

Summer 1976

## Volume XV - Issue 1 - Summer, 1976

Echoes Staff

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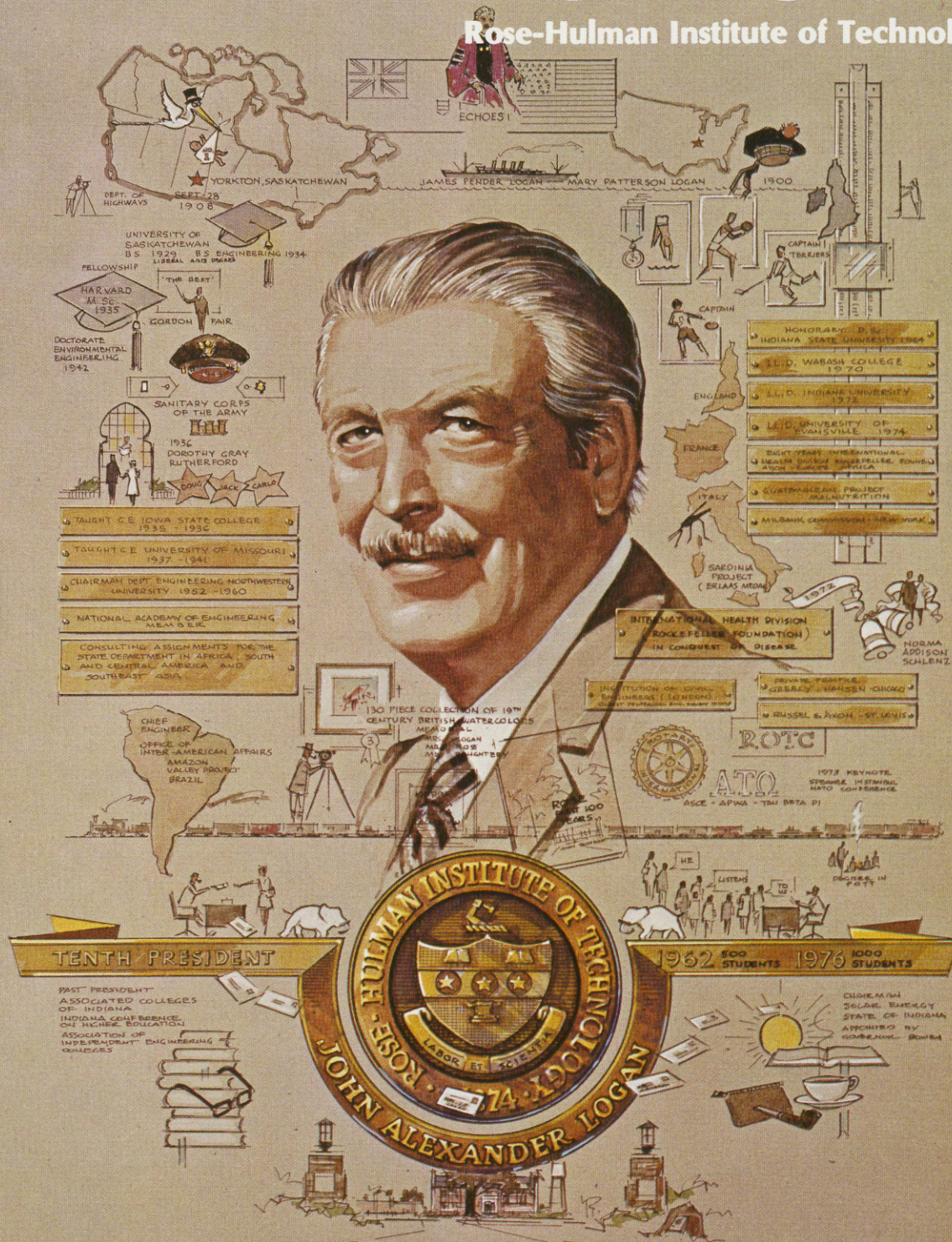
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# ECHOES

Rose-Hulman Institute of Technology





# ECHOES

ALUMNI MAGAZINE

Summer, 1976

Vol. XV, No. 1

## ROSETECH ALUMNI ASSOCIATION

### EXECUTIVE OFFICERS 1975-76

Frank G. Doenges '39, President

Richard A. Mullins '40, Vice Pres.

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

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Fund Raising	Brent E. Robertson '62
Student Recruitment	Charles B. Huppert '65
RoseTech Clubs	Jerry L. Hebb '55
Awards and Recognition	Anthony G. Blake '31
Continuing Education	Don L. Dekker '61
Senior Orientation	Thomas L. Reese '58

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### BOARD OF MANAGERS

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Vernon E. Whitehouse '40	1974 to Annual Meeting 1978

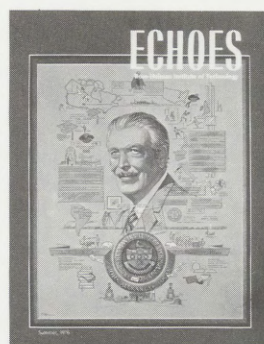
W. Kent Harris

Editor



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## The Cover

A handsome life's portrait presented to Dr. John A. Logan by the student body during their salute to the retiring Rose-Hulman president on Parents' Day serves as the cover for this issue of the *Echoes*. Painted by D. Omer "Salty" Seamon, the actual painting in watercolor is approximately twice the size of the cover.

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# ROSE-HULMAN INSTITUTE OF TECHNOLOGY

TERRE HAUTE, INDIANA 47803



OFFICE OF THE PRESIDENT

To Alumni, Parents and Friends of  
Rose-Hulman:

I want on behalf of Norma and myself to express our sincere thanks to all of you for your friendship and support during our tenure here at the Institute. Everywhere that we have traveled across the nation, we have been greeted warmly with the traditional enthusiasm for Rose. This has made it a pleasure, (with the support of the faculty, administration and the Board of Managers), to plan and work for what we have considered the best interests of our very fine college.

Norma and I will be leaving Rose-Hulman with a great deal of Nostalgia, but with much satisfaction in the friendships that we have made and the enjoyment of being associated with Rose-Hulman during a period of growth, both internally and physically.

We are planning to live in Terre Haute following our retirement; our address will be 63 Longridge Road, and we look forward to hearing from many of you in the years to come and to following the continued good fortune of Rose, its alumni and friends.

Thanking you again for the opportunity of working with you, we are

Sincerely,

A handwritten signature in dark ink, appearing to read "John and Norma Logan", with a long horizontal flourish extending to the right.

John and Norma Logan



# The Logan Years

..... a period of unprecedented  
growth and accomplishment and the  
accumulation of scores of quality  
points for the Institute

On the preceding page, Dr. John A. Logan, tenth president of Rose-Hulman Institute of Technology, expressed the Logans' sincere and heartfelt thanks to alumni, parents and friends for what he termed the "friendship and support" received during his tenure as president.

Dr. Logan's contributions to this institution and the local, state, national and international communities are ones which he can be justifiably proud. Under Dr. Logan's direction, Rose-Hulman has moved from some of its darker moments to truly its brightest hour. As Dr. Logan passes the mantle of responsibility to his successor, Dr. Samuel F. Hulbert, on September 1, 1976, he can do so with the satisfaction that most of his dreams for Rose-Hulman have been realized and that the Institute has a bright future.

The *Echoes*, speaking for the Rose-Hulman family, says "thank you and Godspeed, Dr. and Mrs. Logan."

But before we close, let us review the Logan years--the most exciting era in the history of the Institute:

**1962** -- Dr. Logan assumed the presidency of the then Rose Polytechnic Institute. The college had an enrollment of 490 students pursuing baccalaureate degrees in chemical civil, electrical and mechanical engineering, as well as chemistry, mathematics and physics. The typical freshman ranked at the 81st percentile of his high school class. There were 41 faculty, 20 percent of whom held the earned doctorate. Worth of the school's physical plant and endowment was estimated at \$5 million; the annual operating budget was slightly under \$1 million. Four social fraternities had chapters on campus. There were two honoraries and 12 student organizations. Rose fielded teams in four varsity sports -- football (which was suffering through the longest losing streak in the school's history), basketball, baseball and track and field.

**1963** -- The Board of Managers approved a recommendation by the faculty to increase the size of the student body to 1,000 men. The "Rose Philosophy," a study by a faculty commission concerning the future of the institute, was endorsed Feb. 8, 1963. Speed Hall dormitory was completed at a cost of \$550,000. Six architectural firms were invited to the campus to make proposals for the development of a campus plan. The firm of Perkins & Will of Chicago was contracted to develop the plan. An extensive remodeling of the Main Building was begun and a Lilly Endowment-sponsored "Studies in Higher Education" plan for Rose was undertaken by Dr. Ralph C. Hutchinson. At the suggestion of Dr. Logan, the first Summer Institute was initiated. Goal of the institute was to help students in the transition from high school to the rigors of Rose and aid in student retention at the freshman level. Only one out of three men who entered Rose as freshmen were graduated, with Rose having the highest attrition rate of any school in the Association of Independent Engineering Colleges.

**1964** -- A record freshman class of 250 men enrolled in September, 1964. The board authorized the firm of Perkins & Will to proceed with plans for a student union and three new 78-man dormitories for upperclassmen. The fund-raising firm of Marts & Lundy of New York City was engaged for a survey and report on the first phase of what was later to be known as the school's Centennial Development Program. Renovation of the Main Building continued, and a \$50,000 renovation of Shook Fieldhouse was authorized.





**Retiring president Dr. John Logan reflects on his tenure as chief executive of Rose-Hulman during a testimonial dinner held in his honor May 2. Mrs. Logan mirrors her admiration for Rose-Hulman's chief executive.**

**1965** -- Rose held what it called the Great Convocation April 30 and May 1 to "kick off" a capital funds campaign and announce the 10-year Centennial Development Program. Construction of the new union and three upperclass dormitories was begun. The college received "Center of Excellence" funding from the National Science Foundation and launched a major portion of the Main Building renovation. The Industrial Internship Program was adopted. Enrollment in the Fall of 1965 had grown to a record 795 students.

**1966** -- Hulman Memorial Union, named in honor of Grace and Anton Hulman, Sr., and the three dormitories named in honor of former president Carl Leo Mees, alumnus Charles C. Scharpenberg and Terre Haute businessman Benjamin Blumberg were completed for occupancy in 1966 at a cost of \$2.5 million. The Institute purchased six acres of land adjacent to the east boundary of the campus for the purpose of development as a fraternity housing area. At the suggestion of Dr. Logan, the Board approved the expansion of the fraternity system to six chapters on the campus. On Dec. 10, a Colony of the Triangle fraternity was established -- the first new fraternity on campus in 40 years. A second internal study undertaken during Dr. Logan's tenure was completed, with added emphasis being given to "a liberal education in science and engineering" which involves a core program and advanced courses in humanities and social sciences. Rose also established the nation's first undergraduate degree program in biological engineering. The college's first endowed chair was established, with Herman A. Moench designated as the

Josephus Collett Distinguished Professor of Engineering.

**1967** -- A committee was appointed to work on plans for the Learning Resources Center. Development of "fraternity row" began with installation of roads and utilities. The school acquired a 121-piece collection of 19th Century British Watercolors with the proceeds from a memorial fund in honor of Rose wives Mrs. John A. Logan, Mrs. Ralph M. Ross and Mrs. John H. Dougherty who were killed in an automobile accident while on school business in 1966. The college's unique "Operation Catapult" summer program for high school students was initiated.

**1968** -- Dr. Logan was among the first named to the National Academy of Engineering, the highest professional distinction that can be conferred on an American engineer. Renovation of the Main Building continued and the Board authorized the remodeling of the former Student Center for use as an administration building. Deming Hall dormitory was remodeled extensively and the institute acquired a neutron accelerator and related equipment. Enrollment reached 980 and the annual budget increased to \$2.7 million. Alpha Tau Omega fraternity completed its new house on campus. Presentation of the first Chauncey Rose Medal was made to Maynard C. Wheeler, chairman of the board of Commercial Solvents Corporation. The Collegiate Consortium of Western Indiana was founded.

**1969** -- Early in 1969, there were 575 men living on campus. A number of social rules were adopted, including visitation. The fraternity system grew to six chapters as Phi Gamma



Delta colonized; construction was begun on a house for Triangle Fraternity. The Templeton Administration Building was readied for occupancy. New degree programs in aerospace engineering and computer science were approved.

**1970** -- Crapo Hall classroom building was dedicated in honor of Frederick and Mildred Crapo and the laboratory annex to house soils and engine laboratories and the subsonic wind tunnel was completed. A number of changes were made in the administrative structure with the naming of a senior vice president and vice presidents over academic affairs, student affairs, business affairs and development and public affairs. A record 1045 undergraduates and 32 graduate students enrolled in the fall of 1970. The entering freshman ranked at the 91st percentile of his high school graduating class. Retiring vice president John L. Bloxsome was commissioned to write the school's centennial history for publication in 1974.

**1971** -- On Jan. 6, 1971 the Institute announced receipt of the entire assets of the Hulman Foundation and the change in the name of the school from Rose Polytechnic Institute to Rose-Hulman Institute of Technology. The gift -- estimated at \$13.5 million -- was the largest ever received by the Institute. The Hulman family had been a major contributor to the first phase of the Centennial Development program and the construction of the fieldhouse in the late 1940s. Herman and Anton Hulman, Sr., donated the former Hulman farm to Rose in 1917, allowing the college to move from its original 10-acre campus in central Terre Haute. A reorganization of the academic administration into five divisions was approved and a new program in humanities, social and life sciences was adopted. The new program allowed students to pursue area minors in economics, history, language and literature, German, Russian, political science, psychology and sociology.

**1972** -- Dr. Logan announced plans and a budget for the Centennial Celebration in 1974 and the Final Phase of the Centennial Development Program. The board accepted plans for a \$5 million fund drive to be earmarked for the construction of a learning resources center, recreation center, further remodeling of the Main Building and campus revision and beautification. The Board, which had expanded its membership from 15 to 18 in 1965 and 18 to 24 in 1969, was enlarged to 30 members with representation from geographic areas throughout the United States. Dr. Logan served as president of the Association of Independent Engineering Colleges in 1972, having earlier served as president of the Indiana Conference for Higher Education. Shook Fieldhouse was remodeled and Rose-Hulman became the first small college in the midwest to install a synthetic playing surface. The Institute established required courses for a certificate of proficiency in technical in German and Russian, a program unique to undergraduate education. Dr. Logan and Norma Addison Schlenz were married in July, 1972.

**1973** -- Dr. Logan announced the continuation of limited enrollments, the maintenance of high standards for admission and graduation, and a limited master's program in support of the baccalaureate program. The middle man in the freshman class ranked at the 93rd percentile of his high school class. The Institute set a limit of 335 to 350 freshmen in order to achieve an average enrollment of 1,050. The Center for Technology Assessment and Policy Studies was founded.



**HALL OF FAME**--Everett E. Black, a 1911 alumnus and staunch supporter of the Institute, admires a collection of athletic pictures dating back to 1893 which graces the entry to the new recreation center named in honor of Black. With him are Athletic Director John Mutchner and Dr. John A. Logan, president.

**1974** -- Rose-Hulman celebrated the 100th anniversary with a variety of programs in 1974 and early 1975. Kicked off with an Opening Convocation in January and the presentation of the history of the school to each alumnus, the centennial series dealt with the past, present and future of the Institute. The Learning Resources Center was completed and the only definitive collection of Indiana artists was placed at Rose-Hulman on a permanent loan basis by Kappa Kappa Kappa sorority of Indiana. Rose-Hulman was admitted to the College Athletic Conference. Dr. Logan announced in October that he was retiring, effective August 31, 1976.

**1975** -- Work was begun on the final project of the Centennial Development Program -- the Recreation Center and renovation of the football, track and field, baseball and intramural fields. The highest ranking freshman class in the school's history (94th percentile) was enrolled and student retention was at an all-time high (72-75 percent). Dr. Samuel F. Hulbert, dean of engineering at Tulane University, was named as Dr. Logan's successor Oct. 3.

**1976** -- The construction of the E.E. Black Recreation Center and renovation of Phil Brown and Art Nehf varsity fields was completed. Eighty percent of the 71 faculty members hold the Ph.D. The student body sits on two standing committees of the Board of Managers; there are 30 student organizations and seven honoraries. During Dr. Logan's tenure budgeted scholarship funds have increased from \$15,000 to \$315,000 annually and total student financial aid has increased from \$70,000 to \$1.5 million. The total operation budget is up from \$900,000 to \$4.5 million. Admissions and placement both had banner years. A new apartment-type residence facility has been constructed over the summer to help the campus housing crunch. Dr. Logan was named executive director of the Wabash Interstate Commission, another assignment in a list of challenges for this vital and creative engineer-executive.

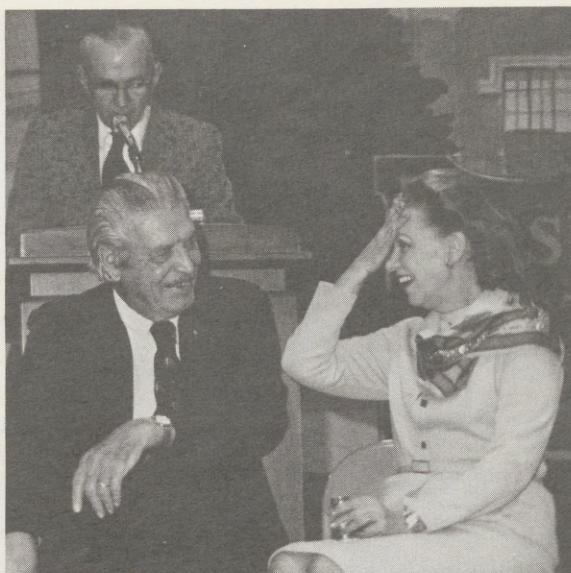


# Dr. Logan Saluted

Two parties--a "This Is Your Life" theme presented by students on Parents' Day and a formal community testimonial dinner May 2-- honored retiring Rose-Hulman President Dr. John Logan this Spring.

Both occasions promoted some eloquent testimony on behalf of Dr. Logan, a man who has gained an uncommon amount of respect and admiration from all Rose-Hulman constituencies. The parties also lent themselves the presentation of a number of gifts ranging from a pith helmet and live mallard duck on the lighter side to a Chrysler Cordoba sports coupe equipped with CB radio on the more serious side.

This mini photo essay depicts the mood of the parties.



Professor Irv Hooper's interesting message which preceded the presentation of a CB radio from the faculty brings a hearty response.

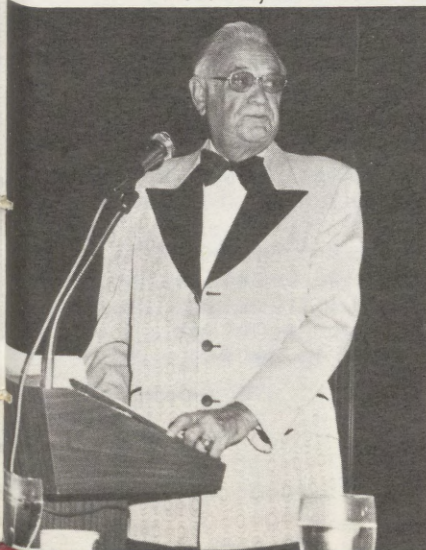


For the man who brought mallards to the campus.

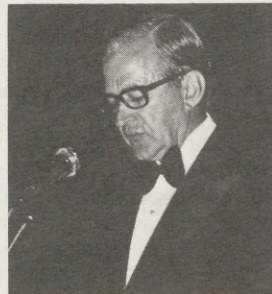


Terre Haute business man and board member Forrest Sherer reaches into his pocket for the keys to a new automobile presented to the Logans.

M.C. Maynard Wheeler



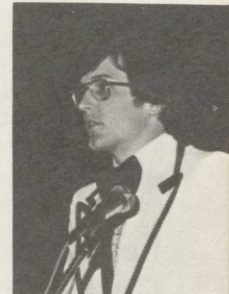
Tom Binford  
Board



Frank Doenges  
Alumni



Dr. "Bill" Meeks  
Faculty



Jeff Shanks  
Students





**Benjamin G. Cox**  
**Doctor of Laws**

Leaders in the fields of consulting engineering, education and law were awarded honorary doctorates during the 98th commencement.

Selected to receive the highest honor bestowed by the Institute were the Rev. James T. Burtchaell, C.S.C., provost of the University of Notre Dame; Benjamin G. Cox, senior partner in the Terre Haute law firm of Cox, Zwerner, Gambill and Sullivan and former chairman of RHIT's Board of Managers; Dr. Cornelius Wandmacher, professor of engineering education at the University of Cincinnati; and Alfred A. Yee, a 1948 Rose-Hulman alumnus who heads an engineering/architectural firm in Honolulu which bears his name.

## **Ben Cox, Al Yee** **Given Doctorates** **... Highest R-H Honor**

A native of Terre Haute, Benjamin G. Cox has been a respected leader in the Midwest law community for more than 30 years. He was graduated with honors from the University of Michigan with a bachelor's degree in engineering in 1937. Cox continued in the study of law, earning the Doctor of Jurisprudence with distinction from Michigan in 1939.

Returning to Terre Haute, he was associated with the firm of Walker, Hillary, Shafer & Cox from 1939 until entering active service with the U.S. Naval Reserve in 1942. He served in the military until 1945, earning the Commendation Medal for Special Service in the European Theatre.

Since 1945 he has been associated with the law firm which is now known as Cox, Zwerner, Gambill and Sullivan. Cox also is a director of Merchants National Bank, Central Federal Savings and Loan Association and other corporations.

He became a life member of Rose-Hulman's Board of Managers in 1961. Cox served as chairman of the board from 1968 through 1975, a period during which time the college has implemented a carefully planned growth and upgrading of resources, facilities and financial programs commensurate with an increase in size from 600 to 1,100 students.

Cox is active in Masonic circles, having been elected to receive the Thirty-third Degree in 1975.



**Alfred A. Yee**  
**Doctor of Engineering**

Alfred A. Yee has been in private practice as a structural engineer since 1953. His work includes design of high rise and low rise buildings, waterfront and marine structures, highway and railroad bridges, oceangoing vessels, prestressed manufacturing facilities and other special structures.

He is president of Alfred A. Yee & Associates, Inc., architects and engineers who maintain fully staffed offices in Honolulu, Guam and Jakarta. The firm has been retained as consultants on various construction projects throughout the Pacific, Southeast Asia, Australia and the Middle East.

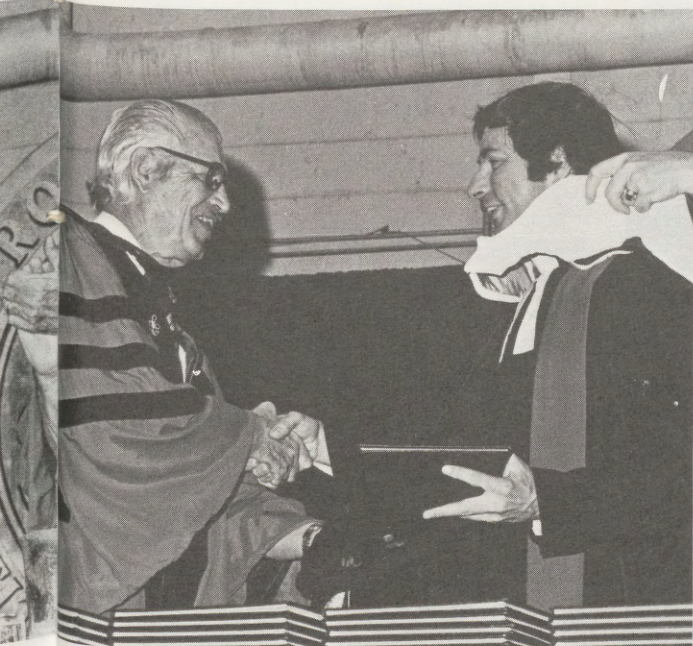
Yee is the holder of several patents on offshore and oceangoing vessels, reinforcing steel bar splices and concrete framing systems for high rise buildings.

His engineering studies, which were interrupted by service in the United States Army during World War II, were begun at the University of Hawaii and continued at Rose-Hulman where he was graduated with a B.S. in civil engineering in 1948. The following year he was awarded a master's degree at Yale University where he majored in structural engineering.

A fellow of the American Society of Civil Engineers, the American Concrete Institute and the Yale Engineering Associations, Yee has received the Martin P. Korn Award (1965) by the Prestressed

**Echoes**





Concrete Institute and in 1969 was named the "Engineer of the Year" by the Hawaii Society of Professional Engineers. In 1975 he gained added distinction through his election to the National Academy of Engineering.

**James T. Burtchaell, C.S.C.  
Doctor of Humane Letters**

Father Burtchaell, the ranking academic officer at the University of Notre Dame, has been provost since September 1, 1970.

A specialist in biblical theology, Father Burtchaell joined the Notre Dame faculty in 1966 and became chairman of the Department of Theology in 1968. As provost, he is directly in charge of the total academic enterprise and indirectly supervises student affairs. He is a fellow and trustee of the university and serves as acting president in the absence of the president, the Rev. Theodore M. Hesburgh, C.S.C.

A native of Portland, Ore., Father Burtchaell has studied and engaged in research at six institutions in this country, Europe and the Middle East. A 1965 Notre Dame graduate (*magna cum laude*), he received his licentiate from the Catholic University of America four years later. During 1961-63 he conducted research at the *Ecole Biblique et*  
**Summer 1976**

*Archeologique Francaise* (Jerusalem), receiving his bachelor's degree and licentiate in Sacred Scripture from the Pontifical Biblical Commission.

From 1963 to 1966 Father Burtchaell studied at England's Cambridge University, earning the degree of Ph.D. in divinity. During his last year he was elected S.A. Cook Bye-Fellow in Gonville and Caius College.

Father Burtchaell entered the novitiate of the Congregation of Holy Cross Aug. 15, 1952 and made his final profession of vows four years later. Following theological studies, he was ordained to the priesthood May 21, 1960.

In his research Father Burtchaell has concerned himself with the history of the discussion on biblical inspiration since the Reformation.

**Cornelius Wandmacher  
Doctor of Engineering**

In recent years few if any have made more significant contributions to engineering education than the University of Cincinnati's Cornelius Wandmacher.

In addition to serving as dean of Cincinnati's College of Engineering from 1962 through 1975, Dr. Wandmacher has

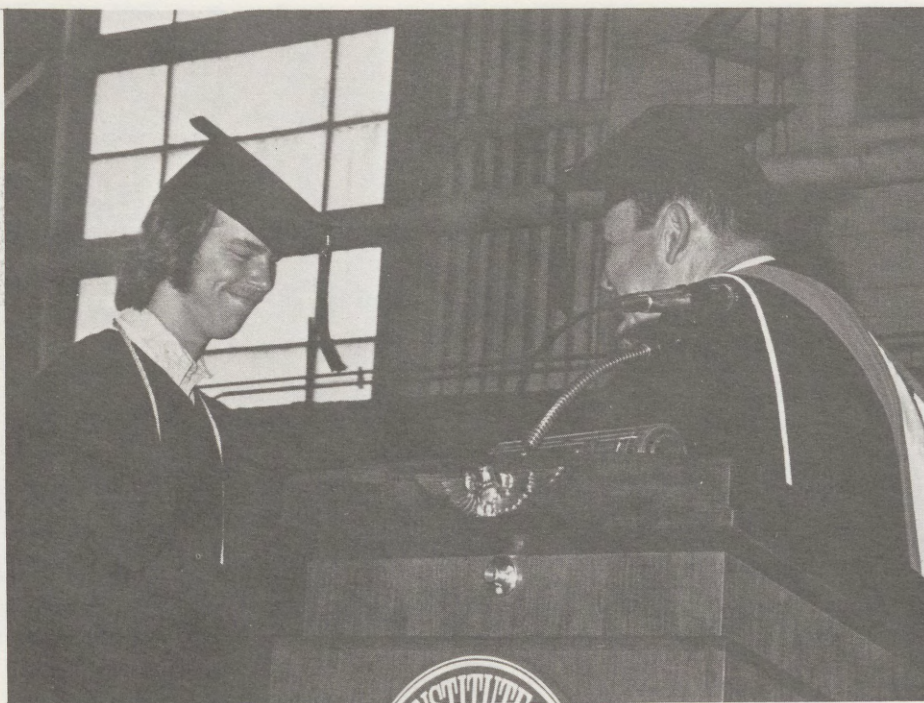
held major assignments with no fewer than four organizations closely-related to engineering education--the American Society for Engineering Education (ASEE), the Engineers' Council for Professional Development (ECPD), the Engineers' Joint Council and the National Council of Engineering Examiners (NCEE).

He is the immediate past president of the ASEE, an organization comprised of engineering educators and representatives from industry which charts the course of engineering education, and is chairman-elect of the recently-formed Association for Cooperation in Engineering (ACE).

Dr. Wandmacher has served several terms as a member of the board of directors of the ECPD and has participated in ECPD accreditation visits to over 40 campuses. He is a former member of the Education and Accreditation Committee of the ECPD representing the National Council of Engineering Examiners.

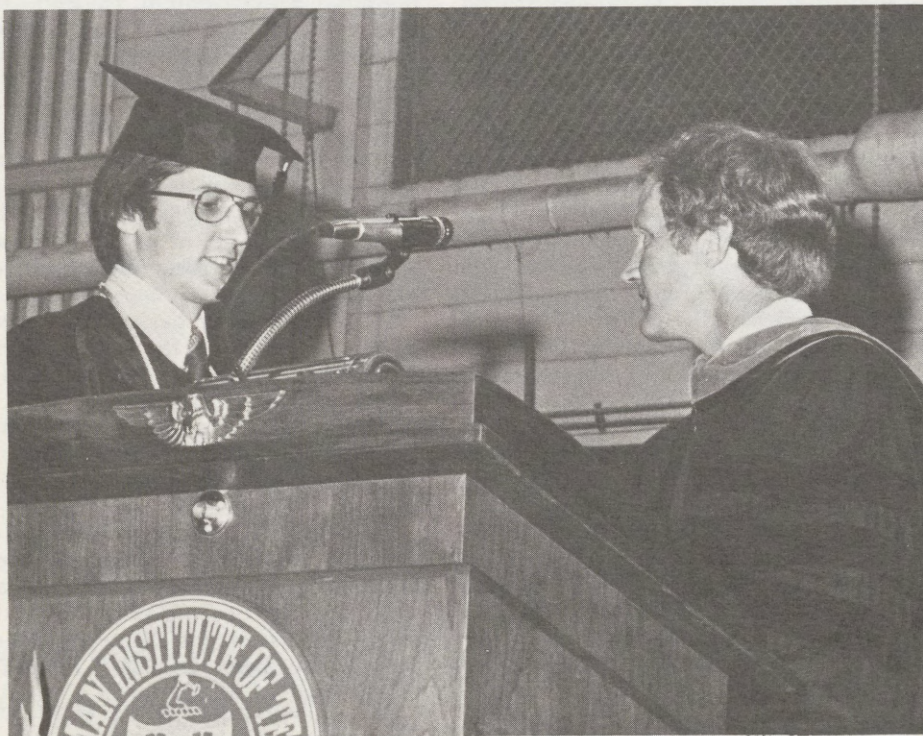
Professor Wandmacher was graduated from the Polytechnic Institute of New York where he remained for graduate study and later became a member of the faculty. He also taught in summer session at the University of Illinois and studied in the College of Education at Columbia University. In 1969 the Polytechnic of New York awarded him the honorary Doctor of Engineering.





Nathan Miles accepts Heminway Medal from Senior Vice President Dr. Herman Moench.

## Nathan Miles Wins Heminway Medal; Royse Award Goes to Jeff Shanks



Dr. Jess Lucas, dean of student affairs, presents Royse Award to student body president Jeff Shanks.

Nathan L. Miles, Terre Haute, was awarded the Heminway Gold Medal as the top scholar of the Class of 1976. Miles, who completed his work in mathematics in February, earned a 3.979 cumulative grade point average on a 4.0 system.

Miles, son of Mr. and Mrs. Charles L. Miles, 2618 Franklin St., has accepted employment with IBM in Minneapolis. Miles won the Bogart Prize as the outstanding sophomore and Wischmeyer Award as the outstanding junior.

He was active in the Rose-Hulman chapter of the Association for Computing Machinery and was a member of a number of computer programming teams which represented Rose-Hulman in intercollegiate competition. Miles worked part time as a computer analyst/operator at the Rose-Hulman computing center and with Applied Computing Devices, Inc., of Terre Haute.

Jeffrey C. Shanks, an honors graduate in mechanical engineering, received the John Tuller Royse Award as the outstanding senior. Shanks, who has accepted employment as a production supervisor with Procter & Gamble in Iowa City, Iowa, is the immediate past president of the student body.

He was vice president of his class as a freshman, and president as a sophomore. Active in Student Government Association and the Student Activities Board, he was a representative to the SGA as a sophomore and treasurer of the student body as a junior.

A member of Alpha Tau Omega, he was among two students in the United States elected at-large to serve with five alumni members on the High Council of the national fraternity. Shanks twice was named to "Who's Who Among Students in American Colleges and Universities;" and is a member of Pi Tau Sigma, mechanical engineering honorary; and Blue Key service fraternity.

## Dr. Thad Smith Wins '76 Teacher Award

Dr. Thad D. Smith, associate professor of political science, received the ninth Dean's Outstanding Teacher Award. In presenting Dr. Smith for the award, Dr. Herbert R. Bailey, vice president for academic affairs and dean of the faculty, said, "Professor Smith communicates well with students and all the academic divisions. His support from the faculty is

Echoes



brought out by his election to the Dean's Advisory Council and as the faculty's representative on the Academic Affairs Committee of the Board of Managers. An overwhelming number of you seniors rated Professor Smith among your best professors at Rose-Hulman."

A member of the faculty since 1972, Smith received his B.A. from Pomona College in 1960 and the Ph.D. in government and political science from the Claremont (Calif.) Graduate School in 1974. He has been an active force in strengthening ties between the humanities and engineering faculties through a number of programs, including his work with the Center for Technology Assessment and Policy Studies (CTAPS).

Prior to coming to Rose-Hulman Smith taught at the exclusive Webb School of California from 1960 to 1966. He was dean of students at Webb from 1963 through 1966. Returning to graduate school full time in 1966, he later taught at Harvey Mudd College, a leading undergraduate engineering college, from 1968 to 1972.

## President's Service Award to Murdoch

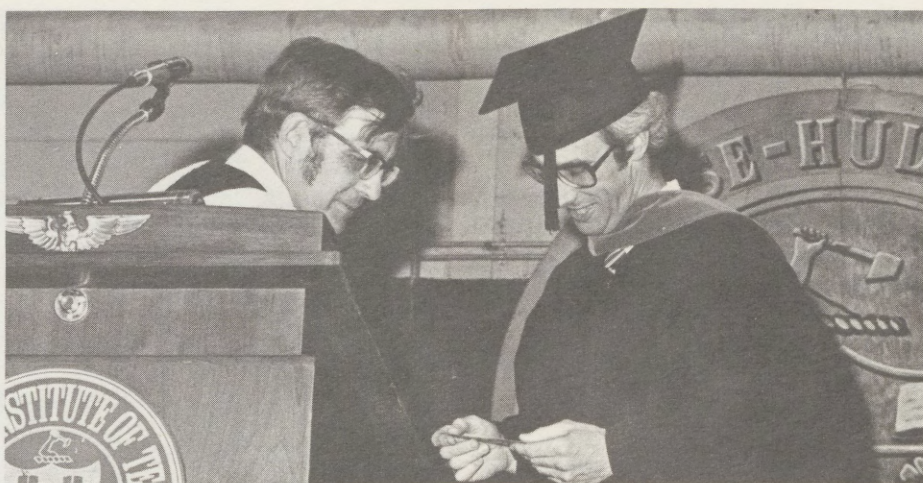
Duncan C. Murdoch, dean of admissions at Rose-Hulman, received the President's Outstanding Service Award. Sponsored by Indiana Bell Telephone Company, the award is presented annually to a member of the faculty or staff for outstanding service to the college.

Murdoch joined Rose-Hulman in 1963 as an admissions counselor and since has served as associate director (1966-68), and director of admissions (1968-73). For the last three years he has been dean of admissions and a member of the school's steering committee.

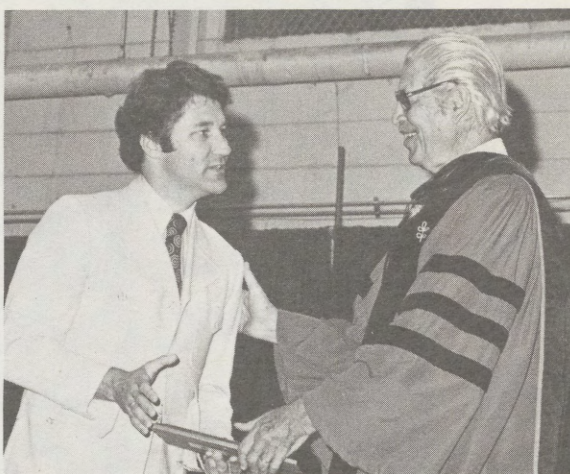
A graduate of Hanover College with an A.B. in business administration and economics in 1961, Murdoch was a member of Hanover's admissions staff for two years prior to coming to Rose-Hulman.

Murdoch is active in the Indiana Admissions Counselors and Registrations Organization and has directed a number of workshops and special programs for the national admissions organization, the Association of College Admissions Counselors. He also has been chosen to present the independent schools views on financial aid to education before committee and budget hearings of the Indiana legislature.

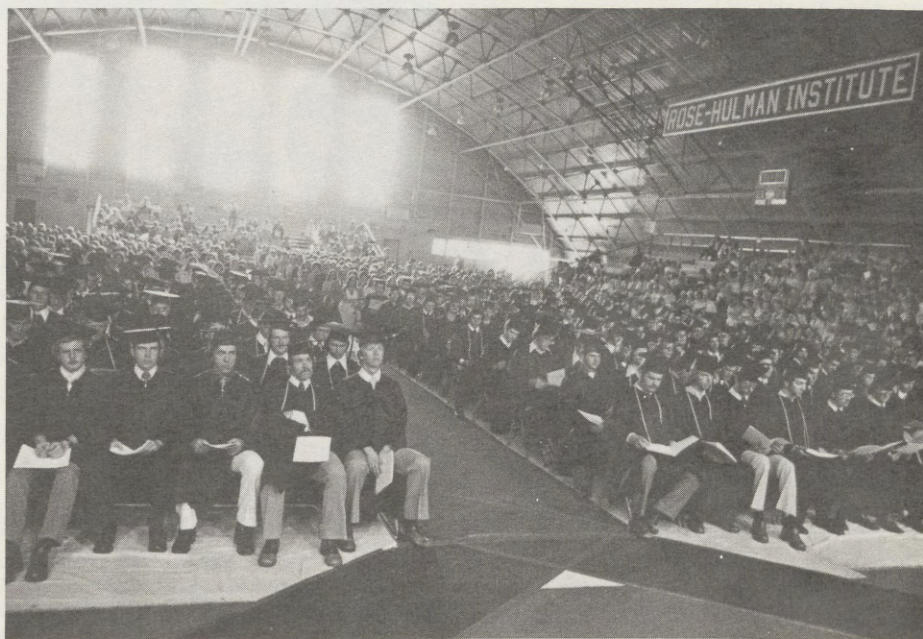
Summer 1976



**Dr. Herbert Bailey, vice president of academic affairs and dean of the faculty, presents Dean's Outstanding Teacher Award to Dr. Thad Smith.**



**Duncan Murdoch, dean of admissions, accepts the President's Service Award from Dr. John Logan.**



**Speaker's panorama of Commencement '76.**



## Congratulations, Class of 1976

Special notations: \*with honors; \*\*with high honors; + + two degrees; + double major; environmental engineering option; & technical translators program.

### Bachelor of Science

**November 22, 1975**

**Biological Engineering** -- James L. Craney, Washington.

**Civil Engineering** -- Walter H. Flood, Jr., Chicago, Ill.

**Electrical Engineering** -- William R. Kidd, Orwell, Ohio; Daniel K. Laskowski, Speedway.

**Mechanical Engineering** -- \*James M. Gardner, Clinton; \*Anthony G. Rafel, Wilmette, Ill.; Robert W. Rossman, Harrison, Ohio.

**February 28, 1976**

**Chemical Engineering** -- Royal L. King, Wytheville, Va.

**Computer Science** -- \*Richard L. Conn, Winamac.

**Electrical Engineering** -- Michael D. Combs, Bloomfield; Joseph A. Iorio, Munster.

**Mathematics** -- David G. Kroy, Indianapolis; \*\*Nathan L. Miles, Terre Haute.

**Mechanical Engineering** -- \*David K. Finfrock, Cincinnati, Ohio.

**May 22, 1976**

**Chemical Engineering** -- Marshall G. Anderson, Jr., Evansville; \*\*Mark R. Bailey, Terre Haute; Michael S. Baumann, Memphis, Tenn.; Larry G. Carty, Sullivan; Dane L. Clark, Rockville; \*Stephen D. Clarke, South Bend; Robert A. Cole, Terre Haute; Frank W. Comer, Scottsburg; \*\*Donald B. Copeland, Jr., Franklin; \*\*Michael B. DeZearn, Martinsville; \*\*Wayne S. Fort, Louisville, Ky.; William S. Frazier, Portage; Michael R. Gambrell, New Roads, La.; James W. Gidcumb, Indianapolis; \*Gregory A. Hansen, Dyer;

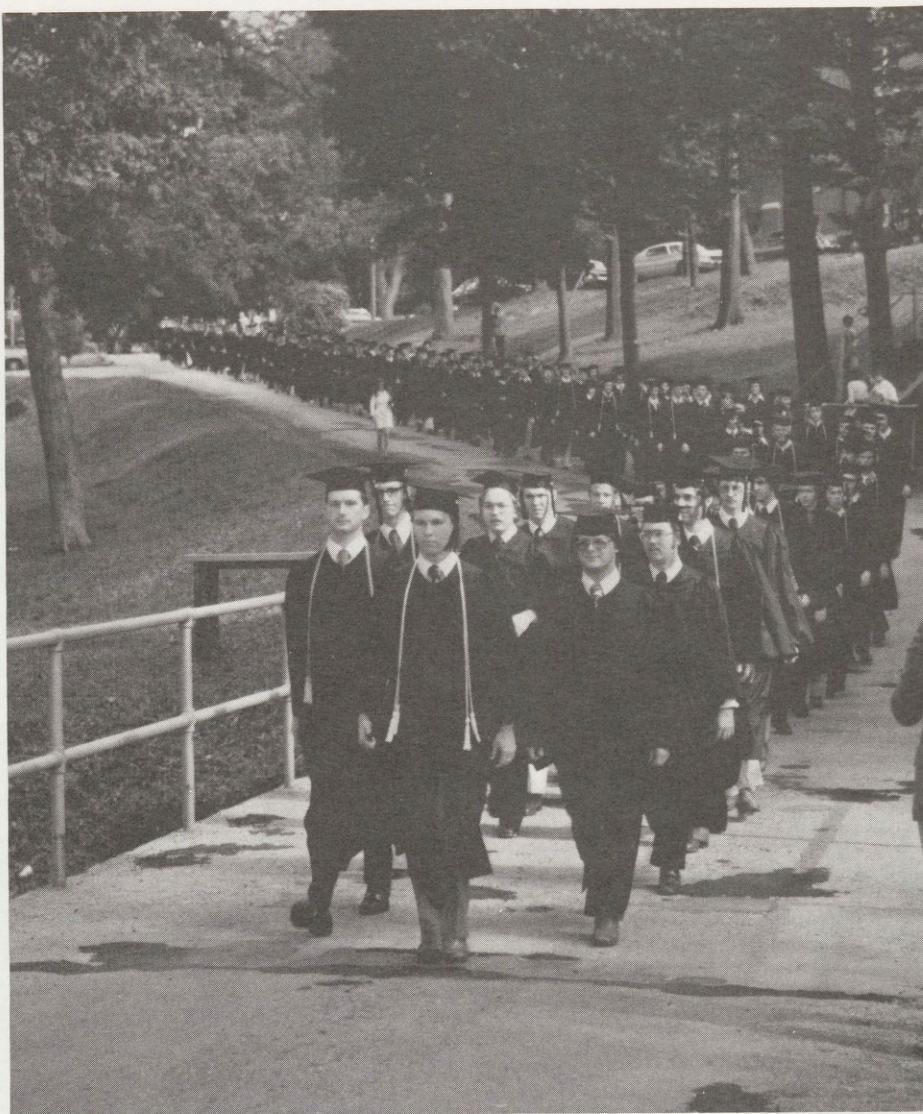
Leonard A. Helt, Clinton; & + + \*Douglas J. Hileman, Ft. Thomas, Ky.; \*\*C. Bradley Hunt, Anderson; \*Steven E. Jefferies, Ft. Wayne; Wayne C. Kuhfahl, Bethlehem, Pa.; \*Danny H. Russell, Bloomington; \*\*Garrett P. Smith, Knox; Jeffrey S. Thompson, Washington; Robert S. Wagner, Shelbyville; \*Douglas E. Weber, Hebron, Ohio; Gary L. Wooddell, Mattoon, Ill.; \*\*Gregory R. Zabrecky, Parma, Ohio.

**Chemistry** -- Rusty E. Koenigkramer, Shelbyville; \*Dennis E. Main, Muncie; Kenneth M. Rogers, Indianapolis.

**Civil Engineering** -- \*J. Ricard Barklund, Clarksville; Dennis A. Basile, Elk Grove Village, Ill.; \*Walter E. Charles, West Baden; \*David L. Dahl, Crawfordsville; \*Bradley J. Dial, St. Elmo, Ill.; Steve L. Dommer, Walkerton; \*Bruce W. Dougan, Holland; Brad Faucett, Linton; Thomas P. Frank, St. Joseph; \*\*Robert G.

Franklin, Indianapolis; \*Stephen A. Hess, Lanesville; Ronald L. Horner, Portage; \*John E. Jordan, Brookville; \*Peter D. Kratz, Antigo, Wis.; Daniel J. Kuester, Evansville; Gary P. Lee, Lebanon, Ohio; \*\*Patrick A. Masterson, Princeton; David B. Mellor, Indianapolis; \*Jeffrey D. Mueller, Evansville; Bob G. Muse, Indianapolis; Ralph E. Price, Washington; William R. Price, Terre Haute; \*John G. Schroeder, Greensburg; Dennis D. Schultz, Harrison, Ohio; \*Keith A. Stelzer, Akron, Ohio; George Tomanovich, Greenfield; \*Gary L. Tucker, Argos; Roy D. Wehrmeister, Terre Haute; Gilbert R. Wright, West Terre Haute.

**Computer Science** -- William A. Goebel, Jr., Madison; Kelly D. Grant, Corydon; Lawrence H. Passo, Indianapolis; Richard A. Petke, Indian Hill, Ohio; \*Stephen A. Sucher, Arlington Heights, Ill.





**Electrical Engineering** -- Gregory C.F. Bettice, Batesville; Peter J. Birkel, Broadview Heights, Ohio; ++\*Steve M. Bryant, Okeana, Ohio; Michael J. Cherbak, Crown Point; \*Charles R. Davis, Ft. Wayne; William J. Davis, Terre Haute; \*Russell W. Dellmo, Brazil; Reed A. Delporte, Indianapolis; Derek P. DeMond, Ft. Wayne; \*Shannon Edwards, Washington; Randy R. George, Bedford; Richard C. Lee, Cincinnati, Ohio; \*\*Gary P. Martin, Plainfield; William F. Mathews, Hobart; \*\*Lyle D. Miller, Georgetown; Donald N. Moore, Rockville; Bruce J. Palansky, Libertyville, Ill.; Bruce H. Palin, Straughn; \*Neil D. Quellhorst, Findlay, Ohio; \*\*John S. Ruppel, Lawrenceville, Ill.; \*Allen J. Ruszkowski, Beech Grove; \*John M. Schmitt, Jasper; \*George R. Stant, Straughn; ++\*Steve A. Stopher, New Albany; Rodney G. Strange, Wabash; Gary L. Tingley, Terre Haute; ++\*\*Christian E. Trummel, Jr., Terre Haute; \*\*Andrew D. Wagner, Sumner, Ill.; Douglas L. Walker, Olney, Ill.; Richard W. Wall, Indianapolis.

**Mathematical Economics** -- Lee K. Brooks, Jr., Terre Haute; Stephen K. Parker, San Leandro, Cal.; Melvin J. Yoder III, Michigan City.

**Mathematics** -- ++\*Steve M. Bryant, Okeana, Ohio; ++\*\*Michael J. Dominik, Hammond; & ++\*Douglas J. Hileman, Ft. Thomas, Ky.; ++\*Vincent E. Lambert, Lawrenceville, Ill.; James N. Scahill, Indianapolis; ++\*Steve A. Stopher, New Albany; ++\*\*Christian E. Trummel, Jr., Terre Haute; Michael R. Walters, Farmersburg; \*\*David N. Wylde, Indianapolis.

**Mathematics and Computer Science** -- & \*\*Robert E. Copus, Indianapolis; John D. Ringham, Evansville; \*David A. Schroer, South Bend.

**Mechanical Engineering** -- \*\*Michael C. Avery, LaPorte; \*\*Gregory D. Brown, Brownstown; \*\*Paul F. Buechler, Jasper; Ruel F. Burns III, Terre Haute; \*\*William J. Carter, Jr., Middleburg Heights, Ohio; Kelly L. Corn, Elberfeld; Robert G. Dages, Montgomery; \*Peter N. Deal, Andrews; \*Philip A. Dodd, Paris, Ill.; David S. Drzewiecki, South Bend; Richard T. Eifert, Cincinnati, Ohio; Steven A. Eisenbrown, Shaker Heights, Ohio; David C. Erlandson, Elk Grove Village, Ill.; Ralph E. Fain, Cambridge City; Mark J. Galambus, Hammond; Douglas B. Garrett, Otterbein; Mark E. Gibson, North Vernon; Charles W. Graham, Terre Haute; William J. Hamman, Mishawaka; Robert B. Hildebrand, Hartford City; & Gilbert S. Hodge, Dakota, Aruba, Netherlands Antilles; Stephen P. Holley,

Cincinnati, Ohio; Richard A. Holmes, Paoli; \*Michael W. Hostetler, South Bend; Jon R. Hubbard, North Vernon; L. Vaughn Huey, Sandborn; Roger L. Huffmaster, Gays, Ill.; Michael S. Jennings, Mishawaka; \*Jesse D. Jones, Pennville; Barry J. Kress, Indianapolis; Timothy L. Lockert, Chagrin Falls, Ohio; Chris A. MacAslan, North Vernon; Terrie L. Maddox, Muncie; \*Michael R. Maesch, Clinton; Michael Mauck, Muncie; Kevin R. McCarty, Cincinnati, Ohio; Ronald W. McCullough, Sullivan; Myron R. McKenzie, Lawrence; Bruce A. Meek, Franklin; Dan T. Montgomery, Seymour; \*\*Steven W. Moseman, Terre Haute; Keith B. Newby, Jasonville; \*Patrick J. Noyes, Harrison, Ohio; James A. O'Neill, Monticello; \*Michael A. Passafiume, Louisville, Ky.; \*\*Thomas F. Pechette, Indianapolis; \*Mark L. Ress, Tell City; Joseph A. Ringwald, Madison; Robert K. Rusher, Indianapolis; Eric M. Schulz, Floyd Knobs; William C. Sensel, Beech Grove; \*Jeffrey C. Shanks, Fostoria, Ohio; James L. Shegog, St. Anne; \*David A. Smith, Merrillville; Kevin W. Smith, Muncie; \*Larry N. Spilbeler, Indianapolis; \*Keith G. Spindler, Haubstadt; \*\*Terry D. Staley, Martinsville; Richard D. Stiles, Georgetown; Keith A. Tague, Frankfort; \*Lucius A. Taylor IV, Neenah, Wis.; \*\*James R. Toone, Ft. Wayne; Dale Turner, Indianapolis; John N. Voyles, Jr., Greenville; William F. Yockman, Cincinnati, Ohio.

**Physics** -- ++\*\*Michael J. Dominik, Hammond; ++\*Vincent E. Lambert, Lawrenceville, Ill.; Byron K. Mayyou, Des Plaines, Ill.

### Masters of Science

May 22, 1976

**Electrical Engineering** -- James R. Baker, Terre Haute; Stanley W. Henson, Brazil; Richard M. Murdy, Bedford; Charles W. Pearson, Bloomington.

### Summer Competitions

### Bachelor of Science

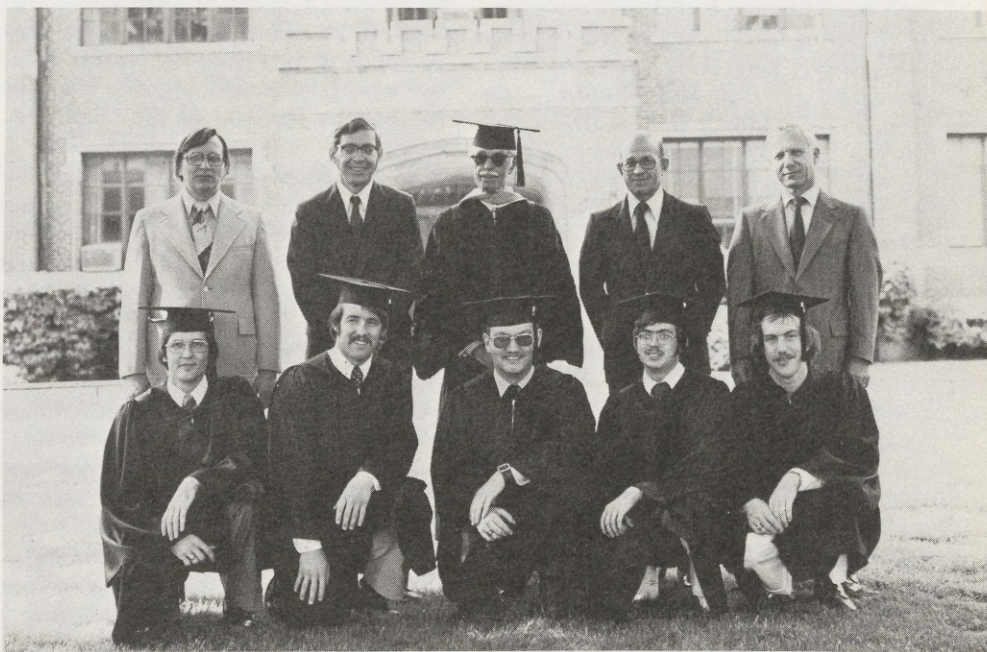
**Chemistry** -- John P. Sweany, Martinsville.

**Civil Engineering** -- Robert D. Carter, LeRoy, Ill.; Paul A. Hartman, Indianapolis; Michael P. McGowen, Rochester; Shannon Rives, Louisville, Ky.; Vern L. Walls, Jr., Indianapolis.

**Computer Science** -- Jeffrey M. Pell, Terre Haute.

**Electrical Engineering** -- David E. Artman, Farmersburg; Steve T. Clauter, Paradise Valley, Az.; David L. Johnson, Indianapolis; Richard M. Schultz, Mt. Prospect, Ill.; Joseph A. Shewman, Indianapolis.

**Mechanical Engineering** -- John R. Grable, Indianapolis; William L. Mobley, Martinsville; Mark J. Niedenthal, Indianapolis.



'76 LEGACIES--Posing in front of the Main Building for the annual legacy picture on commencement day were (left to right) Von Roger Shanks '52 and son Jeff, Herbert Bailey '45 and son Mark, Ruel Fox Burns '15 and grandson Ruel Fox Burns III, Everett Moseman '50 and son Steve, and Jay Kress '44 and son Barry. Moseman was a repeat performer, having posed with son Charles in 1973.



## May 21 Board Meeting

# Learning Resources Center Named in Honor of Dr. Logan

Rose-Hulman's Board of Managers, acting on a resolution forwarded to them by the student body, approved the naming of the Learning Resources Center in honor of retiring president Dr. John A. Logan during the board's spring meeting Friday, May 21.

Board chairman Thomas W. Binford of Indianapolis made the announcement of the naming of the Learning Center and noted that reports by the various areas of operation of the school combined to provide a healthy picture of the Institute.

The two-year old building which houses the library and Center for Technology Assessment and Policy Studies will be known as the John A. Logan Learning Resources Center.

Dr. Logan, who was excused from the board meeting while members discussed the student body resolution, responded to the news of naming of the building by saying, "Gentlemen, there is nothing you could have done which would have pleased me more."

Mentioning by name the four board chairmen he has been closely associated with during his 14 years at Rose-Hulman --Richard F. Bergmann, Henry Y. Offutt, Benjamin G. Cox and Binford -- Dr. Logan continued, "I want to thank each of you for your support and all you've done for Rose-Hulman. I will continue to follow its progress in the years ahead. Thank you."

## Admissions on Upswing

Duncan C. Murdoch, dean of admissions, reported that 372 new freshmen have enrolled for the fall. The middle man in the freshman class ranked in the top five percent of his high school class. His mathematics score on college board tests ranks him at the 98th percentile nationally, while his verbal ability was rated at the 90th percentile.

A record 33 National Merit Scholars will enter as freshmen in the fall, giving Rose-Hulman one of the highest number of National Merit Scholars per capita of any college or university in the United States. Rose-Hulman may rank no poorer than second in the number of National

Merit Scholars among all institutions of higher learning in the state in the fall.

William W. Sisson, director of placement and corporate relations, reported that 185 of the 199 members of the Class of 1976 had accepted positions in industry, graduate school or the military as of May 21.

Sisson indicated that 100 percent placement of the graduates should be achieved by early summer.

The average annual engineering salary accepted by 1976 Rose-Hulman graduates was \$14,136 (this figure does not include fringe benefits or bonuses). The high offer for engineers was \$16,200 per year. The average offer accepted by science graduates was \$14,000 annually, with a high offer of \$16,000.

## Funds Goal in Sight

The final \$5 million phase of Rose-Hulman's 10-year development program was reported near completion by Ronald G. Reeves, vice president for development and public affairs. Reeves reported that an audit of pledges to date shows that \$200,000 remains to be raised, but said response to two proposals under study by donors indicate the goal should be reached by the end of the fiscal year, August 31.

Reeves reported that voluntary gift income during the development period will amount to slightly over \$25 million. This figure does not include federal matching grants or federal building loans.

Robert T. Willets, vice president of business affairs, brought the board up to date on the details of the construction of the new housing unit and revealed budget projections for the year-end which indicated the school will meet its budget and have a slight surplus.

The board also elected Anthony G. Blake, professor of chemical engineering, to emeritus status. Professor Blake, a 1931 graduate of Rose-Hulman, has been a member of the faculty since 1958.

He also is active in alumni affairs of the Institute, having served as secretary-treasurer of the RoseTech Alumni Association since 1965.

# Dr. Logan Named To Head Valley Commission

Dr. John A. Logan will assume full responsibilities as executive director of the Wabash Valley Interstate Commission on Sept. 1.

The Commission was created in 1959 by the Wabash Valley Compact to work on water resource management in Indiana and Illinois. Funded by both states, the organization has dealt almost exclusively with the proposed canalization of the Wabash River and the Wabash Basin.

"I would hope to develop high-level planning which would combine the best thinking of all concerned, including the environmentalist and all other segments," said Dr. Logan of the task of heading a group with a great deal of responsibility for the future development of the area.

The commission has been under fire from environmental groups in recent months, a problem Dr. Logan feels can be solved through a rational approach to planning.

Drawing on expertise gained in work with the International Division of the Rockefeller Foundation, the World Health Organization, the National Academy of Engineering and other assignments on practically every continent, Dr. Logan sees technology a liberator in the valley.

"This area is going to be developed whether we like it or not--and the question is whether it will be done in a haphazard manner or on a rational basis. I believe in a carefully coordinated plan with regard to industry, agriculture, mining and recreation."

Dr. Logan stated that the Wabash Valley is "under-utilizing its resources" and predicted "a far more prosperous and far more beautiful valley" in the future."

Dr. Logan's summer has been a busy one. He continues to put final touches on 14 years as chief executive officer of Rose-Hulman, is heading Indiana's bid to get the Federal Solar Energy Research Center in the state, and has picked up some interim responsibilities for the Wabash Valley Interstate Commission.

Echoes





## Construction Under Way to Ease Housing Pinch

A target date of August 15 has been set for completion of a new housing unit for Rose-Hulman which school officials believe will aid in the solution of both the current short-term housing pinch and the need for married student housing or alternative housing on campus.

The \$280,000 building, which is designed to be converted from a dormitory for 72 students to 12 two-bedroom apartments, is being built by Marsh, Inc., of Terre Haute, the firm which built Crapo Hall, the Learning Resources Center and the E.E. Black Recreation Center. Sub-contracts have been awarded to B. A. Electric, City Plumbing, Inc., and Hartmann Roofing and Sheet Metal Company.

With completion of the new unit Rose-Hulman will have facilities for 670 men housed as dormitory residents in the fall. Another 75 men who are members of fraternities will live in the two fraternity houses on campus and some 100 others will live in fraternity houses in Terre Haute. Commuter students and an estimated 60 married students account for the remainder of the 1,100 student body.

Work was begun on the new housing unit May 10, and was followed by a week and one-half by the official groundbreaking by the Board of Managers May 21.

Rose-Hulman officials cite three reasons for the campus housing crunch:

1) the larger than normal freshman class which will enter the Institute in September (an increase from 315 to 370 from 1975 to 1976); 2) the lower attrition rate; and 3) the trend back to dormitory living by upperclassmen brought about in part by completion of campus facilities such as the new Learning Resources Center and the E.E. Black Recreation Center.

Officials feel the trend back to the campus may be a short term problem which will be from three to five years in duration. Should this occur, the school will convert the unit into apartments, a task which is being facilitated through

the roughing in of electrical and plumbing fixtures for a kitchen at the time of construction.

Initially, six students will occupy three bedrooms and share a common living room, bathroom and storage area. At the time of conversion, one of the rooms will become a kitchen and the unit will be suitable as a two-bedroom apartment.

An overall plan has been drawn up to build as many as three additional similar units should the demand arise. The plan and siting at the edge of campus will allow utmost flexibility in the operation of the units.

### Dr. Bailey to Administer \$23,000 Heating Study Grant

Rose-Hulman has been awarded a \$23,000 grant to study comparative energy requirements of radiant space heating and the commonly used convective type heating systems.

The research grant was awarded by the American Society of Heating, Refrigerating and Air-Conditioning Engineers for the purpose of studying heating costs of both systems.

Dr. Herbert R. Bailey, vice president for academic affairs and dean of the faculty, will serve as project director.

Two buildings on the Rose-Hulman campus--the recently-completed E.E. Black Recreation Center and the Rotz

Laboratory Building -- will be heated on an alternating basis with two types of systems and the costs compared, according to Dr. Bailey.

The buildings were chosen because of the ease of installing the second system. It was noted that the Black Recreation Center would allow researchers to compare electric radiant heat with a conventional electric forced air system. The Rotz laboratory, meanwhile, will offer gas forced air and gas radiant systems.

Dr. Bailey noted that the grant will allow one or two junior level students to serve as research assistants in the taking and analyzing of data.





**TO THE VICTORS**--Special award recipients at the Spring Athletic Awards Convocation were (seated left to right) Gary Lee, Dr. John Logan and John Schroeder. Standing (from left) are Ron Reeves, Steve Clark, John Schmitt, Mike Avery, Casey Reemsnyder, Vaughn Huey, Tom Wilttrout, Eric Clouse and James Hans.

# Engineers Repeat As CAC Champions

## *Others Taking Close Look at Rose-CAC Athletic Philosophy*

Athletic fortunes have never been better than in 1975-76. To be sure, not every team was the best ever fielded by the Engineers and perhaps the cumulative won-lost percentage may have been higher in another year.

But since Rose-Hulman places its emphasis somewhat differently than

most, we need only say that the Engineers were at the top of their league, sharing the College Athletic Conference All-Sports Trophy (Big Bell) with the University of the South.

The 1975-76 contingent was a pleasing blend of four-year veterans, solid sophomore-junior contributors and a few very promising freshmen. Practically every team played its home games on either brand new or refurbished facilities, adding a type of class to the athletic program which frankly is a first for Rose-Hulman.

Athletic Director John Mutchner and his staff are proud of the accomplishments of recent years. They see inquiries by presidents and athletic directors of other independent schools into the CAC conference operation and philosophy as a healthy thing as colleges and universities plan their athletic programs in conjunction with the 1979 declaration date by the NCAA--a time when Division I, I-

A, II, III, and perhaps Division IV hopefully will be realigned in a rational manner.

Odds are that schools with a philosophy such as Rose-Hulman will be getting a bigger voice in intercollegiate athletics. It's about time.

## **Lee, Schroeder Receive Coveted Senior Blankets**

Gary Lee of Lebanon, Ohio, and John Schroeder of Greensburg were named co-winners of the Ruel Fox Burns Blanket as the outstanding senior varsity athletes at Rose-Hulman in 1976.

Quarterback of the Engineers' College Athletic Conference champion football teams of 1974 and 1975, Lee completed more than 60 percent of his passes over the two seasons. Last fall he ranked third in NCAA Division III statistics for touchdown passes (13) and ninth in overall passing statistics. An injury kept him out of the final game of the season.

**Echoes**



Lee was the Most Valuable Offensive Back in football in 1974 and was elected the Most Valuable Player on the 1975 squad. He also was Associated Press honorable mention All-America. He was the opening day pitcher as freshman and continued to be one of the Engineers' outstanding pitchers for four years.

Schroeder, a co-captain along with Lee on the 1975 football team, was a four-year starter at defensive back for the Engineers--a unit which ranked eighth in the NCAA Division III in pass defense last fall. Schroeder had six interceptions as a senior and 16 as a career total.

He was voted the Most Valuable Defensive Back in 1975 and was an all-CAC selection in 1974 and 1975. A baseball co-captain in 1976, Schroeder started at center field every game for four years.

Doug Weber, a four-year letterman in basketball, won the first John A. Logan Award to be given annually to the senior athlete who has achieved the highest grade point average and who has lettered four years. Weber, a chemical engineering major from Hebron, Ohio, has maintained a 3.517 grade point average through 11 terms at Rose-Hulman.

In making the presentation, Athletic Director John Mutchner said the award is "so named for John A. Logan who recognized the need and place of athletics in higher education during his tenure as president from 1962 through 1976. This award is symbolic of his sincere interest in athletics and his philosophy of the development of the whole person."

The retiring Rose-Hulman president also was honored on the occasion as he was presented an honor jacket from the R-Mens' Club. Dr. Logan was an outstanding student-athlete at the University of Saskatchewan where he won the school's major athletic award for participating in basketball, rugby, hockey and swimming.

James A. Hans of Worthington, who has been a loyal supporter of Engineer athletics since his son, Tom, a 1973 graduate, began earning the first of 11 varsity letters in cross country, track and basketball, also received an honor jacket. Hans has missed very few home football, basketball and track contests in the last eight years.

Ronald G. Reeves, vice president of development and public affairs, received

the "Old Jock Award" for significant contributions to the athletic program. In addition to his vital role as chief fundraiser for the college, Reeves has served as a spotter, timer, field judge, scorer, and campus host to prospective student-athletes during his nine-year tenure at the school.

Mark Hodson, a junior chemical engineering major from Fairland, Ind., won the first Outstanding Defensive Player Award. Hodson, who was an occasional starter, played such tenacious defense that it became contagious. Before the season ended the Engineers actually won a number of games on the strength of their defense, prompting Coach John Mutchner to initiate the award.

Steve Van Dyck, a junior electrical engineering major from Grafton, Wisc., repeated as the Most Valuable Player in basketball. Van Dyck was the leading scorer on the Engineers 20-14 season (17.7 points per game). Sophomores Dave Sutherland, a mechanical engineering major from Hoffman Estates, Ill., and Jeff Justus, a chemical engineering major from Portsmouth, Ohio, won the rebounding and free throw shooting trophies, respectively. Sutherland pulled down 286 rebounds to repeat for the honor, while Justus hit 83.3 percent of his free throws.

Dick Neal, a junior electrical engineering major from Terre Haute, literally battled clean-up in baseball, winning the batting title with a .349 average and was voted the Most Valuable Player this

spring. The Engineers finished 6-12 overall.

Vaughn Huey, a senior mechanical engineering student from Sandborn who competed in three jumping events, was named the Most Valuable Field Events Man on the Engineers' CAC championship track and field team which compiled an 8-2 dual meet record. Freshman Eric Clouse, Columbus, and Tom Wilttrout, South Bend, were awarded trophies as the Most Valuable Runner and leading scorer on the team, respectively.

Seniors Steve Clarke, South Bend (chemical engineering) and John Schmitt, Jasper (electrical engineering), shared the most valuable player award in golf. The team finished 1-3 on the season.

Casey Reemsnyder, a sophomore mechanical engineering major from Solon, Ohio, was voted MVP in tennis. Reemsnyder compiled a 4-2 record at No. 2 singles and finished second in No. 2 singles at the Little State Meet. The Engineers finished with a 2-3 season and were leading in two other matches called because of rain.

Michael Avery, a senior mechanical engineering major from Elkhart, was named the most valuable shooter on the Engineers rifle team. The team was 5-3 in dual competition and placed first in the Midwest regional of the Association of Military Engineers rifle championships.

Slightly over 100 students earned the 123 letters and other awards such as the second year certificate, the letter jacket and senior plaque presented during 1975-76. Another 26 participated in varsity athletics but did not earn a letter.

## **Tony Allen Repeats As Track All-America**

Tony Allen, a standout performer in three jumping events for the Engineers, repeated as an NCAA Division III All-America in track and field by placing fourth in the triple jump in the national championships in Chicago the last weekend of May.

Although sidelined all of the regular season with a pulled hamstring, Allen qualified for the NCAA championships by winning both the long jump and triple jump events at the College Athletic Conference championship meet in Memphis in mid-May.

Allen, who will be a junior in civil engineering in the fall, won All-America honors as a freshman in 1975 with a second place finish in the long jump in the

NCAA championships. His best jump was 23 feet 2 1/2 inches. He covered 47 feet 10 1/2 inches for fourth place in the 1976 NCAA triple jump competition.

Engineer Coach Bob Bergman has high praise for Allen, noting that Allen cleared 14 feet in the pole vault and had a long jump of 23 feet 2 inches to his credit indoors before being sidelined by the injury. Allen was the Most Valuable Field Events Man for the Engineers as a freshman.

In addition to his participation in track and field, Allen is active in the Rose-Hulman Drama Club and Rose Men In His Service, the school's chapter of Inter-Varsity Christian Fellowship.



# News From Alumni

'13

**Earl E. Hughes (E.E.)**, pens an interesting and nostalgic report from his new home in Heritage Village, Southbury, Conn. "I've moved to this ideal village of 3,000 - 4,000 in the hills of Connecticut and am having a helluva time sorting and reorganizing the accumulations of 30 years. It isn't easy . . . takes an engineer to shoehorn the belongings and contents of a 20-room house into a four-room cottage—even with prayer. But the move is worth it. This "village" was designed by an architect who poured a lifetime of experience into designs of rustic units of one to four bedrooms clustered around gardens, lakes, golf courses spread over 1,100 acres. Each unit is efficiently arranged and is equipped with electric heat, air-conditioning, fireplaces and a complement of work-saving details. You invite a deluge when you ask for a Class Note for *Echoes* and it kindles memories of my assistant editorship of the 1913 *Modulus* just as my 85th birthday has touched off mellow memories of those "good old days" back home in Indiana.

"Rose Poly at that time consisted of a Victorian main building on North 13th Street along with a small machine and carpentry shop, a 2 x 4 foundry room, a small gym building and a football and track field with 150 capacity bleachers.

"The entire physical plant and 300 enrollment of Rose Poly would be a poor relation to the present high schools with their auditoriums, swimming pools and capacity football fields. But to ambitious Hoosier lads with modest means Rose Poly was the gateway to the world of big industries, executive jobs and success. And Rose, with its small, able and dedicated faculty, helped its students develop those qualities sought after by the talent scouts from top industries. Rose seniors landed jobs man for man equal to the large colleges. Standing out clearly defined in memory's lane is Carl Leo Mees. Diminutive in stature, but a giant in intellect and keen observation. A stern disciplinarian, a sharp critic, but kind and understanding to the core. A rare person. The kind you meet but once in a lifetime. It was a privilege to have been a student when he was president."

Hughes, who continued his education at Harvard University where he earned a master's in finance, formerly was property manager and head of the international headquarters and Sterling Forest Laboratories of Reichhold Chemicals, Inc., in White Plains, N.Y. His current address is 149-A Heritage Village, Southbury, Conn. 06488.

## A rose by any other name . . .

*Alumni Edition of Echoes*  
Rose Hulman, IT  
Terre Haute, Indiana

Gentlemen:

*I was surprised and pleased to see the front cover of the latest annual cover of ECHOES. You greatly aided me by emphasizing the message I am trying to get to the older Rose Alumni.*

*First, I ask all at the football game to repeat the Old Rose yell and added that "A Rose by any other name is just as sweet." When the Board accepted the Hulman offer, so many of the older Alumni thought they were no longer a factor as did the Case Alumni when they were taken over by Western Reserve in Cleveland.*

*My effort is to boost the loyalty of the older Alumni whose interest will be so much needed by Rose Hulman during the next few years in the form of bequests.*

*May I ask that the "A Rose by any other name is just as sweet" appear in ECHOES quite often.*

*Respectfully,*

C. Brenton Cook '05

'14

Our apologies go out to **John T. Scott (Ch.E.)** who was reported to be deceased in the last issue of the alumni directory. "In the words of an eminent American writer of the 19th century, this is a gross exaggeration!" exclaims Mr. Scott. "It is true that my health has been very bad for the last three years, but there is no use going into much detail about that. We have been living here on the coast (of France) for 17 years and it is quite a pleasant place to be. It is never very hot nor very cold down here close to the sea. I would be very glad to hear from any of my old classmates or any other of my old school friends. Our telephone number is Nice 89-21-63." Prior to his retirement, Scott was superintendent of Riverdale Products, Inc., Calumet City, Ill. His current address is Porte 8 Parc Vigier, 06300 Nice, France.

'22

**Herman L. Mitchell (M.E.)** reports that he and his wife are "enjoying life to the fullest" in retirement at Rolling Hills Estates, California. "We play golf three days a week at a private country club," says Herman. "The spouse and I each have had a hole-in-one." Mitchell formerly was associated with Standard Oil Company of California. The Mitchells' address is 4927 Kinspine Rd., Rolling Estates, CA 90274.

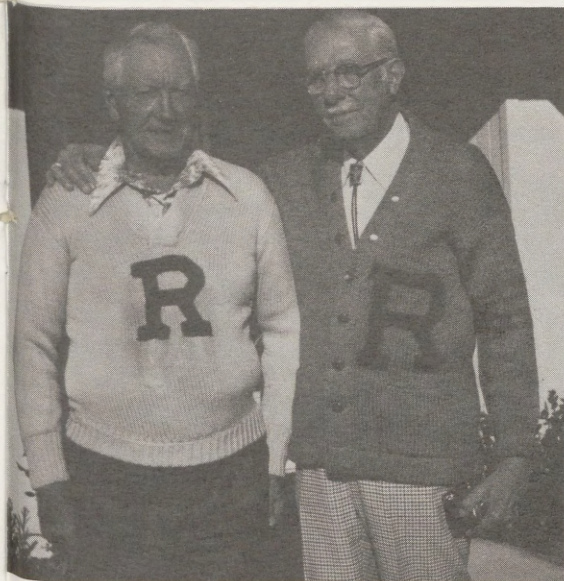
'26

**J. Nelson Shepherd (x-M.E.)**, retired president of Midwest Beach Publishing Company in Sioux Falls, S.D., has moved to Thunderbird Country Club in Rancho Mirage, CA 92270.

'28

**George J. Mason (C.E.)** reports he is "traveling and seeing the USA--doing what I want to do, when and how." George, of course, has seen much of the world during his career with the U.S. Army Corps of Engineers from which he retired as a "bird" colonel in 1966. He later was manager of the engineering division of the Public Works Department of NAD Crane, Ind., until 1971 and since has served as resident engineer for construction of the new Greene County General Hospital at Linton. Upon completion of the hospital he remained as maintenance engineer and established a preventive maintenance program and "worked out the bugs of the new facility." He continues to reside at 744 N. Washington St., Bloomfield, IN 47424.





**R-MEN**--One of the smallest but most enthusiastic RoseTech meetings held this past year was one with Richard P. Brettell (left), a 1925 graduate in electrical engineering, and Walter L. Osmer (1920, C.E.). The meeting took place in Sun City, Arizona--the area where both spend their winters.

## '31

**Robert T. Mees** (M.E. & E.E.) reports that he and his wife Sue spent January in Florida and March in Italy "for the time of our (35 years) life!" Bob, who retired as director of technical training for Caterpillar Tractor Company last year, is a past president of the RoseTech Alumni Association, has served on a number of occasions as class agent and was general chairman of Rose-Hulman's very successful Centennial Celebration.

## '32

**B. G. MacNabb** (x-M.E.) has been appointed to the Montana State University Executive Board by Governor Thomas L. Judge. MacNabb, who moved to West Yellowstone, Mont., upon his retirement from General Electric Company, is owner of the Happy Hour Bar in West Yellowstone. His address is Box 312, West Yellowstone, Mont. 59758.

**James H. Stout** (Ch.E.) has retired after 42 years with Commercial Solvents Corporation. He joined CSC in Terre Haute on Dec. 26, 1933 and subsequently held engineering assignments at the Peoria, Ill. plant, Dixie Ordnance Works, and Terre Haute facility prior to moving to Monroe, La., in 1963. The Stouts reside at 515 Orleans St., Monroe, La 71201.

Summer 1976

## '33

**J. Dunlap McNair** (Ch.E.), who retired in 1975 as manager of metallurgy and research for General Cable Corporation in Muncie, is enjoying a life of traveling and a sideline speaking career centered on what he calls "Prefabricated Holes and Excavations." J. D. and his wife Kate have made three vacation trips to Europe and he recently went to Lima, Peru, as a wire consultant to a new company in the location. "... found the Inca ruins of Machu Pichu and Cusco less interesting than my ancestral land of Scotland, although the altitude of 11,000 feet was cheaper and almost as intoxicating as the best known Scottish product." Kate is the author of two books of fiction, several magazine stories and serves as an instructor at several writers workshops. Their son Tony is an insurance underwriter and daughter Susan is a pediatrician married to an engineer-cardiologist. The McNairs continue to reside at 3400 Petty Road, Muncie, IN 47304.

## '35

**E. A. Hamilton** (C.E.) currently is living in Indonesia where he is superintendent of the mining and metals division of Bechtel International, Inc. Hamilton, who retired from the U.S. Army in 1953 with the rank of colonel, since has worked with the Corps of Engineers. His address is c/o Bechtel International, P.O. Box 88, Ujung Pandang Slilaines, Indonesia.

## '36

**Samuel A. Tait** (C.E.) has retired and moved up to chairman of the board of directors of Broderick Wood Products Company in Denver. He had headed the company for more than 25 years at the time of his retirement, first as manager and later as president. He continues to reside at 3047 West 47th Street, Denver, CO 80211.

## '37

**J. Robert Penisten** (Ch.E.) has been recovered from the alumni office's "lost list." Bob is manager of the computer services department of Process Division of Universal Oil Products near Chicago. He resides at 35 East Palatine Road, Palatine, IL 60067.

## Homecoming

## 76

October 22-23

## '41

**Col. William M. Hales** (E.E.) received the Distinguished Service Medal, highest peacetime honor conferred by the Department of the Army during special ceremonies at Fort Shafter in Honolulu. Col. Hales, who retired from the Army on Sept. 1, 1975 after a 33-year career as an officer of the Corps of Engineers, was cited for outstanding management and executive skills and abilities in logistics. Col. Hales served in World War II in Africa and the European Theater, participating in the D-Day landing. Other campaigns and assignments included Korea, Okinawa and Asia for nearly half of his career in the military. Col. Hales, his wife, Florence, and teenage son and daughter reside at 663 Mokapu Rd., Kailua, HI 96734.

## '41

**James E. Shake** (M.E.) is currently on loan from Atlantic Richfield Company to the Alyeska Pipeline Service Company in Fairbanks, Alaska. Mail may be directed to him at 104 B Street, Apt. 21, Fairbanks, AK 99701.

## '43

**Richard M. Buchanan** (M.E.) has joined Marion Power Shovel Company in Marion, Ohio as manager of field sales-parts. MPS is a major supplier of walking draglines and shovels to the coal and copper industries throughout the world. Prior to joining Marion, Dick was associated with General Electric Company in the Locomotive Division.

## '45

**William C. Waldbieser** (C.E.), chief engineer for AMAX Coal Company who was critically injured in a plane crash near Whittier, Alaska last August, is convalescing at his home near Indianapolis. He continues therapy following surgical repairs and is hopeful of returning to work in late summer. Waldbieser, who has been with AMAX for 29 years, resides at R.R. 1, Brownsburg, IN 46112.

## '49

**William B. Berling** (C.E., January) "would enjoy hearing from my old friends" while confined at his home in Noblesville following a heart attack suffered February 26. Prior to the illness, he was associated with General Construction Services Company, Inc. Mail may be directed to Bill at 211 Heady Lane, Noblesville, IN 46060.



## What's New?

### Dave Hiller's Experimental Airplane

**Editor's Note--**In the Winter issue of *Echoes* we solicited feature story ideas from alumni. John D. "Dave" Hiller '49 sent in the following story, complete with photographs.

I'm one of those guys who built an airplane in his basement. It all started when I joined the Experimental Aircraft Association in 1966. Motivation set in then and got stronger until in 1969 I ordered plans for an SA-500 Starlet from the designer, Lou Stolp who was then owner of the Starduster Corporation in Riverside, California.

During the remainder of that year, I studied the plans in detail, calculated all the performance figures, decided to move the wing back 1-3/4 inches and reduce its incidence from the specified 5.6° to 2.3°, did a partial stress analysis and completely redesigned the landing gear. The building process began in my basement during 1970. Working weekends, the project was finished (except for cover and paint) and completely assembled and rigged, still in the basement!

After a complete disassembly (engine/prop off, cowl, wings, empennage off) the covering was completed and the project carried up to the garage for painting. (No, I didn't have to knock a hole in a wall . . . it all went up the basement stairs and out the patio door). The engine (purchased from a low-time Cessna accident and given a precautionary overhaul in the basement) received a short break-in run (installed in the plane) in the driveway.

Three and one half years after the real building start, my wife Arie and I towed the Starlet to the Cincinnati Blue Ash airport for final assembly. Following FAA inspection (the third), the first flight occurred on June 14, 1974. The half hour flight was a solid thrill . . . all expectations met and no problems. At that time, I had \$5500 and approximately 2000 man-hours invested. Between June 14 and July 25, I flew the required 50 hours of test flight which enabled me to leave the area within the 25 mile radius about Blue Ash airport.

The following day, I packed a shaving kit and took off for the International EAA Flyin at Oshkosh, Wisconsin for a week. I



had a fine trip, made many new acquaintances, saw hundreds of homebuilt aircraft and won a trophy for "Best Single Seat Starduster." Subsequently, I wrote an article on the design of my "Two Piece Spring Landing Gear for the SA-500 Starlet." It was published in the July Sport Aviation magazine. As a result of that article, I've become involved in a number of varied design consultations (as far as Australia) covering landing gear design, horsepower increases, stress analysis, etc., and have joined NASAD (National Association of Sport Aircraft Designers).

What started out as a one-time involvement with a homebuilt sport aircraft has become an interesting avocation!



Dave Hiller prepares for first takeoff in homemade experimental airplane.

My Starlet, N445W, now has 110 hours of flying time logged. It is docile, behaves beautifully in a crosswind landing and responds immediately and rapidly in aerobatics. Following the first flight, I shimmed the stabilizer angle of attack negative with three washers and got a hands-off trim at 120 mph cruise. Have had only two problems: 1) minor cowl cracks (solved by riveting doublers at high stress corners) and 2) negative tailwheel caster resulting in bistability and eventually throwing off a tailwheel tire during a landing (solved by adding arch to the spring).

A final note is a place in history . . . N445W with yours truly in the cockpit resides prominently on page 468 of the 1975-76 edition of Jane's All the World's Aircraft representing the Stolp SA-500 Starlet design.

Meanwhile, at the General Electric Company Aircraft Engine Group, I'm continuing a specialty which I entered in 1966, currently managing the Condition Monitoring System Design and Development for our CFM56 Turbo-Fan engine, a joint development effort shared by GECo and SNECMA in France. Condition Monitoring Systems involve precise instrumentation of the aero-thermal gas cycle as well as various other functional aspects of the engine . . . interfacing with a computerized analytical program which trends component efficiencies, detects and isolates faults and enables the engine operator to realize cost effective maintenance schedules and logistics.



'49

**Wayne E. McCoy** (Ch.E., Jan.), director of process engineering for Prizer, Inc., in Easton, Pa., has returned to the engineering school classroom--not as a student but to teach the teachers, so to speak. McCoy is working closely with professors at the University of Illinois and Carnegie-Mellon University in research to uncover potential agricultural or commercial uses of iron oxide wastes from the company's pigments plant in East St. Louis, Ill. Possible uses of the effluent currently being disposed of as landfill include a fertilizer or conditioner for iron-deficient soils, a ceramic refractory cement and a strengthening agent for pressed-board construction material. The potential also exists for using such wastes as a starting material for an inexpensive fireproof insulation. McCoy continues to reside at 20 Devon Dr., Easton, PA 18042.

'51

**Paul M. Godwin** (M.E.) has moved to Edina, Minn., where he is branch manager for Precision Rubber Company in that area. He formerly was assigned to Precision Rubber's Peoria, Ill. operation. Paul's address is 7520 Cahill Road, Apt. 112-A, Edina, MN 55435.

**Myron D. "Mike" Hawk** (C.E.) is city engineer and director of public works for the City of Atwater, California. Mike, who has resided in California since graduation, has devoted most of his career to public service. He has worked for the California State Highway Department, Scott and Associates, professional engineers, and for three different California cities. His home address is 750 Bellevue Road, Atwater, CA 95301.

'52

**Leo E. Little** (E.E.) has been appointed director of the engineering and construction division of the Energy Research and Development Administration's Idaho Operation Office. He assumed the position following a four-year assignment as senior project manager at ERDA Headquarters in Washington, D.C. Prior to joining ERDA in 1972, Little served as an electrical design engineer with Douglas Aircraft Company (1952-54), a supervisor in field engineering with International Telephone & Telegraph at Cape Canaveral, Fla. (1957-59), department manager with Aerojet General Corporation at Sacramento, CA (1959-70), and manager of the Nuclear Rocket Test Site at Jackass Flats, Nevada, for Aerojet General (1970-72). Little, his wife Joyce, and three of their children are members of the National Ski Patrol. The couple has a son and daughter attending the University of Maryland and two sons living at home. Their address is 978 Seventh St., Idaho Falls, ID 83401.

Summer 1976



Stoker



Boyer

'54

**Ronald E. Smith** (Ch.E.) recently retired from active duty with the U.S. Navy, having completed over 20 years' service as a naval aviator with assignments in Morocco, Spain, Okinawa and several locations in the United States. In his last assignment Commander Smith was in charge of Navy recruiting in New Mexico and West Texas. Smith has taken a position as president of Century Laminating, Ltd., headquartered in Albuquerque. The firm manufactures and distributes laminated plaques and mylar-laminated products. Smith resides at 8900 Chambers Place, N. E., Albuquerque, NM 87111.

**Erwin A. Ulbrich, Jr.** (M.E.) is president of a newly-formed California corporation named "Twenty-First Century Electric Vehicles." Erv continues as proprietor of a small automotive research company named "Creative Automotive Research" and is active in the aerospace and display industries. He also is president of the Society for Information Display. His address is 7739 Elden, Whittier, CA 90602.

'55

**Jack R. Hughes** (M.E.) is now employed by Domsea Farms, a division of Union Carbide as a senior engineer. Located in Gorst, Washington, near Bremerton, Domsea is involved in aquaculture. Says Jack: "We raise salmon from eggs through to plate-size ready for the pan. As the only engineer in the company, the job covers many disciplines, including keeping the machines running as well as designing the machines, facilities and supervising construction. A very diversified and fascinating job." Jack's new address is R.R. 4, Box 218, Snohomish, WA 98290.

**Wilfred "Bill" Johnson** (E.E.) pens a note concerning a new direction. "After 12 years in aerospace engineering work, I've decided to put my favorite hobby to work for myself--flying. I am now a flight instructor at Fullerton Airport." Bill reports he has been flying his own airplanes out of Fullerton for 15 years and while admitting that the pay may not be as good, "the relaxation, enjoyment and outdoor-type work sure beats the desks and ulcers of aerospace." He continues to reside at 125 S. Prichard Ave., No. 7, Fullerton, CA 92633.

**Gene M. Stoker** (M.E.) has embarked on a new assignment with General Electric Company. Located in Cleveland, Gene is manager of Distribution Sales--East Central Region, a position with responsibility for the sale of distribution equipment products to the electric utility industry in Michigan, Ohio, Indiana and Kentucky and parts of Pennsylvania and West Virginia. He previously had been located in Hendersonville, N. C., where he was affiliated with the company's lighting systems business. His new address is 750 Spring Water Drive, Akron, OH 44313.

'57

**Charles W. Kallis** (M.E.) has accepted a position with General Housewares Corp. of Terre Haute. Kallis, who formerly was with Carlon, Inc., in Oklahoma City, returned to Terre Haute in the spring. Prior to moving to Oklahoma he had been associated with the Visqueen Division of Ethyl Corporation in Terre Haute in a number of engineering positions. The Kallis' address is 6146 North 34th St., Terre Haute, IN 47805.

**Dr. John H. King** (E.E.) is director of educational research for Dartmouth College, Hanover, New Hampshire. Prior to the move John was senior director of the office of analytical studies and information systems and senior staff associate to the vice president for academic affairs at the University of Wisconsin. Dr. King, who went to work for General Electric Company upon graduation, earned a Ph.D. from Wisconsin in 1970. His new address is 17 Valley Road, Hanover, NH 03755.

'58

**James F. Boyer** (M.E.) has been named director of fabric filter applications for the Pittsburgh-based Air Pollution Control Division of Wheelabrator-Frye, Inc. Boyer, who formerly had been manager of that department, has been with Wheelabrator-Frye since 1960 and has held various positions in the engineering department.

**Dr. Richard K. Irey**, professor of mechanical engineering at the University of Florida, recently co-authored a textbook entitled *Thermodynamics: For Modular Instruction* (John Wiley & Sons, 1976). Dr. Irey, who has been professor at Florida since 1964, holds the M.S.M.E. and Ph.D. in mechanical engineering from Purdue University. He resides at 4410 NW 33rd Court, Gainesville, FL 32601.

**William H. Payne** (M.E.) is a co-partner in Diving Unlimited, a newly-established business in Denver formed to sell scuba equipment and to teach lessons on how to use the equipment. The business also will organize trips for the divers since few places in Colorado are adaptable for a recreational sport. Bill continues to reside at 25 Rock Lane, Castle Rock, CO 80104.



'59

**Dr. Jan R. Sonner** (E.E.) is chairman of the department of engineering technology at Missouri Western State College. He completed a Ph.D. in higher education at Southern Illinois University. The degree was in inter-disciplinary with engineering, with all but the dissertation for the Ph.D. in electrical engineering at the University of Illinois at Urbana. "I can't think of anything else for Echoes," notes Jan. "I was at homecoming a year ago and was pleasantly surprised." The Sonners reside at 3112 Beltview Dr., St. Joseph, MO 64506.

'60

**Robert J. Schukai** (E.E.) has been named director of Nuclear Services of the recently-formed nuclear group of Union Electric. Prior to the promotion he was assistant to the vice president of engineering construction. Bob continues to reside at 9745 Croftwood Dr., St. Louis, MO 63123.

'62

**Don C. Hurst** (C.E.) recently resigned from Shell Oil Company in Houston, Texas after 10 years to accept a fellowship at the Wharton School of the University of Pennsylvania to train as a health maintenance organization manager. He now is executive director of the Winston-Salem Health Care Plan, Inc., a pre-paid group practice that will provide comprehensive health care services to an enrolled population of 30,000 people. Don's current address is 229 Halcyon Ave., Winston-Salem, NC 27104.

'63

**W. D. "Dave" Randolph** (Math) is currently employed by KETRON, Inc., of Arlington, Va., and is assigned to the staff of Commander Patrol Wings-U.S. Atlantic Fleet at the Brunswick Naval Air Station in Maine as an on-site tactical development and evaluation analyst working on inter-type tactics for the P3A/B/C aircraft. Dave has continued his education, earning a masters of engineering in systems engineering and a Ph.D. in operations research from the University of Florida.

'64

**John Stockton** (Math) joined Colonial Penn Group, Inc., in January as director of marketing planning for health products. Colonial Penn is located in Philadelphia and specializes in providing services to the mature segment of the population. Prior to joining Colonial Penn, he was associated with General Foods Corporation in White Plains, N.Y. where his last position was that of senior product manager. John, his wife Karen and children Paige, Britt and Patrick reside at 440 Woodcrest Road, Wayne, PA 19087.

'65

**William B. Allard** (Math) reports on a new job in a letter to Rose-Hulman Development Director Ron Reeves. "Ron, you'd be proud of me--finally have a real, honest JOB as a statistician with the Army (GS-13). Gone are my student days (for a while). Sorry I missed homecoming . . . could have made it, but got the notice just about Bonfire time. In mid-Florida on the way to Kansas. Maybe next year." Bill's new address is 515 N. 5th St., Apt. 2, Leavenworth, KS 66048.

**David B. Holobaugh, Jr.** (C.E.) has taken a position with Garst-Receveur Construction Company in Louisville. Dave formerly worked as a contract manager for Geupel-Demars, Inc., and while in the Indianapolis area earned an M.B.A. at Butler University. The Holobaughs reside at 10503 Volpaire Dr., Louisville, KY 40223.

**Richard D. Swan** (M.E.), a production engineer for Exxon Production Malaysia, Inc., reports that the Swans are "enjoying the second marine terminal operation. Wife and daughters are with me and enjoying the multinational experience immensely". The Swans may be corresponded with at POB 857, Kuala Lumpur, Malaysia.

'66

**Ronald L. Haun, M.D.** (Math) is a pediatrician in Evansville, having opened a private practice there upon completion of medical school. Ron received his M.D. degree from St. Louis University School of Medicine in 1973. His current address is 6800 Pinehurst Dr., Evansville, IN 47711.

**Richard W. Johansen** (Ch.E.) is working as a process engineer for the Terre Haute Nitrogen Complex of CF Industries, Inc. Prior to the move he was associated with the Hawkeye Chemical Division of Skelly Oil, Inc., in Clinton, Iowa. His new address is P.O. Box 535, Terre Haute, IN 47804.

**Donald E. Lundgren** (E.E.) pens a note concerning "major changes in my life." In October of 1975 he married Pam and soon after Don, Pam and stepson, Kevin, moved to Amsterdam where Don worked for IBM Europe. In June of 1976 they moved to Paris where Don took another position with IBM Europe. He also invited "all their old Rose friends to visit them." The Lundgrens' address is Immeuble Lemmos, 1 bis rue du Printemps, 782 Le Peco, France.

**Woodrow A. Sutton, Jr.** (Chem.) has been elected vice president of Central National Bank in Chicago in the international banking group. He continued his education at the University of Chicago where he earned the M.B.A., and also holds the License Unique from the University of Louvain, Belgium. Woody is a resident of Chicago and is active in the International Trade Club of Chicago. He resides at 4317 N. Hazel St., Chicago, IL 60613.

'67

**Ronald P. Glanz** (M.E.) has taken a position as project engineer for FMC-Raque in Louisville, a manufacturer of food dispensing equipment. Prior to the move he was associated with Tube Turns, Inc., as a research engineer. The Glanzes reside at 626 Roseview Terrace, New Albany, IN 47150.

'68

**Tom Compton** (E.E.) recently joined the A.B. Chance Company of Centralia, Mo., as an account representative in Northern Ohio. A.B. Chance is a subsidiary of Emerson Electric, a manufacturer of equipment for utility companies. Tom, who formerly was associated with Kickhafer Manufacturing, Inc., as a sales representative, continues to reside at R.R. 2, Cortland, Ohio 44410.

**Dr. Philip M. Gerhart** (M.E.) has been promoted to associate professor mechanical engineering at the University of Akron. He reports that he also is at the mid-point of a three-year \$45,000 research grant to study separated flows. Phil, his wife, Mary Lou, and children Ann, age 5, and Andrew, age 2, reside at 1013 Ashmun Ave., Tallmadge, OH 44278.

'69

**John R. Allen** (E.E.) reports that he became the father for a second time and completed an M.S. in electrical engineering at the University of Dayton. He continues to work as a process engineer for NCR Corporation in Dayton. The Allens reside at 4224 Burchdale, Kettering, OH 45440.

**Morris K. Belknap** (Math-Econ) is now employed by Corhart Refractories in Louisville as a programmer/analyst with responsibility for writing programs for industrial data base systems. Prior to the move he worked for the City of Louisville for two and one-half years. His address is 1707 Youngand Ave., Louisville, KY 40216.

**Joseph D. Lombardi** (M.E.) wrote *Echoes* an interesting note in early May. "A little less than a year ago, I packed my bags and left the madness of the city (Boston) to pursue a life of vitality Downeast in Maine. At present I am in the process of building a residence and a manufacturing facility on my ten acres of tall spruce overlooking the ocean. Much of the work is being done by myself due to that universal problem--lack of funds. My business, O. M. B. Engineering and Wood Products, deals primarily in alternative energy systems and custom wood design . . . with one financing the other. I'm looking forward to a nice warm summer after a long cold winter." Joe's new address is Pleasant Point, Cushing, ME 04563.

Echoes



**John A. Piper** (Math) has been admitted to the partnership of the Paris, Ill., law firm of Massey, Anderson and Gibson. The firm has six full time attorneys, one semi-retired and one paralegal. Though a general practice firm, John has started specializing in labor relations law. John earned his law degree from Indiana University and served the Paris firm as a law clerk and associate prior to being named a partner. He resides at 708 E. Wood, Apt. E, Paris, IL 61944.

**Joseph A. Vumbaco** (M.E.), formerly executive assistant with the Department of Public Utilities--Town of Wallingford, Conn., has recently been promoted to the position of assistant general manager and chief engineering for the Wallingford Electric Division. Joe, who earned an M.S. in business administration from the University of Hartford, is a registered professional engineer in the State of Connecticut and is currently vice president of the Connecticut Municipal Electric and Gas Association, a member of the American Power Association's Rate Committee and is a member of the Utility Operations Committee, Power Division of the American Society of Mechanical Engineers (ASME). He continues to reside at 1 Elm Hill Dr., Wallingford, CT 06492.

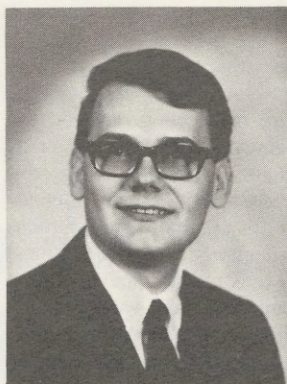
## '70

**Timothy J. Hollack** (Math) reports that he recently completed a project dealing with the computerization of scheduling Armco Steel Corporation's annealing facility. A record tonnage was established during the first month of operation of the system, prompting work to begin on the next project--power demand/control aimed at reducing electric bills by smoothing out the plant's power consumption. Tim continues to reside at 1160 Eaton Ave., Hamilton, OH 45013.

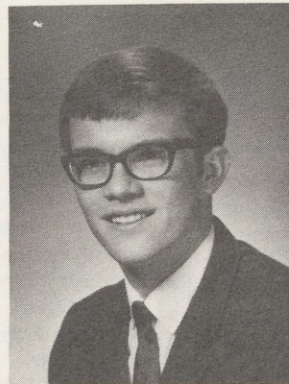
**Richard W. Moulton** (Math) writes an interesting note. "After a 20-month wait, our new daughter, Mindy Jane, arrived from Korea on Oct. 8, 1975. She was eight months old two days later. Her big brother Ricky (6) and sister Angie (5) think she's great! So do Nancy and I! I'm presently an intern at St. Michael Lutheran Church in Baltimore--about five miles from Bob Harrison, whom we see frequently. In the fall, it's back to seminary in Columbus for my last year." Meanwhile, the Moultons' address is 9534 Belair Rd., Baltimore, MD 21236.

**David H. Wright** (M.E.) dropped *Echoes* a concise note updating information. Dave is currently assistant project manager for Bundy Engineering Company in St. Louis, consultants specializing in cement and lime industries, worldwide. He formerly was associated with Drinkhouse Engineering as a project engineer. Wright and his wife Lauri reside at 420 Karen St., St. Charles, MO 63301.

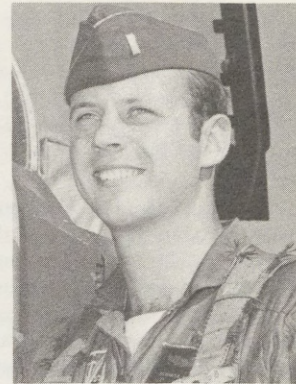
**Summer 1976**



**Piper**



**Shutske**



**Williams**

**Capt. Michael A. Schuck** (Physics) and Mrs. Schuck announce the birth of a daughter, Kearson Louise on January 13. Mike is still stationed at White Sands Missile Range in New Mexico. The Schucks reside at 100 Rossford Ave., White Sands Missile Range, NM 85002.

**Sidney L. Stoffer** (E.E.) completed an M.B.A. finance at Indiana University in December and since has accepted a position with Ford Motor Company in Dearborn, Mich., as a financial analyst. Sid states that he will be in a training program for two years and will hold five or six assignments. His new address is 2262 Woodview, Apt. 374, Ypsilanti, MI 48197.

**Michael E. Schubel** (M.E.) continues as a project engineer in jet engine control and accessories and a structural analyst at Wright-Patterson Air Force Base in Dayton. He and his wife Kathy and year and one-half old daughter Megan reside in Dayton. The Schubels are expecting another baby in November. Mike keeps in touch with a number of alumni in the area. "I occasionally get together with Dave Anderson, D. J. Cordero and Dean Spear, all of whom also work at WPAFB. We also see Denny Rogers every once in awhile. He lives in the Cincinnati area and works at G. E. in Evandale." The Schubels reside at 7749 Harshmanville Rd., Dayton, OH 45424.

**Dr. Greg Shutske** (Chem) is now working as a research chemist for Hoechst-Roussel Pharmaceuticals, Inc., in Somerville, N. J. Greg completed a Ph.D. in organic chemistry at Indiana University in May of 1975. The Shutskes (Greg, Kathy and son, Matthew) spent the summer at Aberdeen Proving Ground, Maryland, fulfilling Greg's R.O.T.C. commitment and then went to work for Hoechst-Roussel. Their address is 20 Poe Ave., Somerset, NJ 08873.

**Capt. Richard E. Williams** (M.E.) reports that he is "still with the USAF flying F-4 Phantoms in England. We are expecting our first child in September." The Williams may be corresponded with at 92 TFS, Box 1016, APO New York, NY 09755.

## '72

**Richard M. Christman** (M.E.) is working as a business economics analyst in the corporate planning area for the J. I. Case Company in Racine, Wis. Rich left Ford Motor Company after completing an M.B.A. at the University of Michigan. His new address is 3657 Green St., Racine, WI 53402.

**Geoff J. Germane** (M.E.), who married Sydney Larsen of Long Beach, June 22, is working on a Ph.D. in mechanical engineering at Brigham Young University. Last available address was 242 ESTB, Brigham Young University, Provo, UT 84602.

**Thomas F. Gruenholz** (M.E.) has changed jobs and is now working as an industrial engineer for Michelin Tire Corporation in Sandy Springs, S. C. "I started to work in May '75 and completed eight months of training at the Michelin factory in Stoke-on-Trent, England. I am presently building a house and will be living in Anderson, SC."

**Keith D. Roberts** (Ch.E.) became adjutant of the 20th Engineer Battalion at Fort Campbell, Ky., in January. He and his wife became parents of a boy, Gregory Daniel, April 18, 1975. The Roberts reside at Evans Road, R. T. 3, Clarksville, TN 37040.

**Joseph R. Rodriguez** (M.E.) has moved to Santa Anna, Calif., and a position as sales engineer for the Semiconductor Division of Texas Instruments, Inc. Prior to the move he was a business consultant for Arthur Anderson Company in Colorado and Ohio. His new address is 2827 Fairview, Santa Anna, CA 92704.

**Robert "Buzz" Scharringhausen** (M.E.) has left the Los Angeles County Flood Control to assume a position as senior scheduling engineer with Holmes and Narver, Inc. At the time of his note, Buzz was on temporary status at the firm's Las Vegas office awaiting departure for Saudi Arabia to work on a Holmes & Narver contract with the Arabian-American Oil Company (ARAMCO) building construction operation centers for a future pipeline.



**Joe D. Hewitt** (Math-Econ) and his wife are the parents of a second child, Amy Lynn, born Feb. 23. Brother P.J. is now five. Joe continues as a senior pricing analyst for the Hyster Corporation parts depot in Danville, Ill. The Hewitts reside at R.R. 1, Williamsport, IN 47933.

**2nd Lt. Michael B. Lammey** (C.E.) and his wife, Barb, announce the birth of a son, Bart Travis, Jan. 21. Mike is currently stationed at Fort Eustis, Virginia, where he is assigned to the military traffic management command which includes responsibility for traffic engineering services for military posts, ports and airfields. Lammey continued his education at Northwestern University, earning an M.S. in transportation planning. Prior to entering the military he was associated with a Toronto-based Candaiana management consulting firm in its transportation division. The Lammey's current address is 1120-B Thompson, Fort Eustis, VA 23604.

**Robert J. Marks, II** (E.E.) has completed his first year of study toward a Ph.D. in electrical engineering at Texas Tech University in Lubbock. Bob decided on Texas Tech through graduate work in optics (holography) while working at the Crane (Ind.) Naval Weapons Support Center. "Why Texas Tech?" says Bob. "Well, Tom Krile did some consulting down here for a couple of summers in optics and that's how I found out about it . . . . It turns out Tech got a grant to further investigate the same topic that I did my masters thesis. So, the research assistantship was kind of a tailor made opportunity." Bob notes that he and his wife Connie like Texas all but when New Mexico decides to visit in the form of a dust storm. The Marks reside at 2215 5th St., Apt. 10, Lubbock, TX 79401.

**Richard S. Pappa** (M.E.-Aero) and his wife, Luci, announce the birth of a daughter, Susanna Lucinda, born May 5, 1975. Rich, meanwhile, continues work on a Ph.D. from Old Dominion University. He is doing his research at the NASA-Langley Research Center near Hampton, Va. The Pappas reside at 17 Granella St., Hampton, VA 23669.

**Ronald D. Westby** (M.E.) is assistant to the Secretary of Defense-Comptroller in Washington D.C. Ron, who previously had served as special assistant to Indianapolis Mayor Richard Lugar, has completed an M.S. in economics from Princeton University. Ron, you will recall, studied M.E. for three years at Rose-Hulman. His senior year was spent with a group of outstanding students from across the U.S. selected for New York City's Urban Fellowship Program. His current address is 1111 Army Navy Drive, Apt. C 909, Arlington, VA 22202.

**John R. Wingard** (Ch.E.) is a consulting engineer for Myers Engineers of Decatur, Ill. John also reports the birth of a daughter, Heather Ann on April 14. The Wingards current address is 415 Wildwood Drive, Mt. Zion, IL 62549.

## '73

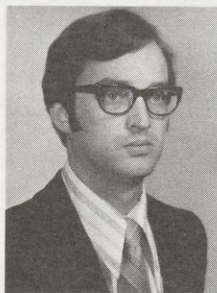
**David M. Augenstine** (Ch.E.), associated with Pedco Environmental, Inc., of Cincinnati, pens the following note: "I've received my M.S. in environmental engineering (University of Cincinnati) and am now working for a consulting firm, writing technical publications for the EPA. I've been busier, however, with biblical research and teaching (from critical texts) through the Way Ministry and manifesting the more than abundant life." Dave resides at 8301 Cincinnati Day Highway 310-E, West Chester, Ohio 45069.

**Gary C. Elfring** (Bio.E.) has received an M.S. degree and is presently working at Doll Research, Inc., in New York. Prior to the move Gary was a private consultant and student in Raleigh, N. C. Gary reports that he also is a partner in a corporation which makes computers for hobby and home use. His current address is 15 Russell Dr., Apt. E-38, Mineola, N.Y. 11501.

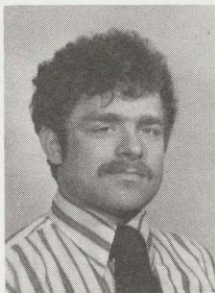
**Capt. Thomas F. Hans** (C.E.) reported to the 12th Engineer Battalion of the Eighth Infantry Division in Dexheim, Germany July 8 to complete his tour of duty with the United States Army. Tom visited Rose-Hulman on a number of occasions during his leave between an 18-month tour in Korea and the European assignment. While in Korea he was a pilot and section leader and logged 1,000 hours of flying time. His tour in Europe is to be a ground assignment with the Corps of Engineers. Mail may be directed to Tom at R.R. 1, Box 7, Worthington, Ind. 47471.

**Eugene Tonetti, Jr.** (Bio.E.) has joined Drew Chemical, Inc., in Louisville as a field sales representative with the Water and Waste Treatment Division. Prior to the move in March he was associated with Firestone Industrial Products, Inc., of Noblesville. Drew Chemical is a subsidiary of U.S. Filter Corporation. Tonetti's new address is 501 Quails Run, Apt. C-3, Louisville; KY 40207.

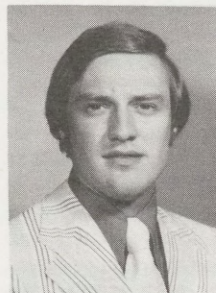
**Kenneth E. Shores** (Chem) has begun a Ph.D. program at the University of Cincinnati College of Medicine and Biological Chemistry. He reports that he and his wife, Rosemary "keep quite busy, but we do get enough time to sail, canoe and camp." Ken completed a masters in chemistry at Xavier University in 1975. The Shores reside at Apt. 3, 520 Greenfield Lane, Erlanger, Ky. 41018.



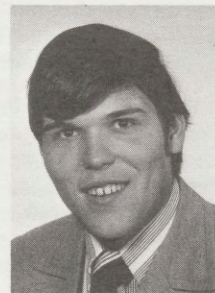
Krampe



Denlinger



Moorman



Bradley

## '74

**Stanley K. Ault** (Physics) received an M.S. from the University of Illinois in January and is continuing research in plasma physics toward a Ph.D. His current address is 2704 East Washington St., Urbana, IL 61801.

**Daniel E. Denlinger** (M.E.) has taken a position with the Delco-Morain Division of General Motors in Dayton as a reliability engineer. "This has been a very good move since both my wife and I are from Dayton," says Dan. Dan joined Eaton Corporation upon graduation and since has been assigned to the company's research center in Detroit, the automotive air conditioning division in Harrodsburg, Ky., and the lock and hardware division in Charlotte, N. C., and Knoxville, Tenn. The Denlingers also report the birth of a son, Andrew Nicholas in March, 1975. "He is really husky, 27 pounds on his first birthday," says Dan. The Denlingers reside at 4605 Groffshire, Kettering, Ohio 45440.

**Steven K. Bradley** (M.E.) has been transferred to Mt. Vernon, Ind., where he is working as a tool engineer in the Nuclear Equipment Division of Babcock & Wilcox Company. He had formerly been assigned with the company in Barberton and Akron, Ohio. His current address is 819 Church St., New Harmony, IN 47631.

**Gregory E. Dunn** (E.E.) has joined the Naval Avionics Facility in Indianapolis following an 18-month stay with Leeds & Northrup Company as a sales engineer. Greg's address is 7053 McIntosh Lane, Apt. 1-C, Indianapolis, Ind. 46226.

**John M. Krampe** (M.E.) pens a note on a new position. "I have recently moved to a new position within PWR-SD (the nuclear power group of Westinghouse Corporation). I am currently working in the structural materials engineering group, providing thermal and hydraulic support for fracture mechanics analysis of reactor vessels. The work is very interesting and challenging." John's address is 214 Carriage Dr., North Huntingdon, PA 15614.

**Philip L. Quackenbush** (Math) has left McDonnell Douglas in favor of earning a B.S. in mechanical engineering, at Purdue University. Phil, who is serving as a dormitory counselor, expects to compete the degree in 1977. His current address is Box 769, Tarkington Hall, West Lafayette, IN 47906.



Rex Mook '74

## ... Our Man Down Under

"Goodday, mate! That's how Australians say hello to friends."

This is the manner in which Rex W. Mook, a 1974 graduate in mathematical economics, sends a cheery greeting and brief description of a year of graduate study in Australia under the auspices of Rotary International.

Rex is studying at the University of New England in Armidale where he will earn a diploma in agricultural economics. According to Rex, the work is a one-year course (the length of my scholarship) and is similar to one-half a master's degree.

Bringing *Echoes* up to date on his career since graduation, Rex said, "I worked for Goodyear as an industrial products salesman for about one year and three months. My employment took me to Denver, Colorado where I lived for one year (and loved it!).

"I had been working on a Rotary Club Graduate Fellowship while employed and received word that I had been chosen to receive one while in Denver. The terms of the scholarship were that I was to select anywhere in the world to do graduate work and get accepted by the institution of my choice, then Rotary would pay for

everything (including round trip airfare, room, board, fees and travel).

"Dr. John Ying, Jess Lucas, Ralph Ross and others at Rose were certainly helpful in assisting me with getting accepted by this university, Rose has my sincere thanks for making this opportunity possible."

Rex notes that he is involved in a number of activities in Australia, including sports, travel and photography.

"In sports, I am a member of the university golf team. We finished second last month (May, 1976) in the Australian University Championships. I was the only American in the tournament... finished undefeated in match play.

"I am also fortunate enough to have been selected captain of the university basketball team. I'll start at guard at the university championships held in Tasmania in August (Rose could probably beat us in basketball)."

Rex says he is keeping Eastman Kodak in business with the many pictures he has taken in trips to Sydney, Brisbane, Adelaide, Canberra and Surfers Paradise.

He has kept up with the happenings at Rose-Hulman through his parents who visited him in May.

**Lt. Steven N. Sims** (Bio.E.) is serving as firing battalion leader of Battery D, 3rd Battalion, 68th Air Defense Artillery at Homestead Air Force Base, Florida. Prior to the present assignment Steve served eight months at the Tactical Director's office of the Air Defense Command Post and eight months as executive officer of Battery D, 3rd Battalion. He is an honor graduate of the chemical, biological, radiological officer course at Aberdeen Proving Ground, Maryland. Sims was married to Sheila Horlacher, a 1975 graduate of Indiana State University, on June 21, 1975. The couple resides at 14208 S. W. 275th St., Naranja, FL 33030.

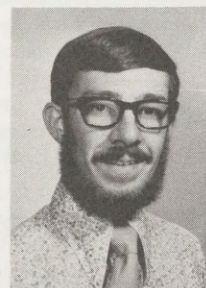
**Stephen A. Moorman** (M.E.) is "On the Road" for Babcock & Wilcox Company and as of this writing was working at a fossil fuel plant the firm is working with in Hazen, N. D. Steve has had assignments in Vicksburg, Miss., Tulsa and Oklahoma City, Houston and Dallas since joining the company. Mail may be directed to Steve by sending it to Park Central Building, No. 226, Dallas, Texas 75251.

## '75

**Bruce Crum** (M.E.) jotted us a note sometime in early May which said, "... Will marry JoAnn Wilson of East Peoria, Ill., on May 22, 1976, thus ending his life as a bachelor and knurd." Bruce is a mechanical engineer in the research and development department of Caterpillar Tractor Company in Peoria. The Crums reside at 1501 E. Garner Lane, Peoria Heights, Ill. 61614.

**Gregory M. Hausman** (Ch.E.) has been promoted to staff chemical engineer at A. E. Staley Manufacturing Company's new plant in Lafayette, Ind. Greg had no new address in Lafayette at the time of the note. The most recent address on file is 1305 W. Main St., No. 3, Decatur, Ill. 62522.

**Jerry Tiefel** (Bio.E.) is working as a project coordinator for Howard Needles Tammen & Bergendoff on a project the consulting firm is engaged in Princeton, Ind. While assigned at the firm's Indianapolis office, Jerry started work on an M.B.A. at Indiana University. He plans to continue the work at Indiana State University. The Tiefels reside at 330 South Court St., Sullivan, Ind. 47882.



Crum



Tiefel



# In Memoriam

'03

**H. Edmund Wiedemann** (Ch.E.), retired consulting engineer and chemist and co-founder of the St. Louis chapter of the American Chemical Society, died March 17 in St. Louis following a lengthy illness. Having formerly worked with Morris & Company and the State Food and Drug Department of Missouri, he had also worked as a consulting engineer and chemist for 46 years.

'11

**Herbert C. Offutt** (C.E.) died May 12 in Youngtown, Ariz. Prior to his retirement he was a sales engineer for Marathon Oil Company.

'12

Word has been received of the death of **Louis Nagel** (Ch.E.) in Bakersfield, Calif. The date of death was not available at press time.

'14

**George M. Derr** (Arch.), retired district sales manager for Republic Steel Corporation, died Feb. 21. He resided in Kensington, Md., at the time of his death.

'18

**Carl E. Geiger** (Ch.E.), a retired chemist for Jones-Smith-Geiger, Inc., died Oct. 17, 1975 following a brief illness. He resided at Floyds Knobs, Ind., a small town which has produced a bumper crop of Rose-Hulman students in recent years, including Mr. Geiger's grandson, Mark Geiger, a junior.

**Andrew Yatsko** (E.E.) died April 1 at his home in Racheco, Calif. Prior to his retirement he was associated with General Electric Company.

**C. Ray Decker** (E.E.) died July 10 in Gary, Ind. He was associated with the Atlas Cement Company, a division of United States Steel Corporation in Gary as chief electrical engineer.

'19

**Lester S. Stinson** (M.E.) died March 23 in Pittsburgh, Pa. Prior to his retirement in 1962 he was affiliated with the Elliot Company in Jeanette, Pa., as manager.

'20

**T. Andrew Brophy** (C.E.) died Jan. 28 in Chicago. A consulting engineer for a number of years, he was associated with the Arthur McKee Company of Chicago.

'22

**Ernest O. Hunt** (Arch.) died May 19 in Sebring, Fla. Prior to his retirement he was owner of his own general contracting firm.

**Sterling H. Pittman** (E.E.), owner and president of Pittman Office Supply Company of Terre Haute for nearly 40 years prior to his retirement in 1973, died April 5 in Terre Haute. Active in alumni affairs, he had served as the alumni representative on the Board of Managers and as chairman of a number of RoseTech standing committees.

**Hubert E. Reed** (Ch.E.) died March 15 in Vincennes. Prior to his retirement he was a chemist for Texaco Company in Lawrenceville, Ill. He had been honored in the fall for having directed the Vincennes Otterbein United Methodist Church choir for 50 years.

## Memorials

Memorials have been established for the following alumni:

George M. Maier '16  
Robert D. Phelps '41  
Andrew Yatsko '18  
Kearney E. Harms '22  
John S. McBride '05  
James M. Richardson '43  
George M. Derr '14  
Frederick F. Sherry '49  
H. E. Heideman '03  
Francis C. McCormick '51

'32

**Albert L. Ahlers** (M.E.), retired vice president of Container Corporation of America, died June 19 at his home in Louisville. Ahlers had been an engineer for the former Mengel Company from 1938 until it became a division of Container Corporation in 1960. His last position with the corporation had responsibility for plants in Louisville, Cincinnati, Lexington and Anderson, Ind.

'34

**H. Loren Thompson** (C.E.), recently retired president of Stevens, Thompson & Runyon, Inc., a leading consulting engineering firm of the Pacific Northwest, died June 23 in Portland, Ore. Thompson, whose career included civil engineering teaching at Michigan State, the University of Idaho and Northwestern University, entered private practice in 1946 and had headed the firm since 1961. He was named an Honor Alumnus in 1972 and last year was awarded the honorary Doctor of Engineering degree from Rose-Hulman.

'35

**John E. Hartmann** (X-M.E.), president of Hartmann Co., Inc. a roofing and sheet metal contracting firm of Terre Haute, died May 7 in Terre Haute. Active in alumni affairs, he was awarded an honorary master of engineering from Rose-Hulman on the occasion of the Schmidt Memorial Lecture in 1974.

'42

**George W. Rohrig** (E.E.) died of a heart attack Dec. 18, 1975 at his home in Muncie. He was affiliated with Westinghouse as a design engineer.

'47

**Loren H. Pittman** (M.E., Dec.) died April 13 in Dayton, Ohio. He was an operations analyst for Wright Patterson Air Force Base in Dayton.

'49

**Paul C. Hill, Jr.** (M.E.) died April 22 in Charleston, W. Va. He was a senior engineer for Union Carbide Corporation, having last been assigned in Charleston.

Echoes



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