly translated, obligation -- a debt to be remembered and repaid.

The cultures of the orient place great value on tradition, on veneration of one's ancestors and the contributions they made in the past to shaping the present. Now, while certain characteristics of this culture may be more dominant in Asia than elsewhere, it is still true that they are not all that different from the values that went into building and shaping the cultures of the West.

Recently, I listened to a learned man speak, and what he said struck a deep and responsive chord. The man was Professor Leon Edel, the Pulitzer Prize-winner biographer of Henry James who occupies the Citizens Chair of English at my own University of Hawaii. Dr. Edel spoke of the values of tradition, of honoring the past and of the humility that ought to accompany lack of wisdom, knowledge, and experience.

"Life is rediscovery, reassimilation. . ."

He also spoke of universities not only as the preservers and transmitters of knowledge but also as guardians of civilized behavior. And among many other things, Dr. Edel observed:

"Part of . . . wisdom is the knowledge that life is not all innovation -- a word we overwork -- for there is really nothing new under the sun. Life is rediscovery, reassimilation, the constant and unremitting use of the past. That is the true innovation. Innovation is renovation. In our past lies our future, and when we fail to use our past, we undermine our future. When we fail to use experience, we undermine our wisdom."

When I was an undergraduate here, my concern, and that of many of my colleagues, was a mastery of technology. The challenges that lay before us seemed limitless -- for building great cities, grand and efficient systems of transportation and communication, and for a great technology. Yes, the challenges were there, and much was achieved by those of my generation.

"Great engineering feats in and of themselves cannot create a great society."

Yet, it has become increasingly clear that great engineering feats in and of themselves cannot create a great society. There are those who would even say that the quality of life has been threatened and even degraded by the very products of a technologically advanced world.

Personally, I do not share this rather simplistic view. By and large, the improvements all of us enjoy today, in terms of human convenience, comfort, safety, health and sustenance, represent a measure of success, not of failure.

To be sure, in some instances, we seem to have become slaves rather than masters of our technological creations. The fact remains, too that our achievements have been dear in ways not immediately foreseen. Our great engineering feats did not ensure equally great advances in improving in human condition.

Some social scientists and observers of the American scene have made a virtual career out of analyzing what they describe as a general malaise pervading this Nation. They tend to cite certain common factors as underlying causes of the distress they observe: our troubles in Southeast Asia, the national shame of Watergate, and a domestic policy that seems to lead us only closer to breadlines. It is a bleak prospect for the future that they paint for us. At best, it is terribly uncertain.

I suspect the doomsayers overlook an important consideration.

That venerable black athlete, Satchel Paige, whenever he was asked about the mystery of his agelessness or his competitive philosophy, used to reply simply, "Never look back." In his context, he was entirely right.

But for any society, there are times when its members must look back if they are to properly chart a course for the future. George Santayana suggested that, "Those who cannot remember the past are condemned to repeat it."

In our Nation's Capitol, engraved over the facade of the National Archives, are the words of a poet: "What is past is prologue." The reminder is well placed. Perhaps our national policy-makers should pay greater attention to Shakespeare's words of wisdom.

In the history of our country and of all great civilizations, there is much by which we can be guided to secure a firmer future for all of us.

It is appropriate, then, that in this year of our Nation's Bicentennial, Americans are focusing on their past. We are celebrating the American Revolution and 200 years of experience as a Nation. Underlying it all, there seems to be an attempt to recapture some of the meaning and purpose that produced this country two centuries ago.

We have always lived "in the best of times, the worst of times."

They have been the best of times when man has risen to new challenges and adversities, applying his knowledge, his experiences, and his wisdom for the advancement of society in general; when man was master of his own destiny.

They have been the worst of times whenever man became enslaved by his own creations and thus fell victim to a life of personal gratification.

In the best of times, we have had leaders who have inspired their people to join their individual talents and abilities in common cause, placing human values above material gain.

As a Nation, we are relatively young. Yet, we are rich in many traditions. We have a wealth of cultures and customs that enrich the lives of all Americans. We are so because of our finest tradition: that of welcoming all peoples to join with us in the continual building of a new kind of society in our country. Those who come from across the Atlantic are greeted by a stirring symbol of our free society and by the comforting words, "Give me your tired, your poor, your huddled masses yearning to breathe free. . ." This Nation has not yet turned its back on those who have come here with new hope seeking a new life.

"The American Bi-Centennial celebration should be a celebration of success."

And each wave of newcomers has added new luster to our total cultural fabric, blending into our society the history and the culture of older civilizations. To reject them would be contrary to the humanitarian principles upon which our Nation is based and to close our eyes to history and condemn ourselves to repeating the mistakes of societies that have fallen because they have turned inward to the exclusion of new blood and new ideas.

Two hundred years ago, Americans looked at their world and decided to change it. They succeeded against enormous odds. We are the heirs of their success and of their vision in forming the kind of government that is designed to accommodate continuing change.

Our celebration of the American Bicentennial should be a celebration of success -- of what can be achieved. We can achieve all that we desire for ourselves and for future generations if we are willing to commit ourselves and make the necessary sacrifices.

Let us view this as the best of times, not the worst. If I am optimistic, it is because I feel that in a real sense what has happened to many of us reflects the greatness and strength of this country. I note that President Logan's parents were immigrants from Scotland. My parents were immigrant laborers from Japan. But their position in society did not determine my life, nor Dr. Logan's. Rather, it was the opportunities that one had as an American citizen to develop fully whatever limited capabilities he possesses -- the opportunity, for example, afforded me by Rose-Hulman to receive a first-class engineering education, and thus to contribute to the extent of my capabilities to our society.

Recently, the Queen of England made an unexpected visit to our State. As President of the University of Hawaii, I was invited to join the Governor of Hawaii at a small dinner given in honor of our visiting royalty.

Only in America can the son of a man who came to this country as an immigrant laborer have the opportunity to dine with the Queen of England, or be the Governor of a State, or the head of a multi-national corporation, or a university president for that matter.

I am optimistic, too, because I am continually inspired by the vitality and the zeal demonstrated by the majority of our college students -- I am sure students at my own school are representative of you and your colleagues across the Nation.

If you feel moments of uneasiness and uncertainty, I suggest you remind yourselves of the rich and honored chapters in our past, of our Nation's history, and of the history of all mankind.

We have much to be proud of, as Americans and as citizens of a world shaped by technology into the spaceship earth on which all mankind is inextricably bound together.

The technological skills you have acquired here and which, I am sure, you will continue to hone and expand through experience and continued learning have equipped you to make your own valuable contributions to our society.

I only urge you to be ever mindful of the past in meeting your future obligations.

Alumni Association Message

Welcome, Designers of the Future. . .the Challenges Are Many

Now it is my official function, and pleasure, to welcome all of you who are about to receive degrees into the RoseTech Alumni Association -- and to the uncertainties of life in Bicentennial America.

There are about eight times as many graduates in the class of '75 as there were in my class -- there were only 29 of us. That's probably very fortunate because you probably have eight times as many problems to solve. Actually you really don't have more problems, just different ones. When I was graduated in 1939 World War II was about to begin. Today, your challenges are more economic and social and less political.

Be pragmatic enough to cope with these different problems yet philosophical enough to recognize the opportunities inherent in change. Like your predecessors, the

There is always more reason to hope than to despair. You embody this hope for America. Let past glories inspire you. Let past failures teach you.

I cannot conclude my remarks without paying tribute to our great president, John A. Logan. Through his wisdom and leadership he has built Rose-Hulman into one of the great undergraduate Science and Engineering Institutions in our country. Rose-Hulman has been extremely fortunate to have this great engineer-educator to lead it for the past 12 years.

Finally, I want to congratulate the graduates, and in the words of the Polynesian culture from which I come, I bid you Aloha -- peace be with you -- and Mahalo -- thank you for the privilege of addressing you today.

Class of 1975 will be confronted by both bad news and good news.

In the category of bad news, I suggest that you must reconcile yourselves to the fact that the era of cheap, easily exploitable natural resources is gone forever. Inexpensive food, energy, and raw materials have very suddenly become things of the past for America. The time of primary exploitation in our country is over, and now the third world, which has watched our conspicuous consumption, is demanding a larger share for its remaining raw materials.

One consequence of these new trends is that ever increasing affluence for you and me is no longer a statistical certainty. Our rate of economic growth may well remain modest by recent standards. And because our national affluence will moderate, we will learn to husband our material resources, to practice prudence in our consumption. The word "durability" will achieve greater respectability. Not only must you learn to design products for a longer useful life, but you must also learn to design and manufacture these products for their eventual recycling. Those of you who practice engineering will also, I hope, avoid the sin of what I call "over-specification." If you don't, the time at which you start mining sanitary landfills will be closer than you think.

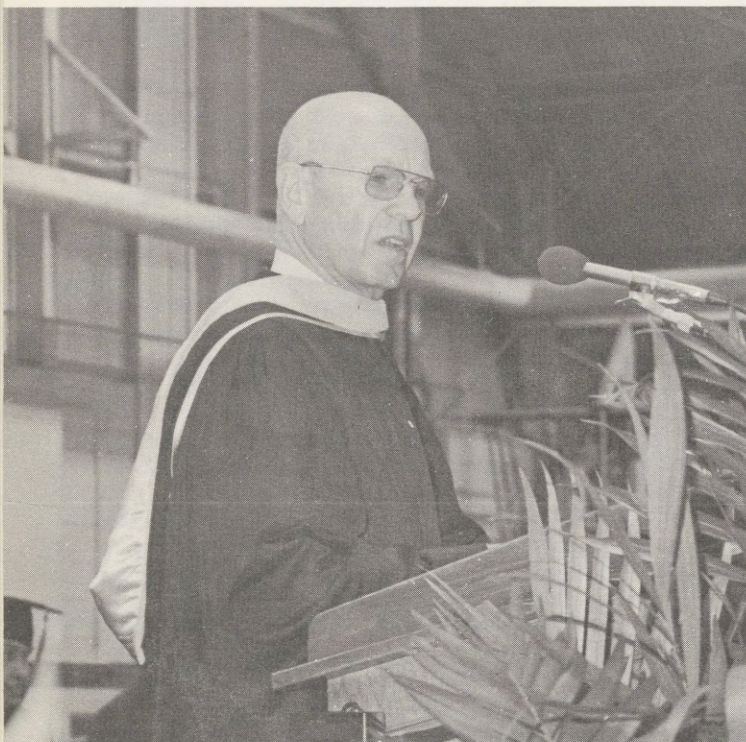
But the good news is that the scarcity of material resources will compel us to make better use of our human resources. One indication is the tremendous strides that the United States has taken to provide equality of opportunity.

The business world today is far less rigidly structured, less concerned with tables of organization, more flexible than ever before. You are entering a business world which is adopting a more nearly amorphous structure and, increasingly, managers are looking for people who consider a job description as only a beginning element in their careers, the others involving initiative in identifying and verbalizing problems and then designing solutions to them.

You are joining the Rose-Hulman Alumni Association during a particularly difficult economic time period. Difficult, yes -- degenerate, no. I for one do not believe that some future historian will label 1975 as the beginning of the decline and fall of almost everything. Quite the contrary. You, who are the designers of the future, will have the opportunity to participate in the construction of newer and better economic and social bases upon which to build.

Again, we welcome you.

Echoes

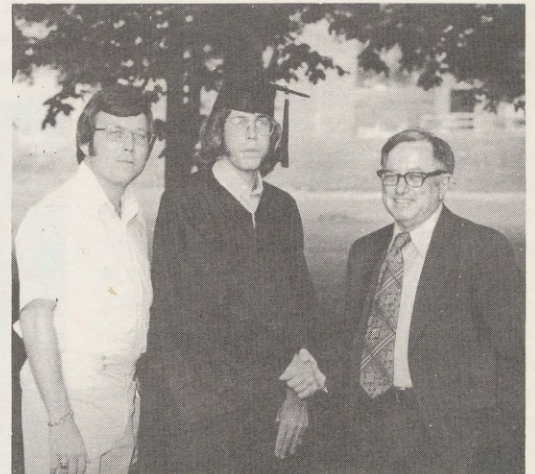


RoseTech Alumni President Robert Kahn '39.



'75 LEGACIES--Posing in front of the Main Building at Rose for the annual father-son graduate picture were (left to right) Malcolm Meurer (July '49) and son Doug, Ralph Mitchell (June '47) and son Jim, Jesse Cook (Jan. '49) and son Randy, William Turner (Feb. '43) and son John, Charles Cooper ('56) and son Gary, P.D. "Dave" Smith (Aug. '50) and son Larry and Sid Zeid (Nov. '49) and son John.

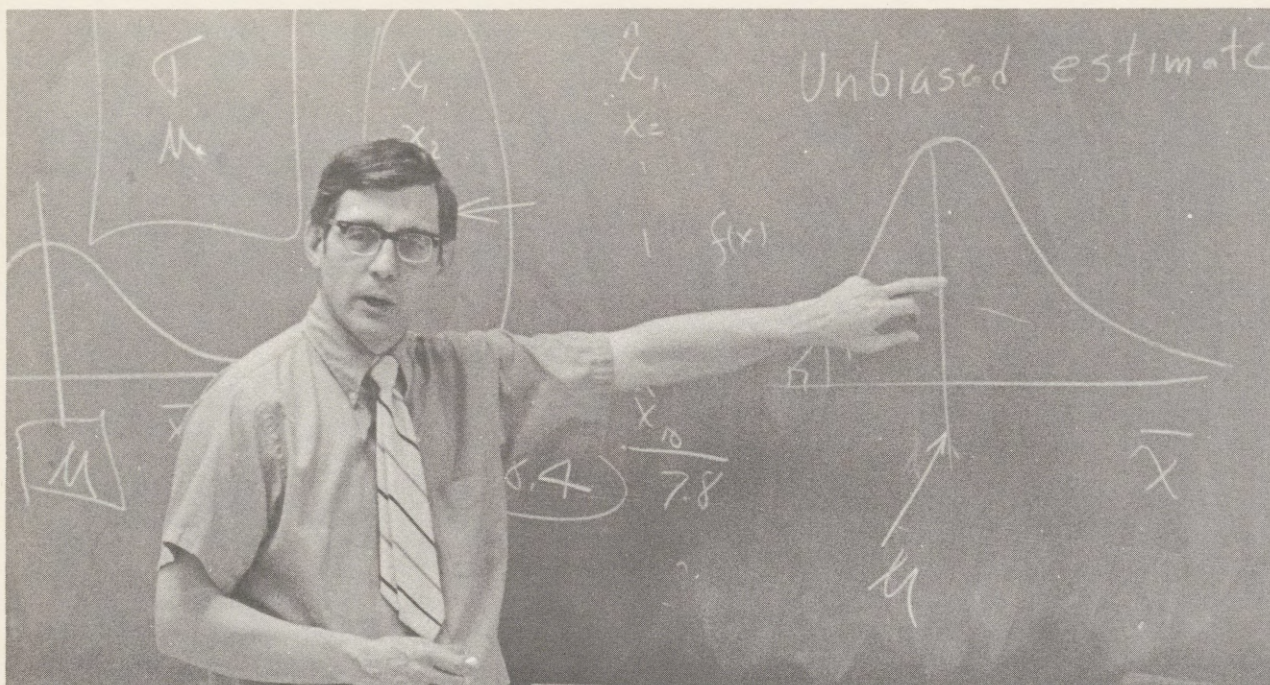
Chuck Schilling gets bars.



Student wives recognition.



ROSE MAN NO. 4--Andrew Spence, a 1931 graduate in chemical engineering, congratulates No. 3 son, Robert, following his graduation from Rose-Hulman in May. Brother Bill '68 (left) also adds his congratulations. Andrew, Jr., who was graduated in 1969, was not able to attend the '75 commencement.



Dr. Herbert R. Bailey

Bailey Named Academic Dean as Matthews Returns to Teaching; Lucas Succeeds Ross

Dr. Herbert R. Bailey, professor and former chairman of the division of mathematics at Rose-Hulman, has been named acting vice president for academic affairs and dean of the faculty at Rose-Hulman, effective September 1.

The appointment came following the request by Dr. James B. Matthews to return to full time teaching in mechanical engineering. Dr. Matthews had been academic dean since 1970.

A native of Denver, Colo., Dr. Bailey is a graduate of Rose-Hulman, having earned a B.S. in electrical engineering in 1945 and a B.S. in chemical engineering from the Institute the following year. He continued his education with an M.S. in electrical engineering at the University of Illinois in 1947 and in 1955 was awarded a Ph.D. in mathematics from Purdue University.

A teacher of mathematics at General Motors Institute from 1947 through 1949, Dr. Bailey served as research mathematician for the U.S. Naval Ordnance Plant in Indianapolis through 1952. Upon completion of the Ph.D. he

joined the Marathon Oil Company Research Center in Littleton, Colo., and worked as a researcher and mathematician until joining the Martin Company of Littleton during 1961-62.



Dr. James B. Matthews

Dr. Bailey has a number of publications in the fields of oil recovery (heat flow and fluid flow), bi-mathematics relating blood flow and oxygen supply, and the bending of beams.

Returning to education, he was associate professor of mathematics at Colorado State University from 1962 through 1966. He joined the Rose-Hulman faculty in 1966, serving as chairman of mathematics until 1973.

While at Rose-Hulman Dr. Bailey has been chairman of the faculty athletic committee, chairman of the search for the chairman of humanities and social sciences and currently is executive secretary of the presidential search committee at Rose-Hulman.

He was named Teacher of the Year by Triangle Fraternity and in 1973 was named to receive the annual Dean's Outstanding Teacher Award. In addition to his duties at Rose-Hulman, Dr. Bailey serves as a consultant to the Brunswick Corporation in Chicago.

A native of Terre Haute and a 1954

Echoes

graduate of Rose-Hulman in mechanical engineering, Dr. Matthews earned his masters at Massachusetts Institute of Technology in 1959 and a Ph.D. in aerospace engineering at the University of Arizona in 1966.

Dr. Matthews has been on the faculty at Rose-Hulman since 1956, having returned to teach at his alma mater following two years service as an officer with the U.S. Army Corps of Engineers.

Following a leave of absence to complete the Ph.D., he assumed the chairmanship of the mechanical engineering department in 1966. Dr. Matthews was named dean of the faculty in early 1970. In 1971 he was named vice president for academic affairs.

Recognized as an outstanding teacher, Dr. Matthews received the Society of Automotive Engineers' Ralph Teetor Educational Award and the Outstanding Young Educator Award presented by the Terre Haute Jaycees in 1968. He also is listed in Outstanding Young Men of America (1968), Who's Who in American Education, Who's Who in the Midwest and American Men of Science.

Lucas Headed Counseling Office at RHIT Since 1968

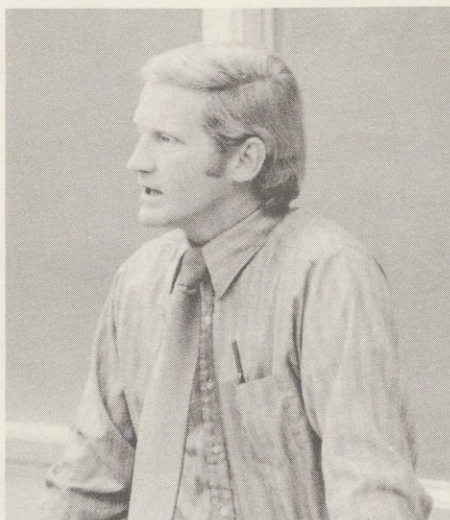
Dr. Jess R. Lucas, director of counseling at Rose-Hulman since 1968, has been named acting dean of student affairs at the Institute. The appointment is effective September 1.

In his new position, Dr. Lucas will fill the vacancy created by Ralph M. Ross, who is retiring Aug. 31 after 29 years with the Institute as a teacher of mathematics and vice president and dean of student affairs.

A graduate of Indiana State University in 1962, Lucas earned an M.S. in the supervision of guidance and a Ph.D. in guidance and psychological services from ISU in 1965 and 1970 respectively.

Prior to joining Rose-Hulman as director of counseling and assistant professor of psychology, Dr. Lucas was a teacher and coach at Terre Haute Garfield High School (1962-66), a research associate at the Wabash Valley Supplementary Education Center (1967) and a counselor in the student counseling center at ISU (1967-68).

Active in civic affairs, Dr. Lucas has been president of the South Vermillion Community School Corporation Board of Trustees since July, 1974. He also is



Dr. Jess R. Lucas

on the board of directors of the Clinton Golf Association and is a member of the Clinton Lions Club.

Terre Hauteans Royse, Ragle Named to Board of Managers

The Board of Managers of Rose-Hulman Institute of Technology named two prominent Terre Hauteans to its ranks as the governing body of the Institute met in its Winter meeting in February.

Elected to five-year terms on the board were John N. Royse, senior vice president and trust officer for the Merchants National Bank of Terre Haute, and Jack Ragle, president of Graham Grain Company, with offices in Terre Haute and Shelburn.

A native of Terre Haute, Royse was graduated from Amherst College in 1956 and the Graduate School of Banking of the University of Wisconsin in 1967. He served three years as an officer in the U.S. Air Force and prior to his return to Terre Haute in 1963 was employed at

During his tenure at Rose-Hulman he has been foreign student adviser (1968 to present); adviser to the Inter-Fraternity Council (1968 to present); chairman of the Student Organizations Committee of the faculty (1970 to present); and has sat on the Admissions and Standing and Rules committees of the faculty.

In 1973 he was named associate dean of student affairs in addition to his duties as head of counseling and a teacher of psychology. He served as varsity golf coach during the 1973 and 1974 seasons.

Dr. Lucas, whose doctoral research dissertation was in the area of persistence and withdrawal of capable students at Rose-Hulman, has been instrumental in developing a number of tests and programs related to student retention at a rigorous academic school such as Rose-Hulman.

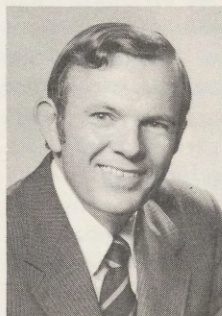
American Fletcher National Bank in Indianapolis.

After service in the correspondent division and as assistant cashier at AFNB, he joined Merchants National Bank as an assistant vice president. Royse was promoted to vice president in 1965, vice president and trust officer in 1970, and in 1973 was promoted to senior vice president and trust officer.

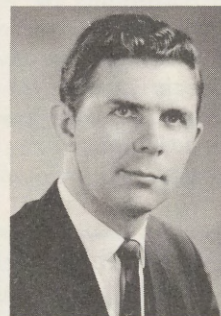
Royse is a third generation member of the Board of Managers of Rose-Hulman. His father, the late John T. Royse, was named to the Board in 1937, serving as treasurer for many years prior to his death in 1970. Royse's grandfather, James S. Royse, was elected to the board in 1908 and at the time of his death in 1929 was serving as its president.

A native of Terre Haute and a graduate of Wiley High School, Ragle served in the U. S. Army and was associated in business in Alabama and Illinois prior to returning to Terre Haute to enter the grain business with his father-in-law, the late Carl Graham.

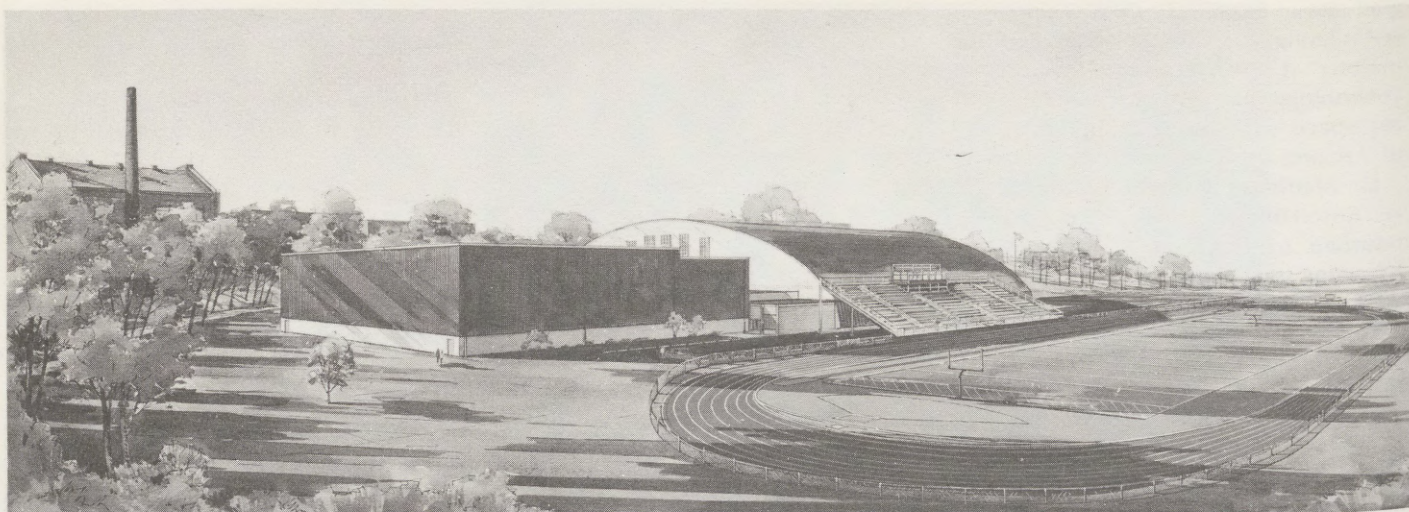
An innovator, he is a prime example of a business man serving the changing needs of the modern farmer. Under his direction, Graham Grain has developed and grown into one of the largest and most efficient grain concerns in the two-state area.



Royse



Ragle



Artist's rendering of new recreation complex and "new look" for Phil Brown Field.

Recreation Center Under Construction

Rose-Hulman's long-awaited recreation center will be a reality in early 1976.

The Board of Managers approved a \$1 million package at its Winter meeting in February and instructed school officials to proceed immediately with the project.

Groundbreaking followed on the eve of Parents' Weekend (April 4) and workmen were seen on the job within two weeks of the first ceremonial spadeful of earth thrown out by board members, administration, coaches and students.

A target date of early January has been set for completion of the new building sited east of Shook Fieldhouse. Other outdoor improvements including the draining, crowning and resodding of Phil Brown Field and the installation of an eight-lane all-weather track are expected to be completed in early September.

Marsh, Inc., of Terre Haute is in charge of design and construction of the intramural gymnasium housing two basketball courts, a multipurpose room to accommodate wrestling, karate and exercise, two handball courts and expanded locker and shower facilities.

New bleachers, press box, goal posts, and a scoreboard are part of the renovation of the football and track facilities. Other outdoor improvements include the draining and crowning of Art Nehf baseball field and intramural playing areas and the construction of two additional tennis courts.

The need for the facilities has been evident for a number of years. Drainage problems at Phil Brown and Art Nehf fields has made completing home schedules in football and baseball a risky business in recent years. In fact, during the 1973 season only one home

game was played at Phil Brown Field.

The intramural program has outgrown both outdoor and indoor facilities some time ago. During the Winter term there were 55 intramural basketball teams and 35 volleyball teams vying for space in Shook Fieldhouse.

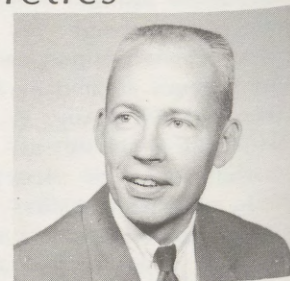
Rendel to Replace Veteran Carr As Head of Intramural Athletics

James F. Rendel, assistant professor of physical education and head baseball coach at Indiana State University, will replace 28-year Engineer veteran James H. "Jim" Carr as director of intramural athletics and coach in September.

Aside from sharing the same first name the two Jims have much in common: a quiet, gentlemanly air of confidence, a knowledge of athletics and recreation and whatever it is that makes a man a good coach.

A product of Gary Wallace High School and a 1961 graduate of Earlham College, Rendel was head baseball coach at ISU for eight seasons. He earned a master's degree at ISU in 1965 and for the last 10 years had been an instructor in physical education.

The 44-year-old Rendel, active in Terre Haute Connie Mack baseball, came to Terre Haute from Richmond where he was executive director of that city's Boys' Club from 1961 through 1964.



Rendel

Carr, who joined the Rose-Hulman staff as head basketball coach in 1947, has coached or assisted in every sport but track and field in the intervening years.

He reorganized the basketball and baseball programs in 1947, coaching both sports for 16 seasons. He also assisted Phil Brown in football.

Named director of intramural athletics in 1963, Carr was responsible for broadening the varsity athletic program to include cross country, tennis and golf, sports which have been very successful at Rose-Hulman.

RHIT Honors '75 Retirees

Four professors--Oran M. Knudsen, Gordon K. Haist, Ralph M. Ross and James H. Carr--whose service to Rose-Hulman totals 115 years and Health Director Mrs. Ruth Held, who is retiring after 10 years at the Institute, were honored with a retirement dinner March 25.

The dinner undoubtedly recognized the largest "retirement class" in the history of the Institute and in many respects signaled the start of a major "changing of the guard" at Rose-Hulman.

Professors Knudsen, Haist and Ross joined the faculty during the post-World War II expansion period in 1946 and Carr came on board the following year as the second man in the athletic department. With their departure only five members of the faculty have tenures of service to Rose-Hulman which began before 1950.

As they retire, they take with them the legacy of having taught with revered professors Carl Wischmeyer, Clarence Knipmeyer, Orion Stock and Clarence Sousely who had been on the faculty from 30 to 50 years at the time of their retirement in the early 1950s. Then there came the placid '50s, the Centennial Develop Program and the expansion of the '60s, and the belt-tightening '70s. In sum, the four retirees of 1975 represent a wealth of experience and insight into Rose-Hulman.

Some of their milestones and accomplishments include:

Professor Knudsen: A native of Utah, Dr. Knudsen served as chairman of the chemistry department from 1952 until 1970. He earned a B.S. in chemistry at the University of Wisconsin in 1933 and the Ph.D. at New York University in 1938 and taught at Alfred (N.Y.) College, Long Island University and Michigan State University prior to moving to Rose. He also has made significant contributions to highly classified research for the government.

Although his work in the classroom always came first, he has worked closely with academic affairs and the educational philosophy of the school.

Spring, 1975



THANKS FOR A GOOD JOB--Retirees Oran M. Knudsen, Gordon K. Haist, James H. Carr and Ralph M. Ross are flanked by Herman A. Moench (left), senior vice president, and Dr. John A. Logan (right), president, for a photograph taken at the recognition dinner this spring. Seated from left are: Mrs. Knudsen, Mrs. Haist, Mrs. Ruth Held, who is retiring as school nurse, Mrs. Carr and Mrs. Ross.

He was chairman of a committee which recommended expansion of the curriculum to include degree programs in chemistry, physics and mathematics. He has either chaired or been active on practically every look at the philosophy and academic development undertaken in the last 20 years. Dr. Knudsen also chaired the faculty committee which worked with the Board of Managers on the selection of Dr. John Logan as president.

Professor Haist: A native of Olney, Ill., Prof. Haist was graduated from North Central College, Naperville, Ill., with a B.S. in English literature and social science in 1932. He later earned an M.A. in English literature from Northwestern in 1935 and studied at the Institute of General Semantics in Chicago in 1939 and 1940. Prior to joining Rose-Hulman he was editor of the weekly *Naperville Sun* (1936-38), taught in the adult education program at Glenbard, Ill., (1939-40), and was assistant to the personnel director of Lindberg Engineering Company of Chicago from 1941 through 1946.

Although he has taught a majority of the general education offerings of the humanities department, his speciality is literature and writing and semantics. He succeeded Dr. John L. Bloxsome as

chairman of humanities, serving in the position from 1961-65 and 1966-71. During this period he was responsible for the development and implementation of the general humanities core program and was active in the Liberal Studies Division of the American Society for Engineering Education. He served as editor of the ASEE division newsletter. (1964), vice chairman and program chairman (1965), and chairman and initiator of a study of liberal studies in engineering education in 1966 which later was to result in the ASEE-Carnegie Olmsted Report in 1968, a report of broad significance in engineering education.

The careers of Dean Ross and Coach Carr, which are capsuled on pages 3, 5, and 12, also have been marked by exemplary service.

And as banquet emcee Prof. Al Schmidt put it, "Anybody who has the patience to nurse all the hypochondria around here deserves our condolences and a hearty round of applause."

One of the highlights of the evening at the Country Club of Terre Haute was the viewing of a campus movie filmed and edited by Wilfred Johnson, '55 during his days as a student. Times and people have changed, but not really all that much.

'74-75

... The year of the Bell



**The Monon Bell
and five CAC Championship
bells won by Engineers**

There was much to celebrate on the Engineer sportscene during 1974-75 as Rose-Hulman joined the prestigious College Athletic Conference and proceeded to win five of seven team championships. One might say it was "the year of the bell."

It all started in the fall as the football and cross country teams won CAC championships on the same day. The basketball team, while getting off to a slow start, placed second in the conference, and the spring sports crews dominated the annual Spring Sports Carnival hosted this year by the University of the South at Sewanee, Tenn.

To recap:

Football was 5-3-1 enroute to the CAC title; cross country was 6-0 and won the CAC; basketball won 11 of its last 16 games for a 14-10 season; baseball boasted three good pitchers in posting a 12-6 season and CAC championship. Track and field was 6-3 on the season and won both the CAC indoor and outdoor meets. Golf continued to be strong with an 8-2 mark in regular season play and the CAC championship. Only tennis, which was 3-3 on the regular season, failed to make any headway in the tennis-strong CAC. The rifle team, while not a participant in the CAC, won national recognition while knocking off the likes of Big Ten schools in both shoulder-to-shoulder and postal meets (rifle was 6-2 in dual meet competition,

losing only to Ohio State and Minnesota).

Dennis Dierckman, a two-sport long distance runner who earned All-America recognition in cross country in the fall, was presented the Ruel Fox Burns Blanket as the senior varsity athlete who has contributed most to the total athletic program during his four years at Rose.

Dierckman, who was voted the most valuable runner on the 1975 College Athletic Conference champion track and field squad, was cited as the top track point-getter for 1975, and the school and conference record-holder in the two-mile indoor run (9:10), three-mile outdoor (14:20) and five-mile cross country (25:53.5).



1975 Blanket Award winner Dennis Dierckman, All-American in Cross Country.

Two other Ruel Fox Burns Blankets were awarded to top performers Coach Jim Carr, who in 27 years has coached every sport but track and field, and Ralph Ross, the school's first and only dean of students—a man who like Carr has scored "thousands of points" for athletics and recreation in his behind-the-scenes participation at Rose-Hulman.

The Old Jock Award, presented annually to a person for outstanding support of the athletic program, was awarded to Dr. Glen Baca, assistant professor of chemistry and a member of the faculty athletic committee.

Steve VanDyck, a sophomore from Grafton, Wis., was voted MVP in basketball. Backcourt running mate Mike Griggs, a sophomore from Mendon, Ohio, won the free throw award with an 89.7 percentage, while freshman Dave Sutherland of Chicago garnered the rebound award with 241 caroms.

In rifle, senior captain Tom Heimbarger of Indianapolis was named the MVP. Heimbarger was a four-year regular on the Engineers team which won 1975 national competition sponsored by the society of American Military Engineers.

In addition to Dierckman's two awards in track, Tony Allen, a freshman from Indianapolis was named the most valuable field events man. He won a majority of first places while competing in the pole vault, long jump and triple

(Continued on page 18)

Echoes

Burns Toasts Athletes; Is Honored

About 30 minutes before kickoff for Rose-Hulman's home football games a white-haired gentleman with a natty mustache emerges from a sporty station wagon, pulls two or three lawn chairs from the rear of the vehicle and takes his usual station at the northwest corner of Phil Brown Field.

For basketball, it's much the same story--the northwest corner of Shook Memorial Fieldhouse. A two-man auditorium seat is provided, courtesy of the athletic department.

The man who occupies these accommodations is Ruel Fox Burns, Sr., a 1915 alumnus and the Engineers' No. 1 sports fan. He has earned the distinction for having witnessed more Engineer athletic contests than any other fan. His moral and financial support of Rose-Hulman and its athletics spans more than 60 years.

Burns, who is chairman of the board of Weston Paper and Manufacturing Company of Terre Haute, has for many years believed that Engineer athletes do not receive a measure of credit that is due them.

So this spring he did something about it. Burns was instrumental in organizing what was to be called the Centennial Banquet in honor of Engineer athletes and the pep band.

The formal banquet and dancing to Rose-Hulman's recently formed dance band on the evening of April 25 was perhaps the social highlight of the year at Rose-Hulman. And, yes, Fox Burns was the best ballroom dancer on the floor.

The evening was fitting recognition for the Engineer athletes who were to go on to win five of seven team championships in their first year of competition in the College Athletic Conference. It also provided the opportunity to honor some key individuals for contributions to athletics and recreation.

Burns was honored with the announcement that the blanket award presented annually to the outstanding senior athlete would thereafter be named the Ruel Fox Burns Blanket Award. The athletes also presented their No. 1 fan with a director's chair.



Ruel Fox Burns

Dr. John Logan, winner of such an award for his athletic prowess at the University of Saskatchewan, was presented the first Burns Blanket in recognition of his role of champion for athletics and recreation at Rose-Hulman.

Team physician Dr. Clyde Jett and No. 1 distaff fan Mrs. Norma Logan received letter jackets on the occasion.

Although there was no head table nor speeches, Burns gave the students a challenge during brief remarks. "I fondly remember my days at Rose," remarked Burns. "We worked hard, but we had a lot of fun."

Relating some pranks common to Rose in the early teens, he said, "Start your own traditions, have some fun."

News From Alumni

'30

John W. Rockwood (C.E.) has retired from Owens Corning Fiberglas Corporation in Toledo, Ohio, where he had been manager of account relations and building materials of the Home Building Products Division. Rockwood, who formerly was manager of national distributor sales for Owens-Corning, had been with the corporation since 1961. He formerly was president of Tiger Brands Division of Basics, Inc., of Cleveland, Ohio. The Rockwoods reside at 1911 Potomac Drive, Toledo, Ohio 43607.

'34

Howard C. Barnes (E.E.), who last year was named to the National Academy of Engineering, has assumed a position as vice president for power and environmental systems for Chas. T. Main, Inc. Barnes, who spent 35 years with American Electric Power Service Corporation, formerly was vice president of engineering for AEP. He joined AEP upon graduation and after working with an Ohio subsidiary was transferred to the New York headquarters in 1944. He became head of the division in 1961 and deputy chief engineer in 1966.

Dr. Richard K. Toner (Ch.E.), assistant chairman of the Department of Chemical Engineering and clerk of the Princeton University faculty, has been chosen to receive an award for outstanding teaching from the Manufacturing Chemists Association. The award includes a medal, a citation and cash award of \$1,000. Dr. Toner, who earned his M.S. and Ph.D. degrees from Purdue University, taught at Purdue, Lehigh and New York University before joining the Princeton faculty.

'35

Louis S. Lyon (Ch.E.) reports he is "still enjoying retirement and his involvement with Southern Methodist University as adjunct professor in the school of public administration." He teaches public administration at the graduate level and no doubt calls on his years of experience as director of the Dallas Region of the U.S. Civil Service Commission.

'38

Lawrence J. Giacoletto, professor of electrical engineering at Michigan State University, this year saw his patent on an electronic ignition become standard equipment on most automobiles. The patent, obtained in 1959 and assigned to Radio Corporation of America (RCA) for whom he worked from 1946 to 1956, netted Prof. Giacoletto \$150 some years ago. The good professor looks ahead to anti-skid equipment and a more elaborate dashboard providing additional information including collision-warning systems.

'43

Lloyd A. Buchalter (M.E., Oct.) pens a short note: "Not much new--the Naval Reserve is putting me out to pasture on 30 June. At that time I will be transferred to the Retired Reserve list after 29 years, nine months and 18 days." Lloyd has been a supervisory mechanical engineer in the facilities engineering branch of the U.S. Military Academy at West Point for a number of years. The Buchalters reside at Rd 2, Box 424, Walkill, N.Y. 12589.

Robert W. Hodgers, Jr. (E.E. Feb.) reports that he is now in business with his son Richard, in his company, Hodgers Associates, Inc., consultants in management and information systems, especially involving communications and computers. Prior to entering private business Hodgers was associated with General Electric Company and Western Union Telegraph Company in a number of development and managerial positions. The Hodgers reside at 879 Scioto Drive, Franklin Lakes, N.J. 07417.

'47

Robert A. Vance (M.E. Dec. '47) has been named director of generation engineering for Detroit Edison. Vance, who formerly was project engineer for the Enrico Fermi No. 2 nuclear power plant, joined Detroit Edison upon graduation. In 1960 he was recipient of the Alex Dow Award, the company's highest award for employees. He was honored for developing a new method of pipe design and erection for use in construction of high-pressure steam lines. Vance and his wife Lois and family reside at 22022 Drexel, Mt. Clemens, Mich. 48043.

Homecoming

'75

Oct. 3 & 4



INDUCTED INTO ORDER OF ENGINEER--Danny Price (left), senior class president and a 1975 graduate of Rose-Hulman in civil engineering, is shown during his induction into the Order of the Engineer. Participating in the ceremonies were (left to right) Dr. Herman A. Moench, Rose-Hulman senior vice president; Robert D. Miles, president of the Indiana Society of Professional Engineers; and Vern W. Fellows '62, chapter director of the ISPE. The Order of the Engineer chapter was named in honor of Dr. Moench in recognition of his contributions to the engineering profession.

Order of Engineer Link Honors Moench

Doctors have their caducei, pilots have their wings and soldiers have their chevrons, but until recent years the engineers in this country had no identification other than their works--bridges, highways, and man on the moon, etc.

The search for a visible symbol for engineers actually began in Canada decades ago and resulted with the formation of The Order of the Iron Ring. The theory is that the ring will rust if the working hand becomes idle.

But that was Canada. Copyright laws and other difficulties prevented that organization's spread to the United States.

Yankee ingenuity being what it is, a group of Ohio engineers representing perhaps the largest concentration of engineers in the country adopted a format and ritual for the Order of the Engineer. The stainless steel ring was chosen as symbol.

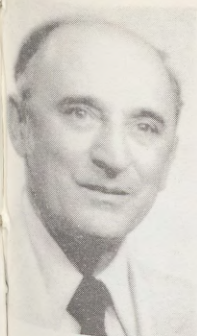
Chartered at Cleveland, the

organization is gaining chapters throughout the country, including Terre Haute where the Herman A. Moench Link of the Order of the Engineer was chartered May 5. The chartering was held in conjunction with the annual meeting of the area professional engineers.

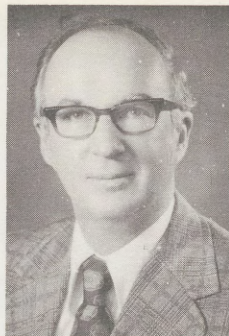
The board of governors for the new link--the sixteenth in the United States--includes Rose-Hulman graduates Vern W. Fellows '62, John A. Fenoglio '59, Wayne L. Loving '50, Robert E. Newby '58 and Ronald G. Reeves '58.

The order's induction ceremony, public and solemn, is a commitment between the individual and his profession. The stainless steel rings symbolize strength and unity.

The induction ceremony calls for the engineer to pledge "to practice integrity and fair dealing, tolerance and respect" and to be aware that his skill carries with it "the obligation to serve humanity by making the best use of Earth's precious wealth."



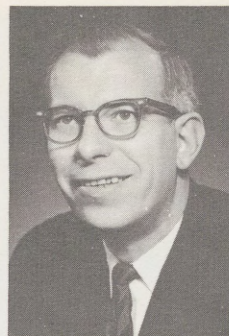
Carlet



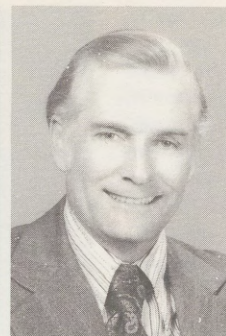
Newlin



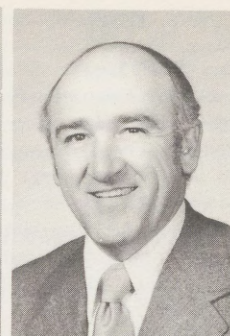
Ray



Norman



Hillman



Hebb



Giffel

Frank A. Carlet, Jr. (M.E., Dec.), superintendent of Central Illinois Public Service Company's Meredosia Power Station since 1964, has been named superintendent of the utility's Newton Power Station under construction in Jasper County, effective June 1. He joined CIPS in 1948 and has served the utility at Hutsonville and Meredosia. Carlet is married to the former Geneva Krackenberger of Terre Haute. The couple has five children.

Dr. Charles W. Newlin (C.E. Dec.) has joined the Los Angeles office of Dames & Moore, worldwide consulting firm specializing in the environmental and applied earth science. Dr. Newlin, who formerly was chairman of the civil engineering department at Arizona State University in Tempe, will be in charge of technical services management of the firm's soil and foundation work in the western United States. Dr. Newlin earned an M.S. in soil mechanics from Harvard University and a Ph.D. in soil mechanics and geology from Northwestern University. He is a registered professional engineer in Pennsylvania and Arizona and was a member of the Arizona State Board of Technical Registration for seven years prior to joining Dames & Moore. Dr. Newlin and his wife, Judy, live in the Westwood area of Los Angeles.

James Hurt (M.E. Oct.) recently dropped by the campus for his first visit in nearly a decade, noting that "had it not been for the Main Building, I would not have known it was Rose." He continues as a project engineer in the reentry systems division of Aerospace Corporation in Los Angeles, which recently presented Hurt as inventor's award for his invention on a method of installing thermocouples in heat shields. Hurt has been associated with aircraft/aerospace engineering since 1952, having been employed by Consolidated-Vultee, General Electric General Dynamics and Aerospace Corporation. His address is 5629 Maria Linda Street, Torrance, Calif. 90503.

F. Perry Ray (M.E., Oct.) has accepted a position as manager of a recently-opened Indianapolis branch office of J. P. Stocks Insulation Company. Ray has had 25 years experience in thermal insulation industry as

manager of Indianapolis contract office of Brand Insulations and Philip Carey Company. In his spare time Perry shoots a fine round of golf, heads up the annual Homecoming golf tournament and hosts administration and faculty in some public relations building meets in the Indianapolis area.

'52

James T. Norman (Ch.E.) has been appointed divisional president of B. F. Goodrich General Products Company, effective June 1. Norman, who previously was European area director for B. F. Goodrich Company, headquartered in Voorburg, Holland, has been with BFG Chemical since 1952. He has served at the company's Louisville plant, worked on construction and startup of an associate company in Japan and in the Cleveland office. In 1966 he was appointed deputy general managing director of Abadan Petrochemical Company Limited in Iran where he remained until returning to the United States in 1971 for subsequent appointment as area director for European operations. He recently completed Harvard Business School's Advanced Management Program, an intensive three-month course designed for senior executives.

'54

Ernest L. Hillman (E.E.) has been named vice president-hardware engineering of Western Union Information Systems, a Western Union Teleprocessing division. In his new position Hillman directs the design and production of computer/communications hardware systems developed and maintained by the division. He formerly was department manager of equipment and communications engineering and was largely responsible for the development of front-end and display equipment used in InfoMaster, the national message processing system of the Western Union Telegraph Company. Before joining Western Union in 1968 he was associated with RCA Corporation for 14 years where he served in various engineering and managerial posts. Hillman resides at 554 East Saddle River Road, Upper Saddle River, N.J. 07458.

'55

Jerry L. Hebb (M.E.) has joined Roy F. Weston, Inc., Chester, Pa., as manager of the new Occupational Health Management Department. Hebb formerly had been manager of personnel safety and environmental control for Monsanto Research Company's Mound Laboratory in Miamisburg, Ohio. While at Mound, a facility operated by Monsanto for the U.S. Atomic Energy Commission, Hebb directed a staff of 125 engineers, scientists, medical doctors, safety and hygiene professionals. Under Hebb's direction, Weston's new health management department centralizes a full range of health services for its clients. Surveys of operating practices and workplace conditions, and the resulting recommendations, are designed to reduce or eliminate conditions which can be injurious to the work's health and safety. In a short note to Rose-Hulman's Herman Moench, Hebb described his assignment: "I'm very excited with starting up a new department and pleased to be working in a consulting company." Hebb's son, Chris, will be a sophomore at Rose-Hulman in the fall.

Donald C. Wood (Ch.E.) has been named managing director of the General Tyre & Rubber Company of Pakistan Ltd. Wood has been assigned to the Pakistan operation since 1972, serving as factory manager of Gentipak in Pakistan (1972-74) and for the last year has additional duties as assistant managing director. Wood was associated with the international division of Firestone Tire & Rubber Company for 15 years prior to joining General in 1971. He subsequently had been acting production manager at General's Waco, Texas, tire plant and was later assigned to the International Division headquarters in Akron, Ohio.

'58

Gary H. Giffel (M.E.) has been named plant manager at Ethyl Corporation's VisQueen Film Division plant in La Grange, Ga. Giffel, who joined VisQueen in 1961, had been technical supervisor at the LaGrange plant since 1965. Prior to moving to LaGrange, Giffel was technical assistance engineer and supervisor of the mechanical design department at the Terre Haute plant. Giffel and his family reside at 736 Cherokee Road, LaGrange, Ga. 30240.

'60

E. Theodore "Ted" Jaenke (M.E.) has taken a position as sales manager for Cummins Missouri Diesel Sales Corporation in St. Louis. Jaenke, who has served Cummins in sales management and engineering assignments, has held assignments in Indiana and California. Prior to joining Cummins he was associated with Thompson Ramo Woolridge in Cleveland. His new address is 5 Bitterfield Court, Manchester, Mo. 63011.

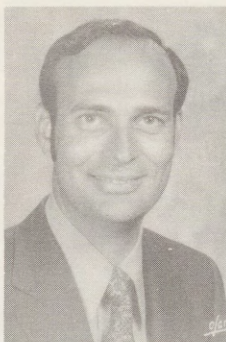
Ross Kuykendall (M.E.) has been promoted to manager of facilities engineering for the Sheet Products Business Section of the General Electric Company in Mount Vernon, Ind. Kuykendall, who joined General Electric in 1967, has been assigned to the General Space Division at the Mississippi Test Facility where he held positions as manager of high pressure gas, facilities and utilities departments. He also served as manager of the facilities and plant engineering at General Electric's Engineering Cast Products in Elmore, N.Y. Prior to joining General Electric he was associated with Perfect Circle Corporation in Hagerstown, Ind., and Pueblo, Colo. The Kuykendalls reside at 1632 Terrace Drive in Mount Vernon.

James M. Tubby (E.E.) pens a note bringing *Echoes* up to date. For some two years he has been systems and procedures supervisor in the data processing department at Wisconsin Power and Light in Madison. His responsibility covers systems programming and the engineering support section. His address is 1501 Rae Lane, Madison, Wis. 53711.

'61

L. Richard Carter (C.E.) has accepted a position with Williams Brothers Engineering Company of Tulsa, a division of Resource Sciences Corporation. Carter is assigned to the International Division of Williams Brothers and currently is working on the Pak-Arab Refinery Ltd. (PARCO) project which consists of a 500-mile, 16-inch liquid products pipeline from Karachi to a new refinery west of Multan, Pakistan. He reports that his duties on the project are primarily connected with the civil-geotechnical aspects of the design of storage tanks, stations and pipeline supports and anchors. Prior to joining Williams Brothers, he was manager of engineering services for the Tulsa Branch of United States Testing Company, Inc. Richard, his wife, Nancy, and four children reside at 5350 South 74th East Avenue, Tulsa, Okla. 74135.

William H. Yochum, Jr. (C.E.) has been promoted to production manager of the U.S. Processing Division of Continental Grain Company. He is temporarily assigned to the Chicago office and expect to move on to the New York offices over the summer. Having joined Dayton Power and Light Company upon graduation, he also has been associated with Central Soya at a number of locations.



Kuykendall

'62

Brent E. Robertson (C.E.) has accepted a position as sales manager of The Tire and Battery Corporation, a Tennessee-based corporation which distributes Multimile, Cordovan and Grand Prix tires and batteries nation wide. Prior to the move he was associated with B. F. Goodrich Company in a number of engineering and sales related positions. His new address is 1904 Brierbrook, Germantown, Tenn. 38138.

'63

Gilbert L. Robinson (M.E.) has begun a four-year assignment with Caterpillar Brazil and has relocated in Sao Paulo, Brazil. He formerly had served in the industrial division and as maintenance superintendent of the Technical Center and Peoria Proving Grounds of Caterpillar. Robinson joined Caterpillar in August, 1967 following a tour of duty in Vietnam as commanding officer of a combat engineer company. Since his return to Caterpillar he has earned an M.B.A. from Bradley University. His current address is Caina Postale 8239, Sao Paulo, Brazil.

William D. "Dave" Randolph (Math) has left Northrop Corporation for a position with Ketron, Inc., in Arlington, Va. He has continued his education, earning an M.S. from George Washington University in 1970 and a mechanical engineering degree from the University of Florida in 1972. His current address is 222 Third Street, S.E., Washington, D.C. 20003.

'64

George I. Wagner (E.E.) currently is employed by Exxon Company, U.S.A. and is on assignment in Alaska. On loan to Alyeska Pipeline Service Company for the construction of the trans Alaska Pipeline, he is manager of computer operations in Anchorage. Prior to joining the Exxon operation as systems analyst for Humble Oil Refining Company, he was associated with Collins Radio in a position which involved extensive travel to Europe and Africa. His current address is 6203 Dunbar Lane, Anchorage, Alaska 99504.

(Continued from page 14)

jump. The track team won the CAC title and was beaten but twice in dual meet competition during 1975.

Gary Ellis, a freshman from South Bend, was voted MVP of the baseball team. Ellis led the four pitchers with a 4-1 mark and was the batting champion with a .362 average. Curt Vapor, a senior from Plainfield, received the award for the most RBI.

Jim Krogstie, a sophomore from Crown Point, was named the MVP in tennis. He finished with a 5-2 record playing No. 2 singles. He also was on the No. 1 doubles team.

Steve Tiek, a senior from Vincennes was the MVP on the Engineers' golf team. Tiek finished the season with 76.9 average in all matches and tournament play.

The Engineers, while having dominated the College Athletic Conference during their first year of competition, have found the league best suited for Rose-Hulman. The five schools involved have similar admissions standards, are rigorous academic schools and share a philosophy of athletics which places academics first.

Perhaps it only fitting that Rose-Hulman, celebrating the 100th anniversary of its founding by railroad builder Chauncey Rose, took home five championship bells and the Monon Bell which goes annually to the overall sports champion.

1974-75---the year of the bell.

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RoseTech Alumni Cruise

Seven days to Cap-Haitien, San Juan and St. Thomas in the Caribbean Islands.

Norwegian Caribbean Lines - \$430-\$485

Sailing from Miami, Nov. 29, 1975

(Contact Alumni Office for further details)

European Cage Trip

Take advantage of the lowest fare to Europe as the Engineer basketball team makes second European trip. Group affinity on Icelandic DC-8 -- \$285 round trip.

Leave New York, 9:30 p.m., Sunday, Dec. 21.

Arrive Reykjavik, 7:00 a.m., Monday, Dec. 22.

Leave Reykjavik, 7:45 a.m., Tuesday, Dec. 23.

Arrive Luxembourg, 12:00 Noon, Tuesday, Dec. 23.

Leave Luxembourg, 1:00 p.m., Saturday, Jan. 3.

Arrive New York, 6:00 p.m., Saturday, Jan. 3.

Make your own schedule in Europe.

(Contact Coach John Mutchner)

Brenton R. Lower (M.E.) has been honored by Battelle Laboratory for a patent he received during 1974. Lower, a staff bioengineer in the biomedical science and technology section, is co-holder of a patent for an obstetrical forceps with a pressure sensitive gauge. He resides at 836 Thurber Drive West, Columbus, Ohio 43215.

'65

B. William Dudley (E.E.) an applications engineer for Hewlett Packard, reports an interesting activity which resulted from his winning entry in a design contest. Says Bill: "After winning an ambulance in an ambulance design contest, I spent last year single-handedly training a 55-member rescue squad. Each member has received over 60 hours of intensive training, including advanced first aid, cardiopulmonary resuscitation, light rescue, emergency childbirth, defensive driving and four months of riding with other rescue squads. We went into a full 24-hour operation November 1, 1974." Dudley continues to reside on Pleasantville Road, New Vernon, N.J. 07976.

'66

R.R. "Gene" Stuffle (E.E.) received an M.S. in business administration from the Indiana University regional campus in Fort Wayne and is weighing an offer of a teaching assistantship which will allow him to pursue a Ph.D. in electrical engineering at Purdue University in the fall. Meanwhile, he continues to work in the research and development laboratory of General Electric Company's Technical Resources Operation in Fort Wayne.

Spring, 1975

R. Jeff Keeler (E.E.) is working on his Ph.D. in electrical engineering (digital signal processing) at the University of Colorado, with hopes of completing the degree by January of 1976. The Keelers also report the birth of a daughter, Suzanna Kathering, born Oct. 7, 1974. Prior to entering graduate school he was a member of the technical staff of Bell Laboratories. His address is 1055 Edinboro Dr., Boulder, Colo. 80303.

'67

Ronald P. Glanz (M.E.) is working as senior research engineer for Tube Turns, a division of Chemetron, Inc., in Louisville, Ky. He formerly was senior engineer in the research laboratories of Westvaco Corporation in Covington, Va. Glanz joined Kimberly Clark upon graduation and remained with that company until 1971 when he joined Westvaco. His current address is 626 Terrace, New Albany, Ind. 47150.

Jerome P. Stineman (M.E.) has joined the law firm of Donald L. Brundage, 7390 Lowell Boulevard, Westminster, Colo. Stineman, who received his J. D. degree from the University of Cincinnati Law School in June, 1973, also has served as Deputy District Attorney for Boulder County, Colorado. Prior to entering law school Stineman was an engineer for Western Electric Company in Indianapolis. The Stinemans reside at 499 Harvard Lane, Boulder, Colo. 80303.

**GOT A CLASS NOTE?
SEND IT TO ROSE-HULMAN**

Capt. James W. Engle (M.E.) has been reassigned to Clark Air Force Base in the Philippines where he is a C-130 navigational instructor. He previously had been stationed at Ching Chaun Air Force Base in Taiwan. Mail may be directed to him at 610 32nd Street, South Bend, Ind. 46615.

'69

Stephen R. Smith (M.E.) has been promoted from senior mechanical engineer at Fort Knox, Ky., to chief of utilities and the pollution control division at Fort Benjamin Harrison in Indianapolis. Smith, who had been at Fort Knox since 1971, formerly was associated with the Bantam Bearings Division of Ingersoll Rand-Torrington Company in South Bend. His new address is Fall Creek Apartment 7035, Kingswood Court, Apt. 3008, Indianapolis, Ind. 46256.

'70

Richard C. Burrow (C.E.) has joined the engineering firm of Burns & Roe, Inc., where he is assigned to the design of the country's first liquid metal fast breeder nuclear reactor. Burrow formerly was associated with the structural design firm of Alexanders & Von Bradsky. The Burrows continued to reside at 49 Saddle Brook, N.J. 07662.

Capt. Charles D. Woodard (M.E.) is now assigned to Williams Air Force Base in Arizona where he is chief of air traffic control operations. Says Chuck: "Williams is a pilot training base and is known as 'the busiest airport in the world'." Woodard received his commission in October, 1970 and following schools at Laughlin, Keesler and Columbus bases, was "given the opportunity to practice what I have learned" at Osan Air Force Base in Korea. For one year he was chief controller for the Osan Radar Approach Control, a facility which provides radar service to all aircraft (military, commercial, American, Korean, English and Japanese) in the northern half of South Korea. Chuck, his wife, Becky, and daughter, Julia Lynn, currently reside at 1240 Loreda, Chandler, Ariz. 85224.

J. Q. Delap, Jr. (M.E.) has been promoted to manager of hydrocarbon sales for Anadarko Production Company, a subsidiary of Panhandle Eastern Pipeline Company headquartered in Houston, Tex. He joined Panhandle Eastern upon graduation and served in various engineering positions in Missouri prior to the transfer. His current address is 2226 Lakeville, Humble, Texas 77338.

John A. Yarish (M.E.) has accepted a position as a contract engineer with United Conveyor Corporation, a company which designs ash handling systems for coal-fired electric generating stations. John also reports that he received his professional engineer's license in March. Yarish, who formerly was a design engineer for Peoples Gas & Coke Company in Chicago, currently resides at 604 Sheridan Rd., Apt. 2W, Evanston, Ill. 60202.

Tim J. Hollack (Math) is working in the recently-formed Technical Computing Group at Armco Steel which supplies technical knowledge to a team responsible for implementing a computer-controlled zinc coating line at the company's operation in Hamilton, Ohio. Tim reports his marriage in June, 1974 to the former Diana Foutz of Hamilton, a graduate of Eastern Kentucky University and an elementary school teacher. The Hollacks reside at 1160 Eaton Ave., Hamilton, Ohio 45013.

Michael L. Schuck (Physics) drops *Echoes* a short note: "I am still in the U.S. Army, hoping for captain in July. We just returned to the U.S. after three years in Germany and are now stationed in White Sands Missile Range in New Mexico. We have one son, Benjamin, who will be three in June." The Schucks' mailing address is 100 Rosstord Ave., White Sands Missile Range, New Mexico 88022.

'71

Harold W. "Woody" Adamson (Bio.E.) is currently director of clinical engineering at Wesley Medical Center in Wichita, Kan. He recently completed a health care technology (clinical engineering) master's certification program and the M.S.E.E. at Washington University in St. Louis. His home address is 3447 E. Murdock, Wichita, Kan. 67208.

Thomas G. Gruenholz (M.E.) has joined Michelin Tire Corporation at the company's Greenville, S.C. plant following several months of training at Michelin's facility at Stoke-on-Trent, Staffs, England. He formerly was plant engineer with Citadel Cement Corporation in Birmingham, Ala.

Stephen J. Kinsell (Ch.E.) is now plant manager of Silver Lane Hybrids in Remington, Ind. Prior to the move, he was an engineer for Exxon Pipeline Company in Houston, having joined Exxon following completion of an MBA from Indiana University in early 1973. Mail may be directed to him at Silver Lane Hybrids plant, Remington, Ind. 47977.

Lt. Richard E. Williams (M.E.) is midway through a four-year tour with the 92nd Tactical Fighter Squadron. He currently is stationed at R.A.F., Bentwaters, Suffolk, England and is flying the F-4 Phantom in support of N.A.T.O. Williams says he enjoys his work and the opportunity to see Europe.

Richard L. McCammon (Chem) received his Doctor of Medicine degree from the Indiana University School of Medicine in May and is to begin a residency at the I.U. Medical Center in Indianapolis in July. He is married to the former Patricia Shrum, a 1971 graduate of Indiana State who currently is teaching in the Indianapolis School System. The McCammons reside at 440 N. Winona, Apt. 423, Indianapolis, Ind. 46202.

Roger Ward (Bio. E.) joined Henry B. Steeg & Associates, consulting engineers of Indianapolis in March and currently is performing master plan sewer studies and design of industrial water treatment systems for the firm. He joined Malcolm Pirnie, Inc., a sanitary consulting engineering firm following graduation and worked for 10 months as resident engineer for a pilot plant in Akron, Ohio. He later was to serve two years in the medical service corps as a sanitary engineer in charge of the health and environment service at Fort Benjamin Harrison in Indianapolis. The Wards reside at 5044 N. Carrollton Ave., Indianapolis, Ind. 46220.

Alan L. Feldmeyer (Ch.E.) has taken a development manager position in the research and development department of the Rostone Corporation in Lafayette. Prior to making the move he was associated with General Tire and Rubber Company and had done graduate work at Indiana University where he earned an MBA in 1973. He and his wife, Belinda, reside at 1420 Beck Lane, Lafayette, Ind. 47905.

'72

Lt. Michael B. Lammey (C.E.) drops *Echoes* a line concerning his current whereabouts. Says Mike: "Barb and I are now military beings. I am assigned to the military traffic management command at Newport News, Va. My responsibilities include traffic engineering services for military posts, posts and airfields and will involve considerable travel. Please send back issues of the *Echoes* for the last year." The Lammey's previously had been in Toronto where he had been employed by a consulting engineering firm which specializes in transportation. Their current address is 13312 D Preakness Dr., Newport News, Va. 23602.

Joseph T. Fuss (M.E.-Aero) is working in the San Juan Mountains of Colorado for the U.S. Bureau of Reclamation where his duties include performing the mechanical engineering inspection on the construction of Crystal Dam. Joe reports his marriage to Patricia M. Holt on April 26. The couple resides at 599C Roma Court, Montrose, Colo. 81401.

Robert P. Penno (M.E.) has moved again—this time to Anchorage, Alaska where he is assigned as a sales engineer for General Electric Company. He also reports his approaching marriage to Julie Ruess of West Liberty, Iowa. Bob's current address is 115 W. 24th Ave., Apt. 3, Anchorage, Alaska 99503.

'73

Richard D. Moss (Bio.E.) is working for the Water Pollution Division of the Indiana State Board of Health where he is involved in the computerization and water pollution enforcement actions. He plans to be working toward a master's degree in environmental engineering at Indiana University-Purdue University at Indianapolis in the fall.

Thomas J. Stoltzner (Chem), an insurance analyst for Bankers Life Insurance in Venice, Fla., has been admitted to the Stetson University College of Law. Tom, who plans to enter law school in September, related a growing activity in the recruiting of persons with technical degrees for law schools, particularly owing to the increasing complexity of patent, corporate and environmental law.

In Memoriam

'18

Paul B. Curtis (Ch.E.), professor emeritus of biochemistry at Purdue University, died March 2 in West Lafayette. Prof. Curtis, who joined Purdue upon graduation, retired in 1965. He was widely known for his contributions to regulatory laws on commercial feed, seed and fertilizer.

'24

F. Ray Martin (C.E.), president of a St. Louis-based consulting engineering firm which bears his name, died April 22 in St. Louis. Martin had private business in Terre Haute prior to moving to St. Louis in the 1940s.

'25

Fred L. Bradford (M.E.) died March 18 in Terre Haute. He formerly operated Biel's, Inc., of Terre Haute and was associated with the Hospitals and Physicians Bureau.

'28

Roy D. Reece (E.E.), retired chief of the power-electrical division of the Panama Canal Company, died May 10 in St. Petersburg, Fla. Although he had made his home in St. Petersburg for more than 12 years, he continued as an active consulting engineering and most recently was affiliated with the Gilmanton Iron Works in New Hampshire.

'29

Albert E. Baker (E.E.), retired electrical engineer for the New York City Transit Authority, died May 11 in Flushing, N.Y. Having joined the Pennsylvania Railroad upon graduation, he was associated with the New York Transit Authority from 1936 until his retirement in 1967.

'53

Word has been received of the death July 1, 1974 of **Willis R. "Tex" Carwile**, a 1953 graduate in mechanical engineering. At the time of his death he was vice president of the Dutchess Petroleum Division of John Car, Inc., and resided in Verbank, N.Y.

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