

Winter 1975

Volume XIII - Issue 3 - Winter, 1975

Echoes Staff

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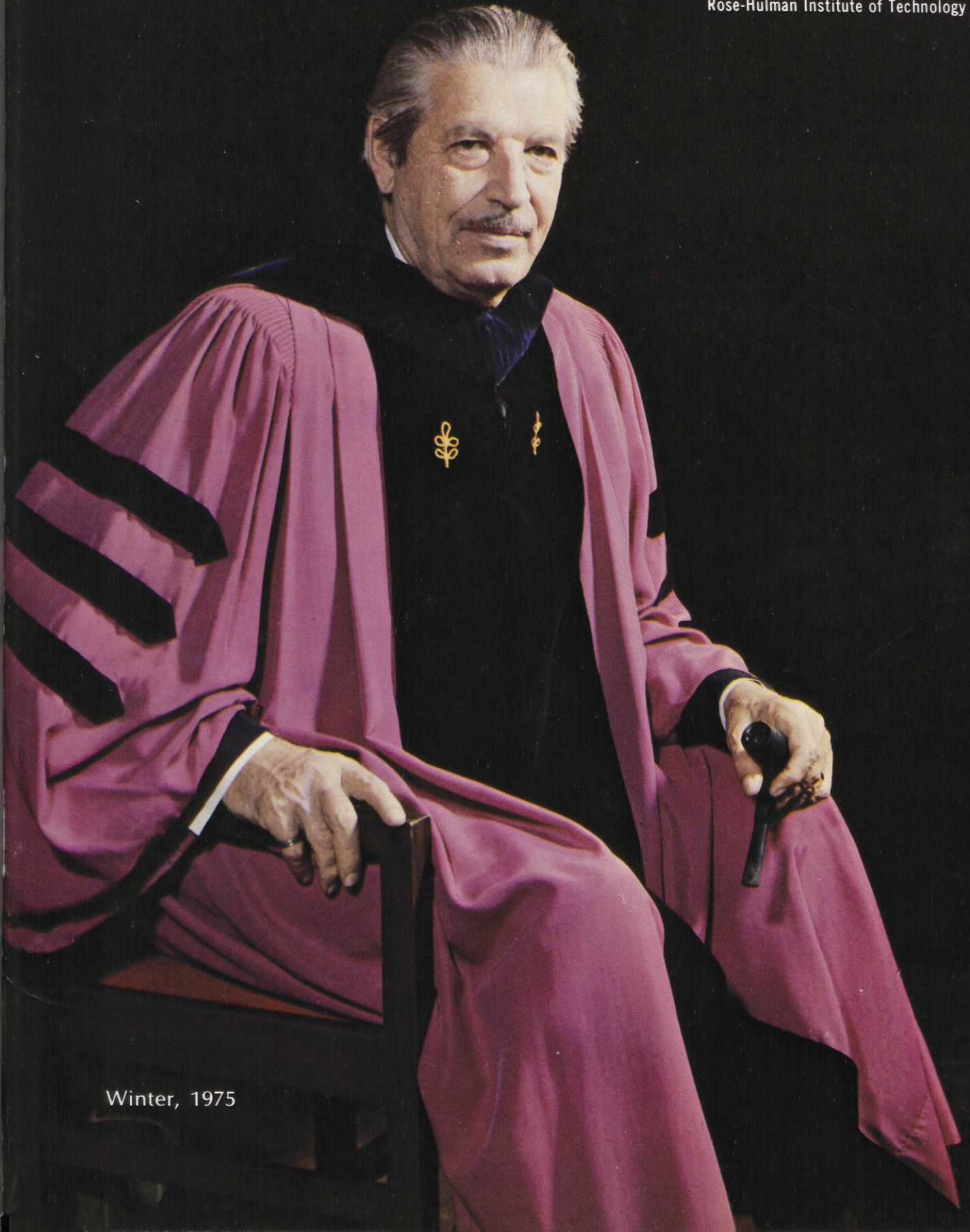
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ECHOES

Rose-Hulman Institute of Technology



Winter, 1975

ECHOES

ALUMNI MAGAZINE

Winter, 1975

Vol. XIII, No. 3

ROSETECH ALUMNI ASSOCIATION EXECUTIVE OFFICERS 1974-75

Robert S. Kahn '39, President

Frank G. Doenges '39, Vice Pres.

Anthony G. Blake '31, Sec.-Treas.

COMMITTEE CHAIRMEN

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Fund Raising Ralph A. Mitchell '47

Student Recruitment

Charles B. Huppert '65

RoseTech Clubs Vern W. Fellows '62

Awards and Recognition

Richard A. Mullins '40

Continuing Education

Richard L. Brown '59

Senior Orientation

Thomas L. Reese '58

ALUMNI MEMBERS OF THE BOARD OF MANAGERS

John T. Newlin '43

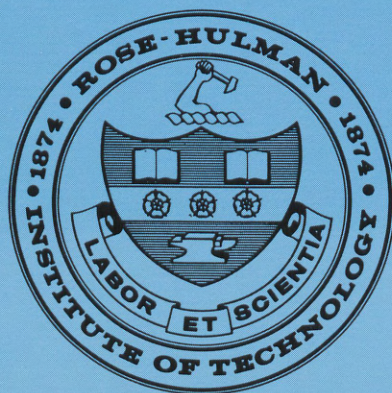
1972 to Annual Meeting 1976

Vernon E. Whitehouse '40

1974 to Annual Meeting 1978

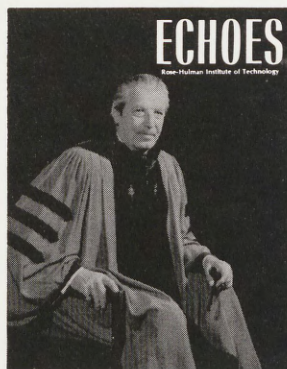
W. Kent Harris

Editor



In This Issue

John A. Logan: A Humanistic Engineer and Teacher	2
J. B. Wilson Boosts Consulting Engineering	6
Fastest 530 System in the West	8
Centennial Homecoming	10
Miss Stuckey Reigns as Queen	12
Archer, Whitehouse, Criss Honored	13
Class Reunions, Etc.	14
Convocation on the Future	16
Indiana Society of Chicago Salute	18
Engineers Set Sights on 'Big Bell'	20
The Annual Meeting	22
News From Alumni	25
In Memoriam	32



The Cover

Dr. John A. Logan, tenth president of Rose-Hulman Institute of Technology, is featured on the cover of this issue of **Echoes**. The photograph of Dr. Logan in his attractive Harvard University academic regalia was made by Moffet Studios of Chicago.

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It seems like only yesterday that some 320 of the brightest young men one could find anywhere were converging on Rose-Hulman Institute of Technology as eager young freshmen. Some three days later the upperclassmen returned, the faculty started cracking their pedagogic whips (and first-hour "are you awake?" jokes) and the 1974-75 academic year was under way. The pace has been dizzying since, but in the best of Rose traditions, the results have been good and another chapter in Rose-Hulman history has nearly unfolded. The year 1974-75 -- given extra zest by the Centennial Celebration--has been an exciting one. It has included big parties, the realization of dreams of more than a decade, major announcements and a few surprises.

In this issue of the *Echoes* we will attempt to describe these major Centennial events and move behind the scenes and relate some interesting stories about members of the Rose family currently "in the news." Although it came as no surprise, the biggest story of the year was Dr. John Logan's announcement to the Board of Managers in October that he will retire effective August 31, 1976. Two months later Ralph Ross, Rose's first and only full time dean of men, made known his intentions to retire in August. Others who have indicated they also will retire this year are Dr. Oran Knudsen of the chemistry department, Prof. Gordon Haist of humanities and social sciences, and Coach Jim Carr, the quiet man in the fieldhouse who has done so much for athletics and recreation in his nearly 30 years at Rose.

Rose-Hulman gained use of the new Learning Resources Center during the first week of school and recently saw its new Xerox 530 computer put into operation--two more major accomplishments during the tenure of President Logan. Popular with alumni, students, faculty and board members alike Dr. Logan is the subject of a story which may help acquaint alumni and friends with this engineer and educator of great vision and purpose.

Come with us now as we visit with John Logan, the man in the front office. Catch up on the news of Homecoming '74, the Convocation of the Future (the convocation which capped the Centennial Celebration and ushered in the second century), the new computer, the athletic scene and two conference championships, and many other items of interest. It all starts on page 2.

Winter, 1975



CENTENNIAL CAIRN--A Centennial memorial to Rose-Hulman founder Chauncey Rose on behalf of early board members Josephus Collett and Robert S. Cox was erected on the campus earlier this year. The memorial is a result of a gift to the Institute by Board Chairman Benjamin G. Cox and Mrs. Cox. The stone and bell incorporated in what school officials call a "modern cairn" came from the Rose Orphans' Home at 25th Street and Wabash Avenue in Terre Haute. Bob Manley, South Bend, and Steve Axe, Franklin, students in an Arts Projects Class at Rose-Hulman, assisted by volunteers Paul Eck, Indianapolis, and Ron Damm, Wadesville, were responsible for design of the memorial sited in the triangle between B-S-B Hall, Deming Hall and the Templeton Administration Building. Bill Meehan, adjunct professor of art and a member of the faculty at DePauw University, supervised the project.

John A. Logan

a humanistic engineer and teacher
who makes things happen

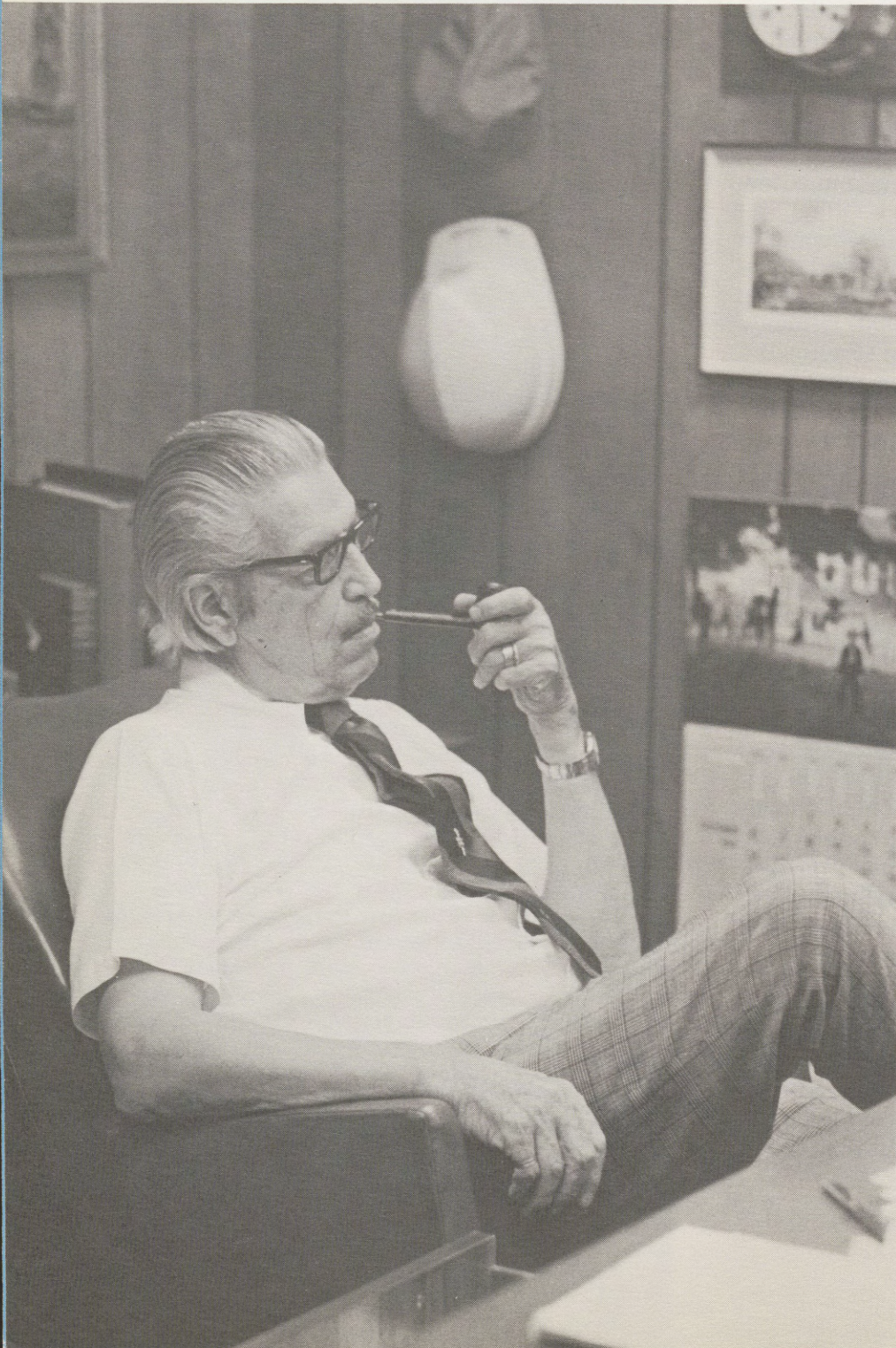
For more than 12 years John Alexander Logan, a man of Scottish-Canadian reserve, Harvard University academic credentials and an international reputation as an environmental engineer has quietly guided Rose Polytechnic and now Rose-Hulman Institute of Technology through the most exciting chapter of its rich history of tradition and excellence in engineering education.

Earlier this academic year Dr. Logan announced plans for his retirement from Rose-Hulman effective August 31, 1976. This announcement prompted many to look back on the Logan years. Although a review of his presidency is inescapable when writing about John Logan, this article will avoid enrollment increases, groundbreakings and capital campaigns in favor of attempting to introduce readers to *John Logan: The Man*.

A native of Canada, he was born September 28, 1908 in Yorkton, Saskatchewan. He is the oldest of six children of James Pender Logan and Mary Patterson Logan who had emigrated from Scotland around 1900. John Logan's boyhood was spent doing those things boys did in Yorkton, Saskatchewan, during the first quarter of this century--growing straight, strong and tall in the fresh Canadian air while learning to ice skate, swim, run and jump, etc. Education was a thorough grounding in the three R's.

He earned a liberal arts bachelor's degree from the University of Saskatchewan in 1929, just as the Depression was starting to hit. A stint with the "school of hard knocks" convinced him the entire world needed a lot of building and rebuilding--and that called for engineers. He returned to the University of Saskatchewan for a degree in civil engineering.

Echoes



A good student and top flight athlete, Dr. Logan's interests were varied even during his college days. At Saskatchewan he won a major award that is given only every four or five years to an athlete doing well in more than one sport. Logan starred in basketball, rugby, hockey and swimming--and was captain of both the hockey and rugby teams.

John Logan's first job as an engineer was with the Saskatchewan Department of Highways. He was a resident engineer and played semi-pro hockey for the Yorkton Terriers.

While playing defense for the Terriers he attracted attention from the big leagues. An offer to play professional hockey was turned down when he was awarded the Harvard Canadian Fellowship for graduate studies at Harvard University.

Cambridge, Mass., and Harvard seem like a long way from Yorkton, Saskatchewan, but John Logan had known since grade school that he wanted to go there. "It's quite difficult to define," he says. "I had seen Harvard in the movies, I had read about it in books. It was just the general feeling that Harvard was the best school in North America--and I wanted to go to the best school.

"I thought highly of Harvard, its traditions, the competitiveness there, the quality of education.

"That was the most important thing that had happened to me from a career point of view," Dr. Logan continued, "because it was there that I came in contact with Gordon Fair, who is undoubtedly one of the great teachers of this century. He was the one who influenced me into going into environmental engineering and, in turn, in going with the Sanitary Corps of the Army then, in turn, with the International Division of the Rockefeller Foundation."

The young engineer earned a master's at Harvard in 1935 and the following year married the former Dorothy Gray Rutherford whom he met while both were students at the University of Saskatchewan. He taught civil engineering at Iowa State College (1935-36) and the University of Missouri (1937-41) before returning to Harvard for his doctorate in environmental engineering. During his early years in teaching he spent his summers on civil

engineering projects in Iowa and Missouri.

Dr. Logan's brilliance in the environmental engineering field was borne out during pursuit of his doctorate at Harvard in 1941. Losing much sleep and some 30 pounds, he completed his doctoral work in nine months, a record that still stands at Harvard. He then spent two years as chief engineer for the St. Louis firm of Russell and Axon, building Army airports in Missouri.

He joined the Army as a lieutenant in 1944 and rose to major during his assignment to the Office of Inter-American Affairs as chief engineer of the Amazon Valley project in Brazil.

"This was set up by Nelson Rockefeller in connection with the Treaty of Rio de Janeiro which President Franklin D. Roosevelt had negotiated early in the war," says Dr. Logan.

"What we were attempting to do was sanitize the Amazon in order to make it possible for the rubber development corporation to get rubber out of there.

Harvard, European experiences high points of his life.

Also, President Getulio Vargas had an idea that he could use the Amazon as an area of development--that is, to bring in settlers from all over the world into the Amazon basin--an area almost as big as the United States."

The main problem was finding a fresh water supply. The Logan group solved this by developing a system of hand-sunk wells that gave ample flow. This helped whip the water borne diseases, dysentery and cholera.

Since there was no health system in Brazil, Dr. Logan's project was to establish one. It was impossible to make the entire country sterile, so what Dr. Logan terms the "islands of sanitation" principle was employed. "We built health centers and hospitals in the villages and towns," says Dr. Logan, "with an area around these of about three miles being reasonably healthy."

Dr. Logan spent the next eight years with the International Health Division, where he was chief engineer for the Sar-

dinia malaria eradication project and a leader in projects in France and Great Britain which affected work in Europe and Africa. But more important for his future as an innovative educator, Dr. Logan had the opportunity to visit great churches, listen to the best symphonies, hear noted operas, associate with men who since have become noted in engineering, medicine, art and logistics. He learned French and Italian, lived with the natives and learned to think in their languages.

"I think my European experience was one of the greatest of my life. I think the opportunity to work with the International Health Division was indeed rare. . .it was the finest organization of its kind ever assembled. It was really a pioneer throughout the world in the conquest of disease," notes Dr. Logan.

The staff of the Sardinia project, for instance, was one of diverse interests--men from practically every field.

"I had fellows working for me who knew a lot more about opera than I did, whose prime interest was opera. They took advantage of being in Europe to hear every opera company in that part of Europe. My experience was broader. . .I heard great symphonies, I heard some great operas, I visited great churches, great cafes, stayed at great hotels, learned to speak French and Italian which are vitally important if you are going to live and work with the people.

"I think you have to really live and work with people to get the true benefit of such an experience. I don't think you can understand Europe just traveling on a cook's tour."

Living in Europe and working for the Rockefeller Foundation were great experiences. So why did John Logan leave this kind of work?

The urge to teach was gnawing at John Logan and his family which now numbered three sons (Douglas, Jack and Carlo) was growing up.

"I suppose the reason we arrived at Northwestern was to give the family roots," explains Dr. Logan. "I had completed eight years at the International Health Division and our children were growing up. They weren't sure whether they were Canadians, Americans, Italians or British. They reach a certain age when they have to have roots, so we came back to the United States."

While serving as chairman of civil engineering at prestigious Northwestern University (1954-1962), Dr. Logan broadened his base as a consulting engineer in the United States and made some important breakthroughs in the area of civil engineering research.

Eight years later, Dr. Logan became president of Rose Polytechnic Institute, taking the reins in 1962.

"This was a challenge and I suppose it's the old story of whether you'd rather be head man in a Carthaginian village or the number two man in Rome," notes Dr. Logan. "It's the old thing that Caesar said and I suppose that's essentially the decision you have to make. Nobody knows if I had stayed at Northwestern what might have happened but I had an opportunity here to be the honcho and do my own thing and I looked on this as a challenge and an opportunity."

Assessing his 12 years as president, a time when Rose Polytechnic grew from 500 students to just over 1,000 and accomplished an unprecedented building program, Dr. Logan said:

"I think we have been quite fortunate in alumni support and in getting the Hulman funds. A combination of these have made it possible to do things at Rose which have needed to be done for some time. Rose was suffering through lack of progress. . . it was just running on its reputation. Those are the facts--the school was deteriorating, the physical plant was deteriorating. . . it wasn't maintaining an adequate level of salaries. . . this whole thing had to be turned around. We had to do things which should have been done a long time before, we just had to catch up.

"I believe in terms of faculty, student body and plant, the Institute is now in a highly competitive position in providing leadership among the top colleges of undergraduate science and engineering education in the world," Dr. Logan continued.

Rose-Hulman's growth from 500 to over 1,000 students has been made without sacrificing standards; in fact, the quality of the student body has improved to the point that the middle man entering the freshman class in the fall ranked at the 94th percentile of his high school graduating class.

The faculty is still top drawer. Although a young group (most are in

their mid to late 30s), more than 75 percent of the faculty members have earned doctorates. A ten-year building program has provided a renovation of the Main Building, a new union building, three new dormitories, a new classroom building, and the recently completed Learning Resources Center.

John Logan is rightfully proud of Rose-Hulman's progress during his tenure and is the first to credit tremendous teamwork. Yet, the fact remains that he has been team captain.

Champion of Students Pushes 'Whole Man' Concept of Education.

Dr. Logan listens closely to the student body and has been a champion for student organizations, intramural and varsity athletics and what he calls "a liberal education in engineering and science." He has encouraged and supported greater understanding among the engineering faculty and those of the humanities and social sciences--cooperation which is now emerging in Rose-Hulman's unique program in technology assessment and policy studies.

Art has come to a campus which for nearly ninety years was "all nuts and bolts."

Dr. Logan was influential in the acquisition of the Institute's 130-piece collection of 19th Century British Watercolors--one of the three best collections of the period to be found in North America. The collection was acquired as a memorial to Dr. Logan's first wife, Dorothy, and the wives of Dean Ralph Ross and R.O.T.C. commander Col. Robert Daugherty who were killed in an automobile accident in 1966.

Earlier this year the school acquired the Kappa Kappa Kappa of Indiana, Inc., collection of noted Hoosier artists on a permanent loan basis. At a party unveiling the collection in the new Learning Resources Center, Dr. Logan said, "We're trying hard to overcome the mistaken identity we have concerning art. We are more than nuts and bolts, laboratories and computers. Our students and faculty are interested in music, art, literature and through holdings such as this Tri Kappa collec-

tion and the British Watercolors we hope art will become an integral part of the lives of our students, and, hence, our future scientists and engineers."

Although his personal art holdings are not extensive, a number of paintings his family acquired while living abroad have become valuable. A prime example is the ship's portrait which hangs behind his desk at Rose-Hulman. Purchased for a "modest sum" in the late 1940s, the handsome oil is now a highly sought work of art.

In learning more about John Logan the person, the *Echoes* asked his wife, Norma, for some impressions on his personal traits and habits which might not surface at the office. *Echoes* quickly learned that John Logan is her favorite subject.

Married in the Summer of 1972, the Institute's first couple resides in a home provided for the president in Robinwood subdivision west of the campus - just a good throw away from Art Nehf baseball field. Both have busy schedules, but find time for many evenings comprised of an after supper cup of coffee, a good book and hour upon hour of conversation.

"You've heard of street angels and house devils," noted Mrs. Logan, "Well, John is as nice to live with as he is to know . . . all the places he's been, all the things he's seen, he likes the simple things.

"His idea of a great evening is a cup of coffee, his pipe, a good book or



Dr. and Mrs. Logan

discussion about anything under the sun."

John Logan is an avid reader. He reads everything from the Encyclopedia Britannica to mysteries. A number of publications which he subscribes are magazines of Great Britain and other countries.

Dr. Logan's musical tastes are as broad as the range of his bookshelf--from the Beatles to Bach. And for after dinner conversation he likes classical music for background. When he listens to jazz records, the volume goes way up. "I guess he wants the neighbors to enjoy it too," Mrs. Logan adds.

The president is usually a conservative dresser, buying some suits off the rack and having others tailored. He prefers Scotch plaids and English tweed--and is just as careful with them as his Scotch ancestry might indicate. "He has two or three of those tweed-looking sports coats he wore at Harvard--and still wears them to work occasionally," notes Mrs. Logan.

"John is very conscientious about keeping in touch with his friends," Mrs. Logan relates, "He's very loyal to his friends. He's the only man I know who writes his own Christmas cards . . . he writes a note in every single one. He has friends he has corresponded regularly with for over 45 years."

Mrs. Pauline Griffith, administrative assistant to the president, offered ad-

ditional insight into the way Dr. Logan goes about the business of being president.

"He's very good about getting all his work done early," reports Mrs. Griffith. "He brings his correspondence up to date each morning . . . no matter how many letters are to be written we do it all the same day."

Retirement Plans Include Consulting, Probing Great Ideas.

Mrs. Griffith also tells of Dr. Logan's devotion to his family--and especially to his late mother. Although they saw very little of each other from the time he left Saskatchewan in 1933 until her death in 1970, each Monday morning when Logan arrived at his office, he handed his secretary a letter to be mailed. It was the weekly letter he had written to his mother.

Perhaps it is a measure of this loyalty that has prompted his colleagues to elect him president of the Association of Independent Engineering Colleges (an alliance of the top privately supported engineering schools in the country), the Associated Colleges of Indiana, the Indiana Conference on Higher Education (includes both privately supported and public institutions), and the In-

dependent Colleges and Universities of Indiana. Dr. Logan also has been active in the American Society of Civil Engineers and other professional organizations.

Dr. Logan's place among engineers and his efforts on behalf of education have been recognized through honorary doctorates awarded by Indiana University, Indiana State University, Wabash College and the University of Evansville.

He was among the first to be named to the National Academy of Engineers, highest honor which can be bestowed on an American Engineer. Dr. Logan for some time has been one of the few American members of the Institution of Civil Engineers in London, oldest engineering society in the world.

Having taken some of his Masonic work in Scotland, he recently received the 33rd Degree of Masonry.

Last year the Indiana Society of Professional Engineers named him "Engineer of the Year," saying in the citation: "He is more than an internationally respected engineer and educator. He is a man tuned into the world around him--not only the world in Indiana and the United States, but the world in London, Geneva, Moscow and Tokyo, as well as the world in the developing countries of Africa, South America and Asia."

Although he has no definite plans for his retirement, he stated he wants to continue his consulting work which previously has included assignments with the World Health Organization, U.S. State Department, the World Bank and Milbank Commission.

"I want to keep active consulting, and simply investigating all the great literature, the great ideas and great concepts of things that are happening in the world. I want to keep up to date on these.

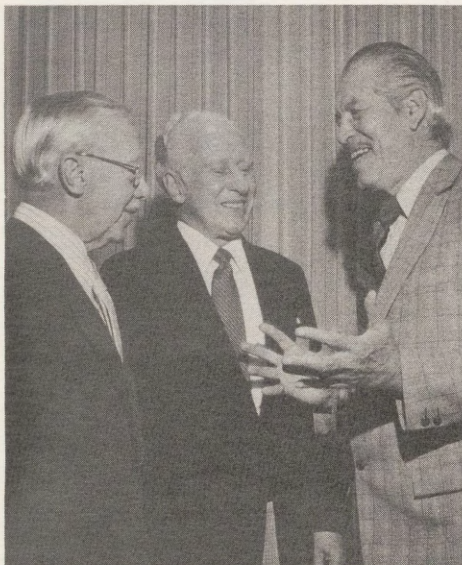
"I don't want to retire into anonymity," he concludes.

Some twenty years ago he moved his family back to the United States to give them roots. The deepest roots are at Rose-Hulman Institute of Technology and Terre Haute, as witnessed by the Logans' recent purchase of a home south of Terre Haute.

John Logan will not retire into anonymity, but will continue to be a leader among men.



Doing his bit for students
Winter, 1975



Relating to alumni

J. B. Wilson Funds Plan to Boost Consulting Field

When many consulting engineers review their careers they quickly realize that many of the most valuable "tools" of the trade such as an understanding of engineering law, contracts and specifications, engineering economy, public speaking and political science were not part of their undergraduate education. In many instances they entered private practice much later in their careers than they now would have preferred and these indispensable "tools" have come through a process of trial and error.

One such consulting engineer, J. B. Wilson (Rose '27, C.E.), president of an Indianapolis-based consulting firm which bears his name, not only recognizes this problem, but has taken steps to see that the field of consulting engineering is promoted at Rose-Hulman.

Underwritten by a \$50,000 grant from Wilson, Rose-Hulman is in the process of establishing a program which sets out to do two things:

Provide engineering students with an awareness of the career opportunities available to the entrepreneur in private engineering practice; and,

Provide elective courses which, in addition to the basic curricula in chemical, civil, electrical and mechanical engineering, will be most useful in private practice to the licensed consulting engineering practitioner.

At the suggestion of Dr. John Logan, who himself is a noted consulting engineer, some of Rose-Hulman's most successful alumni from the consulting engineering field and members of the faculty have formed a Council to develop a unique study program for prospective consulting engineers.

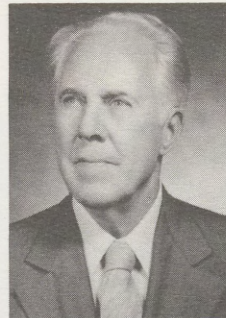
Ernest G. Hurst (Rose '31, C.E.), president of Hurst-Rosche, Inc., consulting engineers of Hillsboro, Ill., is chairman of the Council. Other alumni members are Adam K. Grafe ('25, C.E.), president of Adam K. Grafe Associates of Dallas, Tex.; Charles S. Meurer ('42, C.E.), senior partner of Meurer, Serafini, Meurer of Denver, Colo., and Robert S. Coma ('59, C.E.), an associate with the firm of Howard, Needles, Tammen & Bergendoff of Indianapolis.



E. G. Hurst (center) convenes Consulting Engineering Council.

The faculty is represented by Prof. Irvin P. Hooper as coordinator and each of the division chairmen and professors in charge of engineering degree programs. Other faculty members are asked to lend their expertise at the request of the Council.

In addition to new course offer in engineering economy, public speaking, engineering law, accounting and other topics, the program will gain exposure through a brochure and information programs incorporated into Rose-Hulman's admissions program.



J. B. Wilson

Students currently in school will be made aware of the program through information disseminated by faculty and academic advisers and numerous consulting engineering publications to be made available in the library.

As an integral part of the new program, prominent consulting

engineers will be invited to the campus for seminars and for periods in-residence in order to present special aspects of the profession, including professional ethics, public relations, contracts and specifications, as well as assistance in design courses presently being offered.

It is hoped that through the interest of consulting engineers, summer internships may be arranged for students interested in the consulting engineering.

In addition to this practical experience, students will be urged to attend city council meetings, county and state board meetings, trials involving expert witnesses in cases relating to the engineering profession and a wide range of activities which will give them a better perspective from which to operate as a consulting engineer.

Over the years Rose-Hulman has had an unusually high number of its graduates who have entered consulting engineering practice. It is hoped that the new program now under way will direct more of its outstanding graduates to careers in this most exciting and challenging of professions.

RHIT Provides Engineering Input for Unique Conclave

Representatives of Rose-Hulman provided the engineering input for a unique conference comprised of nearly 300 students, faculty and administrators of 25 independent colleges from across the country who gathered at Reston, Va., in December to discuss "The Social Responsibility of Professionals and the Role of the Liberal Arts College in Preparing People for the Professions."

Sponsored by the Lilly Endowment, Inc., of Indianapolis, the conference was one in a series of meetings among selected colleges whose programs are supported by Lilly Endowment. Fifteen of the 25 colleges already have innovative programs which emphasize the dual importance of value formulation and career preparation.

Rose-Hulman was selected for its expertise in the area of technology assessment and policy studies. Representing Rose-Hulman were Dr. John A. Logan, president; Dr. A. T. Roper, professor and chairman of the division of civil and mechanical engineering and associate dean of the faculty; and Jack Farr II, student body president.

Under the direction of Dr. Roper, Rose-Hulman is developing a unique program in technology assessment and policy studies--one which encourages interdisciplinary cooperation by a number of colleges and universities in west-central Indiana.

Dr. Thom Visits Rose

Dr. Archibald Thom, who served as visiting professor at Rose-Hulman during the 1964-65 academic year, renewed acquaintances during a brief visit to the campus in February.

The visit by the noted lecturer from the University of Glasgow was made possible by an extensive speaking tour of the West Coast and Canada.

Dr. Thom, whom many will recall as a practicing civil engineer, lecturer, authority on Stonehenge and other prehistoric ruins of Great Britain, continues to keep fit by sailing, hiking and pursuing his hobby of studying archaeological sites throughout Europe.

Winter, 1975



MANY NEW MASCOTS--Herbert A. McAninch (left), a 1934 mechanical engineering graduate of Rose, and Mrs. McAninch are shown presenting their miniature elephant collection to Rose-Hulman. Accepting the gift are Dr. John A. Logan, president, and Mrs. Logan. The 77-piece collection, which includes elephants made of jade, ebony, ivory, bronze, wood, ceramics and other materials, was started with an ebony elephant from Panama in 1931 and represents approximately 300,000 miles of travel by the McAninches. Prior to his retirement, McAninch was affiliated with Borg-Warner Corporation and travelled extensively in his work as an executive in overseas corporate development for Borg-Warner. The couple resides on Brandon Road in Auburn, Ind.

Archives Room Honors Mrs. Elsie Pawley

Rose-Hulman Institute, which prides itself on its "liberal education in engineering and science," has seen fit to honor the school's primary benefactor of the humanities by naming the recently completed archives room of the Learning Resources Center in honor of Mrs. Elsie Bisland Pawley.

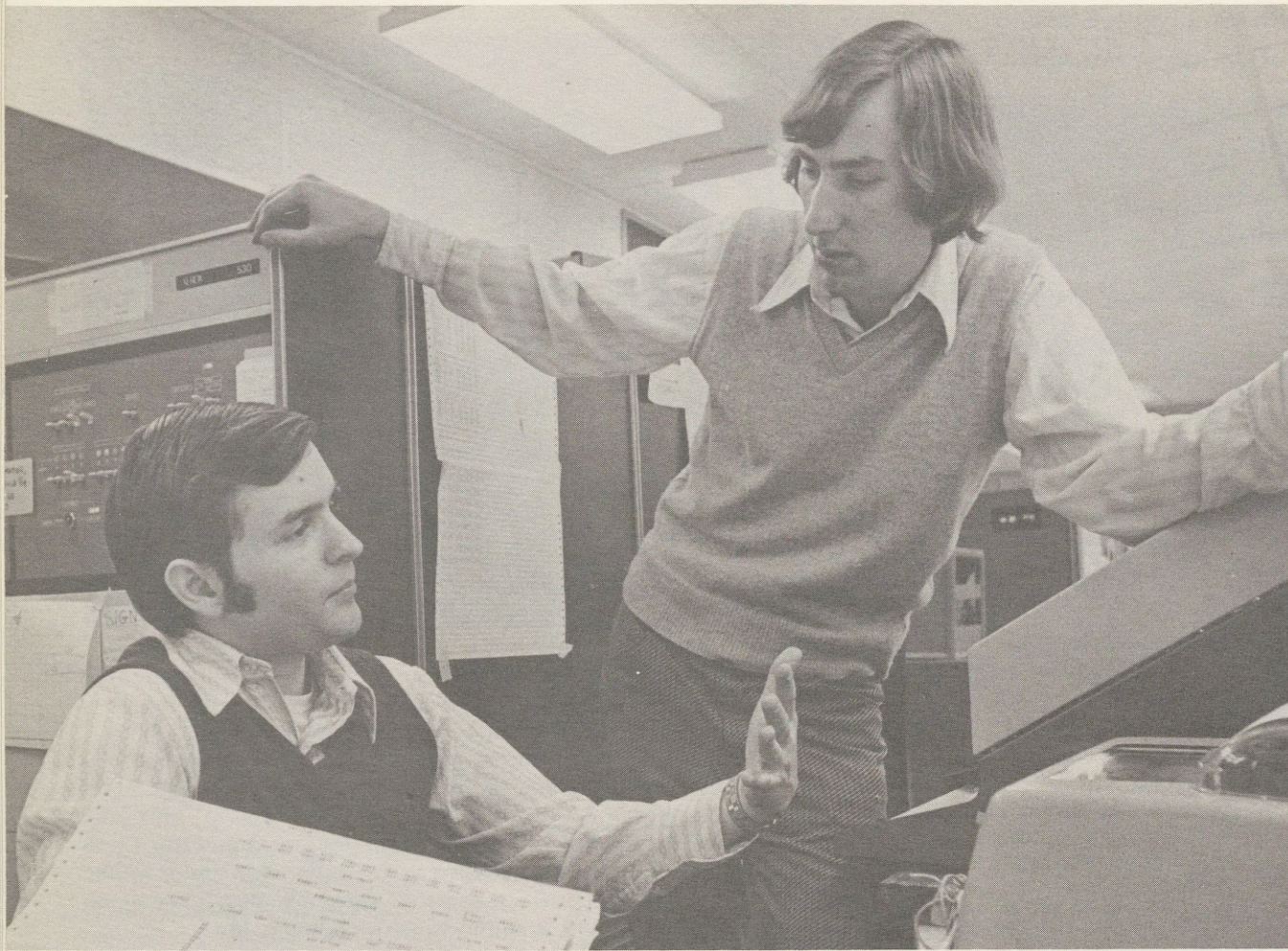
Mrs. Pawley, a local businesswoman, world traveler and patron of the humanities, died in 1972 at 92 years of age. For many years prior to her retirement she headed the S. H. Pawley Lumber Co., Inc., and the Wabash Lumber & Supply Company with yards in Terre Haute, Brazil, Cayuga, Center Point, Dana, Perrysville, and St. Bernice.

She bequeathed more than \$275,000 to Rose-Hulman "solely and exclusively for the use and benefit of the department of Humanities and Social Sciences to provide students of specialized professional education with a broad, general background in the humanities

and social sciences to better equip them with a capacity for responsible action in any social setting in which they may find themselves after graduation from the Institute."

Mrs. Pawley gained her insight into the Rose-Hulman student through her frequent visits to the college to hear guest lecturers and through conversations with John G. Biel, Terre Haute attorney who for many years taught business law and related courses at the Institute.

"This generous gift from Mrs. Pawley gives Rose-Hulman the opportunity to develop programs in humanities in new and meaningful ways," Dr. Logan said, "It recognizes the importance of the humanities in engineering education and reflects her concern for the development of the 'whole man'--a primary need of our profession today and tomorrow."



Bill Schindel (left) directs the computer operation.

New Computer Fastest 530 System in West!

Although there was little if any fanfare, 1974 was the twenty-fifth anniversary of the digital computer. Few other inventions in the history of man have enjoyed such growth, sophistication and impact on our daily lives in such a short period of time.

In the decade of the 1970s alone computers were put on a chip of silicone the size of the head of a pin. The largest of a growing number of computer developers and manufacturers has grown to the place where its impact is \$10 billion annually, and the size and scope of the industry as a whole is one of those things which cannot be given a dimension.

Rose-Hulman Institute of Technology has not been standing on the sidelines

during this development. Rose got into the computer business in late 1960 with the acquisition of a Bendix G15 and graduated to the IBM 1130 system in 1965. In 1968 Rose increased its computer capabilities by joining the experimental Indiana Regional Computer Network (IRCN) which linked 11 educational institutions with Purdue University's powerful CDC 6500 and IBM 7094 systems.

Under the direction of computer center director William Schindel, a 1969 graduate of Rose-Hulman in mathematics, Rose-Hulman moved to a new batch computer system at year's end. The new system, a Xerox 530, and the Digital Equipment Corporation PDP 11/40 time-sharing computer installed in 1973 give Rose-Hulman 10-year newer

computer technology and a host of benefits.

Schindel, who worked as a design engineer for a major computer manufacturer for two and one-half years prior to returning to Rose-Hulman to teach mathematics, says of the newest acquisition:

"It's a 10-year newer machine and as a result embodies new technology of the last 10 years. It offers resources to student users previously provided by the Purdue link.

"For the same dollars we are buying three times the internal speed, two times the high speed memory, four times the mass memory and a line printer two to six times faster than the former operation."



with this 'hands-on' computer," notes Schindel.

"Interestingly enough, the humanities faculty uses the PDP-11. The best known humanities programs are world simulation models GLOBE 6 and WORLD II."

Other types of programs which Prof. Schindel classifies in the "colorful user category" (whatever that means in computer jargon) encompass many topics of the engineering/science laboratories.

Dr. Noel Moore has a program for chemical engineering in which students conduct simulated experiments in chemical control on the time-sharing terminal located in the chemical engineering laboratory.

Dr. Everett Killam, a newcomer to civil engineering, has his classes doing structural analysis on the batch computer, while Professors Herbert Bailey and Dale Oexmann have sophisticated programs in operations research.

The operations staff of the computer center is comprised exclusively of students drawn from every discipline. The idea of giving students the opportunity to gain experience in the computer operation was put into practice by Dr. Darrell Criss in 1960.

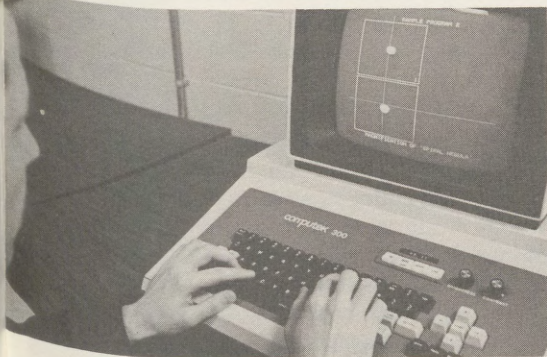
Through the years some of Rose-Hulman's most proficient "computer gunners" have come up with some sound programming and have actually made some breakthroughs.

Both Criss and Schindel are quick to recognize the advances in system programming made by the students--advances which have led what may have been the most sophisticated 1130 system in the land.

"People who really know computers have a real appreciation for the old 1130," says Schindel. "We found that our 1130 outperformed on speed and sophistication IBM 1130s installed elsewhere. In fact, it outran at least two systems proposed as its replacement in 1974."

And so the computer story at Rose-Hulman continues. In a few years we'll be updating the saga again, explaining how through excellent student/faculty rapport and a free rein to experiment and learn, students and faculty developed the present capability to be the most sophisticated system of its kind anywhere.

The fastest Xerox 530 in the West!



Cathode ray terminal

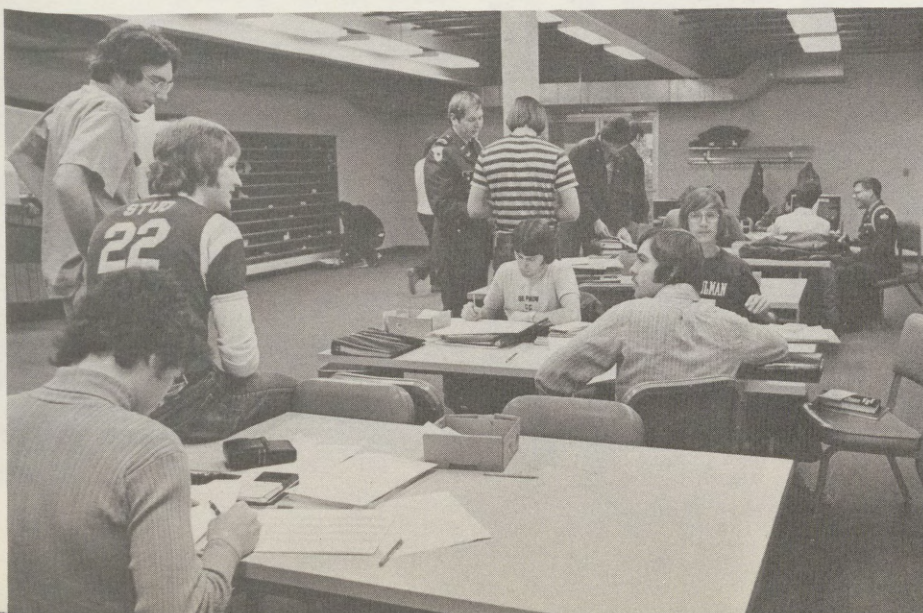
The new 530 system processes student batch programs punched on cards. According to Schindel, these may be freshman programs, more sophisticated assigned programs in upperclass engineering or science classes

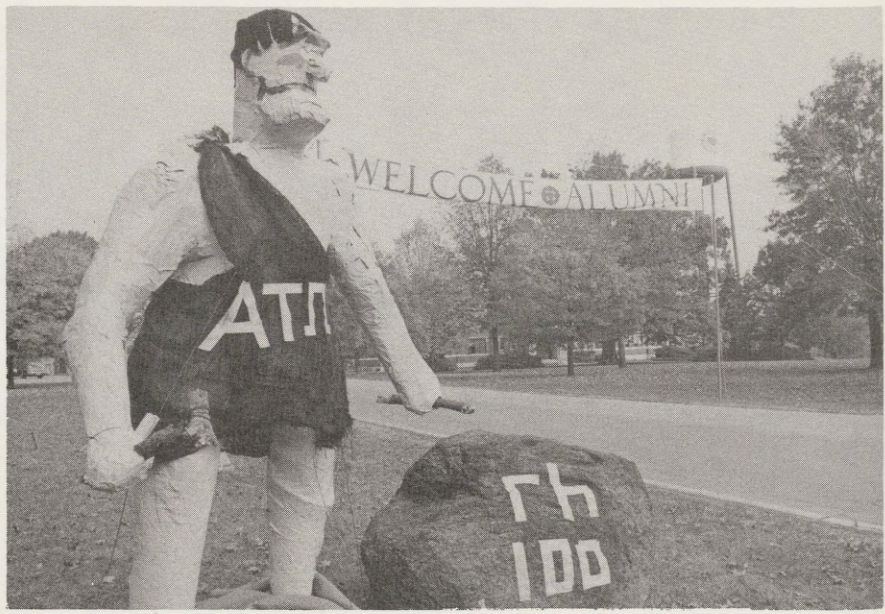
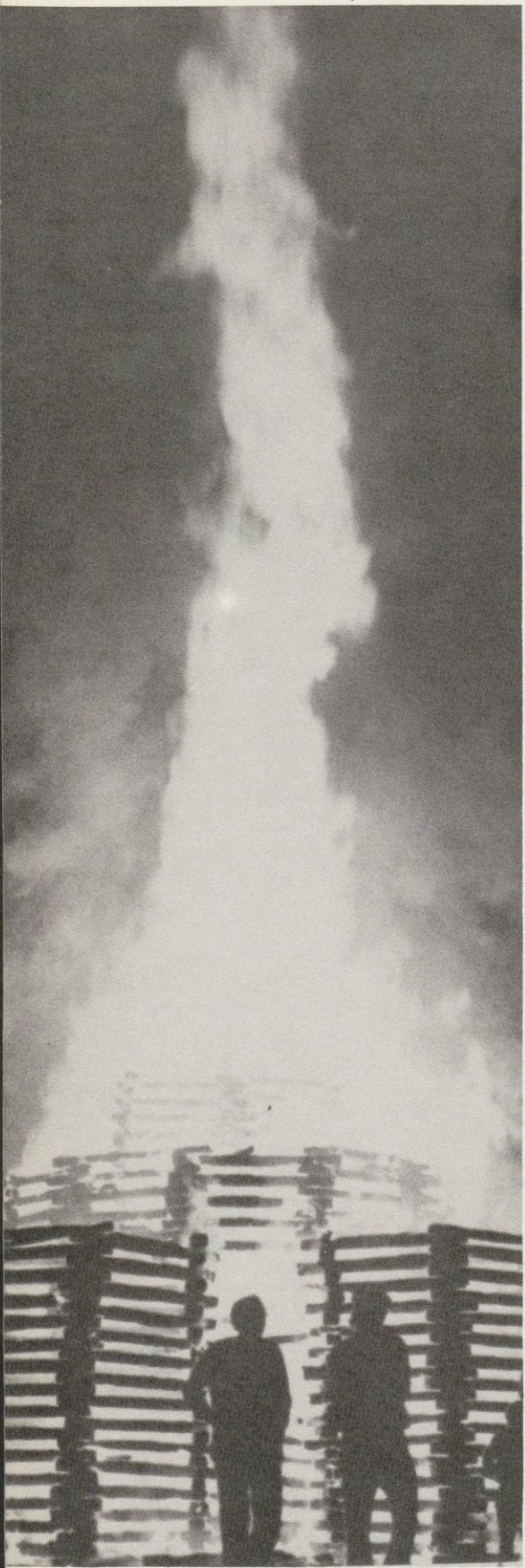
or the many programs generated by the computer science group which has had a rapid growth on the campus in the last two years.

The PDP 11/40 computer operates in the time-sharing mode. There are 14 computer terminals scattered throughout the academic building--some are located in laboratories, while others are in classrooms or in special departmental terminal rooms. Terminals include typewriter terminals which run up to speeds of 30 characters per second and cathode ray terminals (120 characters per second) which display graphical output such as the physics department's program of dynamic simulation on the graphic screen of bodies orbiting each other in space.

"While the PDP-11 is used primarily by the engineering courses, every department in the school gets involved

Debugging room





CENTENNIAL HOMECOMING

Ever since Josephus Collett of the original Board of Managers of Rose Polytechnic Institute suggested that the then young college invite its 27-member alumni body to attend the first reunion dinner at the Terre Haute House on June 23, 1887 at the expense of the institute, homecoming has been the social event of the year at "Dear Old Rose."

To be sure, the college can longer afford to pick up the tab for the banquet, but something called school spirit, the opportunity to reminisce with friends, the world's largest ceremonial bonfire and many other attractions draw alumni from coast to coast and beyond for the annual party.

Homecoming '74, which took on special significance as a major event of the Centennial Celebration, proved to be all that planners said it would be -- a party just a little bigger and a little better than the ones which came before it.

So, from Richard Madison of the Class of 1913 to a substantial number of 1974 graduates, they came to Homecoming '74. The fifty-year Class of 1924 beat the rush for a party on the Thursday evening of Homecoming Weekend; the Fifty-Plus gang had its share of excitement and fun at a dinner emceed by Ruel "Fox" Burns '15, and the Classes of Fours and Nines from 1929 through 1969 partied at locations throughout the city on Friday evening.



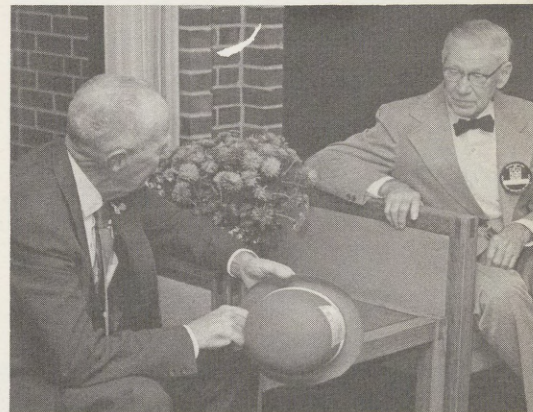
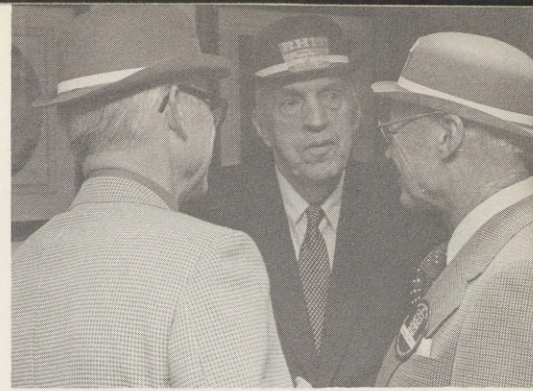
"Hazing" of the Class of 1924.

Despite a shortage of railroad ties and an even more dwindling supply of outhouses in the Wabash Valley, the freshman class (that's correct, the Class of 1978!) erected a bonfire fitting the centennial occasion. As the well-engineered edifice went up in so much smoke, some skeptics suggested that it might be the last of the big bonfires. One wonders if they were also toying with the idea that a freshman class may not show up next fall.

There also was a new Rosie for a new century. The former wood, wire mesh and plaster of Paris elephant, which for **Fifty-plus Gang.**

many years has served as mascot, met an untimely demise at the hands of the sophomores last year. The death certificate read: two trips to the bottom of Lost Creek. Perhaps it was time for a redesign and some "new blood" for this time-honored tradition.

Saturday's program included the annual meeting (see minutes elsewhere in this magazine), the Alumni Honors program with a mid day format which met with overwhelming approval, and the third Homecoming football victory in four years by Coach Bob Bergman's eventual College Athletic Conference grid champions.



Mary Ann Stuckey Reigns Over Homecoming 1974

With all the business and ceremony of the weekend concluded, Saturday evening was purely party. The Centennial dinner show included prime rib and dancing to the John Hunt Orchestra (*Echoes* noted that members of the classes prior to 1950 were definitely better ballroom dancers than their younger counterparts). The "Music Express," a singing/instrumental group, made a hit with songs popular from the 1890s to 1974, but the comedian(?) who travelled with the group failed to make the grade with the audience.

Meanwhile down in Shook Fieldhouse, students and many younger alumni took in a rock concert featuring "STYX" (a student reporter for *The Thorn*, termed the performance a success).

As has been the case since the early 1960s, feminine beauty reigned at Homecoming. Chosen as homecoming queen from an original field of eleven pretty lasses was Mary Ann Stuckey, a sophomore at Indiana State University.

The 19-year-old Beech Grove beauty, a Lambda Chi Alpha Calendar Girl for 1974-75, is pursuing a major in office administration and a minor in English at ISU as preparation for becoming a legal secretary.

Serving as Miss Stuckey's court were finalists Pam Venardi, Clinton, representing Alpha Tau Omega; Joni Ziska, Indianapolis, representing independent students; Marty Geyer, Lombard, Ill. (Phi Gamma Delta), and Dawn Ann Ray, Odon (Theta Xi). All are students at Indiana State.



Archer, Whitehouse and Criss Receive Honor Alumni Awards; Peddle Recognized

Presentation of Honor Alumni Awards is an annual highlight of homecoming. The award--highest honor bestowed by the RoseTech Alumni Association--recognizes outstanding service to Rose-Hulman, the students and alumni.

Receiving the honor for 1974 were Russell E. Archer, Sr., '34; Vern E. Whitehouse '40, and Dr. Darrell E. Criss Feb. '43. A posthumous award honored John B. Peddle '88, who served on the Rose faculty for 39 years as professor of machine design. Mr. Peddle also served as acting president from 1928 to 1930.

Archer, who operated an electronics business in Terre Haute prior to entering investments field as an independent broker, has served as president of the Wabash Valley RoseTech Club, president of the RoseTech Alumni Association (1963) and was the alumni representative on the Board of Managers from 1966 through 1970. He has been active in civic work in the community including the Wabash Valley Council Boy Scouts of America, the Community Chest and United Way for 30 years, the Terre Haute Kiwanis Club, and the state Board of Indiana Citizens Committee on Crime and Delinquency.

Whitehouse, a member of the Class of 1940 who now serves as head of industrial relations for Louisville Gas and Electric Company, also has contributed substantially to the alumni relations of the school. He has served as president of the Louisville RoseTech Club, president of the RoseTech Alumni Association (1973) and on two occasions has been national chairman of the annual fund--a task which demands a close relationship with the greater alumni body. He has also served in capacities dealing with student recruitment, awards and recognition and many other committees, and currently is an alumni representative on the Board of Managers.

Dr. Criss, who was graduated from Rose-Hulman during the accelerated program during World War II, returned to his Alma Mater as an instructor in electrical engineering in 1946. With the exception for leaves to earn M.S. and Ph.D. degrees in electrical engineering

Winter, 1975



Juliet Peddle accepts award.

at the University of Illinois, his tenure as a teacher and administrator has been continuous.

Promoted through professorial ranks to full professor, Dr. Criss has been responsible for the computer operation at Rose-Hulman until earlier this Fall in addition to a regular teaching load and a six-year tenure as dean of the faculty from 1965 through 1970.

Dr. Criss served the RoseTech Alumni Association as Secretary-Treasurer from 1947 through 1964--longest tenure of any officer in the history of the association which dates back to 1888.

His contributions in this office were many and varied, but perhaps the greatest service was the writing and editing of the Alumni Quarterly--a vital link between the school and its alumni.

The honoring of the late Mr. Peddle virtually spanned the history of the Institute. Prof. Peddle was the son of Charles R. Peddle, a confidant of founder Chauncey Rose who contributed to the founding of the college.

A plaque placed in the Main Building in his honor by the Class of 1936 perhaps describes him best: "John Bailey Peddle, M.S.M.E. Rose 1888 -- Faculty Member, 1894-1933. A skillful engineer, an able administrator, a stimulating teacher, a true gentleman, a friend to every student."

His daughters, Juliet and Elinor Peddle of Terre Haute, accepted the award.



Russell E. Archer, Sr.



Vern E. Whitehouse



Darrell E. Criss



'24



'29

Class Reunions, Etc.



'34



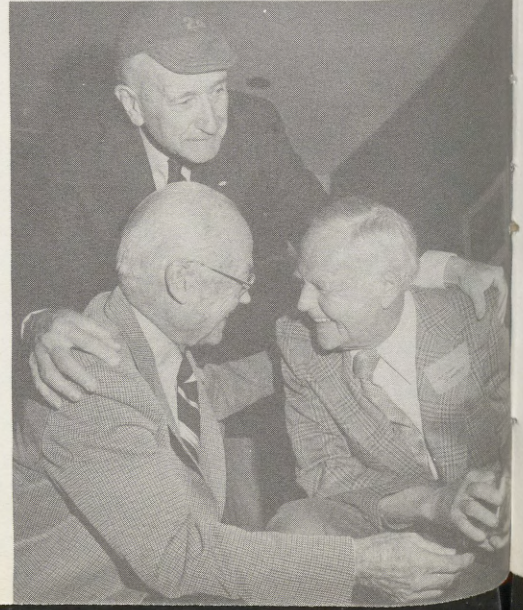
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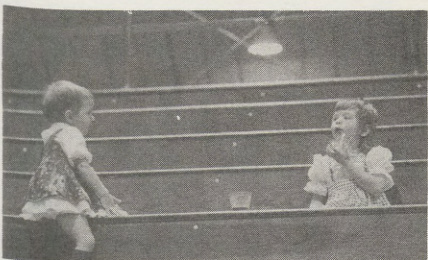
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'59



'64



'69

Enhancement of Rose-Hulman's international reputation and the need for innovation, flexibility and continued excellence were the key words of the

Convocation on the Future

At the insistence of Prof. Alfred Schmidt and others on the Centennial Celebration steering committee, Rose-Hulman intentionally avoided a "grand finale" to the centennial. Since the mission of an institution such as Rose-Hulman is the future, it was decided that the proper way to draw the line on the centennial was to stage the "Convocation of the Future" and launch the second century.

Thus, on Tuesday, Jan. 14, 1975 an "in-house" convocation was held which set out to do four things:

-- To provide an overall perspective of the institution through a keynote address by the eloquent and witty Judge Graham Don of London.

-- To honor alumni--the product of the college--through the presentation of Distinguished Achievement Awards to graduates who have used their Rose engineering backgrounds as springboards to careers in a wide variety of professions.

-- To gain insight into what the future holds for Rose-Hulman through an address by Dr. John Logan, a visionary engineer and educator who has guided Rose-Hulman through the most exciting period of its history.

-- To sum up the Centennial Celebration and the Rose-Hulman philosophy as only Senior Vice President Herman Moench can do.

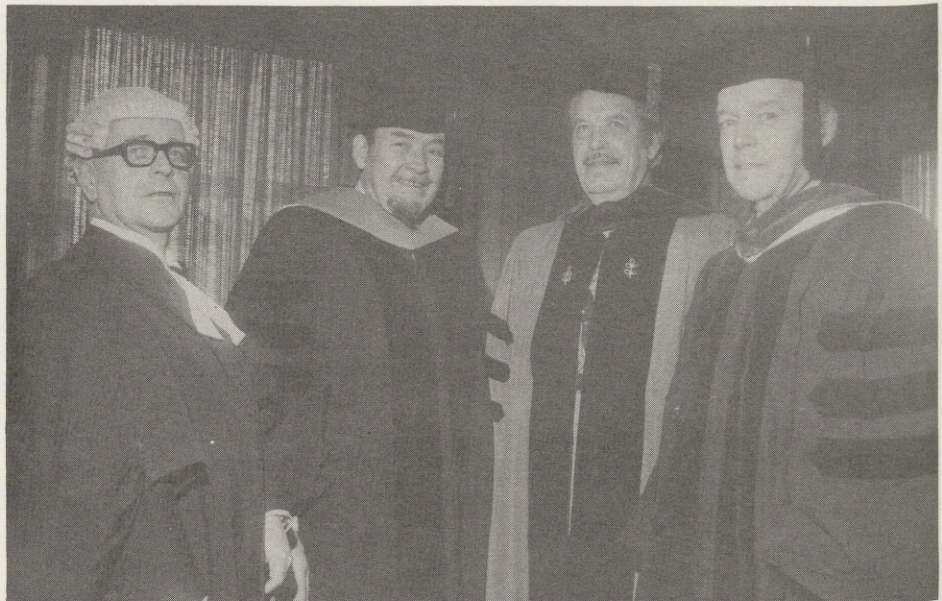
Each of the four goals of the "Convocation of the Future" was carried out masterfully by those in charge. And as students, faculty, alumni and friends left the auditorium on the occasion they undoubtedly departed with the idea that Rose-Hulman knows its mission well and is prepared to do those things which are necessary to assure its future.

Although it is impossible to convey the mood, wit, command of the English language and delivery of Judge Don on the occasion through the medium of printing, the message of the keynote address was relatively simple: Rose-Hulman indeed has an international reputation, one which will be enhanced in the second century.

"Of the first century, I need say nothing," said Judge Don in his opening statement. "It's all recorded in that really magnificent publication by your Professor (John) Bloxsome *Rose: The First One Hundred Years* which I have read with the greatest of pleasure. I must say I don't think I've ever read any similar history which has impressed me so much. So I will leave the first century to Professor Bloxsome.

"Let me make a commentary on your curriculum. First of all, I am delighted with its depth and breadth. There used to be a tendency, certainly in England, for technical instruction to be confined to technicalities. And this, I think, has been a great mistake.

"Sir Walter Scott once said, 'a lawyer without literature or history is a mere mechanic . . . a working mason.' What is true of lawyers is equally true of engineers. I have had some experience of teaching postgraduate medical people in England . . . a surprising percentage of them are verging on the illiterate. Even though to know something, a great difficulty in communicating it to others means you keep your knowledge to yourself and it cannot be of any value to others. . . ."



Convocation principals Judge Graham Don, Dr. Herman A. Moench, Dr. John A. Logan and Board Chairman Benjamin G. Cox.

"One of my favorite authors, of course, is Edmund Burke who has said, 'people who will not look forward also have never looked back to their ancestors.' You at Rose can look back to your ancestors with pride and hope. You already have many among your alumni who have influenced the growth of engineering around the world."

"Now both in your country and mine we have recently gone through and are going through a very somber, trying period. There are those who predict gloom and disaster for both countries. Certainly for England we have several people who tell us that we have no future at all. I do not believe it . . . I am absolutely sure that this great country of America will go forward to greater and greater things and that Rose-Hulman Polytechnic, being representative of all the best in America, will go forward equally to a great future which will outlive, outshine your illustrious past."

In developing his remarks on the future of Rose-Hulman, Judge Don said:

"You are young in your second century. And how will Rose develop? Well, I think if you can keep up the momentum of the past decade the possibilities are infinite. From a very small local school of six students you have now grown to a school known far beyond the boundaries of middle west America. And I cannot help but predict you will become an international school of engineering, drawing your students from the four corners of the earth.

"It may be that the increase in numbers may not be so very great . . . that is not necessary. But I think your influence will grow and be heard throughout the world. After all, your roots are already international. Rose-Hulman has had two main influences--Rose and Hulman. Chauncey Rose came from the highlands of Scotland as did the forebears of your present president. Anton Hulman's forebears came from Germany.

Dr. Logan on RHIT's Future

In speaking on Rose-Hulman's future, Dr. Logan underscored the fact that the Institute must recognize the importance of change.

"Complacency can be deadly," Dr. Logan exclaimed in his introductory remarks. "Unless Rose-Hulman can con-

Winter, 1975



Distinguished Achievement Award Winners, Bill Gaither, Bill Perkins, John Bizal, Fred Terry, Leroy Mitchell and Tom Reese.

tinue to adopt new programs and create new facilities, while retaining its basic philosophy of excellence, the status of the school must eventually be lowered.

"The Institute must retain a high degree of flexibility. Within the limits imposed by the Engineers' Council for Professional Development, it must be willing to introduce new programs and revise old ones to meet the changing demands on science and technology which will be required by society."

Dr. Logan emphasized certain critically important fields emerging at the present time, including energy, environmental control, conservation of resources, technology assessment, as well as social problems such as unemployment, crime and delinquency.

"Rose-Hulman must be prepared to provide vitally innovative input in the area of interinstitutional cooperation which in turn should lead to more relevant education, curricular enrichment and important economies. . . We must also provide leadership in the development and use of new technology in the area of learning and teaching."

Dr. Logan also lauded Rose-Hulman's entry into the College Athletic Conference and renewed his plea for greater opportunities for individual participation in recreation and athletics.

"At all costs, Rose-Hulman must maintain the quality of its faculty, the effectiveness of its teaching and the belief in the importance of the individual

student," Dr. Logan said in conclusion.

"All of these points, I believe, are logical and legitimate objectives in Rose-Hulman's continuing concern for excellence and the utilization of science and engineering for the benefit of mankind."

Six Alumni Honored

Six alumni who have distinguished themselves in a variety of endeavors not normally associated with engineering were presented Rose-Hulman's newest honor--The Distinguished Achievement Award--during the convocation.

Honored were *Leroy W. Mitchell*, J.D. (electrical engineering, Class of 1949), Rockford, Ill., patent attorney; *William S. Gaither*, Ph.D. (civil engineering, 1954), dean of the College of Marine Studies of the University of Delaware; *John A. Bizal*, M.D. (chemical engineering, 1957), Evansville specialist in ear, nose and throat and reconstructive surgery; *Thomas L. Reese* (civil engineering, 1958), president of Universal Tank and Iron Works, Inc., of Indianapolis; *William C. Perkins*, D. B. A. (civil engineering, 1960), professor of quantitative business analysis and chairman of the undergraduate program in business at Indiana University; and *Fred E. Terry*, Ph.D., (electrical engineering, 1962), associate professor of electrical engineering and chairman of the engineering division of Christian Brothers College in Memphis, Tenn.

Centennial Salute

Indiana Society of Chicago Honors Rose-Hulman and Speedway

Rose-Hulman Institute of Technology literally moved to center stage as the school was saluted as the college of the year during the annual Hoosier Homecoming sponsored by the Indiana Society of Chicago in December.

Imagine the Chicago Conrad Hilton Hotel's huge ballroom filled to overflowing with more than 1,200 Hoosier notables dressed in tuxedo and white tie. Now add a dinner show spiced by the wit of Phil Harris (Linton), the commentary of noted sportscaster Chris Schenkel (Bippus), the beauty and talent of Miss Indiana Penny Tichenor (1974 Miss America finalist from Owensville), and appearances by Pat Buttram of movie fame, Jack Imel (Portland) of the Lawrence Welk TV Show, scantily clad dancing girls and many other performers and you have the 60th annual dinner of the Indiana Society.

It was not only quite a night on the town for Hoosier sons who participated, but was indeed an honor and distinc-

tion for Rose-Hulman, the first privately supported institution accorded a salute from the Indiana Society. Heretofore, only Indiana's four state universities

have been honored by the society whose entire purpose is promoting the Hoosier heritage in the Chicago area.

Rose-Hulman was saluted as the university of the year, while the Indianapolis Motor Speedway was honored as the company of the year for 1974. The "Who's Who" of practically every city and town in Indiana and many favorite Hoosier sons who now live in Chicago were on hand for the occasion.

Approximately 90 Rose-Hulman students joined the 30 board members and school officials who represented Rose-Hulman on the occasion of the salute. The Rose band, glee club, color guard and Rose Rifles exhibition drill team performed as part of the overall show put together by Indiana Society President Rembrandt Hiller and seasoned show coordinator Johnny Jones.

Those who doubted that a men's engineering school could come up with nearly an hour of the evening's program



Indiana Society President Hiller presents silver cup to Dr. Logan.

Echoes

soon learned that Rose-Hulman students can indeed be effective showmen. In fact, response to freshmen soloists Mitch Hulen (Sullivan) and Dave Mahoney (Jeffersonville) and the performance by the drill team exceeded the wildest of expectations.

Indiana Society President Hiller, director of public relations in the Midwest for Sears, Roebuck & Company, cited Rose-Hulman for its contributions over the last century.

It was noted that Rose-Hulman "is small, progressive and independent. It intends to remain so. It is a product of the competitive enterprise system and is determined to continue its support of that system."

Those in attendance appeared to agree with this philosophy if their response to Dr. John Logan's brief remarks of acceptance can be used as a benchmark.

Dr. Logan then presented Distinguished Achievement Awards to Hoosiers Harris and Schenkel and announced the school's intention to designate each year a student from Chicago as the "Indiana Society Scholar of the Year."

The Indiana Society of Chicago salute to Rose-Hulman was perhaps the biggest "friend-raising" event the school has ever been privileged to participate-- a fitting complement to the Centennial Celebration.

In 1973 he was elected secretary of the faculty and by virtue of this position is the faculty's representative on the Board of Managers' committee on student affairs. He also is one of two faculty members on the recently seated presidential search committee.

A native of Ohio, Dr. Moore earned a B.S. in chemical engineering from Purdue University in 1956 and his M.S. from the Massachusetts Institute of Technology in 1958. He later returned to Purdue where he earned his Ph.D. in chemical engineering in 1967.

Dr. Moore came to Rose-Hulman from the University of Kentucky where he was a member of the faculty from 1964 to 1968.

Dr. Dyer joined the Rose-Hulman faculty in 1971 as chairman of the division of humanities, social and life sciences.

A native of Portland, Me., he earned an A.B. in international economics from Dartmouth College in 1965, an M.A. in English from Indiana University in 1966 and a Ph.D. in English literature at Indiana in 1971.

Prior to joining Rose-Hulman he taught at Indiana (1963-66), DePauw University (1966-68), Butler University evening division (1966-68) and again at Indiana from 1968-71. During his last assignment at Indiana University he was assistant dean of the University Division in addition to teaching upper-level writing courses.



Dr. Logan, Tony Hulman, Ben Cox share in lighter moments.

Dr. Guthrie, Moore, Dyer "Outstanding Educators".

Three members of the faculty at Rose-Hulman have been named for inclusion in the 1974 edition of "Outstanding Educators of America."

Nominated earlier this year for this honor on the basis of their professional and civic achievements, the trio includes Dr. Frank A. Guthrie, professor of chemistry; Dr. Noel E. Moore, professor of chemical engineering and director of graduate studies and research; and Dr. Calvin R. Dyer, professor of literature and writing and chairman of the division of humanities, social and life sciences.

Dr. Guthrie has been a member of the faculty at Rose-Hulman since 1952. A

Winter, 1975

graduate of Hanover College in 1950, he continued his education in chemistry at Purdue and Indiana universities where he earned the M.S. in 1952 and Ph.D. in 1962 respectively.

He is active in the Analytical Division of the American Chemical Society and is editor of the Analytical Division's annual directory. Dr. Guthrie also is active in Phi Gamma Delta fraternity, serving as faculty adviser to the Rose-Hulman chapter.

Dr. Moore joined the Rose-Hulman faculty in 1968 and was given the responsibilities of director of graduate studies and research the following year.

Modulus Returns

The *Modulus*, which had not been published as a case bound yearbook since 1969, returned to the scene during the Centennial Year.

Headed by Larry Gatewood of Westport, Ind., and produced by a freshman-sophomore staff, the 176-page book is a handsome piece of journalism which includes a pleasing blend of history and Rose-Hulman today.

It includes some artwork and ads from Rose yearbooks of yesteryear, as well as a pictorial history of the school.

The remaining 1974 yearbooks and the 1975 edition of the *Modulus* are currently on sale. Checks in the amount of \$7.00 should be made payable to *The Modulus*, Rose-Hulman Institute of Technology, Terre Haute, Indiana 47803.

Engineers Set Sights On CAC 'Big Bell' Trophy

Fightin' Engineer varsity athletic teams have taken a decided edge in the College Athletic Conference overall standings and have designs on bringing the three-foot high "Big Bell All-Sports Trophy" home with them from the Spring sports carnival at Sewanee, Tenn., in May.

Coach Bob Bergman's 5-3-1- football team and Coach Jim Carr's 6-0 cross country team swept to CAC titles on the same day--Saturday, Nov. 2. Paced by All-America Dennis Dierckman with a record-breaking run and buoyed by seven runners among the top 10 finishers, the Engineer harriers left absolutely no doubt concerning their supremacy in the grueling sport.

Some three hours later the football team handed arch-rival Principia a 49-0 shellacking and annexed the CAC grid title.

The basketball team, while getting off to a slow start, has kindled old fires in Coach John Mutchner. Finishing 14-10 on the season, the predominately freshman-sophomore ball club shared second place in the CAC. It appears now that only a CAC title will be good enough in 1975-76.

Football--Savvy and Depth

If one were to make a composite scouting report of the Engineers' '74 football team, he would come to the conclusion that Rose-Hulman has a very sound football program.

After losing the first two games to Franklin (20-6) and Wilmington (22-3), the Engineers either won or tied six of the seven remaining games. Defeating Earlham 10-9, the team came of age in a near-upset at Hanover's homecoming (21-18) and had things well under control for the rest of the season. The Engineers battled Southwestern at Memphis to a 14-14 tie and then defeated Illinois College (26-0), Bluffton (24-21), Principia (49-0) and Concordia (20-7).

At season's end Kevin Kingery (Frankfort) was named the Most Valuable Player. He posed a double-barrelled

threat to opponents as he rushed 178 times for 849 yards and caught 35 passes for 332 yards to lead the Engineers in total offense. He ran for five touchdowns and caught a pass for another to lead all scorers.

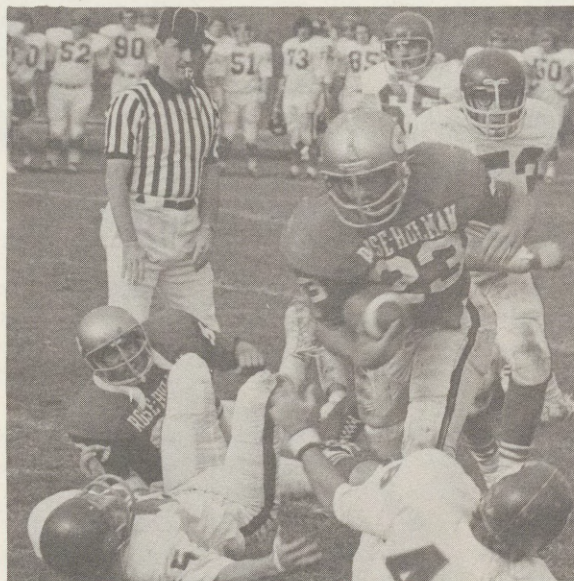
Quarterback Gary Lee (Lebanon, Ohio), who stepped into the signal-calling chores after a summer work injury sidelined Pat Noyes after two games, received the award as the most valuable offensive back. Lee connected on two-thirds of his passes (93 to 142) for 1,004 yards and seven touchdowns as the Engineers developed the most potent offense enjoyed by a Rose-Hulman team in 15 years.

Dennis Schultz (Harrison, Ohio), a three-year starter at center, was named the most valuable offensive lineman, while guard Jeff Smith (Brazil), defensive tackle Jeff Kissinger (Merrillville) and running back Jim Shegog (Momence, Ill.) received the awards as the most improved freshman, sophomore and junior players respectively.

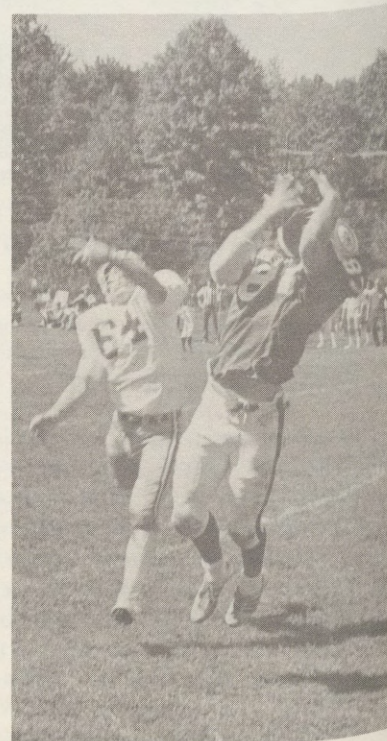
Smith, one of only 10 freshmen who lettered, was cited for outstanding improvement while playing with the Engineers' veteran offensive line. Kissinger came into the spotlight while moving into the tackle spot in place of injured captain Jack Farr. Although Farr returned to the lineup in the fifth game Kissinger stayed on as a starter for the second half of the season.

Shegog came on strong late in the season, gaining more than 150 yards on three occasions enroute to 875 yards in 140 carries. The last game of the season he had 191 net yards and came within inches of scoring his fourth touchdown of the season on one 64-yard break-away run. The junior running back also scored one time through the airways on a screen pass from Lee which went 50 yards and assured the Engineers of a tie with CAC leader Southwestern at Memphis.

Steve Wolodkiewicz (Dayton, Ohio) was named the most valuable defensive back, while Dave Linderman (Lake



Kevin Kingery (23) breaks for long gainer; Mike Mueller (87) hauls in pass.



Echoes

Village) repeated as the team's most valuable defensive lineman. Strong side linebacker Wolodkiewicz led the team in tackles (85) for the fourth straight year, while middle guard Linderman was second with 69 and one-half. One point is given for solo tackles, while one-half point is given for assisted tackles.

Headed by Wolodkiewicz, Linderman and others, Coach Joe Touchton's defensive unit turned in an outstanding season in 1974 while holding two teams scoreless and each team is played below its average.

The Engineer defense held opponents to an average of 150 yards rushing and 95 yards passing. Opponents scored 14 times against the Engineers, with only three of them via the pass.

Sophomore Mike Cox (Decatur, Ill.) received the "Hambo" Award, while Pat Noyes (Harrison, Ohio) was the recipient of the Unsung Hero Award.

Cross Country--Dierckman and Depth

When Dennis Dierckman of Batesville entered Rose-Hulman some three and one-half years ago he had no thoughts of being an All-America cross country runner before his graduation.

But through the perseverance and hard work appreciated by only a few, he achieved this distinction by finishing

ninth out of a field of more than 300 runners in the NCAA Division III cross country championships at Wheaton, Ill., in mid-November.

Denny has been the pacesetter in distance running at Rose-Hulman for four years, having been MVP in cross country since 1971. His personal achievement both in the classroom and in distance competition has been outstanding, but perhaps his major contribution to Rose athletics has been both the pace and example he has set for teammates.

The 1974 season was supposed to be what coaches call a "rebuilding year." The response from a young cross country team pleased Coach Carr, especially the performance in the CAC and NCAA meets.

Rose-Hulman, which finished 18th out of 45 teams in the NCAA, defeated Northwood (16-46), Wabash (25-30), Franklin (15-50), Butler (26-29), Evansville (27-32) and DePauw (23-36) during the regular season, and participated in invitationals at Wabash, Marion and DePauw.

Cross country participants receiving recognition were seniors Dierckman and Steve Clauter, of Scottsdale, Ariz. (fourth-year plaques); Mike Korkos and Alan Cassidy, both of Indianapolis, and David Schact, Terre Haute (second-year

certificates) and first-year letter winners Bill Fox, Indianapolis; Dennis Funk, Wolcottville; Guy Gadowski, Bay Village, Ohio; Robin McClain, Martinsville, and Alan Stoner, Jeffersonville. Others who participated but did not letter were Steve Decker, Cresskill, N.Y.; Mike Denault, Elkhart; and David Steen, Fountaintown.

Basketball-Good Times Return

The Engineer basketball team, which won 11 of its last 16 games enroute to a 14-10 season overall, provided fans with more than a glimpse of what Coach John Mutchner is hopeful of becoming the finest ball club he has coached at Rose-Hulman.

But are the new look Engineers really that good? The answer is a definite **yes**, underscored by facts such as good size, balanced scoring, a good shooting percentage as a team and the best defense by an Engineer team in a long, long time.

If the Engineers had a problem as a predominately freshman-sophomore ball club during 1974-75, it was being a freshman-sophomore ball club. They found Shook Fieldhouse, the student body, the band, cannons and the "Give 'Em Hell, Rose-Hulman" sign, etc., to their liking to the point that they won ten straight games at home.

continued on page 28



Dennis Dierckman (31), left, duels a Sewanee runner early in the race and cross country team ran in a block to win CAC meet. At right, frosh Roger Edelbrock (31) and Dave Sutherland (41) control the boards for the Engineers.





Fred Bogardus conducts alumni meetings

Logan Message Highlights Meeting

MINUTES OF ANNUAL MEETING ROSETECH ALUMNI ASSOCIATION BUSINESS MEETING. SATURDAY - OCTOBER 19, 1974 - 10 A.M.

The meeting was called to order in Room B-119 of the Main Building by President Frederick J. Bogardus '32. He had the 50-plus Club members and the anniversary classes of 4's and 9's rise and be recognized. Richard D. Madison '13 was the oldest alumnus present.

It was moved by Tom Reese '58 and seconded by Jack Fenoglio '59 that the minutes of last year's meeting as published in the Fall-Winter 1973-74 Echoes be accepted. The motion was approved.

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

Dr. Logan announced that at the end of the 1975-76 school year he will be reaching the mandatory retirement age of 67, and that he plans to retire at that time. A Presidential Search Committee under the Chairmanship of Benjamin G. Cox has been established. It will include representatives of the alumni, faculty, student body, administration and also a representative of the Terre Haute Community. Henry Offutt '22 who has been through the presidential search process three times while Chairman of the Board of the University of Louisville has been working to get all the procedures and plans in shape. A meeting of this committee will be held sometime within the next three weeks.

Dr. Logan said how much he has appreciated the loyalty and support of the Rose alumni while he has been

president. One of the things that has always impressed him about Rose is the tremendous enthusiasm the alumni have for Rose. Without the tremendous support of the alumni, it would not have been possible to make the progress that has been made here at Rose-Hulman in the last 12 years. Dr. Logan said that he does not have any intention of being a "lame duck" president. He is going to be here for two years, and he intends to be president and to work with the faculty and Board of Managers and to make the decisions which he thinks are in the best interest of Rose-Hulman. He said that there is still a great deal to do, that there are definite plans for the future, and he intends until the last day he stays here to be the President, not only in name, but in practice.

Dr. Logan said that the most important thing that had happened in the last year was the completion of the Learning Resources Center, and he hoped that all present would take a few minutes off and look over this fine facility. It is a conventional library on the top two floors, but the bottom floor is to be dedicated to audio visual and television. It will be one of the most effective and efficient libraries in the state of Indiana.

Dr. Logan said that we still have the final phase of the Centennial Campaign to complete, and that is the completion of the Recreational Center. He is concerned about the lack of recreational facilities for the students.

In the new Learning Resources Library Building, Rose was very fortunate to acquire one of the finest art collections in the state of Indiana, the Tri Kappa collection of Indiana artists. Rose was fortunate enough to acquire this collection on permanent loan.



Dr. Logan addressing alumni meeting

Dr. Logan talked about the establishment of a new intersphere at Rose-Hulman in consulting engineering. Through the generosity of Ben Wilson '27 of Indianapolis, Rose received \$50,000 to develop a program of opportunities in consulting engineering, not only for the civils, but also for electricals, mechanicals, aeros, etc. A Consulting Engineering Council has been formed consisting of five consulting Engineers, all Rose graduates. Ernie Hurst '31 is Chairman and the members are Adam Grafe '25, Charles Meurer '42, Bob Coma '59, and James R. Brown '42. The chairmen of the individual divisions here at Rose are assisting. The program will be getting underway officially in a short time. The curriculum has already been modified somewhat. We are reinstating a course in engineering economy, paying more attention to elementary accounting and public speaking, and more phases of the program will be developed as we move along.

Another important thing this last year was Rose-Hulman's admission to the College Athletic Conference. Rose is now cooperating with St. Mary's in the ROTC program. There are 10 St. Mary's coeds in the program. Lambda Chi hopes to move onto the campus in the near future.

The financial report for 1973-74 was presented at the Board of Manager's meeting, and although Rose ran a very small deficit, again the Institute has been able to operate in the black.

On December 7, the Indiana Society of Chicago will be honoring Rose-Hulman at their annual meeting in Chicago. It is the first time in their history that they have ever honored an independent, private school. Rose-Hulman will be honored in conjunction with the Speedway in Indianapolis. The Rose-Hulman band, glee club, drill team and color guard will be there. It should be one of the best occasions the school has ever had to make the name of Rose-Hulman well known in Chicago.

The Centennial will be wound up with the Centennial Convocation which will be held on January 14, at which time Judge Graham Don from London, England will be the principal speaker. Dr. Logan will talk about the plans for the future at this time.

Winter, 1975

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

John Newlin said that it has been a pleasure to serve as Alumni Representative to the Board and that he has enjoyed the experience very much.

Election of Non-Graduates.

President Fred Bogardus presented the names of the honorary degree recipients at the Centennial Celebration in January and the Commencement in May 1974 for consideration for honorary membership in the Alumni Association. They were:

Anton Hulman, Jr., President, Hulman & Company; George W. Hazzard, President, Worcester Polytechnic; Mary Fendrich Hulman, Terre Haute Civic Leader; Robert C. Guinness, President, Standard Oil of Indiana; Richard C. Larson, President Anderson Company; Elliot L. Richardson, Former U. S. Attorney General.

John Newlin made the motion, seconded by Chuck Huppert '65, that these recipients be granted honorary membership in the Alumni Association. The motion was approved.

Secretary-Treasurer Tony Blake announced that only two non-graduate names have been received in the last year for membership in the Alumni Association. Herman Moench '29 suggested Victor H. Wenning X'55 and Jack Fenoglio '59 suggested Phil Brown, former coach at Rose for many years, be made an X-member of the class of 1959. Bob Mees '31 moved and Carl Ehrenhardt '30 seconded, that these men be granted membership in the Alumni Association. The motion carried.

Continuing Education - Dick Brown '59

Dick Brown said that Irv Hooper heads the Continuing Education Program and that Irv has done a very fine job. He thinks that those in the area who have had an opportunity to participate have been very well pleased. He solicited comments and suggestions from the alumni, and asked that they forward any they have to Irv Hooper. One disappointing aspect of Continuing Education is the attendance at the Homecoming seminar was less than anticipated or expected. It is possible that next year this may be discontinued.

Fund Raising - John C. Fenoglio '59

Jack Fenoglio announced that contributions this year to the Alumni Fund and the Centennial Fund reached 52% from all alumni, which he thinks is outstanding. He thanked the 1960 alumni who contributed and the Class Agents who have worked so hard. This 52% will put Rose-Hulman in the top 20 colleges of the country. There are over 3,000 colleges and the average of these schools is a little over 17 per cent.

Student Recruitment - Charles B. Huppert '65

This year was a very fruitful year as far as the quality of freshmen. This year 320 freshmen were admitted, which made the total enrollment 1,030. Last year we only had 275 freshmen. In 1973 Rose had 475 applications and this year 905 applied. One reason for this was that the \$15 application fee was waived this year. So the Admissions Staff had an opportunity to present Rose to a much larger number of high school seniors.

The Operation Catapult sessions this year were fantastically successful. Both sessions were completely filled and many prospective students were turned away. Duncan Murdoch, Dean of Admissions, urges you to recommend those you know who are in high school and who might have an interest in coming to Rose-Hulman. All you have to do is drop him a card.

Rose Tech Clubs - Vern Fellows '62

There are now 26 active Rose Tech Clubs. 25 are in the continental United States and 1 in Hawaii. The Alumni Office is now in the process of sending out printouts of the clubs to Rose Tech Club Officers. It would be appreciated if the officers would check out the addresses on these lists. A new Alumni Directory is going to be printed, and correct addresses are needed for everyone. He asked that everybody keep active in the Rose Tech Clubs.

Richard Mullins said that it is a privilege to announce the names of those who were nominated by the Awards Committee and approved by the Executive Committee. There are so many able, capable alumni that the decision is very difficult. The posthumous award is to John B. Peddle '88. The Honor Alumni are Russell Archer '34, Vernon E. Whitehouse '40, and Darrell E. Criss Feb. '43. The awards this year were given at the luncheon instead of the dinner.

Homecoming Committee - Larry W. Myers '61

Larry Myers welcomed back all the alumni on behalf of the Wabash Valley Rose Tech Club. He briefly went through the schedule of events for the rest of the day.

Senior Orientation - Thomas L. Reese '58

Tom Reese reported that they have tried in many ways to reach the seniors. This year they had a dinner on October 1 with officers of the classes and various organizations on the campus. It was their feeling that too many students just want to study and not get involved in student organizations and activities. The classes are so large now that students don't even know all the people in their own class. They don't have the enthusiasm and loyalty to Rose like in the past. This year they are going to have younger alumni come back and talk to the seniors and tell them what it means to be an alumnus of Rose. Perhaps this will plant the seed that hopefully will germinate and develop an enthusiasm and loyalty to Rose.

50 Plus Club Report - Fox Burns '15

Fox Burns reported that 46 members of the 50 Plus Club attended their annual dinner. The Class of 1924 and John and Norma Logan were initiated into the Club.

Centennial Celebration Report - Robert T. Mees '31

Bob Mees reported that the next event is the tournament the first weekend in December, and then the Centennial Year will wind up with the Convocation on January 7, 1975.

Centennial Campaign Report - Gene A. Zwerner '34

Gene Zwerner reported that the campaign now stands at 3.2 million of the 5 million goal. They are now going to work with the Board in an effort to get some of the large corporations and foundations to donate. He thanked everybody who has worked on the campaign and said that they hope to end the campaign in the next six months.

There was no old business nor new business.

Report of Election Committee - Anthony G. Blake '31

Tony Blake reported that Frank Doenges '39 is the new Vice President and Vern E. Whitehouse '40 is the new Alumni Representative to the Board of Managers.

Report of the Nominating Committee - Robert L. Royer Apr. '49

The nominating Committee consists of the last five presidents of the Alumni Association. The Committee submitted the following names to be nominees for Vice President of the Association next year:

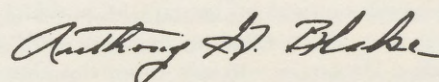
William T. Weinhardt Feb. '43
Hans M. F. Fischer '32
Richard A. Mullins '40

These men will be on the Alumni Association ballot in 1975.

Election of Secretary-Treasurer

It was moved by Robert Kahn '39 and seconded by Vern Whitehouse '40 that Anthony G. Blake '31 be reelected Secretary-Treasurer. The motion was unanimously passed by acclamation.

The meeting was then adjourned.



Anthony G. Blake, Secretary-Treasurer

'24

G. Raymond Fitterer (Ch.E.) made quite a splash in a recent issue of *Business Week* with his legal battle with big steel over what the former dean of engineering at the University of Pittsburgh calls a patent infringement. The suit involves an instrumental probe Dr. Fitterer claims to have invented in 1966. He applied for his patent on an oxygen probe in 1966 but did not get it until 1971. Meanwhile, he had set up his own company in 1969 and had begun to market the device the following year, according to the report. Dr. Fitterer was back for Homecoming '74 and made a hit with his 50-year reunion classmates with a talk on the benefits of choosing a school like Rose-Hulman for an undergraduate engineering education (now you know what Fifty-plus graduates talk about when they get together for a reunion.) If his lawsuit hits the target as precisely as his talk on engineering education, a settlement can be expected soon. Dr. Fitterer may be contacted at 409 Engineering Hall, University of Pittsburgh, Pittsburgh, Pa. 15213.

'29

Dr. Abe Silverstein (M.E.) received "The Spirit of Saint Louis Medal" for meritorious service in the advancement of aeronautics during the Winter Annual Meeting of the American Society of Mechanical Engineers in New York City Nov. 19. Established in 1929 by ASME members and citizens of St. Louis, the award recognized Dr. Silverstein "for his long range vision and leadership resulting in invaluable personal contributions and technical direction of organizations that prepared initial plans, developed aerospace propulsion systems, and implemented the highly successful national space program." A member of Rose-Hulman's Board of Managers, Dr. Silverstein currently is director of environmental planning for Republic Steel Corporation in Cleveland. He joined the former National Advisory Committee at Langley Resource Center upon graduation in 1929 and spent 41 years with the organization which was to become NASA, rising to head of the Lewis Research Center and the first director of NASA's Office of Space Flight Programs. In October Dr. Silverstein was honored by being chosen to deliver the fifteenth Lester D. Gardner Lecture at Massachusetts Institute of Technology. Dr. Silverstein's address is 21160 Seabury Ave., Fairview Park, Ohio 44126.

'30

Andrew H. Davy (M.E.) reports his retirement Dec. 1, 1973 following 42 years service with The Great A. & P. Tea Co., Inc. Rising through engineering and management
Winter, 1975

News From Alumni

'33

positions, he had been project manager of the National Operating Department of A. & P. for many years prior to his retirement. His address is 27 Edgewater Ave., Massapequa, N.Y. 11758.

Royer R. Blair (E.E.), who recently retired from Bell Laboratories after more than 40 years of service, has moved to a retirement home in Sun City, Ariz. During his tenure at Bell Laboratories he became one of the leaders in the research in circuitry as a member of the Systems Technology Research Laboratory in Whippany, N.J. At the time of his retirement he held more than 20 patents for his work in the study of the effects of radiation damage on the performance of semi-conductor devices. The Blairs' new address is 9222 Hidden Valley Lane, Sun City, Ariz. 85351.

'31

Donald T. Spangenberg (M.E.), assistant to the president of Public Service Company of Colorado since 1965, retired July 1 after more than 33 years with the Colorado utility. He went with Public Service of Colorado upon graduation and held various managerial positions in PSC's engineering, commercial and advertising operations. He became manager of advertising in 1953. His address is 5101 Montview Blvd., Denver, Colo. 80207.

'35

Earle B. Butler (C.E.) was re-elected Chairman of the Board of Managers and General Managers of Floyd G. Browne and Associates Limited, consulting engineers/planners of Marion, Ohio during the firm's annual meeting. Earle has been with the firm for seven years, having formerly spent 20 years with the U.S. Army Corps of Engineers. The Butlers reside at 720 Summit Road, Marion, Ohio. 43302.

Moench Heads Engineering Examiners

Dr. Herman A. Moench, senior vice president at Rose-Hulman, is currently serving as president-elect of the National Council of Engineering Examiners, the body which sets the standards for the licensing of professional engineers.

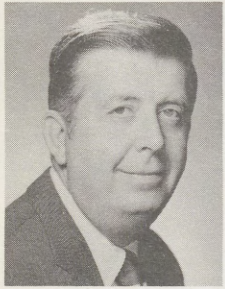
Dr. Moench's election came during the organization's annual meeting at Mackinaw Island, Mich., in August. Long active in the National Council, he served as vice president and director of the Central Zone from 1971 through 1973.

In 1970 Dr. Moench received the NCEE Distinguished Service Award of this coordinating body composed of 55 boards of registration throughout the United States and its possessions. Last year the Central Zone of the National Council named him to receive its Award of Merit.

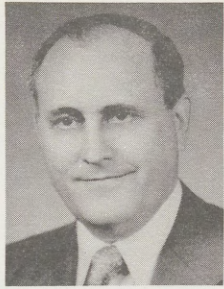
Dr. Moench has been the governor's appointee to the Indiana State Board of Registration and Land Surveyors for more than 20 years, having been renamed by Indiana Governor Otis Bowen this past summer.

In recognition of his work in raising the standards of professional registration and for his leadership and distinguished service in engineering, he was selected as "Engineer of the Year in Indiana" for 1964 by the Indiana Society of Professional Engineers.

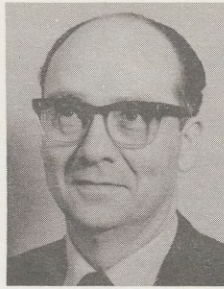
Dr. Moench is only the second Hoosier to hold the distinction of heading the NCEE, the first having been the late Prof. Clarence C. Knipmeyer, for many years head of electrical engineering at Rose. Prof. Knipmeyer held the post two years during World War II.



Weldele



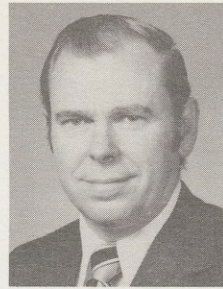
Cavanaugh



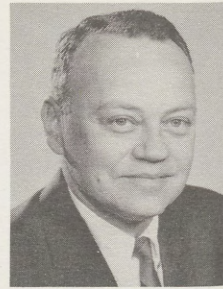
Anderson



Hanes



Mabley



Winters

'39

Richard G. Weldele (Ch.E.), director of environmental engineering for Eli Lilly and Company in Indianapolis, retired Dec. 31, 1974. His association with Lilly dates to 1946 when he joined the company as a chemical engineer. He rose to manager of chemical and mechanical engineering in 1952 and was made director of staff engineering in 1964. In 1968 he was named director of corporate engineering services. More recently his assignments have included environmental engineering and service as a member of the Indiana Air Pollution Control Board and the Indianapolis Air Pollution Control Board.

'42

Martin J. "Marty" Cavanaugh (Ch.E.) has been director of personnel for the Delco-Remy Division of General Motors Corporation. Marty, who was personnel director of Allison Division and later the consolidated Detroit Diesel-Allison Division since 1967, has been with Delco-Remy or other GM divisions since 1942. Following service with the Navy during World War II, he served as production foreman, metallurgist and process engineer prior to being assigned to the labor relations staff in 1950. Marty subsequently became supervisor of these activities, then director of salaried personnel in 1956. He was assistant director of personnel for Delco from 1959 through 1967.

Robert L. Anderson (E.E.), a member of the Purdue University Calumet staff for 27 years, has been named director of late afternoon/evening activities at the university. Anderson joined the Purdue faculty in 1947 as electrical technology instructor, advanced to assistant professor in 1952, to associate professor in 1959 and to full professor in 1966. He also was chairman of the Calumet Section of the Department of Electrical Technology several years. He has gained professional experience in engineering positions for Inland Steel Company, General Electric Corporation and Westinghouse Electric Company and is credited with developing the adult education program at Calumet in fundamentals of electronics, basic transistors and fields of basic circuits. Prior to his new appointment, he had

served six years as assistant to the dean for relations with industry.

'43

Lloyd A. Buchalter (M.E., Oct.) pens a note concerning the women in his life. His wife Dorothy, having completed two years at Orange County Community College in New York, is an R.N. at St. Luke's Hospital in Newburgh. His daughters plan to follow Mrs. Buchalter's suit, the older daughter studying nursing in New York while No. 2 daughter plans to pursue nursing via military training. Meanwhile, Lloyd continues as supervisory mechanical engineer in the facilities engineering branch of the U.S. Military Academy at West Point. The Buchalters reside at Rd. 2, Box 424, Wallkill, N.Y. 12589.

'44

James H. Hanes (Ch.E.) has moved back to Dow headquarters in Midland, Mich., as general counsel for Dow Chemical, U.S.A. Hanes, who had served as general manager of the Rocky Flats Division of Dow in Colorado since January 1972, will oversee legal requirements for the company's operations. According to the release on the promotion, it was also noted that the new assignment effective Sept. 1, 1974, is integral to the establishment of a separate Dow U.S.A. Legal Department, which Hanes will direct. Hanes previously served as head of industrial relations, director of corporate labor relations and assistant to the general counsel in charge of legal matters pertaining to industrial relations. He joined Dow upon graduation in 1946 and following two years service as a chemical engineer continued his education in law at the University of Michigan. Upon graduation with a J.D. in 1951 he returned to Dow. "I've never been able to hold a job very long," admitted Jim Hanes to a Colorado newspaper reporter. The new general counsel for Dow has moved up too fast to remain long in any one position.

'47

Edward T. Mabley (M.E., Dec.), chief engineer for Ford Motor Company's Truck and Recreational Products Operations, has been nominated for a three-year term as director (1975-76-77) of the Society of Automotive Engineers (SAE). Ed, whose career in the auto/truck industry has covered a variety of assignments with the Allison Division of GMC and later with Ford, has been active in the SAE for a number of years. His involvements in the SAE include 1974 EAB Chairman, 1972-73 EAB Sponsor of Commercial Vehicle Engineering and Operations Activity, 1972-73 Chairman of the Buckendale Lecture Committee, and the 1975 SAE Automotive Engineering Congress & Exposition general committee. Ed also is active in the Motor Vehicle Manufacturers Association and the Engineering Society of Detroit.

'49

John D. Winters (M.E., Nov.) has been appointed deputy managing director of Caterpillar Brasil S.A. in Sao Paulo, Brazil. Following his graduation as the Heminway Medal winner as the top man in the class of November, 1949, he joined Caterpillar. He served as a sales representative for a short time prior to entering the U.S. Air Force where he served as a pilot from 1950-55. Returning to Caterpillar, he was sales training instructor (1955-56) and sales training supervisor (1957-58). Following experience in the field, he held supervisory positions in advertising, marketing and industrial division sales, and had been manager of the sales department in Caterpillar's General Office since 1971.

G. J. Rathinasamy (M.E., Nov.) pens a note regarding a change of address and bringing the alumni office up to date. He is managing partner of S. G. Jayaraj Nadar & Son and is a dealer for Ambassador Cars, Bedford Trucks and Massey Ferguson Tractors in Madras, India. His current address is S. G. Jayaraj Nadar & Son, 1768 Trivandrum Road, Palayamcottai 627 002 Tamil Nadu, Madras, India.

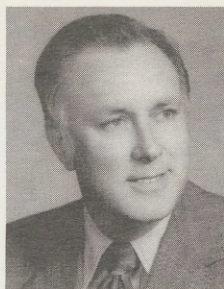
Help Rosie Hold On. . . .50% Peak



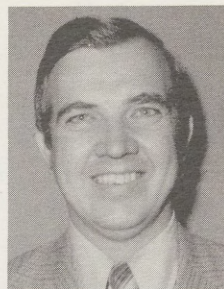
Kuehl



Powers



Smith



Bronnert

Dr. Donald R. Coughanowr (Ch.E.), professor and head of the department of chemical engineering at Drexel University in Philadelphia, recently spent a year as guest professor at the Swiss Federal Institute in Zurich. Except for a brief tenure as a process engineer, his career has been spent in engineering education. He earned his M.S. at the University of Pennsylvania in 1951 and the Ph.D. from the University of Illinois in 1956. He served 11 years on the chemical engineering faculty at Purdue University and since 1967 has headed chemical engineering at Drexel.

'50

Richard J. Kuehl (E.E. Aug.), has returned to the U.S. from a four-year assignment in Canada with Dow Chemical Company. He has joined Dow's Midland Division in Michigan as general purchasing agent and the responsibility for capital purchases and contract services. Kuehl went with Dow in 1957 following service with Allis-Chalmers Corporation and a tour of duty in the U.S. Air Force. He has served in engineering and purchasing assignments, including plant superintendent for the Louisiana Division and assistant division (caustic) superintendent of Dow Canada with Sarnia Works in Ontario. His new address is 207 Chapel Lane, Midland, Mich. 48640.

Harold E. Skelley (M.E., Aug.) has been promoted to chief engineer for the Indiana Harbor Works of Inland Steel Company, succeeding fellow Rose-Hulman alumnus Irwin Rosenak, who had held the position since 1954. Harold, who formerly was assistant general manager of the plant in charge of operating services, joined Inland in 1950. Rising through engineering positions, he was named assistant director of facility planning in 1964 and director in 1968. He had been assistant general manager of operations for two years. The Skelleys reside at 7603 Forest Ave., Munster, Ind. 46321.

'52

Robert C. Miller (C.E.) and his family have returned to the states after 10 years "down under" where Bob has been project manager on the construction of a Kaiser Aluminum

Plant at Gladston, Queensland, Australia. The Millers, who spent the period from 1958 to 1961 in Australia, returned in 1964. His present assignment deals with site preparation for Kaiser in Mobile, Alabama. Bob and Katie have three children, Joan, 18; Michael, 16, and Susan, 12. Their new address is 728 Brannan Dr., East, Mobile, Ala. 36609.

Larry F. Leonard (Ch.E.) has been transferred to Toronto, Canada to assume the position of distribution manager of Union Carbide Canada. Larry, who has been with Union Carbide since 1954, has spent most of his career in distribution. He has served as manager of sales service for Union Carbide-Chemicals and distribution planning manager for the International Distribution Division of the corporation. His new address is 58 Page Ave., Willowdale, Ontario, Canada.

'54

Rex Hauser (Ch.E.) is beginning his second year as plant manager of 3M's Caserta, Italy plant. The plant manufactures plastic films used primarily as backings for magnetic tapes, adhesive tapes and photographic films. Rex has been with 3M since graduation, having served in various capacities at headquarters in St. Paul, Minn., and at the Decatur, Ala., facility. His current address is Via Padula 2, Parco Manzoni, 5-5/B-3, 80123, Napoli, Italia.

'55

Donald J. Powers (E.E.) has been appointed manager of the Detroit District Utility Sales Division of Allis-Chalmers Corporation. With Allis-Chalmers since 1955, he has had field sales assignments in the Indianapolis, Fort Wayne and Springfield, Ill., sales offices. His most recent assignment was as utility sales division account manager in Detroit. His new business address is 19675 West Ten Mile Road, Suite 405, Southfield, Mich. 48075.

P. Carter Smith (M.E.) was recently promoted to president and general manager of Mead Paperboard Products Division in Dayton, Ohio. Smith joined Mead in 1956 and served in various engineering capacities at Chillicothe, Ohio and South Lee, Mass. He was transferred to Mead Packaging in Atlanta,

Ga., in 1964 as manufacturing services manager and advanced to director of operations, the position he held before being transferred to Dayton in November, 1973, as vice president of operations for the Mead Paperboard Division. He and his wife, Phyllis, and three sons reside at 944 Harmon Avenue, Dayton, Ohio 45419.

'56

Dr. Stanley R. Carpenter (E.E.) has left Texas A. & M. University to accept a position at Georgia Institute of Technology. Says Stanley: "The reason for the move was professional. The Social Sciences Department here is forming a team of scholars devoted to the history and philosophy of technology. The chance to join this group appealed to me greatly since my doctoral dissertation and subsequent research has been devoted to exploring the impact of technology on societal and individual values. From my earliest technical training at Rose to graduate work in philosophy at Boston University, my interests have clustered around twin foci—a fascination with things technical, on one hand, and a growing appreciation of the great ideas of our civilization, on the other. The fledgling field of philosophy of technology provides the vehicle for combining these areas of concern. I anticipate fruitful collaboration with my new found colleagues here at Tech." Prior to joining Georgia Tech he spent three years in Texas and more than 10 years in a research capacity at M.I.T. Draper Laboratory. He and his wife Dottie and two daughters reside at 229 Woodview Drive, Decatur, Ga. 30030.

'57

Harold D. Brown, Jr. (Ch.E.) is now president of Round Rock Lime Company and also with the Republic National Bank and Howard Corporation of Dalls. Harold, continued his education earning a masters at Purdue in 1960. He formerly held a number of engineering and management positions for Dow Chemical Company at the corporation's Freeport, Texas division. His current address is 111 Woodacres Circle, Duncanville, Texas 75116.

'59

Joseph E. Bronnert (E.E.) has been promoted to Southern Division Operations Manager for Public Service Indiana with headquarters in Columbus. Joe, who has been with Public Service Indiana since 1960, served on the engineering staff at Kokomo, was district engineer and performed liaison duties between PSI and industrial customers at Plainfield from 1961-65. Since that time he has been in the Southern Division, serving as Division Engineer since 1968. The Bronnerts reside at 2225 Sycamore St., Columbus, Ind. 47201.

'60

Fred J. Wernicke (E.E.) has been named facilities manager for W. W. Grainger, Inc., with assignment at the company's general headquarters located in Niles, Ill. W. W. Grainger is an industrial equipment and electric motor manufacturer and distributor. Fred formerly was associated with Mars, Inc., of Chicago; the Curtiss Candy Company, a division of Standard Brands, Ind., and Libby, McNeil & Libby of Chicago. Fred's address is 363 Elmhurst Ave., Wood Dale, Ill. 60191.

Robert J. Schukai (E.E.) recently was promoted to the position of assistant to the vice president of engineering and construction for Union Electric Company in St. Louis. In his new position Bob continues to be responsible for special engineering assignments. He also assumes the duties formerly held by the manager of accounting and personnel of the engineering and construction function. Bob, Nancy and their four children reside at 9745 Croftwood Dr., St. Louis, Mo. 63123.

'61

William M. Steele (C.E.) has recently been promoted to project manager with the S. J. Groves & Sons Company based at Minneapolis, Minn. Bill (Mac) has been associated with the company eight years. His current job is at Erie, Ill., located some 18 miles from Clinton, Iowa. He recently was project engineer on a \$50 million sewage treatment plant at Schaumburg, Ill. Bill resides with his wife Arlene and their three children at R.R. 1, Box 127-C, Farmersburg, Ind. 47850.

John U. Bott (M.E.) has been promoted to project manager of the Marble Hill Nuclear Station for Public Service Indiana. John has been active in PSI's nuclear group since 1972 and in the nuclear power field since 1968. Prior to joining PSI, he was associated with the production department of Detroit Edison. Other Rose-Hulman alumni in the nuclear group include **Steven G. Carroll** ('68 E.E.) and **James L. Morris** ('73 M.E.). Carroll formerly was a project engineer in the transmission design group of PSI, while Morris joined PSI after service as an engineer in the power production and engineering departments of the Allison Division of General Motors Corporation. Bott, Carroll and Morris are presently working on an M.S. in nuclear engineering.

**Got a Class Note?
Send It to Echoes**



OLD JOCKS--A number of former Engineer varsity basketball players were among the first to learn about the potential of John Mutchner's 1974-75 ball club in what Mutchner termed the first annual varsity-alumni game in December. Kneeling (from left) were; Mutchner, Jerry Wones, Ed Downey, Phil Tynan, and Til Panaranto, who served as the alumni team's coach. Standing were; Joe Snyder, Don Ings, Larry Erwin, Don Dekker, Gary Dougan, D. J. Cordero, Don Johnson, Mike Bennett, Dallas Canfield, Pete Hodapp and Mike Kilpatrick. The score of the game wasn't close enough to report in an alumni publication.

(Continued from page 21)

However, the difference between a good ball club and a great ball club is winning on the road--something the Engineers should accomplish with more regularity as their beards get a little tougher the next couple of years.

Four players ended the season with very sound double figure scoring averages and the fifth starter came within a handful of points with a 9.2 scoring average. As a team, the Engineers outshot (45% to 43%), outscored (1855-1714), and outrebounded the opposition (914-805). Unfortunately, they also outfouled opponents (473-439) and this statistic proved quite troublesome on the road.

The Engineers defeated Clearwater (101-66), Wabash (67-62), Detroit Tech (111-77), Illinois Tech (64-58), Wabash (91-75), Southwestern at Memphis (88-65 and 66-62), Illinois College (86-77), Principia (73-65), Blackburn (79-65 and 77-66), Centre (76-60), DePauw (78-62) and Greenville (88-59).

Losses came at the hands of Eckerd (76-64), College Athletic Conference champion University of the South (78-65 and 62-53), Hanover (94-66), Earlham (84-81), Centre (68-66), Marian (87-82), Illinois College (67-65), Concordia (84-81) and Principia (95-88).

Steve VanDyck, (Grafton, Wis.) who moved from forward to guard for the

1974-75 season, led all scorers with a 15.8 average. The lanky 6-4 speedster teamed with fellow sophomore classmate Mike Griggs of Mendon, Ohio, (13.4) in a superb backcourt threat following Griggs' return from an early season injury.

Bill Ransbottom (Springfield, Ohio), the only senior on the ball club, turned in a fine season with a 13.7 scoring average and some fierce defense against the opposition's top front line players. Freshman forward Dave Sutherland of Chicago (13.4) and center Roger Edelbrock of Findlay, Ohio. (9.2) kept things in check underneath. Sutherland is 6-5 and Edelbrock a shade taller at 6-6 plus.

Terry Maddux (Westport), a sophomore forward, was a game-saver all year as he filled in at forward. Jeff Justus, a freshman from Portsmouth, Ohio, started the first half of the season in place of the injured Griggs and displayed fine potential for future campaigns.

Others on the squad were junior Doug Weber and freshman brother Dan of Granville, Ohio, Ron and Randy Wingerter of Indianapolis, sophomore Mark Hodson (Fairland), Dennis Vandenberg (Grand Rapids, Mich.) and Greg Wehr of Batesville.

'62

Lee R. Brda (C.E.) reports a recent job change at Ford Motor Company. He is now working as an environmental engineer in the water quality section of the Plant Engineering Office of Ford Motor Company World Headquarters. He joined Ford after a tenure as a bridge designer for the Florida State Road Department. His most recent position was supervisor of one of the design functions of metal stamping at Ford. His current address is 9326 Ingram Dr. Westland, Mich. 48185.

Stephen D. Ban (M.E.) has been appointed coordinator of Battelle Institute's engineering sciences research program. In this corporate assignment he has the responsibility for the management, planning and coordination of the corporate-funded fundamental research in engineering sciences at each of the four Battelle laboratories. Work supported involves laboratory research, fellowships for advanced studies, sabbatical studies and inter-laboratory technical meetings. During this assignment he will also continue in his current position of Manager, Fluid and Thermal Sciences.

'63

Michael J. Hmurovich (Ch.E. Jan.) has accepted a position as an application engineer for the Advanced Business Development Department of Leeds & Northrup Corporation of North Wales, Pa. Mike is based in Chicago and covers the central United States. Prior to joining Leeds & Northrup he was associated with the American Maize Products Co., and the Dearborn Chemical Division of Chemed Corporation and an engineer and sales representative respectively. He resides at 8233 Johnston Street, Highland, Ind. 46322.

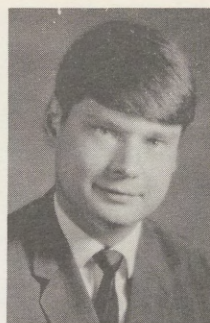
Jeffrey J. Lew (C.E.) resigned as city engineer of the City of Terre Haute in June to accept a position as plant engineer at Eli Lilly's Lafayette facility. Lew, who had served as city engineer for two and one-half years, was replaced by fellow Rose-Hulman alumnus Rudy Sanders (see 1967 class notes). Following a brief tenure with Cities Service Oil Company upon graduation, he served three years with the U.S. Army Corps of Engineers. Upon release from active duty he was a civil engineer with the Corps of Engineers prior to entering graduate school in construction engineering at Purdue (M.S. 1969). After working one year as a planner with the Vigo County Area Planning Department, he taught civil engineering at Rose-Hulman from 1969-1972. The Lews reside at 3620 Platte Court, Lafayette, Ind. 47905.

'65

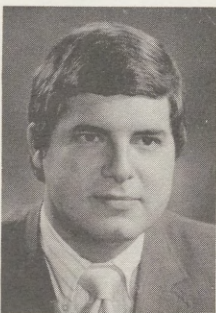
Glendon G. Williams (C.E.) is now working as an associate engineer with Henry B. Steeg & Associates of Indianapolis. Glen, who has been with the consulting firm since April 1, Winter, 1975



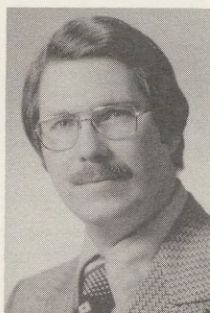
Jirousek



Lew



Webb



Mitchell

works in water resources engineering planning and design--a field he pursued since graduation. He joined Steeg and Associates after a tenure with the Division of Water of the Indiana Department of Natural Resources. Following graduation he served as a field engineer with the U.S. Public Health Service in Wyoming where he was a sanitary engineer. His current address is R.R. 1, Box 95, Zionsville, Ind. 46077.

Ronald F. Turaski, (Chem.) has been named product manager, plastic materials, in the international department of B. F. Goodrich Chemical Company, Cleveland, Ohio. Ron joined the chemical division's international sales department as a business trainee in 1967 and handled technical service and promotion for plastics-new products in that department until 1968 when he became product engineer and representative in the Mideast and Africa. But the big news at the Turaskis is the birth July 30 of a son, Steven Joseph. The Turaskis also have a daughter and reside at 5588 Breckwood Oval, Broadview Heights, Ohio 44147.

Richard D. Swan (M.E.) reports a new assignment as a production engineer for Esso Exploration Malaysia, Inc. He and his family moved to Sabah, East Malaysia (formerly North Borneo) in July and describe the assignment thusly: "Plan to be here 2-5 years and should enjoy immensely . . . beautiful scenery and challenging work." With the exception of a tour of duty with the U.S. Navy, Richard's career has been spent in petroleum engineering. His new address is c/o Essor Exploration, POB 1733, Kota Kinabalu, Sabah, Malaysia.

'66

Stephen W. Reiss (E.E.) has been with Caterpillar Tractor Company in Peoria, Ill., since graduation and presently a buyer in the gas turbine research program. Previous assignments have been in manufacturing, purchasing, and quality control. Steve is a registered professional engineer, a certified quality engineer and a part time college instructor in electronics. He recently was awarded his first patent for a crawler tractor track system improvement. Both Steve and his wife, Diane, recently completed masters degrees at Bradley University--hers in guidance and counseling and his in business administration. Their home address is 2612 W. Flint, Peoria, Ill. 61604.

Edwin W. Jirousek (Ch.E.) has been appointed as a technical sales representative for the Ferro Chemical Division of Ferro Corporation. In his new position Ed will be responsible for the sale of the Ferro Chemical line of vinyl stabilizers and other plastic additives in the Philadelphia sales district (eastern Pennsylvania, southern New Jersey and Delaware). Prior to joining Ferro, Ed was employed by B. F. Goodrich Chemical Company as a technical sales representative. He and his family reside at 4180 Marianne Drive, Brookhaven, Pa., 19015.

'67

Charles E. Webb (E.E.) has taken a new assignment in the International Sales Division of General Electric Company in New York City. Chuck is now a market development specialist for the gas turbine auxiliary sales project. He reports the new job involves some foreign travel and liaison with various sales operations and product department. His current address is 307 Radel Terrace, South Orange, N.J. 07079.

James A. Mitchell (Ch.E.) has been appointed plant engineer for Amerchol, a unit of CPC International, Inc., of Edison, N.J., with responsibility for the design and installation of new equipment and maintenance of existing facilities. He has been with CPC International since 1967 and was most recently assistant plant engineer at the S. B. Penick & Company plant in Newark, N.J. Jim and his wife Judee reside at 32 Lincoln Ave., Highland Park, N.J. 08904.

Harry D. Blaker (Chem) is a research chemist for the P.O.B. Sealants, Division of Allied Technology, Inc., of Cincinnati, Ohio. Prior to joining Allied, Harry was associated with Diamond Alkali Company in Cleveland and Standard Brands, Inc., of Indianapolis. He and his wife Zenaide reside at 1411 Vera Cruz Pike, Milford, Ohio 45150.

Rudy G. Sanders (C.E.) has accepted a position as city engineer for the City of Terre Haute. Prior to making the move Rudy was an instructor of graphical communications and supervisor in the computer center at Rose-Hulman. He joined the Rose-Hulman staff as a graduate assistant in 1967. A major drainage/sewer project and the four-laning of two streets to provide a "belt" for the north and east sides of the city (not to speak of repairs, signal synchronization, a proposed downtown beautification project, etc.) should give Rudy ample challenge. Rudy's address is 3518 Wabash Ave., Terre Haute, Ind. 47803.

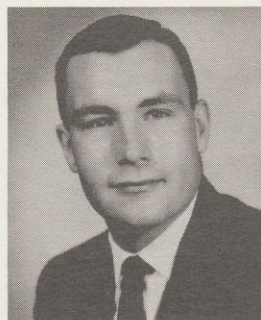
Larry G. Oldham (M.E.) has accepted a new position as facilities manager for Doubleday and Co., Inc., of Orange, Va. Prior to the move Larry had been with Eastman Kodak, serving most recently as a manufacturing engineer in the apparatus division of the corporation. He continued his education while with Kodak, completing an M.S. in mechanical engineering at Rochester Institute of Technology in 1972. His new address is R.R. 1, Box 70, Orange, Va. 22960.

'68

Richard L. James (Ch.E.) received a Master of Business Administration degree at Northeast Louisiana University in May. Richard, who continues as a process engineer for Commercial Solvents Corporation at Monroe, La., has been with the company since graduation. He resides at 215 Garden Dr., Monroe, La. 71201.

Lawrence R. O'Hair (C.E.), a North Palm Beach, Fla., builder and civil engineer, has formed his own corporation O'Hair & Associates, Inc., specializing in building custom homes and office buildings. Prior to going into business for himself, O'Hair was field superintendent and vice president of Jimmy A. Casto & Associates, Inc., Juno Beach, Fla. Larry has a savy philosophy: "In building," says O'Hair, "we plan to give each home a personality. Our goal is to build friendships as well as structures." His new residence address is 714 Northlake Court, North Palm Beach, Fla. 33408.

John L. Shambach (M.E.) has been made a partner in the law firm of Wallace, Campbell, Bunch & Shambach of Covington, Ind. The firm handles a general practice, with major emphasis on trials and probate matters. John received his Doctor of Jurisprudence degree from Indiana University School of Law at Bloomington in 1971 and has been with the Covington law firm since that time with the exception of a brief leave for active duty with the U.S. Army at Fort Belvoir, Virginia. He and his wife, Nancy, have a three-year-old daughter, Heidi Sue, and reside at 210 Railroad St., Covington, Ind. 47932.



Phelps

Gary E. Mitchell (M.E.) is nearing completion of an assignment as service contract leader for Babcock & Wilcox Company's Nuclear Service Department at the Rahcho Seco Nuclear Generating Station in Sacramento, Calif. Completion of the project was expected by year's end 1974. Gary's current address is 244 Shelby Ranch Road, Apt. 1, Sacramento, Calif. 95825.

Edward A. Shaw (C.E.) is now working at the National Space Testing Laboratories in Mississippi for the Corps of Engineers. His assignment is working on the modification of engine test stands for the space shuttle. Says Ed: "My wife, two children (boy & girl) and I live in rural Pacayune Mississippi and thoroughly enjoy the quiet country atmosphere. Otherwise I am active in the Church of Jesus Christ of Latter Day Saints and stay very busy as church work involves Explorer and Scouting programs.

'69

Larry D. Olson (M.E.) is in his final year of study at the University of Kentucky Medical School in Lexington, Ky. Prior to entering medical school in the fall of 1972, Larry was an aircraft engineer in the product engineering section of General Electric Company in Cincinnati. His current address is 1008 Slashes, Lexington, Ky. 40502.

Daniel J. Phelps (Physics) has completed a Ph.D. in solid state physics at the University of Illinois and has moved to Rochester, N.Y., as a research physicist for Eastman Kodak Company. Dan continued his education immediately after his graduation from Rose, earning an M.S. in physics at the University of Illinois the following year. His current address is 158 Greenleaf Rd., Rochester, N.Y. 14612.

Morris (Moe) Belknap (Math-Econ) is currently employed with the Louisville-Jefferson County Department of Data Processing as a programmer/systems analyst. Moe also spends some time as a reservist and volunteer with the same city-county Department of Civil Defense as coordinator of mass casualty assistance to local hospitals and as a member of the heavy duty rescue squad. Write Morris at 1707 Youngland Ave., Louisville, Ky. 40216.

John A. Spear (E.E.), an associate engineer for the Federal Systems Division of IBM Corporation at Manassas, Va., recently was presented the company's outstanding contributions award for John's lead role in developing the operational modes of the Trident submarine command and control system central computer complex. John has been assigned as a systems engineer on IBM's Trident Submarine Command and Control System Engineering Integration Contract with the Electric Boat Division of the General Dynamic Corporation since March, 1972. John joined IBM upon graduation and formerly was assigned at Endicott, N.Y., during which time he earned an M.S. in electrical engineering at New York State University at Binghamton. He and his wife, Lorraine, and their son Matthew, reside at 18149 Lost Knife Road, Gaithersburgh, Md. 20760.

John J. Quinlan (Ch.E.) has been promoted from senior engineer at the Beaver Valley Plant of ARCO/Polymers, Inc., in Monaca, Pa., to the planning and evaluation department at the company's headquarters in Philadelphia. John, who formerly worked as a process engineer for Sinclair Koppers in the Philadelphia area, resides at 8 Marshall Ave., Atco, N. J. 08004.

'70

George Butkovich (Math) has accepted a position as a marketing engineer for Universal Oil Products in Des Plaines, Ill., following completion of an M.S. in environmental engineering sciences at the University of Florida. George and his wife, Amy, reside at 711 E. Falcon Dr., Apt. 105, Arlington Heights, Ill. 60005.

1st Lt. Thomas O. Michaelis (M.L.) dropped by the campus while on leave from the U.S. Air Force this fall. Tom, who is serving as an instructor pilot at Webb Air Force Base, Texas, recently completed a tour of duty in Southeast Asia and assignments in Taiwan and the Phillipines. Prior to entering the Air Force Tom worked for the York Division of Borg-Warner Corporation. Mail may be directed to Tom at 538 Westover Rd., Apt. 119, Big Springs, Texas 79720.

Michael A. Moroz (E.E.) has accepted a position as chief engineer for Ronk Electrical Industries of Nokomis, Ill. Mike formerly was a project engineer for The Eureka Company where he worked primarily with the rotary engine. He reports that he and his wife Deborah are looking forward to becoming parents in March. The Moroz' new address is 608 Water St., Nokomis, Ill. 62075.

Jon G. Moehlman (Chem) is currently completing the Ph.D. in chemistry at the University of Illinois and has accepted a position with E. I. duPont's photo products facility at Tawanda, Pa., effective in early January. Until the move, Jon's address is 2610 East Illinois St., Urbana, Ill. 61801.

John A. Bailey, Jr. (Ch.E.) has been appointed as supervisor of the organics section of the Industrial Chemicals Division of Allied Chemical Corporation. John, who has been employed at Allied's Moundsville, W.Va., South Plant since 1970, also is active in the U.S. Army Reserve, serving as commanding officer of the 157th military police platoon in Wheeling, W. Va. John, his wife Sherry and daughter Amy Sue reside at 50 Mozart Meadows, Wheeling, W. Va. 26003.

Theodore M. Willer (M.E.) has been promoted to senior market analyst of the parts planning group of Cummins Engine Company in Columbus. Ted notes that he is still working on an MBA with a double major in marketing and international business and is a second lieutenant in the Army National Guard unit which spent the annual two week summer camp in Germany "compliments of the federal government." Ted resides at placid R.R. 1, Nashville, Ind. 47448.

Robert C. Meyer (M.E.) has relocated in Southern California where he is working on Procter and Gamble's new Charmin Paper Products Plant in Oxnard, Calif. Bob's assignment covers the and design and construction of main portion of the new paper machine. Assigned as a prime technical engineer, Bob has held P. & G. assignments in Ohio and Pennsylvania. His new address is 1021 Scandia Lane, Apt. 5, Ventura, Calif. 93003.

'71

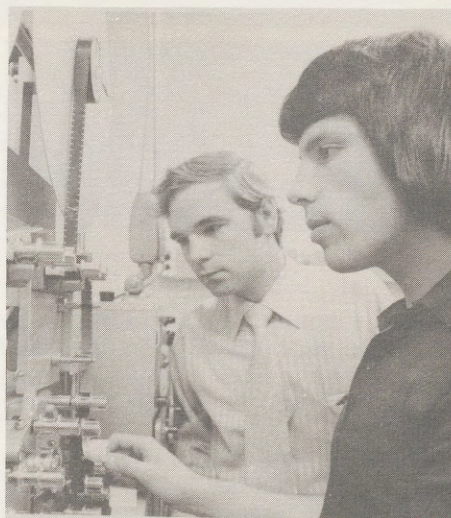
Steven R. Ahlf (M.E.) has accepted a position as a design engineer for the Farm Equipment Research and Engineering Center of International Harvester in Chicago. Prior to the move Steve was a design engineer for the Ashdee Division of George Koch & Sons in Evansville. Steve's new address is 10 South 510 Echo Lane, Apt. 4, Hinsdale, Ill. 60527.

Harry R. Harrison, Jr. (M.E./C.E.) was promoted to first lieutenant in the U.S. Army in May and presently is commanding officer of the student officer detachment of the U. S. Army Engineer School Brigade at Fort Belvoir, Virginia. Prior to entering service, Harry was associated with Babcock & Wilcox as an estimating engineer in the general mechanical construction division. Harry, his wife, Terri, and son, Brent, reside at 529 Forney Loop, Fairfax Village, Fort Belvoir, Va. 22060.

'72

Larry A. Snyder (M.E./M.S.M.E. '74) has accepted a position with Westinghouse Electric Company in their graduate training program in the Philadelphia area. Thus far Larry has been assigned to the transformer group in Jefferson City, Mo., and the steam turbine division in Loster, Pa., during the first two legs of the two-year training program. Larry and his wife, Barbara, reside at 1180 Briarwood Apartments, Cornwells Heights, Pa. 19020.

Winter, 1975



Fred Franzwa (left) and colleague work on test film run in Kodak laboratory.

Hollywood or Bust?

Hollywood and engineers -- that combination would seem strange to most people who associate stars, glamour and pink mansions with the film capital of the world.

But **Frederick C. Franzwa**, a 1972 chemical engineering graduate who now is assigned to the photographic technology division of Eastman Kodak Company in Rochester, N.Y., may be going to Hollywood a number of times in the next few months.

He won't be auditioning for screen tests but will consult with producers, artists, and other professional movie-makers and photo processing laboratories to obtain their responses to new professional motion-picture films.

Having joined Kodak upon graduation, Fred has been active in research and development of two recently-introduced professional motion-picture films.

Fred and his wife have just settled into a new home at 875 Denise Road, Greece, N.Y., where he is pursuing his carpentry and tinkering hobbies. He also does youth counseling for his church.

The next time Fred goes to the movies, he may have the satisfaction of knowing that Elizabeth Taylor or Robert Redford appear just a little better on screen--thanks in part to his efforts.

Philip W. Wyssling (M.E.) reported for active duty in the U. S. Army Medical Service Corps at Fort Sam Houston in San Antonio, Texas, in October. Phil completed an MBA at Indiana State University in August, having earned the advanced degree while serving one year as a teaching assistant in the ISU department of accounting. Prior to entering the military he worked briefly at General Housewares Corporation in Terre Haute where he initiated an electronic inventory management system.

2nd Lt. Eric L. Mitchell (Aero) is currently assigned as a special projects officer in the Material Analysis Branch at the Corpus Christi Army Depot at Corpus Christi, Texas. Eric entered service in November, 1972 at Fort Eustis, Va., and since has been honored as "Distinguished Graduate" of the transportation officer basic course, rotary wing training, and the aircraft maintenance officer course. Eric's current address is Corpus Christi Army Depot, Corpus Christi, Texas 78419.

'73

Timothy E. Hewitt (E.E.) has accepted a position as an electronics engineer for the Naval Avionics Facility of the Department of the Navy in Indianapolis. Tim and his wife Sandra reside at 774 N. Routiers, Indianapolis, Ind. 46219.

2nd Lt. Gary N. Bowman (Chem) is serving in the Army Staff Chemical Corps at Fort Rucker, Alabama, following his graduation from the chemical officer course. Gary recently made a page one splash in Fort Rucker's newspaper *The Army Flier* for his contributions on an emergency notification system for tornado preparedness. Gary and his wife, Michele, became the parents of Peggy Kristine last February. The Bowmans reside at 14 Endel Ave., Fort Rucker, Ala. 36360.

Dale Van Lanningham (B.S. Math/C.S. '73, M.S. Math/C.S. '74) is working for Bethlehem Steel Shipbuilding in the technical-computer applications group in Sparrows Point, Md. Dale brings *Echoes* up to date in this manner: "We work closely with the naval architects in designing plans for new ships. Work is going well on the first of five 265,000 dead weight ton oil tankers. More important personally is the birth of our new son, Eric James, born Sept. 5, 1974." The Van Lanninghams reside at 150 Featherwood Ave., Baltimore, Md. 21237.

Frank J. Butwin (Chem), who is working as a chemist for Velsicol Chemical Corporation in Marshall, Ill., and the former Shirley Ann Williams of Hymera were married in September. The couple resides at Apt. 32, Marshall House Apartments, Marshall, Ill. 62441.

Two Graduates Teaching Business at Indiana State

Two recent Rose-Hulman graduates are members of the faculty of management-finance of the school of business at Indiana State University.

Robert V. Reich, a 1971 graduate mechanical engineering, and **Earl W. Zwickey**, a 1972 M.E. joined the ISU faculty as instructors in August. Both held teaching assistantships while completing the M.B.A. at the university last year.

Earl and his wife, the former Pamela West of Evansville, completed masters in May, while Bob completed his M.B.A. in August.

In Memoriam

'02

Edward Lindley Jones (C.E.), formerly associated with Hoeffler & Company of Chicago, specialists in bridges, buildings and foundations, died October 26, 1974. Mr. Jones for some time has been the oldest living alumnus of Rose-Hulman.

'07

Harold S. Austin (Ch.E.), retired metallurgical and foundry consultant for General Motors Corporation, died July 19, 1974. He had retired in 1952 and since that time had made his home at Grand Rapids, Mich.

Delbert Kay (M.E.), retired advertising manager with the Nordberg Manufacturing Company, died October 26, 1974. Mr. Kay made his home in Milwaukee, Wisconsin.

Harry H. Orr (E.E.) formerly the Superintendent of Safety with C. & E. I. Railroad, died October 12, 1974 in Carmel, California.

'12

Alvin Dreifus (E.E.) died in March of 1974. He was a retired president of the Concrete Surfacing Machinery Company. Mr. Dreifus' home was in Cincinnati, Ohio.

Lucien D. Gilbert (M.E.), an engineer for Monsanto Chemical Company from 1934 until his retirement in 1957, died June 25, 1974. He had made his home in Webster Groves, Mo., since moving from Chicago to the St. Louis area.

'13

Lou W. Lewis (E.E.), formerly director of the bureau of supply and services for the Panama Canal and Panama Railroad Company, died Sept. 3, 1974 in Hendersonville, N.C. Mr. Lewis, who went with the Panama Canal operation upon graduation, retired in 1950 and since that time had been called on by news personnel and educators for his expertise in U.S.-Panama relations.

'24

Harold B. Hood (Ch.E.), prominent Indianapolis patent attorney, died Sept. 22, 1974 in Indianapolis. Following his graduation he continued law studies at George Washington University. Mr. Hood worked for the U.S. Patent Office for a short time before engaging in private practice in Cleveland and Indianapolis.

'14

James T. Hallett (C.E.), retired engineer for the Indiana State Highway Department, died Aug. 25, 1974 in Indianapolis. He had been retired from the State Highway department since 1959.

Chester E. Moore (C.E.), retired engineer and consultant for Bechtel International, died July 23, 1974 in Laguna Hills, Calif. Mr. Moore spent most of his career in the design and construction of oil drilling and refining operations, having served for 11 years as the European representative of Arthur G. McKee Company, Cleveland, end from 1942 until his retirement in 1957 with Bechtel International.

'16

Joseph H. Carter (M.E.), who rose from the job as a slagger for the old Youngstown Iron Cmpany in Lowellville, Ohio, to chairman of the board of Pittsburgh Steel Company, died July 17 in Pittsburgh. A champion of the smaller independent steel companies, he had been retired since 1955.

'19

Alexander P. King (M.E.), retired senior engineer for Public Service Indiana, died Jan. 29, 1975 in Terre Haute. He was associated with PSI for 31 years, having retired in 1961. Prior to joining PSI he worked for Bethlehem Steel in Pennsylvania and Grasselli Chemical Company in Cleveland, Ohio.

'21

Ray L. Biller (E.E.), retired district sales manager for Century Electric Company of Indianapolis, died Oct. 9, 1974. Mr. Biller joined Century Electric upon graduation and rose through the ranks of engineering sales to a number of district and regional executive posts.

'22

Kearney E. "Kay" Harmas (M.E.), retired Illinois Bell Telephone Company executive, died Sept. 5, 1974 in Laguna Hills, Calif. Mr. Harmas, who retired from Bell after 40 years in 1962, was active in alumni affairs, particularly as a class agent and organizer of class reunions of his graduating class.

'26

Arthur E. Faust (E.E.), formerly associated with Lincoln Bouillion and Associates of Seattle, Wash., died Sept. 23, 1974 in Seattle.

'29

Ralph C. Bailey (E.E.), retired general rate and forecast administrator for the Ohio Bell Telephone Company, died June 26, 1974 in Pompano Beach, Fla. Mr. Bailey who retired from Ohio Bell in 1966, rose through various engineering and management positions to the top commercial forecast administrator for the utility.

Collins W. Raines (Arch.), died July 20, 1974 in Greenville, S.C. Prior to his retirement in 1972, Mr. Raines had spent 20 years with J. W. Sistine Company, consulting engineers of Greenville, S.C.

'30

Milo M. Dean (C.E.), a retired manager of Heavy Truck Development for Ford Motor Company, died November 2, 1974. Mr. Dean made his home in Scottsdale, Arizona.

'31

Benedict B. Wassel (E.E.), died Sept. 29, 1974 at Logansport, Ind. At the time of his death he had been associated with Essex International Company for eight years.

'38

A. Craig Reynolds (E.E.-X'38) died Oct. 16, 1974 in Waterbury, Conn. Mr. Reynolds, who attended Rose for three years, completed his education at Harvard University following service with the U. S. Army Signal Corps, earning an M.S. in electrical engineering in 1947. He later worked in research and development for Stromberg Time Corporation and Magnavox Corporation.

'40

Norman G. Eder (M.E.) died July 25, 1972. At the time of his death Mr. Eder was Assistant Manager of Quality Control for the Eureka Williams Corporation. Mr. Eder's home was in Bloomington, Ill.

'49

Word has been received of the death May 23, 1973 of **Ervan R. Meise** (M.E., July '49) in Canoga Park, Calif. At the time of his death Mr. Meise was senior engineer in the research division of Atomics International, Inc.

'51

Francis L. McCormick (C.E.), formerly an engineer in the department of water supply for the City of Detroit, died Aug. 11, 1974 in Detroit. Mr. McCormick was the son of the late Prof. Robert L. McCormick, who served as teacher and head of the civil engineering department at Rose from 1891 until his retirement in 1937.

'73

Stephen J. Moseson (E.E.) died Nov. 23 in Grand Forks, Neb., where he was employed as an electronics engineer for the Federal Communications Commission.

RoseTech Clubs

NEW YORK

James F. Haring '49, President
Gary W. Phipps '60, Vice President
James F. Young '63, Secretary
Russell E. Archer, Jr. '61, Treasurer

WESTERN NEW YORK

Richard Bieman '70, Chairman

SYRACUSE

Don Nelson '53, President
Fred Ryker '59, Secretary

PHILADELPHIA

William R. Small '57, President
Stephen Whitesell '68, Vice President
Lowell E. Huffman July '49,
Secretary-Treasurer

WASHINGTON & BALTIMORE

Laurence J. Logue '59, President
Ronald E. Higginbotham '61, Vice President
Dane A. Horna '69, Secretary-Treasurer

CENTRAL FLORIDA

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