

Spring 1974

Volume XIII - Issue 1 - Spring-Summer, 1974

Echoes Staff

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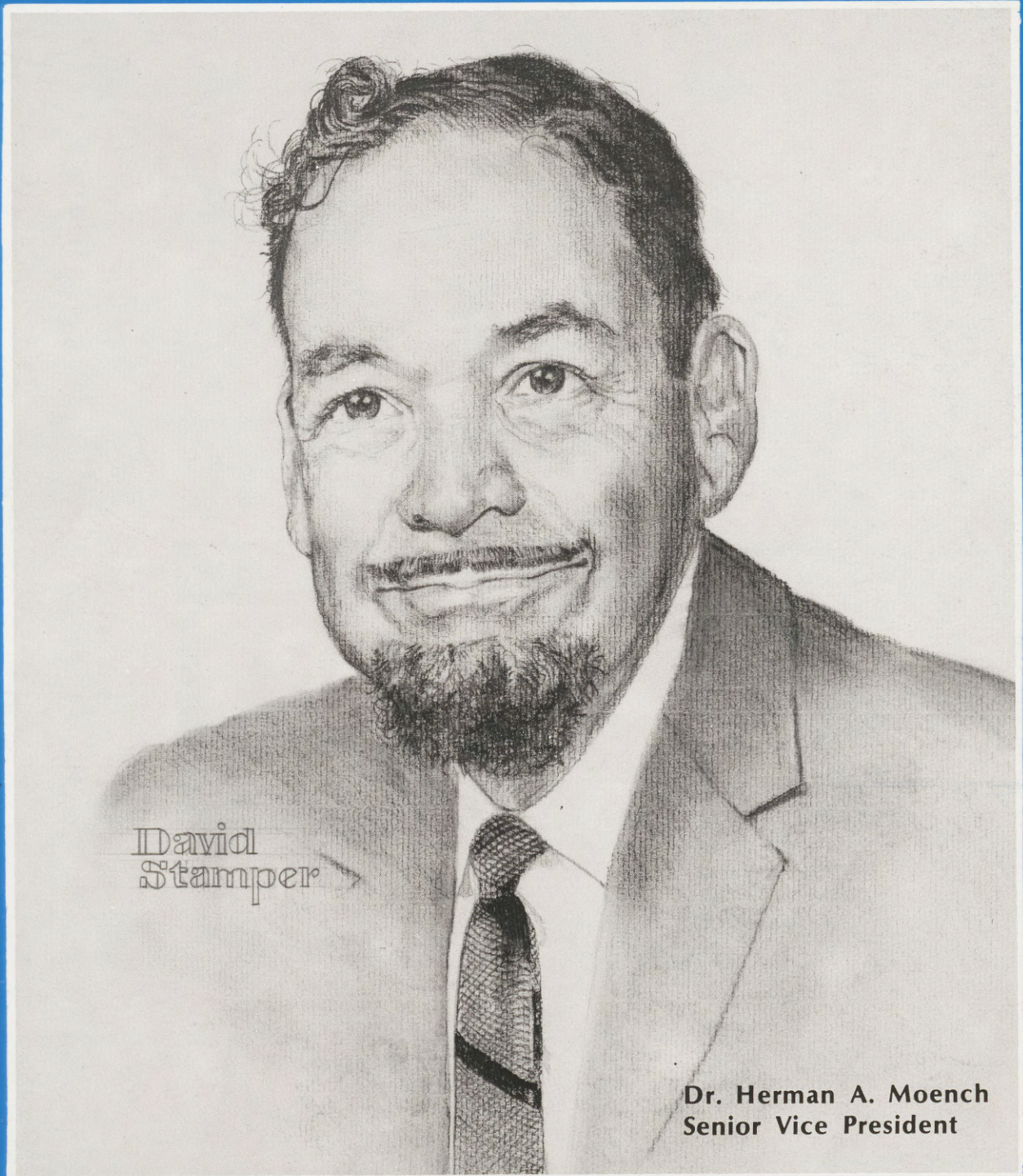
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ECHOES

Rose-Hulman Institute of Technology



David
Stamper

Dr. Herman A. Moench
Senior Vice President

Spring-Summer 1974

ECHOES

ALUMNI MAGAZINE

Spring-Summer, 1974 Vol. XIII, No. 1

ROSETECH ALUMNI ASSOCIATION

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Awards and Recognition

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Continuing Education

Richard L. Brown '59

Senior Orientation

Thomas L. Reese '58

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Adam K. Grafe '25

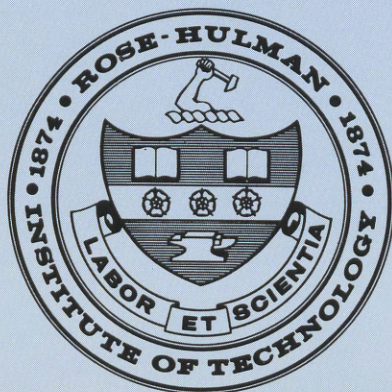
1970 to Annual Meeting 1974

John T. Newlin '43

1972 to Annual Meeting 1976

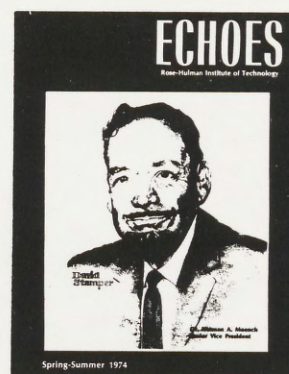
W. Kent Harris

Editor



In This Issue

The Centennial Commencement	1
Hooper Seated as Shattuck Professor	4
Pictorial Highlights of Commencement	6
Learning Resources Center	8
Prof. Palmer Retires	9
Four Elected to Board of Managers	10
Blanchar Receives Rose Medal	12
Hunter, Merrill, Hartmann Honored	13
Technology Assessment	14
Rose Show '74	16
Engineers Join Athletic Conference	18
Sports Roundup	19
Academy of Engineering Taps Alums	20
Class Notes	21
In Memoriam	23
RoseTech Club Activity	24



The Cover

The cover of the Spring 1974 Echoes honors Dr. Herman A. Moench, senior vice president and Josephus Collett Distinguished Professor of Engineering. The charcoal drawing of Rose's beloved Prof. Moench was executed by Terre Haute artist David Stamper.

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The Class of '74

The Centennial Commencement



100 Years of Excellence

Commencement--what Rose-Hulman Institute of Technology is all about--took on special meaning for many on the evening of Friday, May 24 in Shook Memorial Fieldhouse.

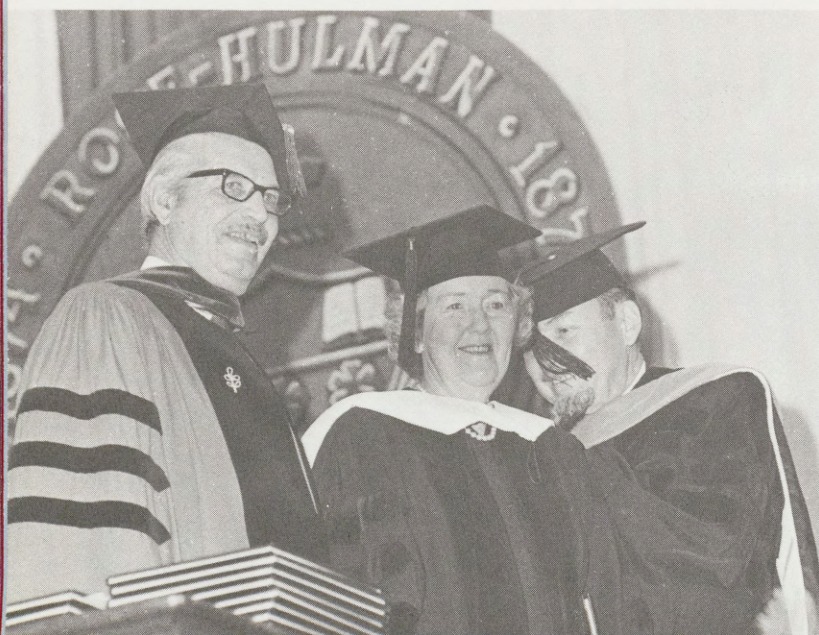
It was not that the 96th commencement was so much different than those which preceded it, but that it was so much the same. For unlike many colleges and universities which are seeking identity and mission, Rose-Hulman's role in higher education has never been more clearly defined.

Furthermore, the challenges and opportunities awaiting the next generation of engineers and scientists are mind-boggling. But then members of the Class of 1974, like their predecessors, are uncommonly well prepared to meet the challenges ahead.

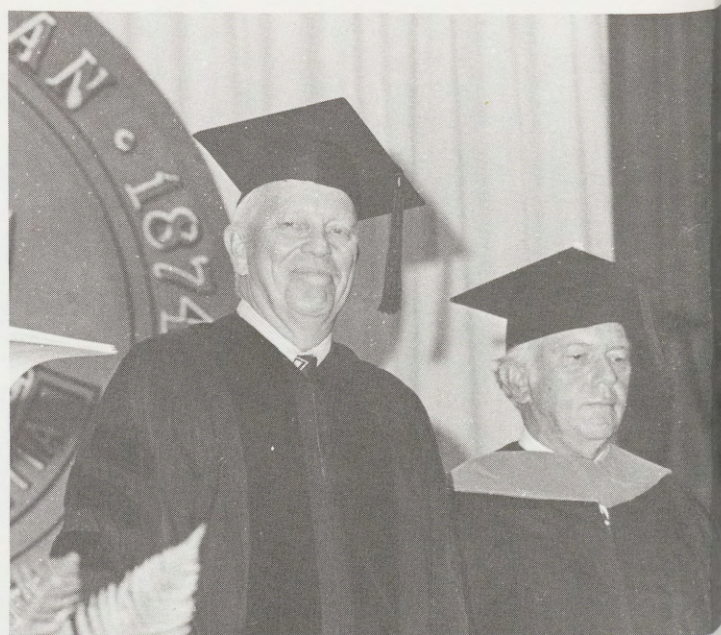
While the 215 men who were graduated with the Class of 1974 are the

best immediate indicator as to the "state of the college," other features of Commencement '74 such as the association of those selected to receive honorary degrees and the presentation of the Robert Shattuck Distinguished Professor of Engineering seemed to underscore the high esteem which Rose-Hulman and its graduates are held by individuals, corporations, alumni and friends.

Rose-Hulman conferred honorary doctorates on four persons, including Mrs. Mary Fendrich Hulman, Terre Haute civic leader who along with her husband, Anton Hulman, Jr., is a primary benefactor of Rose-Hulman. Others receiving doctorates were Dr. Robert C. Gunness, president of Standard Oil (Indiana); Edward C. Larson, president of The Anderson Company, and former Attorney General Elliot L. Richardson, the commencement speaker.



Mary Fendrich Hulman
... Doctor of Humane Letters



Robert C. Guinness
... Doctor of Engineering

In presenting Mrs. Hulman for the honor, Benjamin G. Cox, chairman of Rose-Hulman's Board of Managers, said:

"Mrs. Hulman represents a rare combination of an illustrious lineage, and loyalty to the principles of a strong family development and growth, all in the American tradition . . . together with a commitment, dedication and generous participation in philanthropic public service."

A native of Evansville, Mrs. Hulman was graduated from St. Mary-of-the-Woods Academy and later from Georgetown Visitation Convent Junior College in Washington, D.C. She and Mr. Hulman were married in 1926 and since that time have made their home in Terre Haute.

Over the years Mrs. Hulman has been a member of the Board of Trustees of St. Mary-of-the-Woods College and the Development Board of Wabash College in Crawfordsville. She also has been active in the Public Health Nursing Association of Terre Haute and has served on many supporting agencies for the benefit of St. Anthony Hospital.

Mrs. Hulman is active in fine arts circles, having served on the board of John Heron Art School in Indianapolis and as a member of the Trustee on the Fine Arts Committee of the Indianapolis Museum of Art.

She served on the Board of Overseers of the Swope Art Gallery in Terre Haute

from 1961 to 1964 when she was appointed by the Judge of the Vigo Circuit Court to the Board of Managers of the Swope Gallery where she continues as its president.

Mrs. Hulman is vice president of Fendrich Industries, Inc., which is a successor to H. Fendrich Cigar Company founded in Evansville by her grandfather, and is a director of Hulman & Company of Terre Haute.

Guinness Advocates Corporate Support of Higher Education

Dr. Guinness, who grew up at Amherst, Mass., where his father was head of the engineering department at the University of Massachusetts, holds a B.S. in chemistry from Massachusetts and the Doctor of Science in chemical engineering from Massachusetts Institute of Technology.

Following two years as an assistant professor of chemical engineering at M.I.T., he joined the research staff of Standard Oil Company of Indiana in 1938. He rose to associate director of research in 1945 and manager of research in 1947, becoming well known in the areas of distillation and heat transfer and in the development and design of new processes for the refining of petroleum.

In 1951 he was on leave from Indiana

Standard for several months to serve as vice chairman of the research and development board of the Department of Defense in Washington D.C. Upon his return to Indiana Standard he became assistant general manager of manufacturing in 1952, was elected to the board of directors in 1953, and became general manager of supply and transportation in 1954.

He was given additional responsibility for coordination of some of the corporations subsidiaries in later years, and in 1965 was elected president of Standard Oil (Indiana).

Dr. Guinness is a director of the Harris Trust and Savings Bank, Inland Steel Company and the American Petroleum Institute. He is a trustee of the University of Chicago, a life member of the Corporation of the Massachusetts Institute of Technology, and chairman of the Committee for Corporate Support of American Universities.

ANCO President Larson Champion for Young Men

A native of Chicago, Larson has been associated with the Anderson Company, an international auto parts manufacturing company headquartered in Gary, Ind., for 46 years. Following completion of a business course at Chicago, he joined the firm in 1928 as secretary and administrative assistant to the company's founder John Will Anderson.

Echoes



Richard C. Larson
... Doctor of Laws

Larson was elected a corporate officer in 1938, became vice president and treasurer in 1941, and was elected president following the death of Mr. Anderson in 1967.

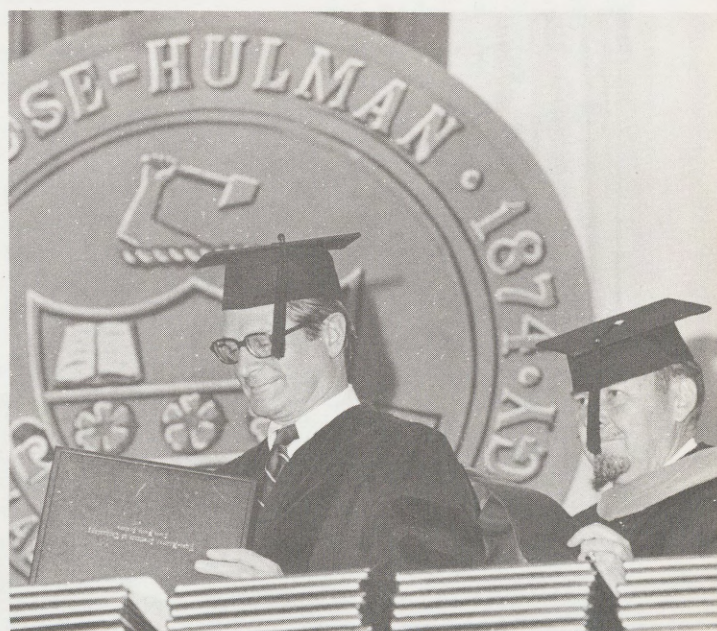
Under Mr. Larson's presidency the firm has expanded to international operations through the formation of a series of affiliated sales manufacturing firms in Belgium, Canada, Mexico and Brazil.

Larson has become well known in Northwest Indiana as well as nationally as a community-minded leader, primarily in youth-oriented services. He is chairman and a trustee of the John Will Anderson Foundation, a member of the corporate board of directors of the Boy's Club of Northwest Indiana, Inc., a board member of the John Will Anderson Boys Club of Gary, Ind., and a member of the national directors of Boys' Clubs of America, Inc., New York City.

He has been active in the Scout Movement and has been elected to serve on the National Council, Boy Scouts of America. He was named 1972 "Man of the Year" by the Calumet Council (Illinois-Indiana) Boy Scouts.

Larson is a director of the Automotive Organization Team, Inc., and the Automotive Hall of Fame, Midland, Mich. Mr. Larson serves as president of

Spring - Summer 1974



Elliot L. Richardson
... Doctor of Laws

the National Parent Council, Inc., Washington, D.C., president of the Marketing Policy Institute, Washington, D.C., and chairman for the national committee for Small Business Tax Reform and Simplification.

Richardson Urges Honesty and Integrity

Richardson, whose career in public service includes the cabinet posts of Secretary of Health, Education and Welfare, Secretary of Defense and Attorney General, was recognized for his courageous service.

He was graduated cum laude from Harvard College in 1941 and from Harvard Law School in 1947. He since has served in various positions under national political figures such as Judge Learned Hand and Senator Leverett Saltonstall, as well as engaging in the practice of law with the Boston Law firm of Ropes, Gray, Best Coolidge and Rugg.

His first major position at the federal level was his appointment by President Eisenhower in 1957 as assistant secretary of HEW.

Richardson later returned to Massachusetts where he was elected lieutenant governor in 1964 and two years later was elected Attorney General of his native state.

Returning to Washington in 1969 he served as Under Secretary of State, Secretary of HEW, Secretary of Defense and as the 69th Attorney General in slightly over four years.

Richardson resigned the Attorney General post last October rather than follow President Nixon's order to dismiss special Watergate prosecutor Archibald Cox.

In his commencement address he dealt mainly with honesty and integrity in government, warning that "anarchy will grow out of apathy."

He said the viability of our government "rests in our trust of governmental officials . . . when we think they are all crooks it can't work. When that happens, first anarchy and then totalitarianism."

Urging graduates to participate in government, he said, "Honesty is the best policy, and more honesty will emerge when politicians feel that honesty is the best answer."

"Honesty is paramount in any profession, especially engineering. Don't feel you can leave the responsibility to other people when it comes to the function of government."

Pay attention, he told the audience, or the gravitation of responsibility will go to people who feel that no one expects high standards of them. The results are evident.

James Gilman, Robert Peterka Tie for Heminway Medal

James K. Gilman, Hymera, and Robert J. Peterka, Brecksville, Ohio, tied for the Heminway Gold Medal given annually to the graduate with the highest grade point average for all work undertaken at the Institute. Both majored in biological engineering and earned identical 3.981 grade point averages on a 4.0 system.

It was only the second time in the history of the award which dates to 1888 that two graduates shared the honor. Both completed 211 credit hours and gained 849 quality points, according to Louis W. Harmening, registrar.

The duel between Gilman and Peterka for Rose-Hulman's most coveted honor went down to the wire, with both carrying overload class schedules the last term. Gilman earned a perfect 4.0 in 22 hours, while Peterka was perfect carrying a 20-hour class schedule.

The record shows that Robert B. Arnold (Ch.E.) and Brent C. Jacob (E.E.) each received a gold Heminway Medal in 1903. But according to available records, it was not an absolute tie but a judgment call on the part of the faculty.

An entry in Arnold's record points out two shared the honor. The record states: "Was so nearly equal with Brent C. Jacob in standing for the course that the faculty recommended and the Board of Managers approved the giving of a gold medal to him also."

Clayton R. Black, who capped an outstanding career as an honor student and two-sport athlete by serving as student body president during 1973-74, was the recipient of the John T. Royse Award given annually to the senior voted to be most outstanding member of the class based on scholarship, campus leadership and participation in extra-curricular activities.

Black, who was graduated with high honors in mechanical engineering, was active in student government all four years at Rose-Hulman, previously serving in Student Congress. He was a starting guard on the Engineers' varsity basketball team all four years and played varsity baseball two years.

Dean's Outstanding Teacher

The seventh annual presentation of the Dean's Outstanding Teacher Award to recognize an individual who, by his

Veteran Teacher Irvin Hooper Seated as Fir

The presentation of the first Robert Shattuck Distinguished Professor of Engineering was one of the highlights of the Centennial Commencement.

The endowed chair made possible through a \$150,000 gift from Borg-Warner Corporation honors Shattuck, a 1936 alumnus who rose through engineering and management positions to vice president and a director of Borg-Warner Corporation.

Irvin P. Hooper, professor of mechanical engineering and director of continuing education at Rose-Hulman, has been designated as the first Robert Shattuck Professor of Engineering. The award carries an initial cash stipend and annual grants to be used to further engineering education at Rose-Hulman.

Prof. Hooper joined the Rose-Hulman faculty in 1940 and following service as a Marine Corps officer during World War II, returned to an academic career.

Rising to chairman of the department of mechanical engineering in 1955, he served as head of mechanical engineering until 1965 when he became business manager. Prof. Hooper continued to teach part-time in his specialty during his tenure as business manager.

Under his direction and supervision as business manager Rose-Hulman embarked on the most ambitious period of construction and remodeling as Rose-Hulman expanded from 500 students to the goal of slightly over 1,000-man

attention and dedication to his students, both in and out of the classroom, was awarded to Dr. Herman A. Moench, senior vice president and one of the most revered teachers in the history of the institute known for its great teachers.

The award consists of an engraved desk set and a check for \$250.

Dr. Moench, who was graduated from Rose with a B.S. in electrical engineering in 1929, joined his alma mater as a teacher the following year.

He has served as a teacher, department chairman, academic dean and vice president of the Institute. Dr. Moench



Robert Shattuck

enrollment it plans to maintain.

Returning to full time teaching in 1969, he was awarded the Dean's Outstanding Teacher Award in 1970 and developed Rose-Hulman's program in continuing education.

A graduate of Tufts University, Prof. Hooper earned his masters at the University of Vermont. He is a registered professional engineer who has broad experience as a consultant to power generation, general manufacturing and aircraft industries.

Prof. Hooper is on the Indiana State Boiler and Pressure Vessel Board and serves as a consultant to the State Board of Registration for Professional Engineers and Land Surveyors.

The popular professor perhaps is described best in a statement by Dr. James B. Matthews, vice president for academic affairs and dean of the faculty.

This former student who later succeeded Prof. Hooper as chairman of mechanical engineering said:

also has served as acting president in 1958-59 and 1961-62.

Since 1966 he has been vice president and the Josephus Collett Distinguished Professor of Engineering. He has the distinction of having taught more Rose-Hulman graduates than any other professor in the history of the Institute.

In addition to his outstanding contribution as a classroom teacher, he has been active as a professional engineer. For 20 years he has served on the State Board of Registration for Professional Engineers and in 1964 was named the "Engineer of the Year" by the Indiana Society of Professional Engineers.

Echoes

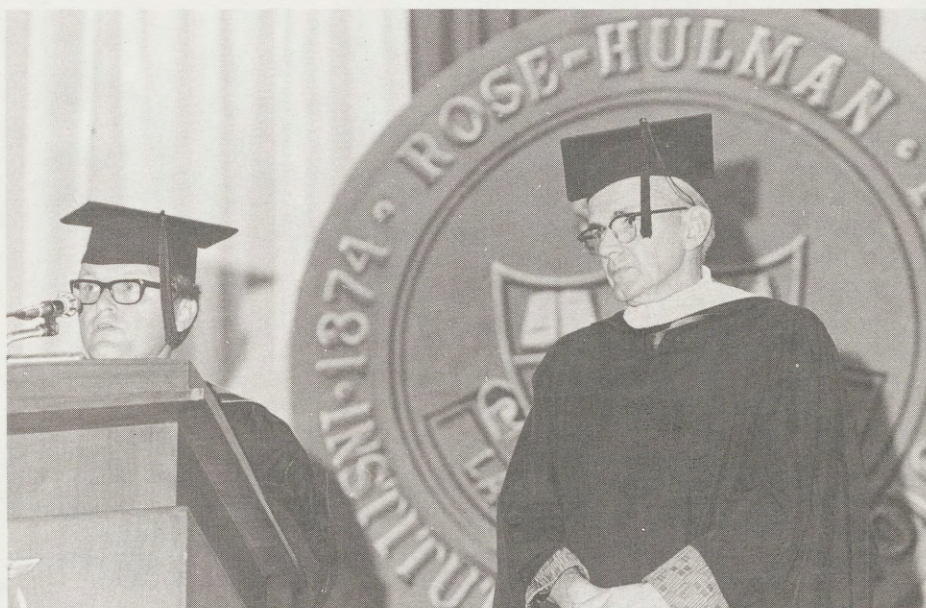
First Robert Shattuck Distinguished Professor of Engineering.

"Irv Hooper exemplifies the finest characteristics of an engineer. He is recognized by his peers as a master of his profession and as an individual of unquestioned integrity. He is known and respected beyond the campus because of his accomplishments as an engineer and as a citizen. He is already a distinguished professor and it is indeed appropriate that he be formally designated on this 24th Day of May in 1974, the Robert Shattuck Distinguished Professor Engineering."

In commenting on establishment of the chair, President Logan praised Borg-Warner for its continued support of the engineering college.

"We sincerely appreciate this generous gift and also the honor we are able to bestow on one of our most distinguished alumni. For some time Borg-Warner has been identified around the world by its 'The Great Engineers' slogan ... Bob Shattuck has been one of their truly great engineers. Creation of this engineering chair in his honor certainly reflects his contribution to Borg-Warner and the engineering profession."

A native of Clinton, Ind., Shattuck joined United States Gypsum Co., Jersey City, N.J., in 1936, serving in turn as plant chemist, superintendent of the insulation manufacturing department and as assistant superintendent of USG's paper mill. In 1942 he was transferred to



Dr. Matthews presenting Prof. Hooper for honor.

the Chicago office to become assistant to the production manager of the roofing division.

Later that year Shattuck joined Borg-Warner as assistant general manager of the Marbon Chemical Division. He subsequently was headquartered in Gary, Ind., and Parkersburg, W. Va. and rose to general manager of the division in 1944 and became president in 1953.

In 1963 Shattuck moved to corporate headquarters in Chicago as group vice president in charge of chemical operations. He continued to serve as chairman of Marbon Chemical, producer of ABS plastic resins,

adhesives, latex, paint and rubber resins. He was elected executive vice president in 1966 and a director in 1968.

Shattuck, who retired from Borg-Warner last May but remained on the board of directors, was responsible for coordinating Borg-Warner's long-range planning objectives, including acquisitions, product planning and commercial development in areas not specifically covered by a division.

Relocated in West Virginia following retirement, Shattuck and his wife Estelle reside at 4901 Eighth Avenue, Vienna, W. Va. The couple has one son.

His contribution to the registration of professional engineers has been national in scope.

Since 1971 Dr. Moench has served as regional vice president for the National Council of Engineering Examiners, having served the national organization for nearly two decades in assignments including the Engineers-in-Training, Qualifications for Registration, National Advisory, and Uniform Examination committees.

At the request of the Engineers' Council for Professional Development, the primary accrediting agency for
Spring - Summer 1974

engineering schools, he has visited a number of engineering colleges on accreditation inspections.

President's Service Award

Mrs. Mildred H. Smith, secretary to the electrical engineering department, received the President's Outstanding Service Award. The award, which recognizes outstanding service by a member of the faculty, staff or administration, is sponsored by Indiana Bell Telephone Company.

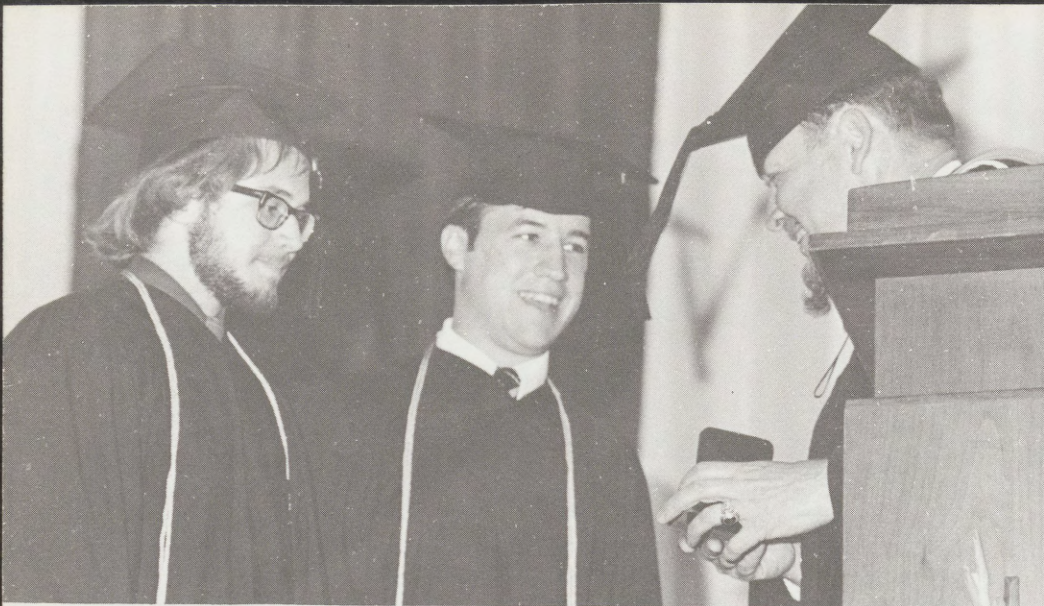
Mrs. Smith joined Rose-Hulman in 1954 and for some time was secretary

for the entire faculty. In more recent years she has served as secretary to Vice President Moench and the electrical engineering and physics departments.

To be sure, "Millie" Smith is a very efficient and productive secretary with an uncommon knack for getting along with her co-workers.

After each member of the Class of 1974 passed across the stage to receive his diploma and greetings by President Logan, he was given an autographed copy of "Rose: The first One Hundred Years" by retired vice president Dr. John L. Bloxsome. . . . a fitting capstone for graduates of the Centennial Year.

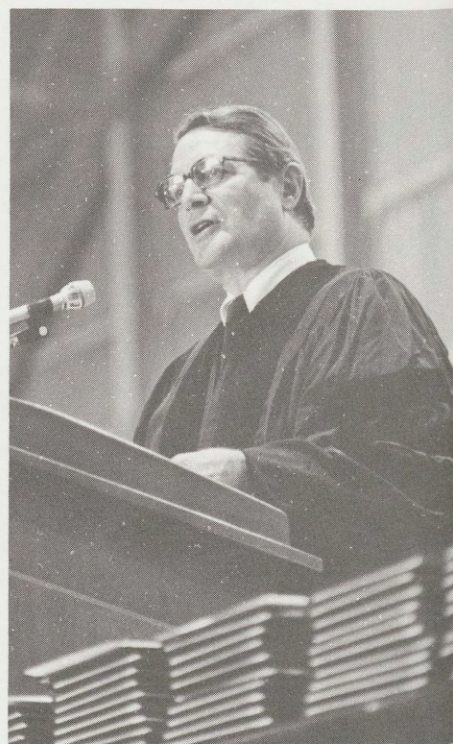
Commencement Highlights



Heminway Medal Winners Robert Peterka and James Gilman



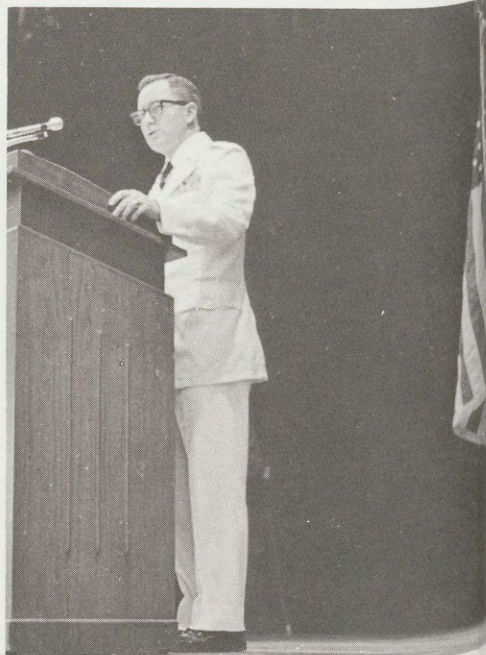
Clayton Black accepting Royse Award

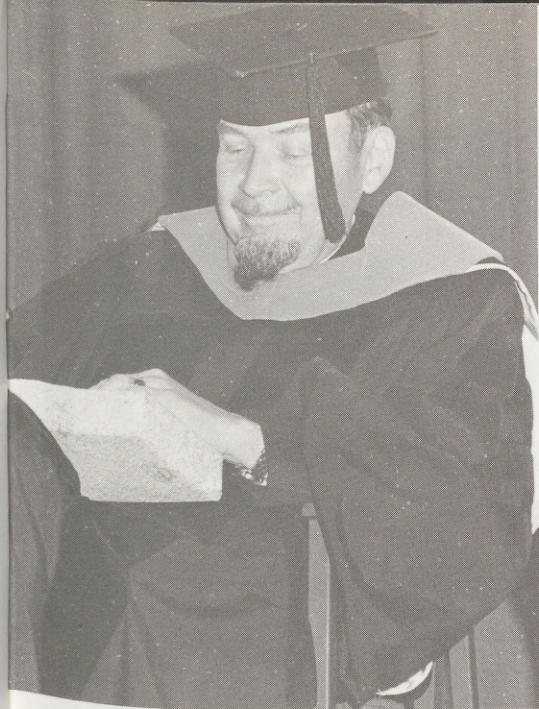


Honesty the key: Richardson



Taking the oath as second lieutenants





Dean's Outstanding Teacher



Millie Smith: service with a smile



Grafe Nesbit and parents share moment with grandfather Paul Grafe '20 and uncle Adam Grafe '25

Spring - Summer 1974

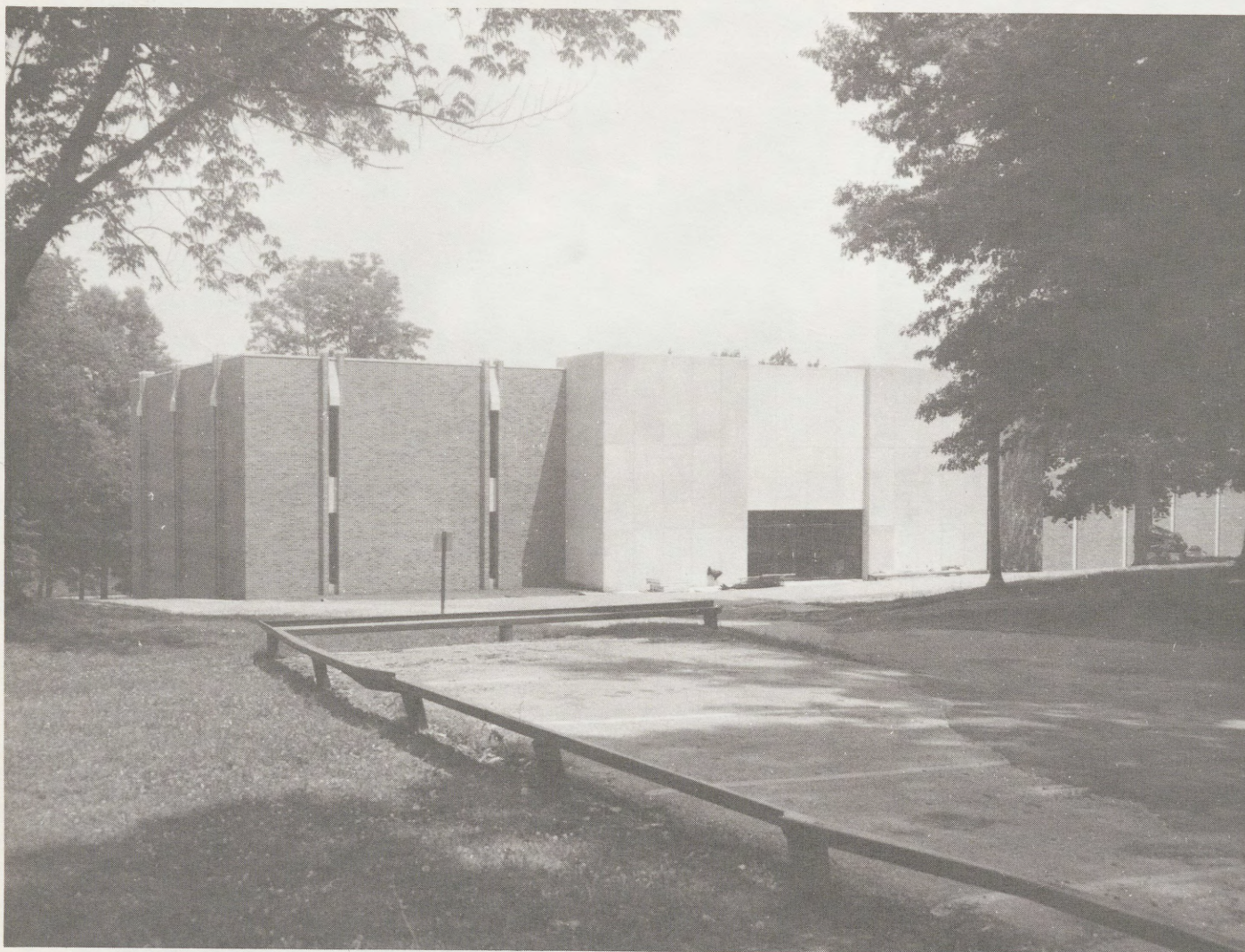


LEGACIES--Commencement '74 was an especially proud moment for seven alumni whose sons followed them as graduates of "Dear Old Rose." Father-son graduates from left are Ray Summerlot (Aug. '50) and son Ray, Sam Lynch ('50) and son Larry, Robert Larkin (July '44) and son Tom, John Krampe (June '47) and son John, John Pirtle ('52) and son George, George Edwards (Oct. '43) and son John and John White (March '47) and son John.



Mr. and Mrs. Anton Hulman, Jr.





The Learning Resources Center--a much needed facility.

Dedication at Homecoming

Learning Resources Center Nears Completion

The Learning Resources Center--top priority of the Final Phase of the Centennial Development Program--is a reality. Well, almost a reality.

Although construction has fallen slightly behind because of two work stoppages this summer, all indications are that the business of moving the books from the former library in the Main Building to the new Learning Center will begin the first two weeks school is in session.

What does the new Learning Resources Center mean to the student?

Librarian Herman Cole, Jr., sums up the facility by saying, "it will permit us

to function as a library and provide a much better environment for students to study."

Pointing to the rows of eight-man tables in the old library, Cole pointed out that through use of the "landscaping technique" of the new library, single and two-man study units will be the rule in the top two floors of the Learning Resources Center.

The new library is fully carpeted and will be enhanced by the 130-piece Tri Kappa collection of noted Hoosier Artists which will be placed throughout the building.

In addition to the 150 additional

single student areas offered by the new library, students will be able to study in small groups in seminar rooms located on first and second floors.

The lower level, dubbed as the "wired" portion of the Learning Resources Center, will allow information retrieval and other related services.

"The real difference is the quality of the seating," says Cole, "a guy will be able to come in and study without having to be bothered by a half-dozen people at the next table."

Anyone who has been in the old library the last dozen or so years will appreciate what Librarian Cole is talking about.

Echoes

Style of His Own

Professor Palmer Retires After 37 Years at RHIT

Rose-Hulman's mathematics department will not be the same come fall.

For one of the school's great teachers--Professor Theodore Paine Palmer--retired in May after 37 years of service to the Institute.

A native of Minnesota with an air of British propriety, Prof. Palmer joined the faculty in 1937 after one year of teaching mathematics at Macalester College in St. Paul, Minn.

Prof. Palmer, who had earned his B.A. at Amherst College and did his graduate work at Harvard University, served as an instructor and assistant professor in the two-man mathematics department (Dr. Clarence Sousley was the other member) until entering active duty as a captain in the Military Intelligence Reserve in 1942. He previously had been in the U. S. Army Infantry Reserve since 1926.

It was during his military assignment in London that he met and later married Edith Pickering Palmer.

Upon returning from the military, Prof. Palmer was promoted to professor and some eight years later became head of the mathematics department upon the retirement of Dr. Sousley in 1954.

Prof. Palmer was largely responsible for writing the curriculum for the college's first degree program in mathematics in 1960 and the same year was named to head the Edward G. Waters Computing Center as the digital computer came on the scene.

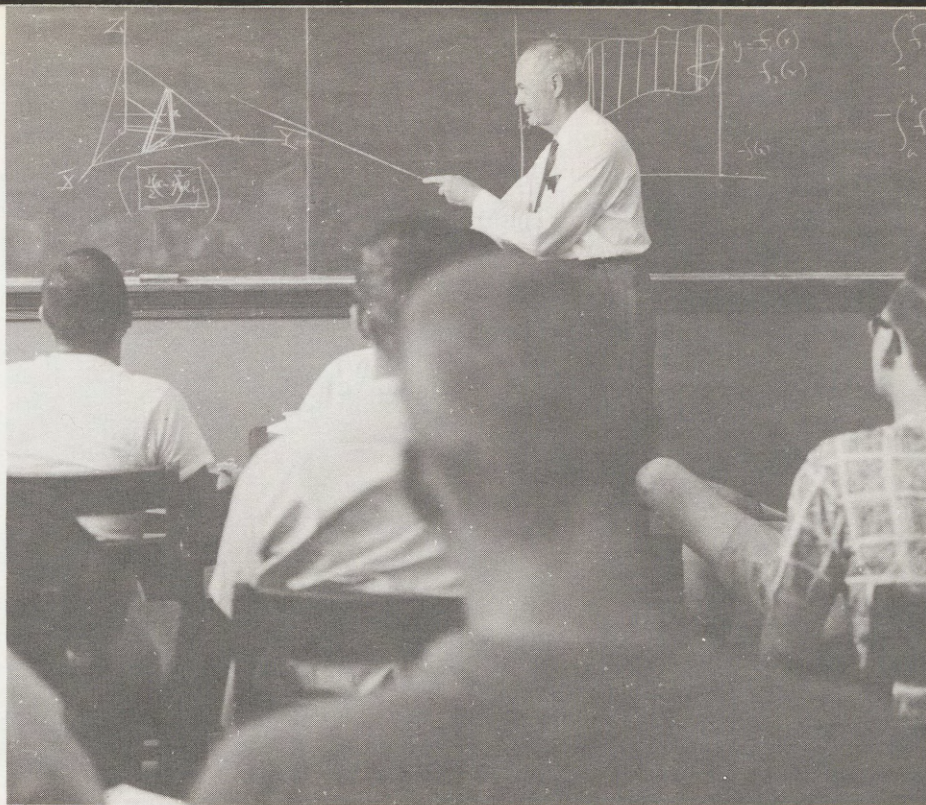
Active in numerous educational and mathematics societies, he was a delegate to the International Congress of Mathematicians at Cambridge, Mass., in 1950, Edinburgh, Scotland in 1958 and Stockholm, Sweden, in 1962.

He also served as faculty adviser to the Glee Club, the Drama Club, and as chairman of convocations during his tenure at Rose-Hulman.

Prof. Palmer is known in the community as a top-notch bridge player and director of the Non Fumeur Bridge Club which meets at the Institute.

He also has worked with Community Theatre since 1937 and at one time had

Spring - Summer 1974



Prof. Palmer at the board

RHIT Bequeathed \$276,500 for Humanities

A prominent Wabash Valley businesswoman and civic leader, whose keen interest in Rose-Hulman was known by relatively few, left the college more than a quarter million dollars to enhance its offerings in the liberal arts.

According to the will of Mrs. Elsie Pawley, formerly head of the S. H. Pawley Lumber Company and subsidiaries, Rose-Hulman was bequeathed \$276,529.67 "solely and exclusively for the use and benefit of the Department of Humanities and Social Sciences to better equip students with a capacity for responsible action in any social setting in which they may find themselves after graduation from the Institute."

Mrs. Pawley, who died August 17, 1972 at the age of 92, bequeathed an equal amount to DePauw University at Greencastle.

"This generous gift from Mrs. Pawley gives Rose-Hulman the opportunity to

been in more plays than any other individual in the city. Graduates of the late 1940s and early 1950s also may recall his role in the Municipal Musicals.

Ted and Edith Palmer were honored by fellow faculty, members of the board and former students during a banquet in mid-May.

develop programs in humanities in new and meaningful ways," notes President John A. Logan. "It recognizes the importance of the humanities in engineering education and reflects her concern for the development of the 'whole man'--a primary need in our profession today and tomorrow."

The bequest has been placed in restricted endowment, the income from which will be used for special programs in humanities not covered by normal budgeting.

A native of Terre Haute, Mrs. Pawley became aware of Rose-Hulman through the association of Attorney John G. Biel, for many years adjunct professor of business law at Rose-Hulman, and Charles A. Mathes, recently retired Rose-Hulman comptroller who formerly was associated with Pawley Lumber Company.

Founded in 1893, the Pawley Lumber Company was run by Mrs. Pawley's late husband Stephen H. Pawley, for a number of years prior to his death in 1936. Mrs. Pawley took over the business upon his death and expanded its operations. The business included two yards in Terre Haute, and other yards in Dana, Brazil, Cayuga, Center Point, Perrysville and St. Bernice.



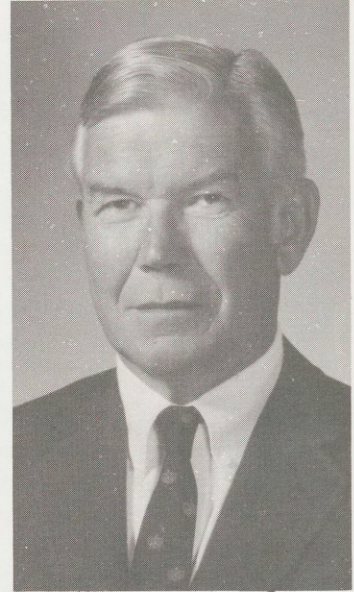
Ernest G. Hurst



Vladimir Haensel



John E. Kasch



Thomas W. Moses

Four Elected to Board of Managers

Four new members have joined the Board of Managers during the 1973-74 academic year.

Elected to five-year terms were Ernest G. Hurst '31, chairman of the board of Hurst-Rosche, Inc., consulting engineers of Hillsboro, Ill.; Dr. Vladimir Haensel, vice president-science and technology for Universal Oil Products Company, Des Plaines, Ill.; Dr. John E. Kasch, president of Amoco International Oil Company, Chicago, Ill., and Thomas W. Moses, chairman of the board and president of the Indianapolis Water Company.

ERNEST G. HURST

A native of Pana, Ill., Hurst was graduated from Rose with honors in civil engineering. He went directly to the Illinois State Highway Department and continued there until entering the private consulting business in 1937.

Today he is either a chairman of the board, president or director in five engineering companies in the Midwest and abroad which specialize in services in areas of structural design and construction supervision including highways, bridges, recreation-conservation lakes and water resources.

The Hurst firm has subsidiary companies in Latin America which in

recent years have supervised construction of major port projects on the Atlantic Coast of Guatemala and have been active in the development and design of liquid natural gas production in the African and Latin American gas producing companies.

Hurst pioneered in the concrete products industry and from 1946 to 1965 the partnership of Hurst-Rosche owned and operated two plants in Illinois and one in Indiana. Perhaps one of Hurst's chief engineering accomplishments was his part in developing the first waterproofing agents for concrete products.

VLADIMIR HAENSEL

A native of Freiburg, Germany, Haensel spent his early youth in Moscow, Russia. After a brief sojourn in Germany, Austria and France, he came to the United States in 1930 and was naturalized in 1936.

He received a bachelor's degree in general engineering from Northwestern University in 1935, a master's degree in chemical engineering from Massachusetts Institute of Technology in 1937, and a Ph.D. in chemistry from Northwestern in 1941.

Haensel joined Universal Oil Products Company in 1937 as a chemical engineer. Two years later he was

assigned to the Ipatieff High Pressure Laboratory at Northwestern as assistant to Professor V. N. Ipatieff, returning to the laboratories of UOP upon completion of his doctorate.

From February to July of 1945, Dr. Haensel served as an inspector of German synthetic oil plants with the Technical Oil Mission for the Petroleum Administration for War. In August of the same year he was appointed coordinator of the cracking research division of Universal Oil Products Company, and ten years later became director of refining research. In January, 1960, he became director of process research, and in January, 1964 was elected vice president and director of research. In 1972, he was appointed vice president-science and technology.

Recipient of numerous awards for contributions to the petroleum industry, he was elected a member of the National Academy of Sciences in 1971 and was awarded the National Medal of Science in 1973.

JOHN E. KASCH

A native of Bloomington, Ind., Kasch is a graduate of the University of Texas with B.S. and M.S. degrees and a doctorate in chemical engineering. He received the distinguished engineering

Echoes

graduate award from the University of Texas in 1960.

His career with Indiana Standard companies began in 1942, when he joined American Oil Company as a chemical engineer at its Texas City, Texas, refinery. During World War II he was on loan for two years to the Petroleum Administration for War. He returned to Texas City as head of economics and refinery coordination, and later held positions of increasing responsibility in the research and development department. In 1952 he was transferred to the company's New York Headquarters as assistant to the president, and in 1956 was appointed manager of research and development.

In 1957 Kasch was elected a director and vice president of administration of American Oil and served in that capacity until 1960, when he was named general manager of supply and transportation.

Kasch served as a vice president of Standard Oil (Indiana), with staff coordinating responsibilities worldwide for crude oil and natural gas production, manufacturing, transportation, engineering, purchasing and research, from 1965 until his appointment in 1966 as executive vice president of Amoco International Oil Company, and president in early 1974.

He is past-chairman of Colonial Pipeline Company, and a member of the board of trustees and executive committee of the Chicago Medical School, a charter member of the visiting committee of the Department of Chemical Engineering of the University of Texas and currently chairman of the University of Texas Engineering Foundation Advisory Council.

THOMAS W. MOSES

A native of Benton, Ill., Moses received an A.B. from Washington & Lee University in 1939 and his L.L.B. from Yale University Law School in 1942.

Following military service with the U.S. Navy Reserve from 1942-45, he practiced law in West Virginia and Pennsylvania through 1956 when he joined the Indianapolis Water Company as president.

Moses later served as president of the Philadelphia Suburban Water Company, Investors Diversified Services, First Oceanic Corporation and as chairman

Spring - Summer 1974



Owen Meharg (right) presents award to board member James Skinner.

ISEF Honors Skinner for Service

James C. Skinner, chairman of Thomas and Skinner, Inc., of Indianapolis and secretary of Rose-Hulman's Board of Managers since 1959, recently was honored as the recipient of the 1974 Community Service Award by the Indianapolis Scientific and Engineering Foundation, Inc.

The 1933 mechanical engineering

of the board of National City Bank of Minneapolis prior to rejoining Indianapolis Water Company as chairman of the board and president in 1970. He also heads The Shorewood Corporation, an Indianapolis Water Company subsidiary.

Active in civic affairs, he is president of Indiana Environmental Quality Control, Inc., and is chairman of the Chamber of Commerce Environmental Improvement Committee. He also is on the board of directors of Indiana State Chamber of Commerce, the Indianapolis Chamber of Commerce, Greater Indianapolis Progress Committee, Merchants National Bank & Trust Company, Merchants National Corporation, United Way of Greater Indianapolis, Central Indiana Council-Boy Scouts of America, Indiana Insurance Company, Flanner House, The Catholic Seminary Foundation, and the Columbia Club.

graduate was recognized for his outstanding service to this foundation created to promote communication and cooperation among scientists and engineers of the greater Indianapolis area. A charter member and director of ISEF, he has been particularly devoted to the new Indianapolis Center for Advanced Research and heads one of the two divisions of the \$6 million project.

He has been active in professional, community and civic circles and for many years has served as an ambassador to call on Indianapolis businessmen with various college presidents to present cause for the Associated Colleges of Indiana--an organization of great benefit to Rose-Hulman and the state's other independent schools.

He is a member of The Indianapolis Chamber of Commerce, The AAIE magnetics group, and is active in the Management Division of the American Society of Mechanical Engineers, having served as committee chairman. He was presented the ASME "Achievement Scroll" in 1967.

He has an outstanding record of contribution to his alma mater, having chaired the board's committee on academic affairs in recent years in addition to his duties as secretary and a member of the executive committee of the governing body of the Institute.

Blanchar Receives 7th Rose Medal

'Tunnel Vision' Topic for 22nd Schmidt Lecture

"Integrity--specifically, the honesty called for in examining all sides of a situation in fullest detail--is the need of our time."

The speaker was Carroll H. Blanchar, chairman and chief executive officer of Public Service Indiana and a member of Rose-Hulman's Board of Managers, and the occasion was the twenty-second annual Oscar C. Schmidt Memorial Lecture on free enterprise Tuesday, April 23.

Speaking on the topic "Tunnel Vision," the Public Service Indiana executive cited examples of what he termed "tunnel vision of self-interest" and how this malady erodes government, business, institutions and individuals.

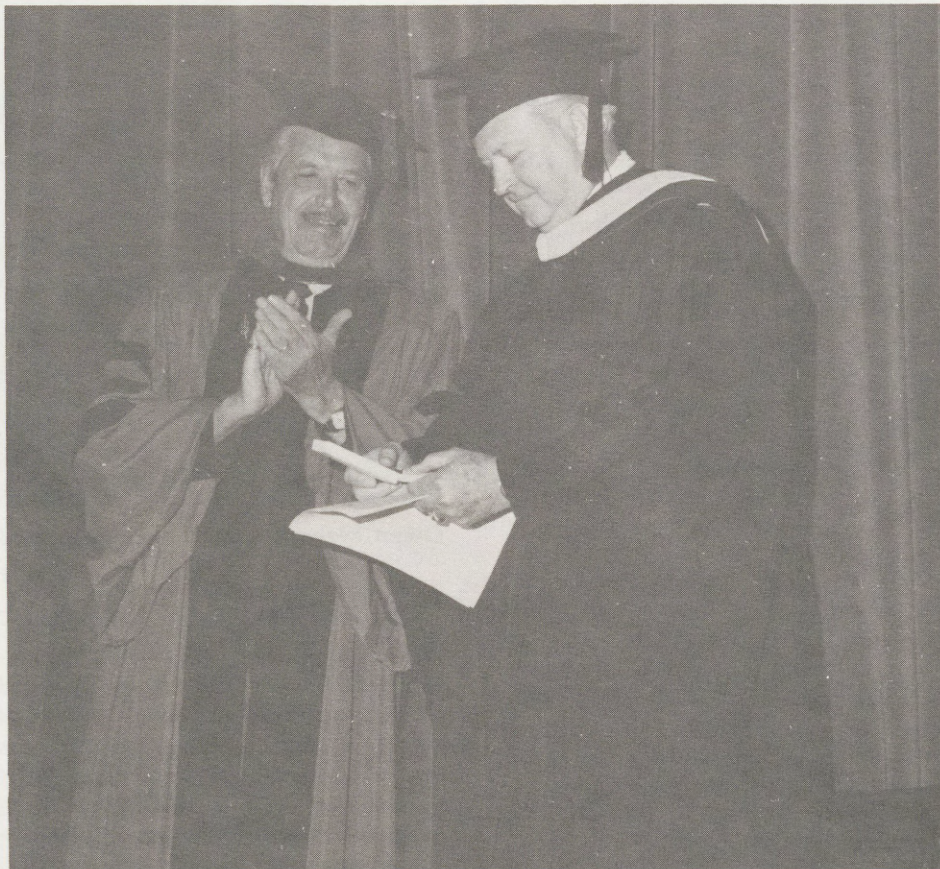
"This failure to back off from the close-range urgencies of self-interest and look at all the offshooting impacts of any given action results in a myopic blur," stated Blanchar. "Judgments made without first obtaining all the facts are not only faulty judgments, they are unfair. But they are occurring every day in all phases of our individual and national affairs. And they are hurting us all."

Focusing on the utility business on both the short term and long range bases, he said nuclear-electric energy is "a viable solution to the long-term energy crisis." But he warned on proceeding with haste.

"In the shifting process, we must make increasing use of the one fossil fuel that is not in short supply. Coal is the hope for the energy transition of the next 50 years.

"Coal will give us the time we need to let the young and promising nuclear energy industry develop the strong and massive muscle needed to take on a bigger load as the nation's and the world's prime energy source."

Blanchar substantiated his remarks with statistics on the levels of



Dr. Logan presents Rose Medal to Carroll Blanchar.

... Proud moment for Public Service Indiana executive.

consumption of coal, oil and gas and the availability of each of the resources.

The utility chief then moved to the "tunnel vision" of the Environmental Protection Agency (EPA).

"The Clean Air Act and its implementation by the Environmental Protection Agency offers a case in point. Using the tunnel vision of self-interest, it set out to clean the air-period! Damn the torpedoes, full speed ahead! Disregard technological limitations and engineering realities. In fact, don't even take the time to fully document the true scope of the problem. We know the air is dirty; let's order total clean-up. . .

"Thus, in the name of clean air, such tunnel vision actually fails to function in the broader public interest. For what is resulting is a tremendously expensive forced program of hurried, unproven equipment installations that may or may not solve a problem that has not even been documented as a *real* problem.

"Your electric bill may be higher. The air may or may not be cleaner. It is doubtful that you will receive true value for higher costs you will have to pay as a result of such tunnel vision. In this process, industry is unfairly painted as being uncooperative and unresponsive."

Blanchar also cited tunnel vision and a lack of integrity on the part of the consumerism movement and its broadside attack on business.

"The tunnel vision approach totally ignores the fact that businessmen are the first to know that their survival and success depends on their ability to serve the customer satisfactorily," said Blanchar. "Most mistakes and omissions in business dealings are honest ones and reflect the frailty of humans. Some are not. But blanket attacks and movements designed to cause the public to distrust business, are neither constructive nor helpful. They often result in extremely

Echoes

Hunter, Merrill, Hartmann Receive Honorary Degrees

One of the objectives of the Centennial Celebration is to honor members of the Rose-Hulman family for significant contributions to their profession, civic affairs and "Dear Old Rose."

On the occasion of the Schmidt Memorial Lecture, Rose-Hulman honored three popular alumni--John E. Hartmann X-'35, John B. Hunter X-'38 and A. Tom Merrill X-'39--by conferring honorary Master of Engineering degrees on them for their outstanding and dedicated service in a broad range of activities.

Hartmann, head of Hartmann Company, Inc., roofing and sheet metal contracting firm, is a past president and treasurer of the National Roofing Contractors Association, past president of the Indiana Roofing Contractors Association and a member of the board of directors of Central Federal Savings & Loan Association of Terre Haute.

Active in the Terre Haute community, he is a former member of the board of directors of the Country Club of Terre Haute and former president of the Terre Haute YMCA.

Hunter, president of Hunter, Gillum, Hunter, has served as president of the Terre Haute Rotary Club and Family Service Association.



Board Chairman Benjamin G. Cox (right) confers degrees on alumni John Hunter, Tom Merrill and John Hartmann.

He is a charter member and current chairman of the Rose-Hulman Board of Associates and is Sector Chairman for the college's Centennial Development Campaign. He also is secretary of the Country Club of Terre Haute, and is a member of Alpha Tau Omega fraternity, the Independent Insurance Agents of Indiana, Terre Haute Insurance Board and the Wabash Valley Red Cross. He is a member of the St. Stephens Episcopal Church.

Merrill, a partner in Merrill & Merrill

Insurance, is a former president of the Terre Haute Insurance Board and has been active in the Terre Haute Rotary, Terre Haute YMCA, Elks Country Club, Sycamore Club and the Wabash Valley council of the Central Presbyterian Church.

The Merrill Family has the distinction of a 3-generation legacy at the Institute. Merrill's father, A. D. Merrill, is a member of the Class of 1916, while his son, Thomas A. Merrill, is a member of the Class of 1971.

costly actions that penalize the consumer by forcing prices higher."

In conclusion, he urged using the broadest vision and the clearest insight in looking at the world around us.

Blanchar received the seventh annual Chauncey Rose Medal for outstanding contributions to free enterprise at the beginning of the convocation. Former winners are Maynard C. Wheeler, chairman of the board of Commercial Solvents Corporation; Dr. O. C. Carmichael, Jr., chairman of the Board of Associates Investment Company; J. David Carr, general superintendent, United States Steel Corporation; Dr. Tom Haggai, noted lecturer and

advocate of free enterprise; J. Erik Jonsson, chairman of the board, Texas Instruments, Inc., and Burt F. Raynes, chairman and chief executive officer, Rohr Corporation.

A native of Wisconsin, Blanchar began his career in business upon graduation from the University of Wisconsin in 1933. He also studied at the Harvard Business School and is a Certified Public Accountant.

Blanchar worked for the accounting firm of Arthur Andersen & Company in Chicago, and later held executive positions with Commonwealth Edison Company, United Airlines, and was

president and director of Roddis Plywood Corporation, Marshfield, Wis.

He was elected president and a director of Public Service Indiana in 1960, president and chief executive officer in 1962, and was elevated to his present position as chairman and chief executive officer in 1968.

In education he has served as a member of the board of governors of the Associated Colleges of Indiana, as a member of the board of managers of Rose-Hulman Institute of Technology and the chancellor's advisory board of Indiana University-Purdue University at Indianapolis.

Tech Assessment: A New Direction

Under the leadership of Dr. Alan T. Roper, professor and chairman of the division of civil and mechanical engineering, Rose-Hulman has been developing a program in technology assessment the last two years.

Briefly stated, technology assessment is a systematic study of the effects or impacts on society of a present or proposed application of technology. In its fullest form, it is intended to anticipate, forecast and evaluate the impacts of technological innovation on all sectors of society.

The need for technology assessment has been underscored in recent years through the adoption of the National Environmental Policy Act of 1969 and the establishment of the Congressional Office of Technology Assessment.

Initially Rose-Hulman's venture into this unique design for bringing various diverse groups into the decision-making process was accomplished with students in the classroom.

The technology assessments carried out by students had considerable merit, but pointed up the need for greater input from disciplines such as economics, sociology, and the humanities, etc.

Since Rose-Hulman cannot fill the bill with undergraduate business majors, economists, and philosophy majors, etc., the idea of bringing students from



Dr. Alan T. Roper

other colleges to the campus to study in what the committee called the Center for Technology Assessment and policy Studies came out of the deliberations which followed the evaluation of the initial technology assessments.

Lilly Endowment, Inc., of Indianapolis

liked the innovative program and the idea of cooperation between the colleges and their strengths and last fall underwrote a \$25,000 preliminary study.

Thus, the Center for Technology Assessment and Policy Studies came into being and the faculty involved developed a pilot program in technology assessment which would deal with urban mass transportation in moderate size cities of the midwest.

Entitled "Urban Mass Transit in Cities of Moderate Size," the assessment called upon decision makers from 19 cities of the midwest--mayors, transit operators, vehicle manufacturers, coordinating council members, urban planners and daily users of mass transit--to engage in the business of technology assessment.

Cities invited to participate were Evansville, Fort Wayne, Gary, Hammond, Muncie, South Bend and Terre Haute in Indiana; Decatur, East St. Louis, Evanston, Joliet, Peoria, Rockford and Springfield in Illinois; Dayton, Springfield and Hamilton in Ohio; Kalamazoo, Mich., and Lexington, Ky.

With the guidance of faculty, students obtained information from the 19 cities and helped formulate three general questions to be undertaken in the day-long meeting on campus April 9.

The identity of the participants--at least what line of work they engaged--



Professors William Picket and Thad Smith moderate technology assessment workshop sessions.



WHO'S WHO--Nineteen students at Rose-Hulman were named for inclusion in the 1973-74 edition of "Who's Who Among Students in American Colleges and Universities." Photographed during a luncheon in their honor were (seated from left) James K. Gilman, Hymera; Scott Rice, Columbia City; President John Logan, Ronald Andrews, Terre Haute; Jay Ludlow and Michael Goler, both of Indianapolis. Standing (from left) Ralph Ross, vice president and dean of student affairs; James Tribble, Brazil; Gary Moon, Granger; David Rardon, Indianapolis; Jack Farr, Martinsville; Michael Kilpatrick, East Chicago; James Hammon, West Milton, Ohio; Charles Ransdell, Franklin, Ill., and Dr. Herman Moench, senior vice president. Not pictured were Douglas Winner, Pittsburgh, Pa.; William Olah, Terre Haute; William Weir, Indianapolis; Wayne McGlone, Sullivan; Larry Conrad, Ft. Wayne; Richard Haut, Mr. Prospect, Ill., and Clayton Black, Eaton, Ohio.

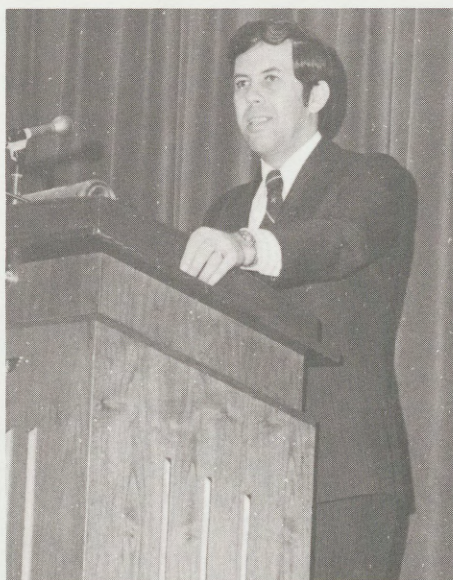
was not to be revealed during the period which suggestions were made and discussed. This, according to the committee, was to assure open discussion and was intended to promote an equal voice in the proceedings.

Although Dr. Roper and his colleagues readily admit that the problems of urban mass transit were not solved during the meeting, it was evident that much light was shed on the subject. Those involved in technology assessment learned some "dos and don'ts" about conducting such a study and reinforced some strong points of the program.

One of the strongest points was the interchange of ideas, each group having come up with approximately 50 viable ideas, many of which got overwhelming support from the group as a whole. As one participant, a specialist in group decision-making, said: "I liked the way your man ran the meeting. Everyone had a shot . . . his suggestions were heard and appreciated."

The Center for Technology Assessment and Policy Studies (CTAPS) appears to be expanding its role on the

Rose-Hulman campus. In May Rose-Hulman, St. Mary-of-the-Woods College and Indiana State University received a



Indianapolis Mayor Richard Lugar is shown as he keynoted Rose-Hulman's technology assessment workshop on mass transit for cities of moderate size. His topic was "Dynamics of Cities."

\$90,000 grant from Lilly Endowment, Inc., to study inter-institutional cooperation between six colleges in the area including the aforementioned three, Indiana Vocational Technical College, Wabash College and DePauw University. CTAPS methodology is being employed in the initial studies.

Dr. Roper feels Rose-Hulman has made some progress in technology assessment at the undergraduate level and along with others on the campus views T.A. as one of the most exciting new directions in engineering education to be developed in many years.

Members of the faculty who have taken an active role include Prof. Irvin P. Hooper, who has teamed with Dr. Roper in teaching Rose's course offerings in technology assessment; Prof. Alfred R. Schmidt of mathematics; Dr. Calvin R. Dyer, professor and chairman of humanities, social and life sciences; Dr. Thomas W. Mason, assistant professor of economics; Dr. William B. Pickett, assistant professor of history; and Thad D. Smith, assistant professor of political science; and Dr. Catherine B. Hudson, assistant professor of sociology.



Checking out electric bike

Rose Show '74

. . . 100 years of Technology

In the fall of 1927, some five years after Rose Polytechnic Institute moved from the former campus at Thirteenth and Locust streets in Terre Haute to the present site, the faculty found the need for greater involvement with the community.

What resulted was the first Rose Show, a three-night all-school open house which was to be held every other year up to and including 1940 and draw thousands of visitors to the campus. Although it has been more than 30 years since the last Rose Show was staged, many Terre Haute Residents still recall the exhibits, projects and clever gags they first saw at Rose's open house.

It was in this spirit that students and faculty staged a revival of the Rose Show (April 26) as one of the featured events of the Centennial Celebration. The result was similar to earlier Rose Shows: success.

Perhaps the best thing Chairman Gary Moon ('74 C.E.) and his committee did was to secure a broad range of interesting displays, including extensive shows by the Wabash Valley Buggy Club and an antique auto club. All this nostalgia parked along the entrance to the campus helped draw many off U.S. 40 and into the Main Building where projects ranged from experiments in a psychology laboratory to drinking a cup of coffee "made from raw sewage."

Students came up with approximately 40 projects, the winning project being the mechanical engineering department's overview of the mechanical engineering field-thermal power, design, manufacturing, machinery and heat transfer, etc.

Several industries brought displays and presentations to the Rose Show, including those of Western Electric, Eli Lilly, Cummins Engine Company, Boeing, Pratt and Whitney and Bell Laboratories. Terre Haute-based firms who participated were Stran Steel Company, Columbia Records, Commercial Solvents, Hercules, Pillsbury, J. I. Case, Pfizer, Weston Paper, Wabash Fibre Box, Ethyl Visqueen and Bemis Company.

And when the day was over those such as Dr. Herman Moench and others who had participated in or viewed earlier Rose Shows agreed that the '74 Rose Show was a fitting program for the centennial year.



Coffee from sewage

Transportation of Chauncey Rose's Day





Psychology and engineering



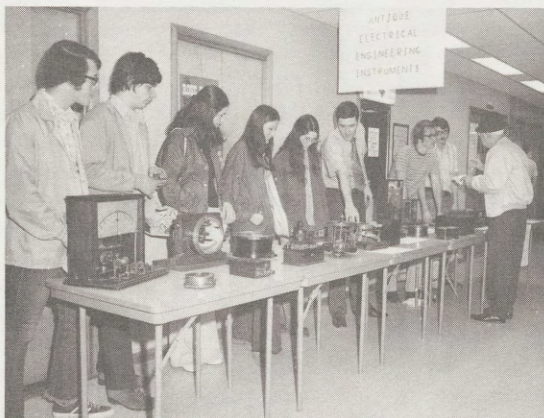
Weigh station



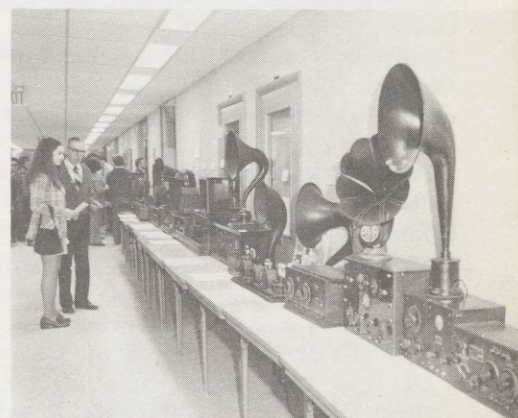
Cal Can what?



Platform bustin'

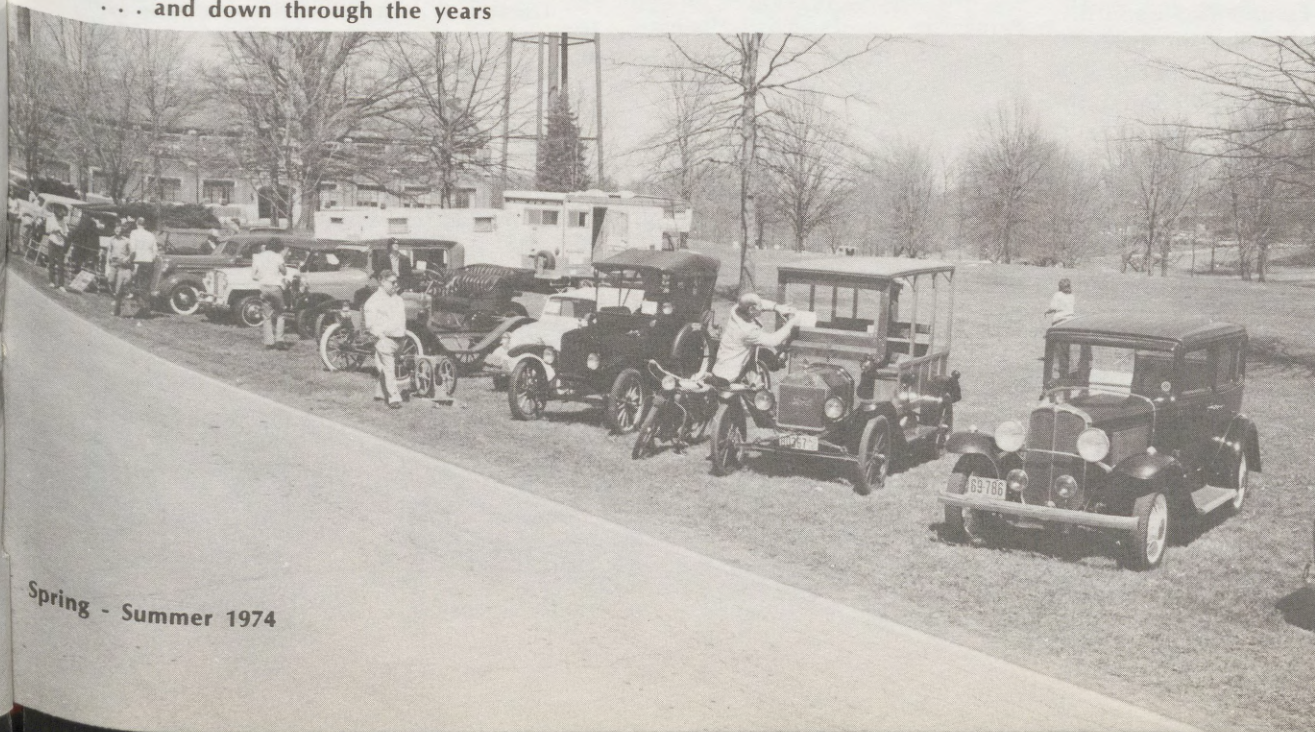


From Prof. Moench's closet?



Antiques from radio's hey day

... and down through the years



Spring - Summer 1974

Engineers to Compete In Prestigious CAC

Unlike Notre Dame and Marquette which spend a bundle on intercollegiate athletics, Rose-Hulman has not found its role as an athletic independent very satisfying.

The problem is simple: there are only a handful of colleges in the country with the scholastic standing and philosophy on athletics of Rose-Hulman.

But Rose-Hulman and four other fine schools have come up with an answer--the College Athletic Conference.

As of March, Rose-Hulman and Principia joined founding members Centre College of Kentucky, the University of the South at Sewanee, Tennessee, and Southwestern of Memphis in the prestigious CAC, a conference based on "playing for fun and not for pay."

There are no double standards, athletic scholarships and other handouts, and the "playing for fun" aspect of the conference is not lip service, but a cardinal principle spelled out explicitly in Article II, Section 2 of the Articles of Organization of the CAC.

"It is a cardinal principle of the College Athletic Conference that participation in sports by members of its teams shall be solely because of interest in and enjoyment of the game. No financial aid shall be given to any student which is conditioned upon his participation in intercollegiate sports."

The conference rules specifically prohibit making special admission requirements, giving financial aid dependent on athletic performance or involving athletic directors or coaches in determining aid. Governance is by a board of directors comprised of the presidents of the member institutions.

One of the biggest boosters of the new conference alignment is President John A. Logan.

"We're delighted to be associated with this group of prestigious institutions, all of whom have high academic standards and all of whom subscribe to the same athletic philosophy as Rose-Hulman," says Dr. Logan.

"We feel the philosophy created by the College Athletic Conference will be adopted by other schools and will encourage a return to sanity in athletics with a de-emphasis of many of the abuses which have crept into recruiting and overt professionalism.

"The move in this direction by other schools hopefully will result in a 'conference of conferences' with schools throughout the nation practicing this approach. Rose-Hulman will naturally turn to these schools when planning special athletic events during Christmas and Spring vacation breaks."

Since Rose-Hulman has played each of the schools in many of the varsity sports for some time, Athletic Director John Mutchner notes that the Engineers will participate on a full conference basis in all sports but football during the 1974-75 season. It may be possible for Principia and Rose-Hulman to participate in the conference football race by use of a "wild card" arrangement.

"We consider this a definite upgrading in our program from all aspects and feel that it is in the best interest of not only Rose athletics but for the school as well," notes Mutchner.

"Part of the requirement for membership is that all member schools be affiliated with the NCAA and, therefore, we are dropping our membership in the NAIA at the end of this school year. We will become a member in Division Three of NCAA effective in September," Mutchner continued.

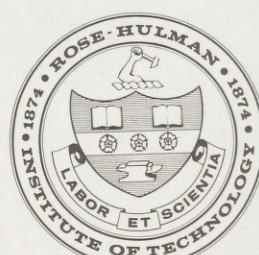
"While the travel in some cases will be extensive, I feel the association within such a prestigious group will more than offset costs and travel time.

"Based on information we have from previous association with the schools and what we have been told, I feel that every school could conceivably be a contender in every sport the first year. In other words, there appears to be excellent balance in all aspects of the association--academically, athletically, philosophically and financially. This is the basis upon which this conference is formed," Mutchner concluded.

Conference sports will initially include football, basketball, baseball, tennis, golf, cross country and track and field. All sports contribute equally in determining the annual conference championship, the "Big Bell" trophy.

Founded in 1962, the CAC formerly included Washington and Lee, Lexington, Va., and Washington University of St. Louis, Mo. Washington and Lee withdrew in 1973 due to traveling distance to other conference schools, while Washington of St. Louis withdrew after dropping basketball from its program.

Rose-Hulman formerly was a member of the old Hoosier Conference (1949-53) and the Prairie College Conference (1954-69).



Rollin'

Track Team Extends Wins To 25 Meets

Just like the song about Ol' Man River . . . that just keeps on rolling. . . a song could be written about the Rose-Hulman track and field team . . . that just keeps on winning. . .

Since the 1972 season the Rose-Hulman thinclads coached by Bob Bergman have compiled a record 25 consecutive dual and triangular meet victories.

In 1972, the Engineers finished the season by winning their last seven meets compiling a 10-2 record. Last year Coach Bergman's squad had a perfect 11-0 mark and this year the Engineer team ended the season with a perfect 7-0 record.

The Engineer trackmen also captured the Earlham Relays for the fourth consecutive year.

One new record was established this year as junior Mike Burhardt of Cicero broke his own mark in the 300-yard dash with a clocking of 33.2 seconds.

Victims of the Engineer harriers this year included DePauw, Wabash, Millikin University, Franklin, Hanover, Anderson (twice), Cedarville, Earlham, Bluffton and Marion.

Special awards were presented to freshman Harold Baumgartner of Clay City, who received trophy as the team's most valuable field events man and was also the winner of the trophy given to the member of the track and field team who compiles the most points.

This year's most valuable runner award went to freshmen Steve Shroka of Cedar Lake. The first-year athlete was a member of the 440 and mile relay teams and was a consistent point-getter in the 100-yard dash.

Seniors, who have been a part of every victory during the current win streak, include Doug Winner of Pittsburgh, Pa., in the javelin competition; Jim Lynn of Bicknell, the squad's top 440-dash performer and also a top competitor in the triple jump and sprinter Tom Hunt, of Terre Haute, who holds at two individual school track records.

Spring - Summer 1974



ATHLETES HONORED -- Rose-Hulman athletes receiving special awards during the annual Spring Sports Banquet included (seated left to right) Harold Baumgartner, most valuable field events man and recipient of the award for the most points accumulated during the track season; Mike Griggs, baseball team batting champion; Jim Gidcumb, co-winner of the tennis MVP award; Tom Hunt, blanket award winner; Bill Ransbottom, MVP in basketball; and Stan Ault, MVP on the rifle team. Standing (left to right) Lee Hevner, co-winner of the tennis MVP award; Steve Shroka, most valuable runner award; and Denny Townsend, free throw accuracy award.

Tom Hunt Blanket Winner

Team Depth Pays Off for RHIT

Through the years Rose-Hulman has had some fine athletes--the Paul Turks, Art Nehfs, Ed McGovern, Carl Herakovichs, to mention a few. But most years there has been something lacking--a thing called team depth.

This was not the case in the Centennial Year when Engineer teams batted better than .500 overall and enjoyed tremendous seasons in track and field and golf. Spring sports, for example, finished with an impressive 24-15-1 cumulative mark.

Tom Hunt, a senior from Terre Haute was awarded the Blanket Award, the highest athletic honor bestowed by Rose-Hulman.

A four-year regular on the Rose-Hulman football and track team, Hunt owns the school record in the 50-yard dash (5.5), is co-holder of the record for the 100-yard dash (10.0) and was a

member of the record setting 440-yard relay and spring medley teams.

Hunt has been a starter since his freshmen year as a defensive halfback for the Engineer football team and was a member of the defensive secondary that set a school record last year by intercepting 21 passes. He was also named co-captain of the Rose-Hulman track team in 1972 and 1974.

Bill Olah, a senior from Terre Haute, was voted the Most Valuable Player on the Rose-Hulman's 9-2 golf team. Olah was repeatedly the low medalist for the Engineers and played as the number one man on the squad the entire season.

The Engineer tennis team recorded its second straight winning season as Coach Joe Touchton's squad posted a 5-4 record and a fourth place finish in the Little State Tournament.

(Continued on page 23)

News From Alumni

Profession's Top Honor:

Academy of Engineering Taps Barnes and Matsuda

Two Rose alumni and a recently-appointed member of the Board of Managers of the institute were elected to the National Academy of Engineering this spring.

Chosen for the highest honor which can be bestowed on an American engineer were **Howard C. Barnes** ('34 E.E.), vice president of engineering for the American Electric Power Service Corporation, and **Dr. Fugio Matsuda** (Jan. '49 C.E.), vice president for business affairs at the University of Hawaii.

Dr. Vladimir Haensel, vice president-science and technology for Universal Oil Products Company who was elected to the Board of Managers in February, also was named to the Academy of Engineering (see related story on board appointments).

Barnes, who was recognized for "leadership in projecting power

transmission to 765 kV and researching the 100-1500 kV range," has been with AEP since 1939. His contributions can be counted in both the practical and theoretical areas of research and engineering.

His most recent research has been in a joint project with Sweden which explores the upper limits of transmission voltages including levels in excess of two million volts.

He has been active in the Edison Electric Institute, serving as chairman of the steering committee of its Research Project for the Application of Superconductors in Large Synchronous Machines and as a member of the steering committee of Project UHV and of the Committee on Advanced Developments for which he chaired the Advanced Cycles Task Force.

Barnes is widely known for his work in CIGRE (International Conference of Large Electrical Systems of High

Tension) and currently is international chairman of a CIGRE committee studying transmission systems of the future.

Barnes, who joined AEP with an Ohio subsidiary, was transferred to the New York headquarters in 1944. He became head of the division in 1961 and deputy chief engineer in 1966.

Dr. Matsuda, a frontrunner for the presidency of the University of Hawaii, was recognized for "leadership in the development and operation of a statewide transportation system."

Following his graduation from Rose, he earned a Doctor of Science degree in civil engineering at Massachusetts Institute of Technology. Since that time he has distinguished himself in engineering education and public service.

He served on the faculty of the University of Hawaii from 1955 to 1963, rising to chairman of civil engineering and head of the university's Engineering Experiment Station.

He became Director of the Department of Transportation for the State of Hawaii in 1963 with responsibility for planning, construction and operation of the land, sea and air transportation facilities of the State of Hawaii. Included in its jurisdiction are 13 state airports, 19 harbors (both commercial and recreational) and the state's major highway systems.

Dr. Matsuda held this post until December, 1973 when he assumed the vice presidency at the University of Hawaii.

Dr. Haensel, whose career is capsuled elsewhere in this magazine, was named to the academy for "contributions to the development and processes of oil refining, including Platforming used to produce high octane gasoline without lead."

Others of the Rose-Hulman family previously named to the National Academy of Engineering are **Dr. John A. Logan**, president of the institute, and **Dr. Abe Silverstein**, formerly head of the Lewis-NASA Research Center in Cleveland.

Organized in 1964, the academy now numbers slightly over 500 outstanding engineers of the United States.



Howard C. Barnes



Fugio Matsuda

'39

Robert S. Kahn (Ch.E.), president of Keystone Metal Company of Pittsburgh, Pa., has been elected president of the National Association of Recycling Industries, Inc., an association founded in 1913 which represents the entire recycling industry in the fields of metalics, paper stock and textiles. A strong proponent of the value of the profit motive in achieving the country's aims in recycling, Kahn takes office in a year recycling is receiving new found impetus. Kahn, who has been in the non-ferrous metals business since he started with a Chicago brass ingot company in 1939, is the largest shareholder in a company that is involved in scrap processing, scrap consuming and metal trading. Formerly with Luria Brothers & Company, he and others acquired Keystone Metal Company and its Cleveland Electro Metals subsidiary about five years ago. It since has established metals trading offices in New York and San Francisco. Active in alumni affairs of the Institute, he is president-elect of the RoseTech Alumni Association.

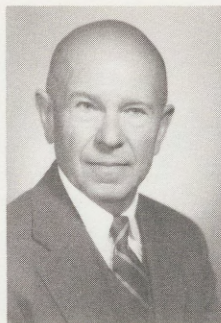
'46

Malcolm R. Meurer (C.E.), a partner in Meurer, Serafini and Meurer, Inc., consulting engineers of Denver, Colo., became the 19th president of American Consulting Engineers Council at the annual convention of the organization in May. Malcolm, his brother, Charles ('42, C.E.) and Max Serafini are principal officers of the 20-year-old Denver firm which ranks among the largest in the Rocky Mountain area and specializes in structural work, highways, and municipal projects, particularly in water resources, sewage works, and field services. Long active in the American Consulting Engineers Council, he served as chairman of budget and finance in 1965-66 in what was then the Consulting Engineers Council and from 1969-1971 as its secretary-treasurer. In addition to ACEC, he is a member of the National Society of Professional Engineers, Rocky Mountain Association of Sewage Works, American Society of Professional Engineers, the American Water Works Association, and the Colorado Society of Engineers.

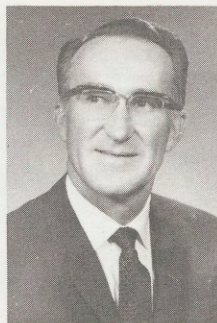
'48

William K. Sharpe, who for several years has been associated with Sperry Rand Corporation, reports a transfer from the Washington office to St. Paul, Minn., where he is manager of International Program Development. He formerly was a design engineer for the Univac Division of Sperry Rand. His new address is 929 Fairmount Ave., St. Paul, Minn. 55105.

Spring - Summer 1974



R. S. Kahn



M. R. Meurer

'49

George O. Gray, (M.E.) has moved to Omaha, Neb., and a position as engineering manager for the Tip Top Division of Faberge, Inc. He formerly was engineering manager for Lehn Fink Products of Decatur, Ill. His new address is 13214 Montclair Drive, Omaha, Neb. 68144.

'53

David H. Badger (E.E.), who has combined the professions of engineering and law at Ransburg Corporation, recently was elected secretary of the Indianapolis corporation which specializes in electrostatic coating processes. He has been associated with the company since the mid 1950s, having moved into corporate responsibilities of patent law shortly after earning his Doctor of Jurisprudence from Indiana University in 1964. Prior to his promotion to secretary, he served as assistant secretary of the corporation. His address is 5883 N. Crestview Ave., Indianapolis, Ind. 46220.

'55

Lt. Col. Samuel J. Kowal (M.E.), dropped by the campus recently in the company of brother-in-law **Bob Steinhauer** ('54 M.E.). Sam, who will retire from the Army in August, says he plans to locate "somewhere in the south where there are two seasons--warm and cool." His career in the Army has been in aircraft maintenance. The Kowals reside at 11700 Old Columbia Pike, Silver Spring, Md. 20904.

John Coddington '53 'Businessman of Year'



John L. Coddington, a 1953 alumnus in electrical engineering, has been named Indiana Small Businessman of the Year by the Small Business Administration.

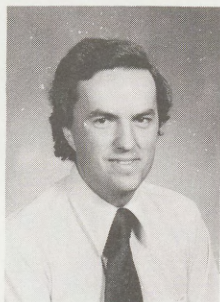
John, president and founder of Eagle Magnetic Co., Inc., of Indianapolis, was recognized for "outstanding success in operating an independent business in the American tradition of free enterprise."

Eagle Magnetic manufactures electromagnetic shields used to improve the performance of electronic equipment. Under his direction the firm's sales volume has increased in four years from zero to \$750,000 annually, with a backlog of over \$650,000.

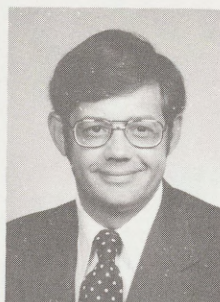
He did graduate work in electronics at Drexel Institute of Technology and the University of Cincinnati. Following service as an officer in the U. S. Army, he worked with RCA, Avco and Texas Instruments. Five patents have been granted to him in electronic display and data processing.

'58

Richard D. Wegrich (M.E.), has received yet another honor for his work on Skylab--this time the National Aeronautics and Space Administration's Exceptional Service Medal. Wegrich earlier was awarded the "Director's Commendation" for his work at the NASA-Marshall Space Flight Center in Huntsville, Ala. Wegrich, an aerospace engineer, has been part of the team there for more than 10 years.



C. E. Towne



W. R. Holland

'59

John R. Davis (M.E.), chief engineer for Roll Forming Corporation at Shelbyville, Ky., recently was elected president of the Chamber of Commerce of Shelbyville. He formerly was president of the Rotary Club of Shelbyville. John and his wife Sue have what they describe as "three lively children." Pen them a note at R. R. 1, Shelbyville, Ky. 40065.

'65

Howard G. Alm (E.E.), has been named manager of the Fairbury division of CTS Knights, Inc., a newly formed manufacturing subsidiary for quartz crystal blanks located at Fairbury, Ill. Since joining CTS Corporation, Howard has had both engineering and management assignments in three different technologies: carbon film resistors, thick film resistors and quartz crystals. Howard, his wife Sharon and children, Anissa and Mike now reside at 542 South Fifth St., Fairbury, Ill. 61739.

Willard R. Holland (E. E.), has been named manager of the Oakland Division of Customer and Marketing Services for Detroit Edison. Holland, formerly manager of the Macomb Division, has been with Detroit Edison since graduation. He has served as a power service engineer, assistant manager of Tuscola and Detroit-Wayne marketing districts. He is a past president of the Dearborn Hills Civic Association, a member of the Mount Clemens Rotary Club, and a member of the board of directors of the Mount Clemens Chamber of Commerce.

'66

Bill J. Sims (E.E.), has moved back to the Midwest and assumed a new position as District Manager for Electronic Associates, Inc., Des Plaines, Ill. Bill, who previously had been in the Philadelphia area since graduation, spent three years with General Electric Company and the remainder with Electronic Associates, a firm which deals in computing systems design. Bill's new business address is 2500 Dempster Street, Des Plaines, Ill. 60016. His home address is P.O. Box 136, Bethany, Ill. 61914.

Jeffrey A. Barton (E.E.), a senior engineer with the Magnavox Company in Fort Wayne, recently completed an M.S. in business administration at Indiana University. He also was honored by his election to Beta Gamma Sigma, national business honorary. Prior to his promotion to senior engineer, he was a design engineer in the Warfare Department of Magnavox. His address is 2708 Stardale Dr., Apt. 1, Fort Wayne, Ind. 46816.

'67

Jay Curtis (Ch. E.) has moved to Lakeland, Fla., where he is a manufacturers, representative for A.B. Curls & Associates. The firm sells pumps, mixers, blowers and wastewater treatment equipment. Jay, who formerly was a process engineer for Diamond Shamrock Corporation in Montor, Ohio, made the move in October, and reports he, his wife and daughter enjoy living in Florida. Their new address is 6224 Pine Lane, Lakeland, Fla. 33803.

Charles R. Boswell (Math), left Exchange Data Processing Services, Inc., in March to accept a position in the Data Services Department of the City of Dallas, Tex. Charles' address is 3534 1/2 Rosedale, University Park, Tex. 75205.

'70

Michael A. Moroz (E.E.) reports his marriage June 8 to Deborah Bowen of Saybrook, Ill. Mike and Deborah met while working at The Eureka Company where Mike is a project engineer on the rotary engine. Deborah is a 1970 graduate of Patricia Stevens Career College in St. Louis, Mo. The couple resides at 901 Reinthalter 5, Bloomington, Ill. 61701.

Lt. j.g. John W. Phipps (Ch.E.) and his wife, Jan, recently dropped by the campus while on leave. John is a communications officer assigned to the U. S. S. Seahorse out of Charleston, S.C. John and Jan are expecting their first child in November. His tour of duty with the Navy ends in April, after which they plan to relocate in the midwest. Until then, their address is 322 Heber Rd., Summerville, S.C. 29483.

Charles E. Towne (Math), an aerospace engineer in the Aerodynamics Analysis Section, Propulsion Aerodynamics Branch, Wind Tunnel & Flight Division of NASA's Lewis Research Center in Cleveland, recently completed a master's degree in mechanical engineering through a program sponsored by Lewis Center and Toledo University's on-site program. Charles is involved with the analysis of fluid flow in jet engine inlets and diffusers. He resides at 7845 Normandie Blvd., Apt E55, Cleveland, Ohio 44130.

'71

Dimitri J. Cordero (Aero) dropped by campus commencement day to give his new bride a glimpse of "Dear Old Rose." D. J. and the former Trudy Rieker of Dayton were married April 6 in Dayton. The towering ex-Engine cager, who is working as a project engineer in the aircraft secondary power unit at Wright Patterson in Dayton, reports his basketball career is now limited to "pick up games for fun." The Corderos reside at 4340 Cl Riverside Dr., Dayton, Ohio 45405.

Glover "Bud" Ellis (C.E.) has been promoted to planning and development engineer for Amax Coal Company and transferred from the Princeton area to division headquarters in Indianapolis. Bud has been with Amax since graduation (in fact, he worked for Amax on a part time basis while in Rose) and has held a variety of engineering assignments in the Princeton area. The Ellises now reside at 629 Red Bud Lane, Greenwood, Ind.

Edward F. Krome, Jr. (M.E.), has accepted a position with the Master-Reeves Division of Reliance Electric Corporation in Columbus, Ind. He reports he is doing development and design work in the Advanced Product Development Department. His response: "fascinating!" Ed formerly worked for three years at United States Steel Corporation and was headquartered at South Works in Chicago. His new address is 3141 Wedgewood Court, Columbus, Ind. 47201.

Stephen A. Randolph (M.E.) has accepted a new position as a mechanical design engineer for Monsanto-Enviro-Chem in Chicago. The division's primary function is the design and construction of acid plants (phosphoric and sulfuric) and in SO₂ removal systems design. Steve formerly was with the Bureau of Engineering for the City of Chicago. He also reports the purchase of a home in the western suburbs--206 South Leitch Avenue, LaGrange, Ill. 60525.

**Centennial
Tournament**

December 6-7

Echoes

'72

William M. Strahle (Bio. E.), currently completing an M. S. in sociology at Indiana State University, has been awarded a graduate fellowship that will allow him to study in Australia during the 1974-75 academic year. The award, presented by the Rotary Foundation of Rotary International, will be used by Strahle to study anthropology at Montash University in Clayton, Australia. The fellowship covers costs of round-trip transportation, tuition, meals, lodging, intensive language training and educational travel during the year abroad.

John R. McCutchen (M.E.), has been promoted to assistant operations managers for Peabody Testing, a division of Commercial Testing and Engineering Company with responsibility for laboratories and major projects. John resides at 1200 Young Street, Henderson, Ky. 42420.

'73

Gary C. Elfring (Bio.E.), reports the establishment of a private consulting engineering service for agricultural engineering called Bioresearch, Ltd. Says Gary: "Our small group has been working with several large scale commercial farms here in the Raleigh area, particularly in the areas of swine and poultry waste management." Gary's current address is 1803-F South Dixie Trail, Raleigh, N.C. 27606.

John G. Metz (M.E.), pens a note describing "the good life" in and around Shirley, Mass. Says John "I am currently working as a sales engineer for General Electric in the field of marine and defense facility sales operations (MOFSO) Primary responsibility is the sale of turbine propulsion units to the shipyards on the East Coast for utilization in commercial merchant marine and U.S. Navy vessels. I am presently assigned to the G. E. Marine Sales Group in Fitchburg, Mass, about 50 miles west of Boston. I'm residing in Shirley, Mass., a thriving metropolis of 500 people out in the country."

(Continued from page 19)

A sophomore and a senior tied for MVP honors on the tennis team. Jim Gidcumb, Avon, and Lee Hevner, LaFontaine, were both chosen as the top players. Both lettermen alternated as the number one man on the tennis squad.

A lack of experience and hitting plagued the Engineer baseball team as the squad posted a 3-9-1 record.

Mike Griggs of Mendon, Ohio, won the award for the highest batting average as the freshman ended the season with a .380 average.

Spring - Summer, 1974

In Memoriam

C. C. Sharpenberg '07 Dies; Pioneered in California Oil

Charles C. Scharpenberg, prominent alumnus of the Class of 1907 for whom Scharpenberg Hall on the Rose-Hulman campus is named, died March 5 in Bakersfield, California.

He joined the petroleum industry upon graduation as a civil engineer. While working for Ohio Oil Company, now Marathon Oil Company, he did graduate work and earned an M.S. in 1909.

Moving to California in 1911, he became a leader in the petroleum field while working as an engineer for Standard Oil Company. From 1929 until his retirement from Standard Oil in 1938 he served as chief engineer for Standard's producing department with offices in San Francisco.

He since had remained active in various business interests, including ranching near Bakersfield, a partner in McKittrick Mud Co., vice president of Omac Land Co., and director of Mt. Diablo Co., an independent oil firm in Los Angeles.



C. C. Scharpenberg

Mr. Scharpenberg was a life member of the Petroleum Production Pioneers, the American Society of Civil Engineers and the American Society of Mechanical Engineers. His work in the American Petroleum Institute's standardization program earned him the API's "Citation of Merit."

Word was received in June of the death of his wife, Lola.

'21

Jesse E. Downen (E.E.) died Jan. 14 in Florida. Prior to his retirement he was assistant vice president of Peoples Gas & Light Company of Chicago.

'26

Word has been received of the death of **Miner L. Mitchell** (Arch), formerly a structural engineer in Ohio. Ralph Tapy received a letter from Mr. Mitchell's daughter in Japan in April reporting the death in the Summer of 1973.

The MVP award in baseball went to senior Curt Vapor of Plainfield.

For the third straight year Stan Ault of Bluffton has won the most valuable player award in rifle.

The squad compiled a brilliant 8-1 record under the direction of Capt. Alan Elfner.

'27

John E. Unison, a member of the class of 1927 who rose to the executive ranks at Chrysler Corporation, died March 19 in Grand Rapids, Mich.

'28

Harold H. Carson (C.E.), a noted collector of Americana and curator of the historical museum at Indiana State University, died June 30 in Terre Haute.

Russell Northam (Oct. M.E.) construction superintendent of U. S. Sweet Company, Inc., died Sept. 24, 1973.

'51

Harry W. Pruitt (M.E.) died June 14 in Indianapolis. He had been a resident of Speedway 20 years and was a sales engineer for the Detroit Diesel Allison Division of General Motors Corporation.

Rose Tech Clubs

"I've never seen so much activity among RoseTech Clubs," said Alumni Secretary Anna Mary Turner. "Groups which have not met for two or three years are scheduling meetings."

To be sure, the centennial celebration is catching on from New York to Hawaii and from Detroit to Houston--a goal which centennial planners hoped to achieve during this special year.

Highlights of some of the meetings by dateline follow:

HOUSTON (March 2) -- The Houston Club, headed by Brent Robertson, hosted what Brent calls "a reception for the RoseTech 'International' golf team (Jesse Lucas, pro)."

The club helped arrange a spring golf trip for the varsity team which included matches with Rice and the University of Houston and provided the opportunity for the Engineers to play on the area's finest golf courses.

After the reception, the group went for dinner and then to Jack and Dottie Foltz' home for coffee and conversation.

DETROIT (March 29) -- Detroit had a well attended meeting at the Kingsley Inn. Secretary-treasurer Tom Terry '64 reports it this way:

"A paper airplane contest was held with winners in three divisions: a) longest distance; b) longest duration; and c) unique design. Wives were pilots' for alumni-designed craft. Some

alums were noted to be 'flying' without the paper planes.

A short business meeting conducted by new president Bruce Kopf stressed our participation in getting new recruits for 'Dear Old Rose.' Capping the evening was a vocal rendition of 'Mary Burns' by 'Toad Heinz '47."

PHOENIX (April 1) -- The Arizona RoseTech Club met and was brought up to date on Rose-Hulman by Dr. and Mrs. John A. Logan. The president's "state of the institute" meeting was attended by 26 members of the Rose family in the Phoenix area. Secretary A. V. McEown '35 pointed out that the club had 26 answers to the mailing, with 13 alumni in attendance.

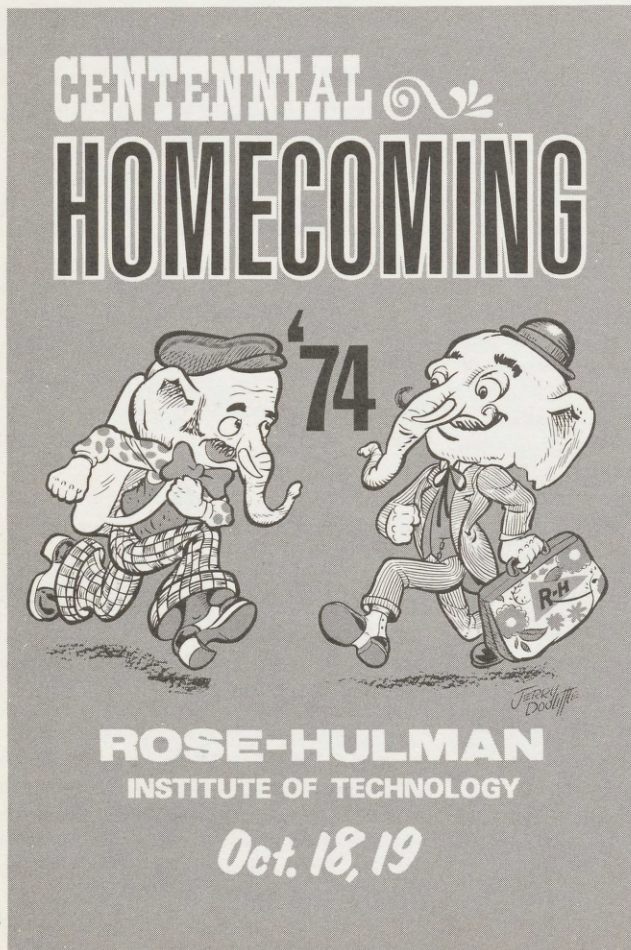
SOUTHERN CALIFORNIA (March 30) -- Sixteen alumni attended the spring meeting of the Southern California RoseTech Club--a meeting highlighted by a talk by President John Logan. The Institute's first lady, Norma Logan, added the woman's perspective to centennial activities.

DENVER (April 17) -- The Rocky Mountain Club met April 17 in Denver, with Dr. Logan in charge of the program. William H. Payne '58 was elected president, while Donald Duck '59 was chosen vice president.

LOUISVILLE (April 10) -- Dr. Herman Moench '29, senior vice president, talked on Rose at the Louisville meeting held at the Old House Restaurant. Business of the meeting of 16 alumni included the appointment of a nominating committee of Fred Wright '62 and John Welsh '35 to conduct an election by mail ballot.

INDIANAPOLIS (May 14) -- Senior vice president Moench and Ronald G. Reeves '58, vice president of development and public affairs, presented the program at the spring meeting of the Indianapolis club. A total attendance of 63 alumni, wives and guests was on hand for the meeting which included a tour of the Indianapolis Museum of Art. Charles Huppert was elected president, while Victor Risch and Tom Wilhoite were named vice president and secretary-treasurer respectively.

Echoes



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

George R. McNeil '48, President
Richard C. Rapson '63, Vice President
John A. Kuhn '65, Secretary-Treasurer

LOUISVILLE

David L. Roberts '63, President
Robert E. Miller '66, Vice President
James L. Brown '65, Secretary-Treasurer

NORTHEASTERN OHIO

Ronald R. Meredith '57, President
Ronald L. Danilowicz '63, Vice President
Ned P. Hannum '62, Secretary-Treasurer

SOUTHWEST OHIO

Carl Wokasien '51, President
Francis H. Potts '56, 1st Vice President
Frank W. Dorfmeier Jan. 49, 2nd Vice President
Edwin M. Izumi '68, Secretary-Treasurer

DETROIT

Bruce M. Kopf '64, President
Max W. Lunsford '63, Vice President
C. Thomas Terry '64, Secretary
Thomas T. Bilia '65, Treasurer

CHICAGO

Richard A. Myhre '53, President
Peter B. Canalia '65, Vice President
James E. Tatoes '55, Secretary-Treasurer

CENTRAL ILLINOIS

Jerome Hahn '62, President
Gilbert L. Robinson '63, Secretary-Treasurer

NORTHERN INDIANA

Frederick J. Corban '54, President
Robert J. Schacht '72, Vice President
Edward M. Meagher April 49, Secretary-Treasurer

KOKOMO

Robert B. McKee '40, President
James H. Sherman '55, Vice President

INDIANAPOLIS

Charles B. Huppert '65, President
Victor L. Risch '63, Vice President
Thomas M. Whilhoite '66, Secretary-Treasurer

WABASH VALLEY

Larry W. Myers '61, President
Joel R. Waldbieser '60, Vice President
Dale F. Oexmann '62, Secretary-Treasurer

EVANSVILLE

Richard A. Mullins '40, Chairman

ST. LOUIS

Richard D. Thomas '52, President
Charles C. DeWeese '63, Vice President
John A. Jacobi '69, Secretary-Treasurer

IOWA

James W. Lane, Jr., '66, President
Robert W. Dunham '47, Vice President
Ray V. Frischkorn '65, Secretary

ROCKY MOUNTAIN

William H. Payne '58, President
Donald J. Duck '59, Vice President

HOUSTON

Jack L. Foltz '57, President
Brent E. Robertson '62, Secretary-Treasurer

NORTH TEXAS

W. T. Weinhardt '43, President
E. Moller, Jr. '43, Secretary-Treasurer

NORTHERN CALIFORNIA

Harry Larman '33, President
George O. Howson '32, Vice President
Alfred J. Mayle '65, Secretary-Treasurer

SOUTHERN CALIFORNIA

William R. Dedert '22, President
John Jardine '59, Vice President
Frank Fisher '60, Secretary-Treasurer

ARIZONA

Albert V. McEowen '35, Chairman

HONOLULU

Melvin A. Izumi '65, Chairman

ECHOES

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