

Summer 1973

## Volume XII - Issue 2 - Summer, 1973

Echoes Staff

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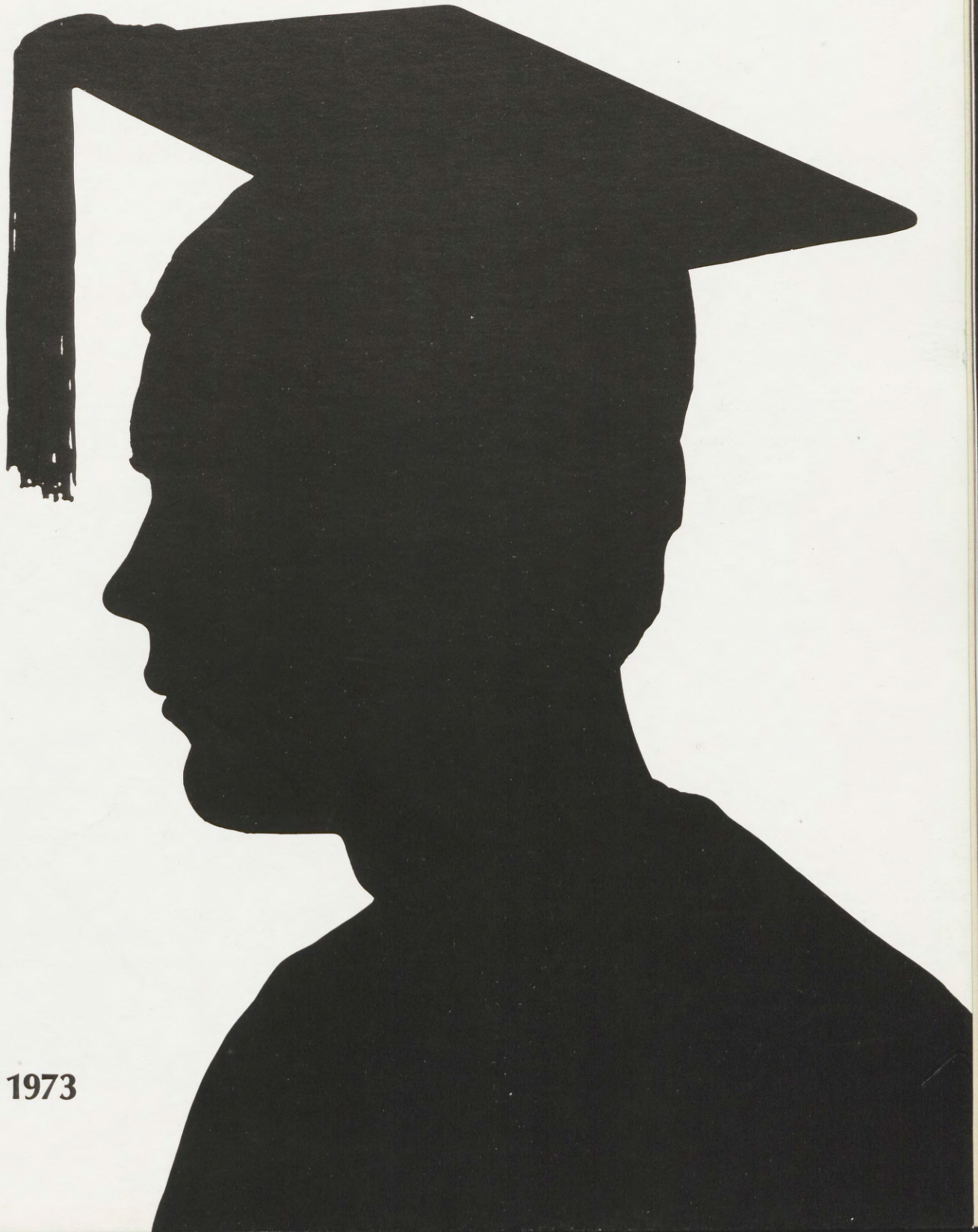
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# ECHOES

Rose-Hulman Institute of Technology



Summer 1973



# ECHOES

ALUMNI MAGAZINE

Summer, 1973

Vol. XII, No. 2

## ROSETECH ALUMNI ASSOCIATION

### EXECUTIVE OFFICERS 1972-73

Vern E. Whitehouse 40, President  
Frederick J. Bogardus 32, Vice Pres.  
Anthony G. Blake 31, Sec.-Treas

### COMMITTEE CHAIRMEN

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Fund Raising John C. Fenoglio 59  
Student Recruitment

Fred W. Goetsch 57

Rose Tech Clubs Vern W. Fellows '62  
Awards and Recognition

Richard A. Mullins '40

Continuing Education

Richard L. Brown '59

Senior Orientation

Thomas L. Reese '58

### ALUMNI MEMBERS OF THE BOARD OF MANAGERS

Adam K. Grafe '25

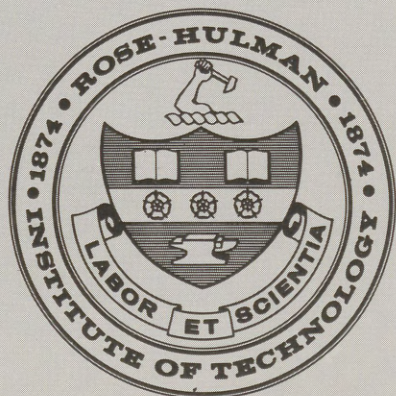
1970 to Annual Meeting 1974

John T. Newlin '43

1972 to Annual Meeting 1976

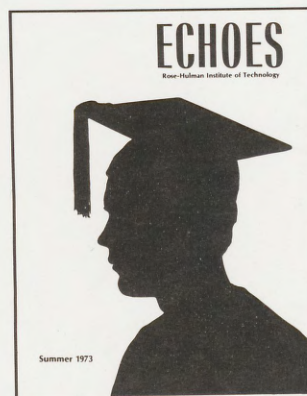
W. Kent Harris

Editor



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## The Cover

The Summer issue of the *Echoes* covers Commencement '73 and officially welcomes the Class of 1973 to the alumni body of "Dear Old Rose." A silhouette of a '73 graduate is our cover.

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# Welcome, Class of 1973

The Class of 1973--largest in the history of the Institute--has taken its place of honor among the alumni of Rose-Hulman Institute of Technology.

What kind of man is the graduate of 1973? We suppose he is much like those who have preceded him at Rose-Hulman. Generally, he is a first-generation college graduate... he is uncommonly well grounded in the fundamentals of engineering and science ... and he fits the mold of a "Rose man"--confident, enthusiastic...

The Summer issue of the *Echoes* provides coverage of Commencement and reports some of the milestones attained by the Class of 1973. Some of the highlights include 1) presentation of the Heminway Medal to Gary Kelm for a perfect 4.0 average and the Royse Award to Gary Dougan and Bill Randall for their outstanding contributions as undergraduates; 2) seven of fourteen graduates applying to medical school will be pursuing medical studies this fall; 3)

senior mechanical engineers prove their worth by winning "REV '73"--design competition for multi-terrain vehicles, and 4) the senior-laden Engineer track and field team goes undefeated in dual and triangular competition.

Alumni, of course, are always in the news in the *Echoes*. Robert Shattuck '36, recently retired Borg-Warner executive, and Major General John Appel '41, director of logistics for the U.S. Army in Europe, were given the highest distinction bestowed by the Institute-- Doctor of Engineering.

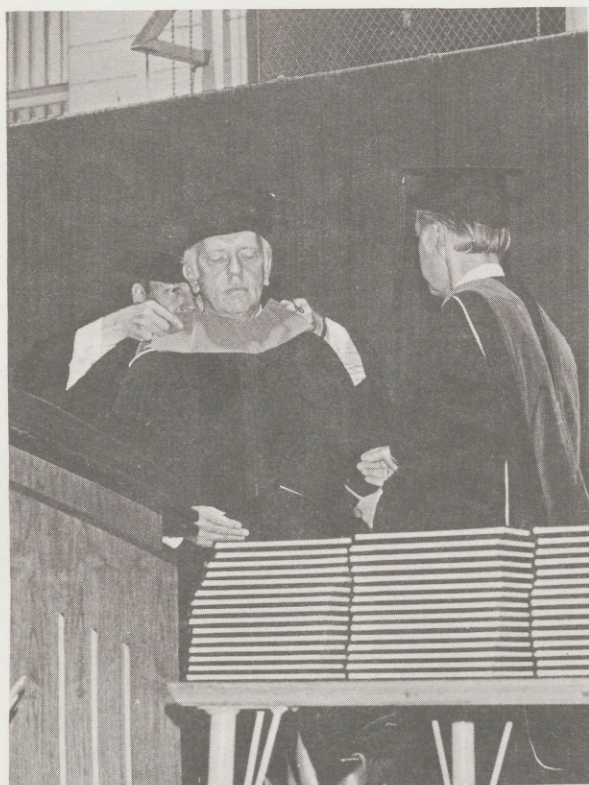
Robert L. Voges '47 was elected to Rose-Hulman's Board of Managers in May, while board member Burt F. Raynes '37 delivered the annual Oscar C. Schmidt lecture on free enterprise and received the annual Chauncey Rose Medal for his contributions to the American way of life.

Come with us now as the 243 members of the Class of 1973, alumni and others pass across the stage in Shook Fieldhouse during Commencement '73.



Summer 1973





Presented by  
**Dr. Sam C. Hite, Chairman**  
 of chemical engineering and chemistry...

**ROBERT SHATTUCK**  
**Doctor of Engineering**

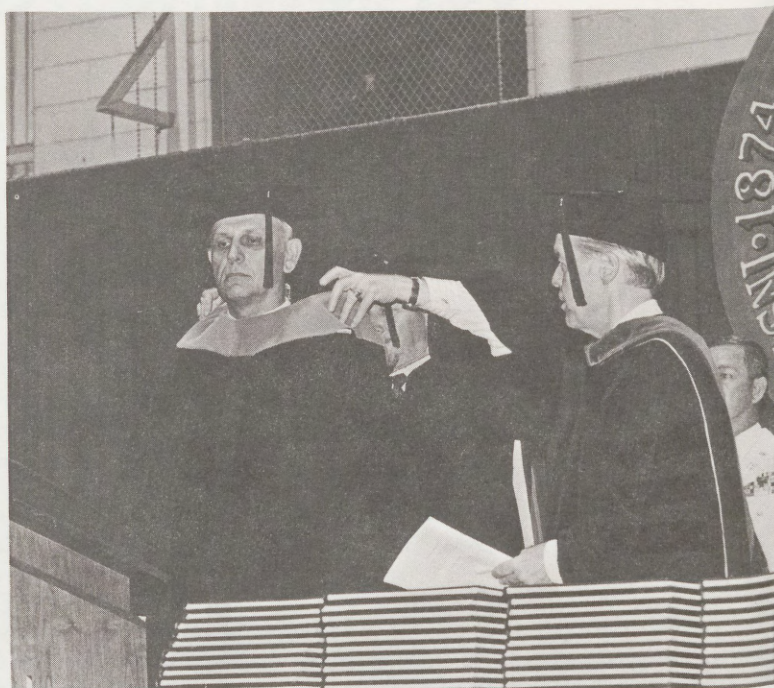
Mr. President, on behalf of the Board of Managers of Rose-Hulman Institute of Technology, I am most pleased to present to you Robert Shattuck for the degree of Doctor of Engineering. The conferring on him of this degree is in recognition of his achievements in the field of engineering administration and management.

A native of Clinton, Indiana, he was graduated from Rose Polytechnic Institute in 1936. With his degree in Chemical Engineering and a lot of enthusiasm, he joined the U.S. Gypsum Company. In his short stay (1936-1942) he moved rapidly ahead with U.S. Gypsum. He joined the Borg-Warner corporation in 1942 as assistant general manager of the Marbon Chemical Division. He was named vice president and general manager of this division in 1944 and became president in 1953. Continuing his advancement through the management ranks, he moved to corporate headquarters in Chicago

in 1963 to serve as group vice president in charge of chemical operations. He was elected executive vice president in 1966 and a director of the corporation in 1968. Prior to his retirement this month, he was executive vice president - corporate development coordinating Borg-Warner's long-range planning objectives.

Even with his busy schedule he still found time for his wife and son, his community and his Alma Mater. He has served as President of the Gary Rotary Club, general chairman of the 1953 Gary Community Chest Fund Drive and president of both the Rose Tech Club and the Rose Polytechnic Alumni Association. A member of the Rose-Hulman Board of Managers since 1960, he was named an Honorary Alumnus in 1968.

In recognition of his eminence in the profession of engineering management, the Board of Managers of Rose-Hulman Institute of Technology presents on this 25th day of May in the year 1973, Robert Shattuck for the highest award of the institute, the degree of Doctor of Engineering.



Presented by  
**Col. Robert L. Gilmore,**  
 professor of military science ...

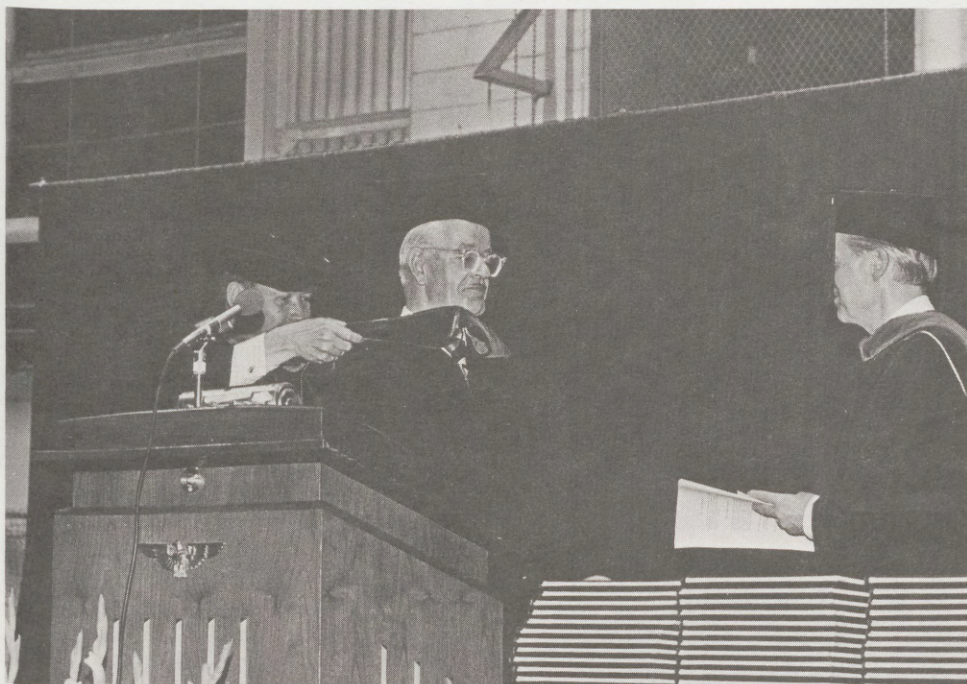
**MAJOR GENERAL JOHN GLENN APPEL**  
**Doctor of Engineering**

Mr. President, on behalf of the Board of Managers of Rose-Hulman Institute of Technology, I am privileged to present to you Major General John Glenn Appel for the degree of Doctor of Engineering. General Appel has truly distinguished himself as an officer in the United States Army and the Chemical Corp.

A native of Terre Haute, General Appel was graduated from then Rose Polytechnic Institute with the class of 1941 and commissioned from the ROTC program as a second lieutenant in the United States Army Chemical Warfare Service. Shortly after graduation, Second Lieutenant Appel began a career which would eventually see him occupying what has been recognized as the position of Chief Chemical Officer of the Army. In the intervening years, however, General Appel demonstrated why he so richly deserves this honor today. During World War II, he played a major role

**Echoes Alumni Magazine**





**Presented by**  
**Dr. Calvin R. Dyer, chairman**  
**of humanities and social science...**

in training the men that would swell the ranks of the Chemical Warfare Service some tenfold. He then commanded units of these men in Europe. Subsequent assignments for General Appel were in research and development, as Chief Chemical Officer in the Panama Canal Zone, Commander of a procurement district, and to an assignment as the first Chemical Corps officer on the faculty of the Armed Forces Staff College operated by the Joint Chiefs of Staff. Later he was to command the Pine Bluff Arsenal in Arkansas, and the Deseret Test Center in Utah, which he operated for all the Armed Forces. As a capstone to his outstanding military career, General Appel was designated as the Director of Logistics for our approximately 300,000 US troops in Europe, the position he now holds.

In recognition of his service and contributions to the United States Army and his country for over thirty years, it is a pleasure to present Major General John Glenn Appel for the honorary degree of Doctor of Engineering.

**Summer 1973**

**GLADWIN HILL**  
**Doctor of Laws**

Mr. President, it is my privilege to present Mr. Gladwin Hill for the Doctor of Laws degree, in recognition of his achievements as a correspondent and environmentalist.

A graduate of Harvard University, Mr. Hill began his distinguished career in journalism as a reporter and feature writer for the *Boston Transcript*. He served as a roving reporter for the Associated Press from 1936-42, and as war correspondent for the Associated Press from 1942-44.

In 1944 he joined the *New York Times*, and became the first correspondent to fly into Germany on a U.S. bombing mission.

*At this point presenter Dyer broke the ice a bit with the interjection: "Three hundred yards ahead of Walter Cronkite."*

From 1946-69 Mr. Hill served as *New York Times* Los Angeles Bureau chief; since 1969 he has been National Environmental Correspondent for the *New York Times* and has written extensively on problems of water and air pollution.

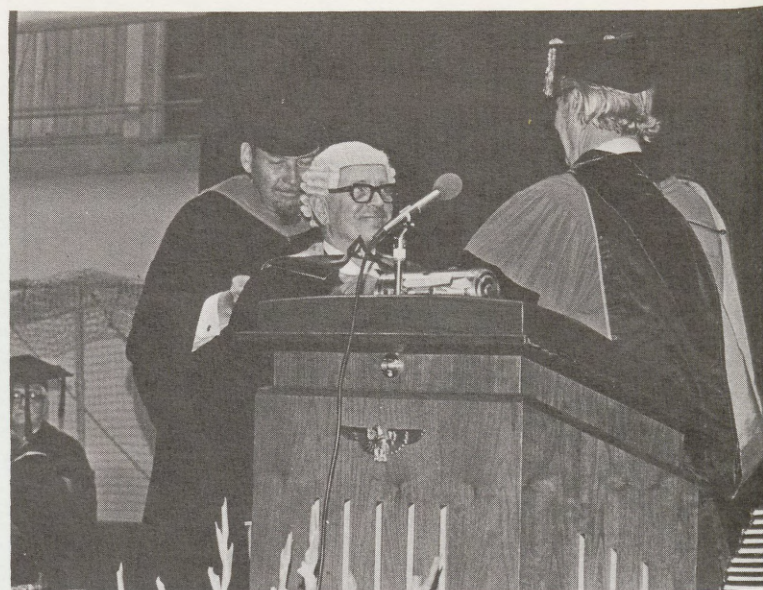
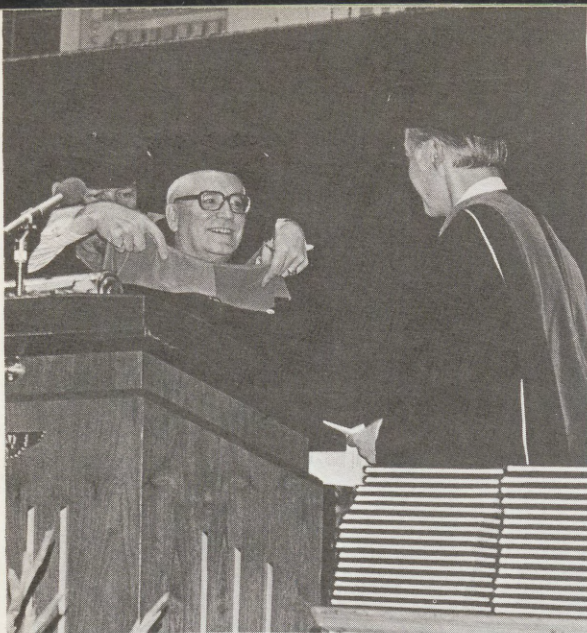
In recognition of his dedication to improving the quality of life in America, the Board of Managers of Rose-Hulman Institute of Technology presents Gladwin Hill, Environmental Correspondent of the *New York Times*, for the degree of Doctor of Laws.

**Presented by**  
**Dr. Noel E. Moore,**  
**professor of chemical engineering...**

**JACK EDWARD MCKEE**  
**Doctor of Engineering**

Mr. President, on behalf of the Board of Managers of Rose-Hulman Institute of Technology, it is my pleasure to present to you Jack Edward McKee for the degree of Doctor of Engineering.





This degree is being conferred on him in recognition of his outstanding achievements as an environmental engineer.

Dr. McKee received his BS degree in Civil Engineering in 1936 from what is now Carnegie-Mellon University. He then earned Master's and Doctor's degrees from Harvard University, in the field of Sanitary Engineering. He joined the faculty of the California Institute of Technology in 1949, following professional experience with the U.S. Public Health Service, the U.S. Army Corps of Engineers, and as a partner in a consulting engineering firm. At the present time, he is a Professor of Environmental Engineering at the California Institute of Technology.

Dr. McKee's contributions to his profession have been duly recognized, and many special awards and honors have been granted to him by universities and professional societies. He has served on many national and regional committees and advisory groups, and has published many papers in professional journals. In 1969, he was selected for membership in the National Academy of Engineering.

In recognition of his service to the profession of engineering, his concern for solving environmental problems, and his value as an esteemed consultant and advisor, the Board of Managers of Rose-Hulman Institute of Technology presents, on this 25th day of May, in the year 1973, Jack Edward McKee for the highest Award of the Institute, the degree of Doctor of Engineering.

**Presented by**  
**Benjamin G. Cox, chairman**  
**of the Board of Managers**

#### **GRAHAM DON** **Doctor of Laws**

Mr. President, on behalf of the Board of Managers, I have the privilege of presenting to you, the Honourable Graham Don, Judge Juvenile Court Bench, West Ham, London, England.

Judge Don, a native of Glasgow, Scotland, after having received post-graduate diploma from Royal Technical College, Glasgow in 1931 was also called to the Bar in 1946 by Honourable Society of Grays Inn. He has, for over forty years been engaged and dedicated to a career of public service, not in a single profession, but in the professions of science both academic and in the practice and of law, including the judiciary.

In science and engineering, Judge Don has served with distinction as Health Officer of Glasgow and Ashton-under-Lyne, Lancashire; Chief Health Officer and Housing Manager, of Whickham, County Durham; as Lecturer in Public Health in London School of Hygiene and Tropical Medicine, University of London, in Queen Elizabeth College, London, in Imperial College, London, in the School of Public Health, Ankara, Turkey, and in Delft, The Netherlands, and in Child Care at Guy's Hospital Medical School. He has served as appointed consultant in

Public Health to the Government of Mauritius, Ross Institute of Tropical Hygiene in East Africa, Iran, Malaysia, to the United States Government and the British Foreign and Commonwealth Office in Bermuda, Ghana, and Malaysia.

In law and the judiciary, Judge Don, since appointment to Juvenile Court Bench, West Ham, London in 1950 has become and is Chairman since 1960, Chairman West Ham Probation Committee since 1960, West Ham Case Committee since 1960 and a member of Appeals Committee, Newham since 1962 and of Central London Probation Committee since 1961.

Judge Don is a member of the Royal Society of Medicine, London, Royal Society for the Promotion of Health, London, Howard League for Penal Reform, National Association of Probation Officers, and Royal Town Planning Institute.

Judge Don has contributed throughout an illustrious and diversified career to the improvement of the social conditions, both scientific and humane under which mankind lives, through his dedication and capacities in both the fields of sanitary engineering and the judiciary and thus, merits recognition and acclaim. In recognition of his outstanding accomplishments, both in his native land and throughout the world, the Board of Managers presents on this 25th day of May, 1973, Judge Graham Don for the highest honor Rose-Hulman Institute of Technology can bestow - Doctor of Laws.

**Echoes Alumni Magazine**



## Commencement Message Hill Urges Grads To Join Fight For Environment

In his commencement address, journalist Gladwin Hill spoke on what he termed the "Environmental Revolution -- the greatest change of this age."

"Four or five years ago," he pointed out, "environment and ecology were almost unknown words to a good many people."

"For two hundred years, ever since the Industrial Revolution, we have been barrelling merrily ahead, wallowing in the benefits of technology and mechanization and mass production without paying attention to the cumulative side -- effects -- namely the progressive deterioration of our quality of life."

Then in 1969, two things occurred to spur the Environmental Revolution. One is the business of environmental reform -- steps to improve physical conditions. The other aspect has been a movement by the public to regain its rightful role in decision-making.

While the movements on college and university campuses across the country got most of the headlines, "The fact is that we have embarked, legislatively and administratively on a firm program to clean up pollution -- a national commitment that is going to cost \$287 billion in the current decade and that soon will be showing results."

"It's dawning on us and people in other parts of the world that on a planet that's never going to be more than 8,000 miles in diameter, the human race can't go on doubling its numbers every 30 years -- that we have to come to grips with the problems of population limitations."

Hill then called on the graduates to join the battle against pollution and other social ills. He suggested that the torpid, passive citizen who has only settled for paying his taxes and voting must go.

"The new-model citizen will be in there pitching," he predicted, "attending public hearings, ... hearings on water pollution and air pollution permits, hearings on freeway routings and national park policies."

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Dr. Herbert R. Bailey '45 (right) accepts the Dean's Outstanding Teacher Award from Dr. James B. Matthews '54, vice president of academic affairs and dean of the faculty.

Hill concluded, "The essence of revolution is the scrapping of outmoded ideas and forms and this development of new ones. This, too, is a game at which any number can play, peaceably and constructively. It's a game at which individuals of your age and imagination and energies have the biggest pile of chips. So -- welcome to the revolution."



Charles Mathes  
... Mr. Congeniality

## Bailey, Mathes Cited

One of the highlights of Commencement '73 was the presentation of special honors and awards.

Dr. Herbert R. Bailey '45, professor and chairman of the division of mathematics, received the Dean's Outstanding Teacher Award, while Charles A. Mathes, comptroller, was awarded the President's Outstanding Service Award.

Dr. Bailey, who returned to his Alma Mater in 1966 to become chairman of mathematics, holds two degrees from Rose-Hulman--a B.S. in electrical engineering in 1945 and a B.S. in chemical engineering in 1946. He since has earned M.S. degrees in electrical engineering and mathematics and a Ph.D in mathematics.

An excellent teacher with tremendous background for teaching at Rose-Hulman, Dr. Bailey relates well to students in and out of the classroom. Even members of the varsity tennis team should not take him lightly on the tennis or badminton courts.

Mathes, likewise, is impeccable in his speciality--keeping the books for Rose-Hulman.

He joined Rose-Hulman as comptroller in early 1964 following a number of years service with S. H. Pawley Lumber Company at the central offices in Terre Haute and other locations.

Mathes will retire from Rose-Hulman at the end of August.



## Heminway to Kelm for Perfect 4.0

Gary R. Kelm, only the fourth man in the history of Rose-Hulman to complete all work undertaken with a perfect 4.0 average, was presented the coveted gold Heminway Medal as the top man in the Class of 1973.

Kelm, a chemical engineer, won the bronze Heminway medal as a freshman (he shared this award with classmates Howard Hagan, Evansville, and Jim Hastings, Washington), the Bogard Prize as the top sophomore and the Wischmeyer Award after the junior year.

The native Terre Hautean also was a member and president of Tau Beta Pi, winner of the Pfizer Award as the outstanding senior chemical engineer, the CRC Award for chemistry, and was a member or nominated for "Who's Who Among Students of American Universities and Colleges," Blue Key, Omega Chi Epsilon, the American Institute of Chemical Engineers. He was a four-year letterman on the Engineers' track team.



**Gary Kelm accepts coveted Heminway Gold Medal**

*... Terre Hautean becomes 4th perfect 4.0 graduate*

## Dougan, Randall Share Royse Award

Gary D. Dougan, Holland, and William J. Randall, a pair of seniors who made some outstanding contributions to Rose-Hulman from the first day they stepped on campus to their last days as

seniors, shared the John T. Royse Award given annually for scholarship and overall contributions to the school.

Dougan, who was graduated with "high honors" in mechanical engineering, was a four-year starter and twice MVP in basketball in addition to a number of other activities.

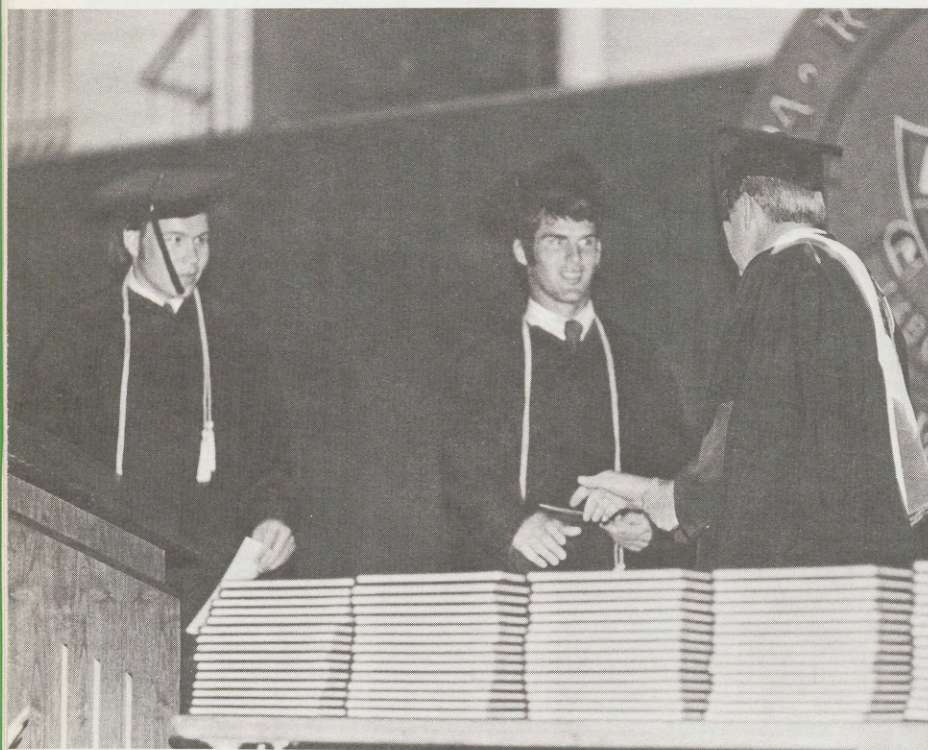
A member of Tau Beta Pi, Blue Key, "Who's Who," Pi Tau Sigma, and Sigma Nu social fraternity, Dougan was the driving force behind Rose-Hulman's winning float in the 1972 Indianapolis 500 Festival Parade.

To put in the words of Basketball Coach John Mutchner: "When you want something done, just give Gary the notion and he'll take it from there. he was fantastic on our European trip. He'd hustle out each morning, tie down the luggage and the rest would follow. . ."

Co-recipient Bill Randall, by contrast, took a different approach as an all-NAIA football safety, student body president and other leadership posts.

A man of very few words, Randall asserted his "quiet" leadership by nailing down the defensive safety slot during pre-season drills of his freshman year.

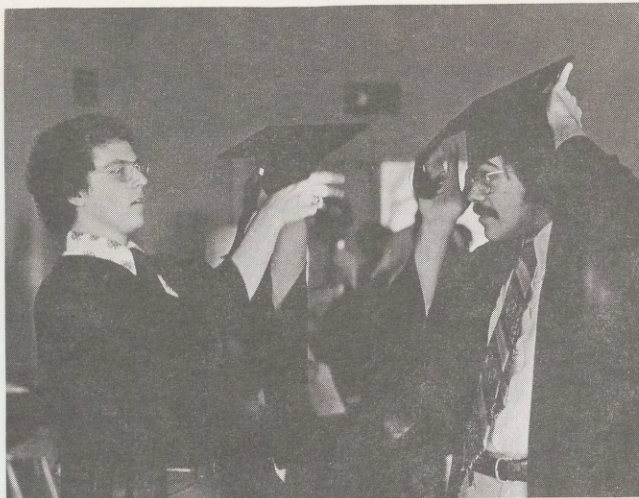
He worked steadily in Student Government posts as a freshman and sophomore and served as treasurer of the student Government as a junior. His election as student body president came as no surprise.



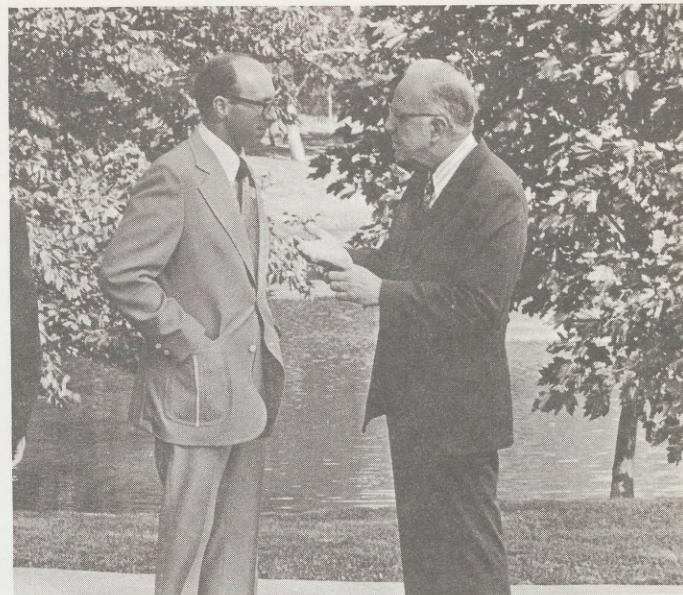
**Royse Award Winners Gary Dougan and Bill Randall**

*... Outstanding contributions to Rose-Hulman*





**Rob Entrekin, Dennis Antoline confer**  
*... I believe the flat part goes up*



**John White '47, Noble Blair '34 converse**  
*... Times were tougher in our day*

An honors student in mechanical engineering, Bill was initiated into Tau Beta Pi and Blue Key and was nominated for "Who's Who." Active in Alpha Tau Omega social fraternity, other memberships include Pi Tau Sigma and the American Society of Mechanical Engineers.

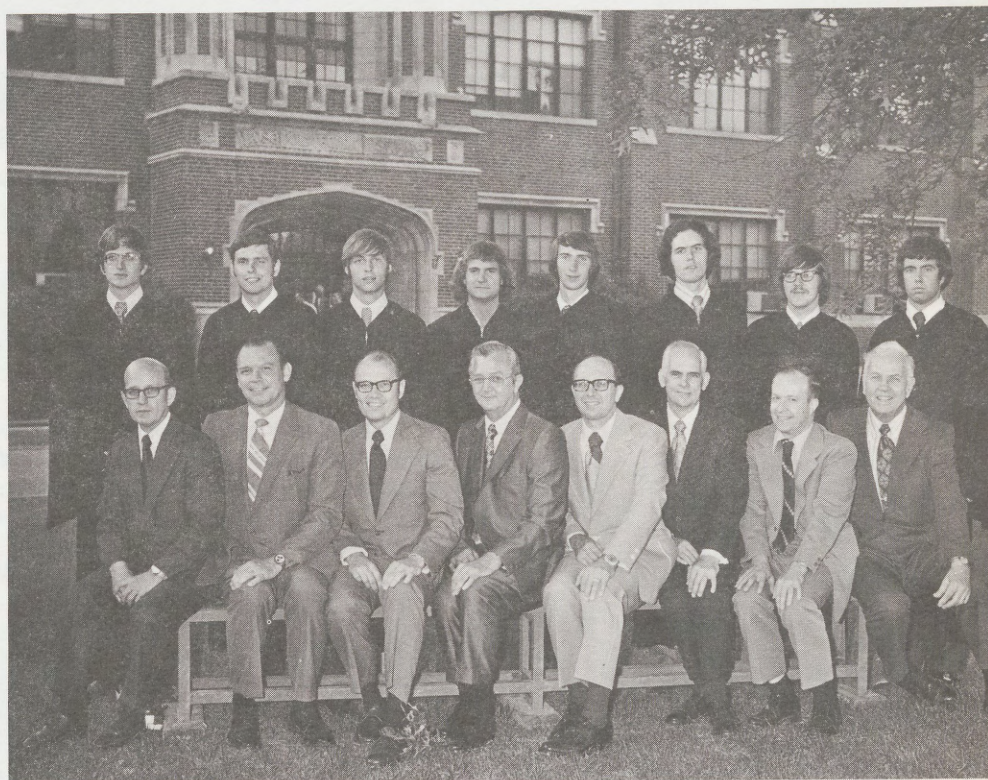
As an athlete, he was named the outstanding defensive back on three occasions and was twice honored by the NAIA, as well as serving as captain.

## 2 Degrees in 3 years!

Also of special interest was the conferring of a double degree on Steven R. Cook, Mt. Prospect, Ill., for work in electrical engineering and physics.

To be sure, there have been double degrees granted before--but never "high honors" distinction in only three years.

Cook, who entered with the class of 1974, breezed through both curricula in three years with a close to 3.9 average and was elected to membership in Tau Beta Pi, Eta Kappa Nu and Pi Mu Epsilon. He also is a member of the Institute of Electronics and Electrical Engineers.



**'73 LEGACIES**--Nine members of the Class of 1973 are second-generation Rose men. Legacies, left to right, are Charles Moseman, Bill Schumann, Tom Dedert, John Metz, Steve White, Tom Havill, Doug Bryant and Landy Blair. Proud fathers, seated from left, are Everett Moseman '50, Bill Schumann '49, Bill Dedert '45 (granddad Bill Dedert is a '22 alumnus), John Metz '43, John White '47, Nelson Havill '49, John Bryant '48 and Noble Blair II '34. The ninth father-son combination, Bill White '47 and his son, Bill, were unable to be present for the picture.



## Coca-Cola Executive

# Robert L. Voges '47 Joins Institute's Board of Managers

Robert L. Voges, vice president and director of the Florida Coca-Cola Bottling Company, was elected to the Rose-Hulman Board of Managers during the group's Spring meeting in May.

Voges, a 1947 graduate of Rose-Hulman in electrical engineering, has been with Associated Coca-Cola Bottling Company for 20 years.

For the last 10 years he has been vice president and general manager of Florida Coca-Cola Company operations which includes 20 plants in the state of Florida and four in the Caribbean. During his period operations have enjoyed a growth of over 400 percent.

A native of Terre Haute, Voges played on Rose's first undefeated and untied football team in 1941. A term serving in the U. S. Navy during World War II, he returned to complete his B.S. with the class of June, 1947.

Active in civic affairs, he is on the board of directors of Shawnee Groves and the Daytona Beach Y.M.C.A. He is on the board of trustees of Ormond Beach Memorial Hospital and the President's Council of Stetson University.



**Robert L. Voges**  
... Ex-Engineer Gridder

## Bloxsome Asks Alumni to Help Supply Photographs for Centennial History

Some three years ago John L. Bloxsome retired from Rose-Hulman after more than 40 years as a teacher, department chairman and vice president of the college.

But he did not empty out his desk and take his memorabilia, notes for Letters and Reports and his file of "Famous Bloxsome Jokes for RoseTech Clubs" home. Instead, he was asked to keep an office intact and was commissioned to write the 100-year history of Rose.

The manuscript is now complete and "Rose: The First One Hundred Years 1874-1974" is ready to go to the printer. Almost.

Prof. Bloxsome has issued a plea to alumni to help him supply pictures for the book. If you have pictures, especially classroom scenes, pipe rush, senior "cord" day, the jaunt to Franklin in the early '50, the senior bench, or anything

related to Rose you feel would be suitable for publication, please send them to Prof. Bloxsome today.

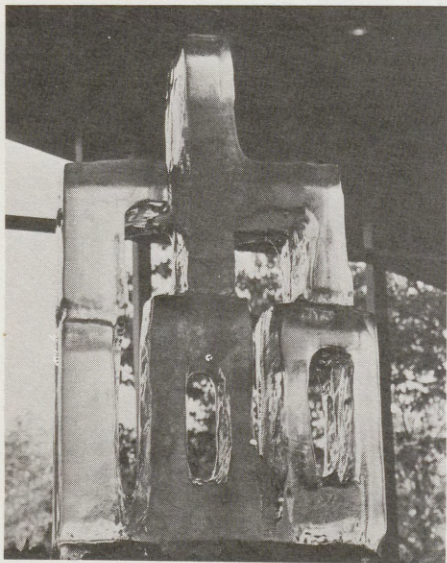
Do not fail to send a picture to Rose-Hulman because it is dog-eared or damaged, etc. If necessary, we'll photograph it and retouch it before publication.

As has been mentioned before, Rose-Hulman will carefully catalog the pictures and other materials and return them promptly after they have been used.

Please send pictures and other materials to Dr. John L. Bloxsome, Rose-Hulman Institute of Technology, 5500 Wabash Avenue, Terre Haute, Ind. 47803.

## Support Your Centennial Fund

Echoes Alumni Magazine





*Best Servant of Mankind*

# The ~~Free~~ Competitive Enterprise System

"The competitive enterprise system is the best servant of mankind among all available alternatives."

This was the central theme of Burt F. Raynes' address as he delivered the annual Oscar C. Schmidt Memorial Lecture on free enterprise to the Rose-Hulman student body this spring.

Raynes, a member of the Class of 1937 and recipient of a Doctor of Engineering degree from Rose-Hulman in 1968, emphasized throughout his remarks his firm belief that "American business provides economic strengths and technological skills necessary to improve the quality of life the world over."

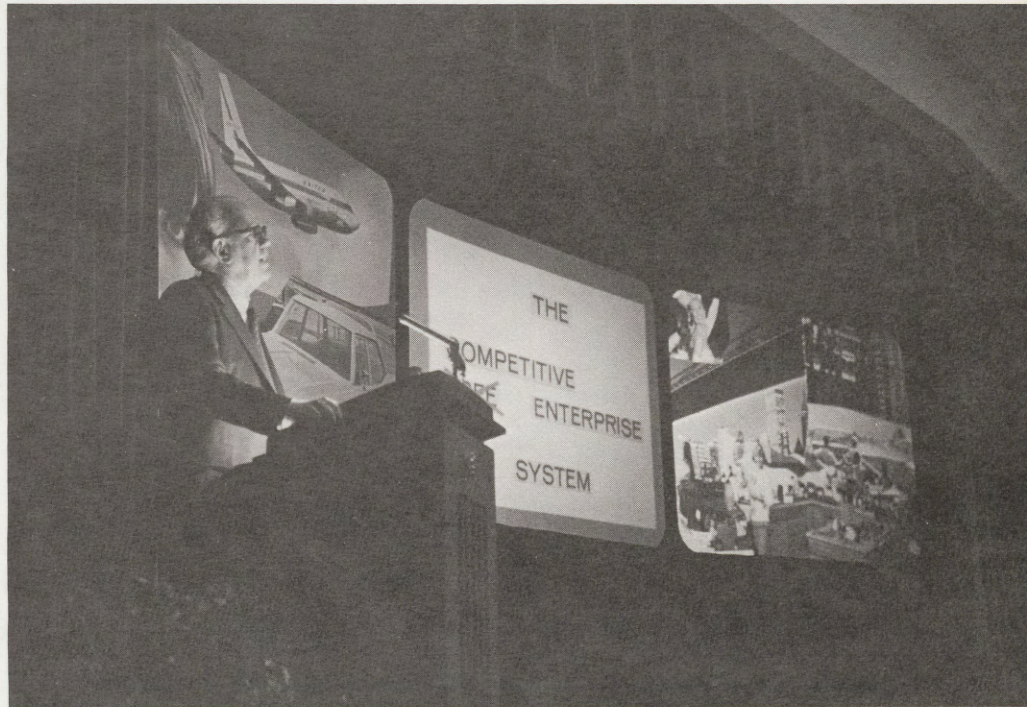
The chairman and chief executive officer of Rohr Industries, Inc., and 1973 chairman of the National Association of Manufacturers underscored the value of research and development in the system and said the "mainspring of progress lies in those laboratories ... in the minds and hearts of guys who can take that first step beyond the knowledge you have to conjure an answer to the human need."

Raynes, who came to the Rose campus one week after heading a U.S. trade mission to Southeast Asia, cited many examples in support of his belief that the American competitive enterprise system and methods "far superior to those in other parts of the world."

He noted that he was a member of a team which hosted in 1939 and 1940 visits of Soviet business and industrial leaders to this country and that after the long period of time spent with them they agreed "to a man that they would love to be operating under our system."

"Our system must be nurtured, cultivated and can't be taken for granted," Raynes continued. "We are so dependent upon each other for living and material standard of living and then we are dependent upon the productivity of our fellow man. Any invention is a help to you as was so of Jonas Salk's polio vaccine. We are living in a very interdependent world."

America is criticized for a "relatively narrow range of shortcomings without credit for the broad range of



**Chauncey Rose Medal Winner Burt Raynes lectures to students**

*... I'd trade you places for the opportunities ahead*

achievement," Raynes declared as he pointed out that the "survivors of competition are the best qualified to carry on society's work."

In his concluding remarks, Raynes told the students that "people are looking for much better leadership to emerge" and "you young men coming in have a real job to do."

Raynes was presented with the Chauncey Rose Medal as recognition of his contributions to the free enter-

prise system. Initiated in 1968, former winners of the medal have been Maynard C. Wheeler, chairman of Commercial Solvents Corporation; Dr. O. C. Carmichael, Jr., chairman of Associates Investment Company; J. David Carr, general superintendent, United States Steel Corporation; Dr. Tom Haggai, lecturer and advocate of the American way of life; and J. Erik Johsson, chairman of Texas Instruments.

## HOMEcoming '73 OCT. 26 - 27

- Class Reunions - 3s and 8s
- Engineer Football
- Alumni Banquet
- All-Comers Golf Tournament
- And Much More



## What Doctor Ordered Rose Engineer Fits in Well at Medical College

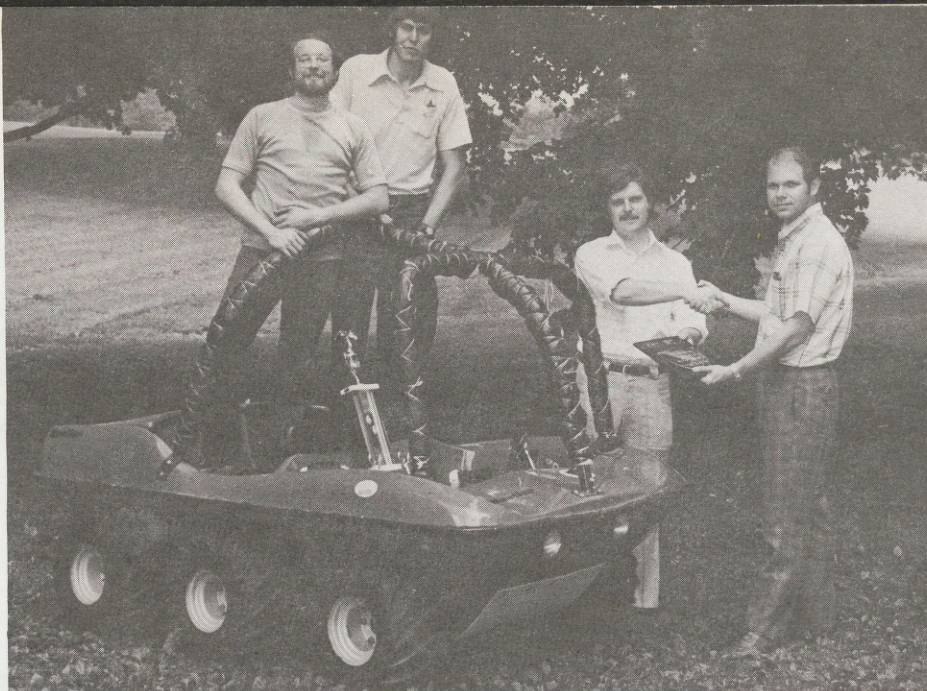
**A**lthough it probably will not make *Time* or *Newsweek*, a small group of 1973 Rose-Hulman graduates are the source of a good news story on the medical college scene.

Besides a record number of graduates in the Class of 1973 (243), Rose-Hulman set some kind of a mark with seven out of 14 men who applied being accepted for medical school. Another is on a waiting list and still others are hopeful of being admitted.

The one-out-of-two record thus far is much better than the national average of one out of 4.5 being admitted to medical college and seems to point up two things: 1) Rose-Hulman, indeed, provides an excellent background for medical school, and 2) medical colleges and engineering/science graduates are finding much more common ground in these days of high technology in medicine. Of the seven who will enter medical college this fall, four majored in biological engineering, two in chemistry and the other had a double major in electrical engineering and mathematics. Accordingly, the 14 who applied to medical college ranked high academically with a mean grade point average of 3.24 on a 4.0 system. Those admitted had a mean average of 3.31.

Biological engineering graduates David Wodicka, Terre Haute, and Mark Belisle, Hammond; Robert Heavin, a March graduate in chemistry from Coatesville, and William McNiece, Indianapolis, a double degree holder in electrical engineering and mathematics, will enter the Indiana University of Medicine at either Indianapolis or the Terre Haute extension.

Richard Henthorn, a biological engineering graduate from Cincinnati, will enter Ohio State University, while Rodney Smith, a chemistry graduate, will attend the University of Louisville Medical School in his hometown. Robert Kaufmann, a biological engineer, will be a member of the first medical school class at Southern Illinois Univ-



**Winslow, Eppen and Dr. Coy (right) accept trophies**

*... Five miles ahead of the field at finish*

### REV '73

## Senior M.E. Group Wins Going Away In Multi-Terrain Vehicle Design

A group of recent mechanical engineering graduates parlayed sound engineering design and some "seat of the pants" driving to win the REV-73 multi-terrain vehicle competition at the U.S. Army Tank Automotive Command Field Station near Houghton, Michigan, in June.

The Rose-Hulman contingent finished first in all phases of the competition except noise level and crossed the finish line five miles ahead of the nearest competitor in the actual 25-mile race

ersity, Carbondale-Springfield. Kaufmann is from Payson, Ill.

Rose-Hulman encourages students interested in medicine to pursue one of the recognized programs in engineering and science so they will have a good field to fall back on if medical school plans do not materialize.

The trend for graduates of engineering colleges to direct their careers toward medicine has increased ten-fold in the last five years ... and Rose-Hulman, which now has extensive life science offerings, monthly medical education seminars and adequate counseling, stands ready to place more men with an engineering or science background in medicine.

over the rugged terrain of the Michigan northland.

Under the direction of Dr. John Coy, assistant professor of mechanical engineering, the senior design class modified a machine provided by Hustler, Inc., for the competition conducted under the auspices of the student branch of the Society of Automotive Engineers.

Competition was based on a point system involving noise level, destructiveness to the environment as well as the 25-mile race. Ralph Winslow of Hobart was the lead driver of the Engineers' speedy recreation vehicle which would top 40 miles per hour over level terrain.

Other students working on the project included Dick Frushour, Batesville; Gary Dougan, Holland; Doug Smith, Greencastle; Rick Strain, Farmersburg; Jim Eppen, Speedway, and Alan Smock, Edinburg.

Expressing pleasure with the first place finish, Dr. Cox said, "Competition will get tougher next year. I think most of the teams learned something from us and will improve their vehicles next year. I just hope we have learned something from them concerning our noise abatement."



# Track Team Goes Undefeated

## Ernie Jones Wins Blanket Award; Bergman Honored

**E**very coach dreams of the year that he will have a team that has the individual stars, experience and depth to be able to put it altogether and have that one season that will always be remembered as topping all others . . . . . Engineer track Coach Bob Bergman's 1973 team had just that kind of season.

For the first time in recent school history, the Engineers finished with a perfect 11-0 mark in dual and triangular competition.

The senior-led squad defeated opponent after opponent with clockwork-like ease. Rose-Hulman broke the 100-point mark three times during the season and only once did a team come within 20 points of the Engineers. Victims of the Engineers this year were Wabash, DePauw, Hanover, Anderson, Franklin, Evansville, Oakland City, Wilmington, Earlham, and Northwood.

Over the past four years the Rose-Hulman track squad has compiled a 35-10 record. Senior members of the 1973 undefeated team included record-setters Ernie Jones, Evansville; Tom Hans, Worthington; and Steve White of Terre Haute; along with Jerry DeMeyer, South Bend; Dave Greene, Hoopeston, Ill.; Randy Robertson, Evansville; Chuck Epstein of Park Forest, Ill.; Bill Thaler, Dayton, Ohio; and Gary Kelm, Chuck Moseman and Joe Zumar, all of Terre Haute.

Depth and stalwart performances were also turned in by the 20 underclassmen that Coach Bob Bergman hopes will provide a nucleus for next year's squad.

The track team's fine performance was appropriately rewarded by both Rose-Hulman and the National Association of Intercollegiate Athletics (NAIA). Shortly after the end of the season Coach Bergman was voted, by his fellow coaches, as the 1973 Track Coach of the Year in District 21 of the NAIA

Continued on page 14



**ENGINEER MVPs**--Engineer athletes given special awards at the annual Spring Sports Honors Program were, seated from left, Nick Adams, leading hitter, and Jim Gidcumb, MVP in tennis. Top row includes Steve Moorman, baseball MVP; Ernie Jones, blanket award as outstanding senior athlete; Joe Snyder, free throw award; Gary Dougan, basketball MVP; Tom Hans, track MVP; Jeff Smith, golf MVP, and Vice President Ralph Ross, "Old Jock Award."

## Spring Sports Post 28-16 Mark

Rose-Hulman's spring sports teams combined for a 28-16 record this year as the tennis and golf teams posted winning seasons while the baseball team had its problems with the weather and a lack of hitting.

Coach Joe Touchton's netters posted a 5-3 record bettering Marian, Franklin, Indiana Central and Earlham. The squad also made its best showing ever in the Little State Tennis Tournament. The only senior on this year's squad was Rich Keeven of Greenfield.

Rookie golf coach Jess Lucas made a stunning debut as the Engineer golfers had a brilliant 8-1 season. Coach Lucas has sights set on an undefeated season next year as every member of this year's next year as every member of this year's squad will return.

The Engineer baseball team captured a convincing 11-2 victory over Butler University in the last game of the year to brighten the otherwise frustrating season. The squad finished the season with a 4-12 record after experiencing tougher opposition from the weather (in the form of spring rains) than from opposing pitchers. In the cross-town contest with Indiana State University the Engineers lost a 10-5 decision.

Seniors on the squad included Kevin Murphy and Rick Manuszak of South Bend, Joe Bubenzer, Freelandville; Larry Erwin, Terre Haute; Doug Kneller, Columbia City, and Rick Henthorn of Cincinnati. Also lost due to graduation is assistant baseball and basketball coach Bob Kaufmann of Payson, Ill.



# News From Alumni

## '33

**Edward H. Hilgeman** (M.E.), who since September, 1971, has been engaged in a Florida-based private consulting practice in the technical and financial evaluation of prototype machinery, process and construction, pens a note to *Echoes* with another boost for the Class of 1933's Fortieth Reunion at Homecoming '73. For more than 30 years Ed was a partner of Singmaster & Bryer, metallurgical and chemical engineers of New York City, as well as president of Huck Design Corporation, New York, and a director of several companies. Having recently built a home in Florida, he is busy consulting while his wife, Jane, pursues her art career in professional oil painting. The Hilgemans reside 2113 Everest Parkway, Cape Coral, Fla. 33904

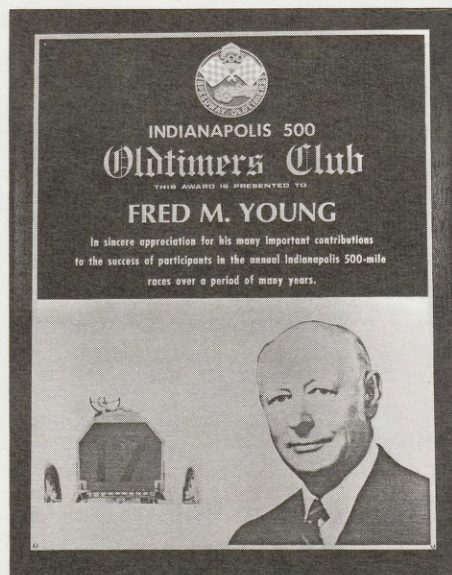
## '35

**Earle B. Butler** (C.E.), has been appointed general manager of Floyd G. Browne and Associates, limited, Marion, Ohio. Formerly assistant general manager and director of client relations, Earle assumed his new duties as chief operating officer of the firm July 1. He joined Browne in 1969 after six years as general manager of the Part of Cleveland and some 20 years with the U.S. Army Corps of Engineers. During this period he earned a masters in civil engineering from the University of Tennessee and also is a graduate of the Graduate School of Engineering Administration ("Program for Executives") of Carnegie-Mellon University, Pittsburgh. He and his wife, Mary Jo, reside at 720 Summit Road, Marion, and are parents of two married sons.

## '42

**Lucien Nelson** (E.E.), has been named supervisor of quality assurance engineering for General Telephone's Equipment Information Systems Division based at Mt. Laurel Industrial Park, Moorestown, N.J. Long associated with this type of work, Lucien formerly worked for Philco Corporation and more recently as manager of quality assurance for Fastram, Inc. He continues to reside at Aura Ewan Rd. 1, Monroeville, N. J. 08343

## 'Indy' Oldtimers Honor F.M. Young



Congratulations are due alumnus Fred M. Young, president of Young Radiator Company of Racine, Wis. Fred is the happy winner of the Indianapolis 500 Oldtimers recognition award for 1973.

The special award is given annually to an individual active in the automotive fraternity who has made an outstanding contribution to the support of organized automobile racing.

Fred, who received a Doctor of Engineering degree from Rose-Hulman in 1965, has long been an active supporter of Rose and is a member of the President's Council.

His link with the Speedway dates to his 1916 chance meeting of Fred Duesenberg in Young's radiator shop in Chicago. The original encounter developed into a warm, personal relationship built on mutual respect and their uncommon interest in automobiles.

Impressed by Young, Duesenberg introduced the racing fraternity to Young Radiator and Fred and his associates started engineering and building radiators for the likes of Tommy Milton, Peter DePaolo and many others.

## Ed Mabley Named Chief Heavy Truck Engineer at Ford

**Edward T. Mabley**, a December, 1947 graduate in mechanical engineering, has been appointed chief heavy truck engineer for Ford Motor Company's Truck and Recreation Products Operations.

Mabley, who joined Ford in 1965 as a truck drivertrain engineering supervisor, received the appointment after serving in several supervisory and managerial positions in the Ford Division, Product Development Group, and has powertrain and chassis executive engineer in the Automotive Assembly Division.

He assumed the executive engineer post in Automotive Assembly in 1969 and in 1971 became heavy truck systems executive engineer, Truck Operations.

Prior to joining Ford Mabley was associated with General Motors Corporation, primarily in the Allison Division.

He has been active in RoseTech Club activities in Indianapolis and Detroit and currently is serving as chairman of the Detroit area phase of Rose-Hulman's Centennial Campaign.

He and his family reside at 3741 Lane Lake Road, Bloomfield Hills, Mich. 48013.

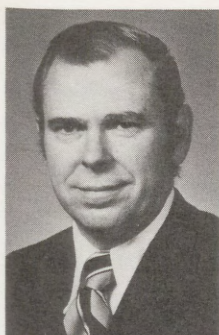
## '49

**Philip A. Kranz** (E.E., April) is working as Aerostat Flight Director for TCOM Corporation, a subsidiary of Westinghouse Corporation. He is engaged in engineering on the large balloon on the tether for low level satellite communications relay. Field locations for the project are south of Freeport, Grand Bahama Islands, and near Seoul, Korea. Philip continues to reside at 403 Driftwood Ave., Melbourne Beach, Fla. 32951.

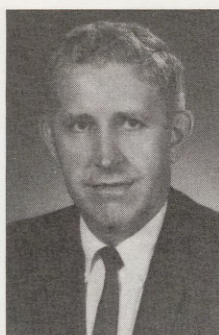
## '54

**Owen H. Meharg** (Ch.E.) has resigned as Director of Administration for the City of Indianapolis to return to Eli Lilly & Company as corporate purchasing coordinator for the firm's corporate division. Meharg, who has been with Eli Lilly since 1957 and was formerly manager of the company's insulin manufacturing division, was granted an extended leave of absence to head the administrative arm of Indianapolis' consolidated city-county government. Initiated in 1970, the Indianapolis plan was the first of its scale in the nation--a point which Mayor Richard Lugar (Rose-Hulman honorary degree recipient in 1972) has carried to prominence at home and abroad.

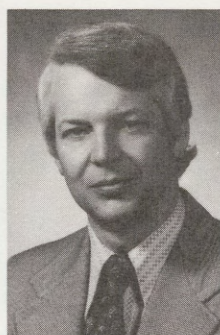




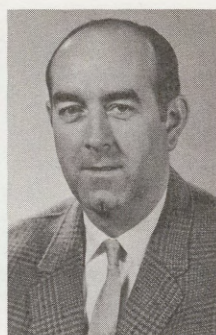
Mabley



Hickman



Lockhart



Meharg

## Hickman and Lockhart Appointed to VP at Industrial Nucleonics

Two Rose-Hulman graduates--**Richard W. Hickman** '47 and **Ralph D. Lockhart** '56--have been named to vice president positions with Industrial Nucleonics in Columbus, Ohio.

Hickman, who was graduated with a B.S. in electrical engineering in June, 1947, assumed the position as vice president and general manager, Paper Industry Customer Services Division.

He joined Industrial Nucleonics, a division of Accuray in 1956 as an applications engineer. With a breadth of experience in both the marketing and technical areas of the company, he has responsibility for managing and coordinating all the services required to provide a total systems results package for customers of the paper industry.

Lockhart, who joined the company in 1960 as a manufacturing supervisor, is vice president and general manager of the Paper Industry Division. Successive positions in the production and marketing organizations preceded his present management responsibilities for all marketing activities in the paper industry.

Lockhart, also a graduate in electrical engineering, continued his education, earning a masters degree in business administration from Xavier University.

'55

**Dr. Ralph A. Llewellyn** (Ch.E.), professor and chairman of physics at Indiana State University, is completing a year as executive secretary and staffing officer of the Board of Energy Studies of the National Academy of Sciences in Washington, D. C. Dr. Llewellyn, who joined Indiana State as chairman in 1970, was a member of the Rose-Hulman faculty from 1961 through 1970.

Summer 1973

'57

**Lawrence D. Thomas** (Ch.E.) has been appointed as Market Specialist, Rigid Vinyls for the Plastic Films Division of Union Carbide Corporation. Larry joined Union Carbide as a production engineer upon graduation in 1957 and has been associated with the manufacture of vinyl rigid and flexible products at the corporation's Bound Brook, N. J., and Ottawa, Ill., locations. Relocating in the Chicago area, Larry will be involved with coordinating technical service, product engineering, marketing and market development for rigid vinyls and coated paper.

'57

**Earl T. Reichert** (M.E.) has assumed a position as patent attorney for Xerox Corporation in Rochester, N. Y. Prior to joining Xerox he held a similar position with Pennwalt Corporation in Pennsylvania. Following graduation Earl joined McDonnell Aircraft in St. Louis as a test engineer. He later went with the U. S. Patent Office in Washington, D. C., as a patent examiner and was graduated from Catholic University with a J. D. in 1968. Mail may be directed to Earl at Xerox Square 020, Rochester, N. Y. 14644

'57

**Charles J. Schukai** (E. E.) has been promoted to supervising engineer, transmission and distribution standards, for Union Electric Corporation in St. Louis. Charles, who worked for Union Electric as an engineer assistant during his college days, joined the company upon graduation and since has held a number of engineering posts. His last position was that of a buyer. In his spare time, he is doing a superb job as chairman of the St. Louis-area phase of Rose-Hulman's \$5 million Centennial Campaign. The Schukais reside at 912 Woodleigh Ct., St. Louis, Mo. 63122.

Centennial Calendar  
In Next Issue

'60

**Louis H. Roehm** (C.E.), a structural engineer for the U. S. Bureau of Reclamation, recently received a citation and outstanding performance rating for the application of an electronic computer program now used by the Bureau of Reclamation to accomplish the Work formerly requiring several men working many man-days. The tasks involved the analysis of structural behavior data and the preparation of reports and technical memoranda relative to the development of new and/or improved methods of analysis. The citation concludes with this statement: "His contribution in the field of earthquake engineering is unsurpassed in the Bureau and is truly outstanding." Louis is presently vice chairman of the Date and Information Area with BRECS, and formerly served on the experimental team investigating and formulating a method to determine ground motions at a site for any probable earthquake event. He continues to reside at 12336 W. Texas Dr., Denver, Colo. 80228

'61

**Marshall Garino** (E.E.) reports two big changes in his career: one in location, from Burbank, Calif., to the east coast, and the other in job position. He has been promoted to Resident Service Manager for Lockheed Aircraft Corporation at the Naval Air Test Center, Patuxent River, Md. In his new position he is responsible for supervision of all Lockheed field service representatives and directs his company's activities at the test center. The Garinos reside at 103 River Road, Lexington Park, Md. 20653.

**Larry W. Myers** (E.E.) has been promoted to personnel representative at the Clinton Laboratories of Eli Lilly Company. Larry, who had been plant electrical engineer at the Clinton facility since start-up in 1970, will be responsible for personnel matters of employees in the areas of maintenance, environmental controls, utilities, technical service, and the materials operations services departments. Prior to joining Lilly Larry was associated with Indianapolis Power and Light Company as an electrical engineer. The Myers reside near Marshall, Ind.

'65

**Elmer A. Guerri** (Chem) is making quite a splash with sportsmen of the Wabash Valley through his weekly "Fishin' With E" outdoor column in *The Terre Haute Star*. When he's not spinning tales about "the big one someone caught" Elmer keeps busy as general plant superintendent of the Terre Haute mill of Weston Paper Company. The Guerri reside at R. R. 3, Terre Haute.



# Rose Track Team Goes Undeclared

Continued from page 11

(the district includes 15 colleges in Indiana.

The Team's performance was also applauded during the college's semi-annual Sports Honors Program. The most coveted athletic award, the Blanket Award, went to a member of the undefeated squad, Ernie Jones. Jones' athletic accomplishments included breaking his own records in the pole vault and triple jump, being named the most valuable field events man in this year's Earlham Relays, becoming the best collegiate triple jumper in the state by defeating competitors from Indiana and Purdue universities in the Big State Meet, being named for the second-year in a row the track team's MVP award winner and also serving as one of three captains on this year's squad.

Coach Bergman praised the squad saying, "A trackman, unlike many sports must be dedicated year-around. Our athletes were just that, they worked hard

'65

**William E. Everson** (E.E.) has been named district manager of the Downer Grove District of Commonwealth Edison Company where he is in charge of sales, service, engineering, construction and other facets of the division. Prior to the promotion, he was division engineer--Chicago North Division and responsible for engineering activities for the northern third of Chicago. Bill has continued his education, obtaining a masters in business administration from Northwestern University in 1970. His new address is 591 Fern, Elmhurst, Ill. 60126.

**Robert H. Barnett** (M.E.) has been promoted to manager of business development for P & W Engineers, Inc., Claredon Hills, Ill. He formerly was a project engineer for the firm. Bob's address is 262 Churchill Place, Claredon Hills, Ill. 60514.

and this year's squad was the best all-around team I have ever had the opportunity to coach."

The only puzzling question left in this success story was voiced by Coach Bergman . . . "How do you top a season like this?"

'66

**David J. Leonard** (E.E.) has taken a position with M & M Mars Corporation of Oak Park, Ill., as a computer specialist and design engineer. He formerly was electrical plant maintenance foreman for Inland Steel Company, East Chicago, Ind. Dave's address is 1409 N. Glenwood, Griffith, Ind. 46319.

**Elmer L. Beard** (M.E.) has been promoted to manager of appliance control production for General Electric Company and transferred to the company's Clinton, Iowa facility. Prior to the promotion Elmer was a sales engineer headquartered at Charlotte, N. C. His new address is 1410 Beckman Lane, Clinton, Iowa 52732.

'67

**Paul S. Hannah** (Ch.E.) has received an interesting assignment for Dow Corning Corporation--two to three years as a liaison engineer between Dow Corning and a London-based engineering firm which is preparing the design for a pair of expansions to Dow Corning's plants in Barry, Wales, and Senefte, Belgium. Paul reports he will begin his new assignment Aug. 1 and will reside at 25 Jestyn Close, Dinas Powis, Glamorgan, United Kingdom.

**Thomas L. Wegman** (M.E.) completed a master of business administration degree from Saint Louis University this spring. Tom continues as an engineer in charge of product design and equipment engineering for Stevens Cabinets, Inc., Effingham, Ill. His Address is 700 East Temple, Effingham, Ill. 62401.

**Charles R. Boswell** (Math, Dec.) has accepted a position as a computer programmer for Exchange Data Processing Services, Inc., Dallas, Tex. Following graduation, Charles entered the U. S. Army and served as a Korean linguist for the U. S. Army Security Agency. His current address is 3534½ Rose-dale, University Park, Texas 75205.

**Edward H. Onouye** (C.E.) has accepted a position as sales associate for Locations, Inc., Honolulu. Prior to the move he was a civil engineering for the Transportation Division of the State of Hawaii. Ed continues to reside at 927 Olomea St., Honolulu, Hawaii 96817.

**David P. Rodabaugh** (M.E.) has been promoted to Senior Manufacturing Engineer for Pillsbury Company and transferred from the Terre Haute plant to corporate headquarters in Minneapolis, Minn. Prior to the promotion he was a project engineer at the Terre Haute facility. Dave's new address is 3560 N. Xylon Ave., New Hope, Minn. 55427.

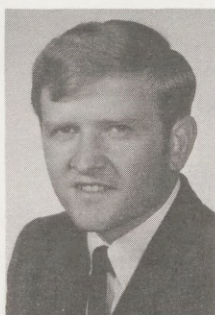
## 1973 TRACK RESULTS (11-0)

	Rose-Hulman	Opponent
<b>INDOOR SEASON</b>		
Oakland City	65	60
Anderson	83	44
<b>OUTDOOR SEASON</b>		
Depauw	75	52
Wabash	80	65
Franklin	90	51
Evansville		39
Anderson	111	42
Hanover	119	52
Wilmington		9
Franklin	100½	49
Northwood		13½

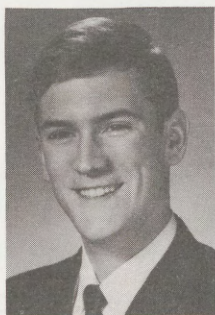
## NEW RECORDS

MILE - Tom Hans (4:15.7)  
 SHOT PUT - Dave Linderman (49' 9")  
 POLE VAULT - Ernie Jones (14' 3½")  
 TRIPLE JUMP - Ernie Jones (46' 11¼")  
 TWO-MILE RUN - Dennis Dierckman (9:22)  
 three-MILE RUN - Dennis Dierckman (14:23.6)  
 MILE RELAY - Burkhardt, Goebel, Moseman and Lynn (3:24.75)  
 3000-METER STEEPLECHASE - Steve White (9:40)

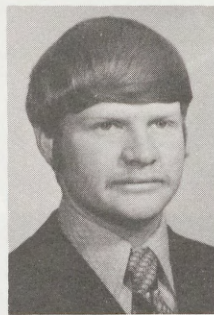




**Mitchell**



**Combs**



**Duttlinger**

## '68

**Benn J. Bradburn** (Ch.E.) has been promoted to Production Manager in the Flemington, N. J. Plant of Thomas J. Lipton, Inc. Areas of responsibility of the new position include packaging, mechanical maintenance, production planning and material stores and sanitation. Benn reports that he and his wife, Sue, find the western sector of New Jersey "to be, to our surprise, beautiful and educational." Benn joined Procter & Gamble upon graduation and worked as a process engineer and packaging foreman in Iowa City prior to joining Lipton at the corporation's Kansas City, Mo., operation in 1971. The Bradburns reside at Fawn Drive R. D. 1, Lebanon, N. J. 08833

**Gary E. Mitchell** (M.E.) has been transferred to Sacramento, Calif., and a position as nuclear service engineer for Babcock & Wilcox Company. Gary, who has been with Babcock & Wilcox since graduation, now resides at 244 Selby Ranch Rd., Apt. 1, Sacramento, Calif. 95825.

**Lawrence R. O'Hair** (M.E.) drops a note concerning an address change. He continues as a vice president of Jimmy A. Casto & Associates, Inc., North Palm Beach, but now resides at 14035 Harbor Lane, Lake Park, Fla. 33403.

**Craig H. Weerts** (M.E.) has been promoted to manager-fleet operations management for Cummins Engine Company, Columbus, Ind. Craig, who formerly was an engineer for the company, has continued his education, earning an M.B.A. from Indiana University. He continues to reside at 2674 Pearl St., Columbus, Ind. 47201.

**Norman E. Smiley** (M.E.) has been promoted to production manager in the Pharmaceutical Manufacturing Department of Dow Chemical Company. Norman, who joined the company in November, 1970, is responsible for liquid manufacturing, as well as the penicillin manufacturing and penicillin packaging departments.

**Summer 1973**

**Harold L. Schroer** (Ch.E.) has accepted a position as senior process engineer for the Grocery Products Company of Pillsbury Company in Minneapolis, Minn. Harold formerly was a project engineer with the new products group of General Foods Corporation in Kankakee, Ill. The Schroers also announce the birth of a second child, Lynda Marie, born June 28. The Schroers new address was not available at press time.

## '69

**Clifford W. Lewis** (Ch.E.) pens a note with three items of interest: 1) his June graduation with an MBA from the Amos Tuck School of Business Administration of Dartmouth College; 2) what Cliff calls "a short excursion" of Europe following graduation; and 3) his acceptance of a position as Assistant to the Vice President of Marketing Services for Masonite Corporation. Cliff reports that the job is in Chicago "so I'm looking forward to a closer association with the Institute. Hope to make it back for Homecoming."

**Robert J. Hillis** (M.E.) has been promoted to manager of Scientific Protein Laboratories, a subsidiary of Oscar Mayer & Company, Madison, Wis. Bob, who joined Oscar Mayer as an economist in 1971, is responsible for the manufacturing and marketing of high quality animal protein products for use in the food and pharmaceutical industries. Following his graduation from Rose-Hulman he continued his education at Indiana University where he completed a masters in business administration. Bob continues to reside at 6245 Charing Cross Lane, Middleton, Wis.

## '70

**Richard G. Kirkman** (C.E.) has been promoted to Engineer-Buildings and transferred from the Georgia Division to General Telephone Company's Southeast general office in Durham, N. C. In his new position as group leader, Richard supervises the staff function of the Building Engineering Department. His address is 915 N. Buchanan Blvd., Durham, N. C. 27701

**Robert L. Combs** (E.E.) has returned to Indiana Bell Telephone Company following two years in the U. S. Army--most of the time at Ft. Monmouth, N. J. Bob is a service supervisor in the utility's New Albany station. The Combs new address is 1809 Greentree Blvd., Apt. 154, Clarksville, Ind. 47130.

## '71

**John H. Clark, Jr.** (E.E.) has taken a position as an engineer in the communications division of Motorola, Inc., and moved from Indianapolis to Hanover Park, Ill. His new address is 7515 Northway Dr., Hanover Park, Ill. 45220.

**Jerry K. Finley** (C.E.) has left the Austin Company, Lake Zurich, Ill., to become assistant village engineer for the Village of Mundelein, Ill. He continues to reside at 505 Ramblewood Ct., Lake Zurich, Ill. 60047.

**James R. Forbes** (Chem) has accepted a position as product engineer for the laminates division of Spaulding Fibre Company, Sycamore, Ill. Prior to the move Jim was a graduate student at Indiana State University. His new address is 2143 Highland Drive, Sycamore, Ill. 60178.

**Alan L. Feldmeyer** (Ch.E.) completed an M. B.A. at Indiana University in May and since has taken a position as foreman in the Industrial Products Division of General Tire and Rubber Company. Al's new address is 481 Bristol Dr., Wabash, Ind. 46992.

**William J. Krug** (E.E.) is working as an electronics engineer for the Naval Avionics Facility in Indianapolis. His current address is 6934E. 42nd St., Apt. 3, Indianapolis, Ind. 46226.

## '72

**Clarence "Clancy" Duttlinger** (M.E.) dropped by Rose to visit former profs and friends in June and stayed over a day to attend the Wabash Valley Rose Tech Club's annual summer bash. He was enroute to St. Louis after being released from active duty with the U. S. Army at Fort Bliss, Tex. Seems that "Clancy" took the long way home, visiting California, Las Vegas, the Rockies and other stops prior to rejoining Container Corporation. His new address is 320 Vida St., St. Louis, Mo.

**2nd Lt. Robert N. Pittman** (M.E.) recently completed the ordnance officer basic course at the U. S. Army Ordnance Center and School, Aberdeen Proving Ground, Md. Prior to entering service he was a program engineer in the Aircraft Engine Division of General Electric Company, Cincinnati.



# In Memoriam

'17

**Donald B. Weaver** (M.E.), retired inventions director at Wright Patterson Air Force Base, Dayton, Ohio, died Jan. 28 in Dayton. Having returned in 1960 he worked for the government for 36 years as an aeronautical engineer.

'19

**John K. Piety** (M.E.) died May 8 in St. Petersburg, Fla. Prior to his retirement to Florida he was assistant superintendent of Inland Steel Company.

'20

**Frederick B. Ray** (Arch) died June 14 in Indianapolis. Prior to his retirement he was vice president of Insley Manufacturing Company, Indianapolis, for a number of years. His survivors include his son, F. Perry Ray, Oct. '48 and grandson, Ronald R. Andrews '74.

**France E. Votaw** (Ch.E.), retired district engineer in charge of the Boston office of the Portland Cement Association died April 13 in Chatham Mass.

'22

**D. A. Young** (Ch.E.), retired vice president of Sinclair Refining Company and director of the crude oil purchasing department, died May 11 in Tulsa, Okla. He joined Sinclair upon graduation and became president of Sinclair Crude Oil in 1953, remaining in this position until consolidation in 1964.

'23

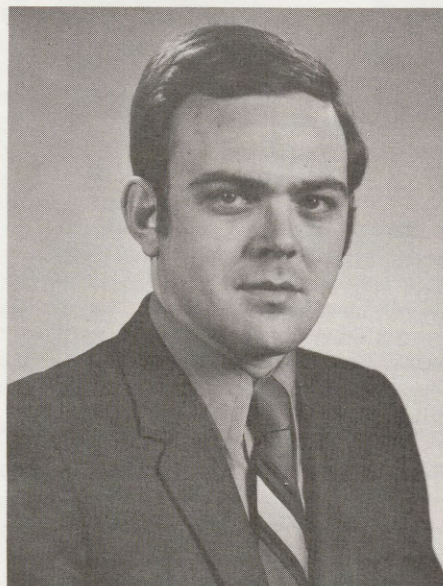
**Robert O. Cash** (C.E.), retired district sales manager for DuPont, died April 14 in Joplin, Mo.

'32

**Floyd E. Wilson** (E.E.), manager of technical services and general engineering for the Northern Indiana Public Service Company for a number of years, died April 30 in Gary. At the time of his death he was president of the Northern Indiana RoseTech Club.

'34

**Paul R. Smith** (Ch.E.), retired manufacturers agent in the chemical field, died May 33 in Batavia, N.Y. He formerly was with Commercial Solvents Corporation and Shaler Company.



**William R. Goodwin**

'65

**William R. Goodwin** (M.E.), a rising and respected young engineer in the nuclear power field, was shot and killed at a Harvey, Ill., shopping center April 20. An honors graduate, he was an engineer for Commonwealth Edison Company and in assignment was involved in the development of a large-scale-fast-breeder reactor plant under a plan proposed by the utility and the Tennessee Valley Authority. His parents, Mr. and Mrs. William F. Goodwin, Harvey, Ill., have established a memorial fund in his honor at Rose-Hulman.

**Harold H. Dice** (D. Eng., 1965), vice president and general manager of the Allison Division of General Motors Corporation from 1960 to 1967, died June 26 in Charlottesville, Va. His leadership in strengthening the Division's engineering and research capabilities on diverse projects during the early sixties led Rose to honor him with an honor degree two years before his retirement after 37 years with General Motors.

**Frank L. Wilkerson**, 18, a sophomore at Rose-Hulman from Louisville, died Sunday, July 22--a victim of accidental electrocution. A 1972 graduate of Waggener High School and a National Merit Scholarship winner, Frank was a member of the Audio Engineer Society and the Louisville-Jefferson County Youth Orchestra.

The Class  
of

'48

challenges all alumni  
to Enter the first  
Homecoming  
Golf Tourney



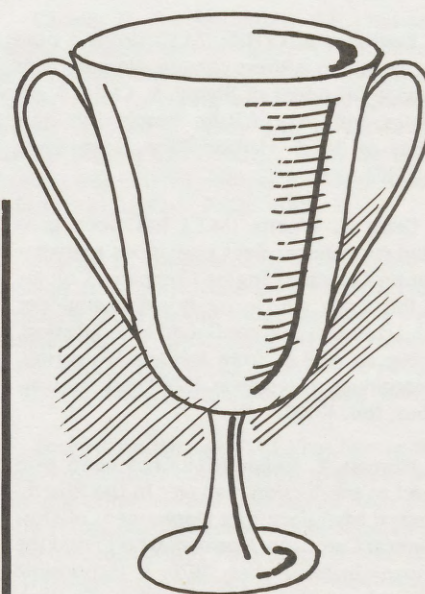
Phoenix Course  
west of Rose



Score determined  
by adding score of  
game and year of  
graduation.



Silver Cup  
to Winning Class  
-Many Prizes-



Echoes Alumni Magazine



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