

7-1969

Volume IX - Issue 4 - July, 1969

Echoes Staff

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Recommended Citation

Staff, Echoes, "Volume IX - Issue 4 - July, 1969" (1969). *Rose Echoes*. 117.
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ROSEECHOOES

Vol. IX, No. 1

July, 1969

215 Receive Bachelor's Degrees At 91st Rose Poly Commencement

Rose Polytechnic Institute conferred a record 215 bachelor's, 17 master's and four honorary doctor's degrees during the 91st Commencement exercises June 14.

The commencement marked the first time in the history of the college that more than 200 men received degrees, thus distinguishing Rose, long known for its quality, as one of the nation's leading producers of undergraduate engineers in no fewer than three fields of specialization.

The class of 1969 (198 June graduates) was not only of record size, but was the most highly honored class at Rose. More than one-fourth of its members, or 54 in all, were graduated with honors. Thirteen were graduated with "high honors."

It also is noteworthy that the granting of 85 degrees in mechanical engineering should rank Rose among the nation's top 20 colleges and universities with mechanical engineering. Approximately 210 schools offer M.E. degrees.

Chemical engineering, which granted 32 B.S. degrees during the 1968-69 academic year, will rank approximately thirtieth out of 140 schools with chemical engineering.

One of the features of commencement was an address by Dr. Landrum R. Bolling, president of Earlham College, Richmond, Ind., and a nationally-known leader and spokesman for independent higher education.

In addressing the graduates and an estimated 2,000 parents and friends in Shook Memorial Fieldhouse, Dr. Bolling recognized the need for engineers and scientists and their contributions to society.

"In the scientific and technological development of this age we have long

engaged in an increasingly world-wide effort to learn and apply the physical laws for the mastery of nature and the advancement of mankind," he told the graduates, "In the process, of course, we have created vast new problems—the pollution of our environment, for example—and thus we have to try even harder to make sure that we do in truth advance the quality of life, not degrade or destroy life.

(Continued on page 2)

Board Okays Improvements Of \$375,000

Work has begun on more than \$375,000 in immediate capital improvements required for the efficient operation of Rose Polytechnic upon the arrival of the largest freshman class and total student body in the history of the school in September.

With a freshman class of 375 men expected and the undergraduate enrollment in excess of 1,000 for the first time, the board of managers funded six projects of top priority during the Spring meeting June 13. A target date of Jan. 1, 1970 has been set for completion of most of the projects.

Projects receiving final budgetary approval by the board included the construction of the Mechanical and Aerospace Engineering Annex, a 45,000 square-foot building which is to house the subsonic wind tunnel and other equipment related to the laboratory phase of the recently adopted aerospace engineering curriculum at Rose.

Mechanical and aerospace engineering will occupy 30,000 square feet of build-

(Continued on page 2)



COMMENCEMENT PROCESSION—Dean Ralph M. Ross served as marshal as the largest single graduating class in the history of Rose marched down the hill from the Main Building to the fieldhouse for Commencement exercises. Rose conferred 215 bachelor's and 17 master's degrees during the exercises.

215 BS Degrees Given at 91st Commencement

(Continued from page 1)

"Yet, for all the pessimism of this age, modern men, by and large, are imbued by a faith that, scientifically and technologically, we can solve the practical problems," he continued. "If we can find the technical answers by which to send men to the far side of the moon and back, we can find the technical means to cope with air pollution and water pollution and traffic snarls."

Turning to the social-political realm, he told them of the social issues facing the world and suggested ways the engineer could play a vital role in solving the social dilemma.

In addition to the 215 B.S. degrees and 17 M.S. degrees granted, the college conferred honorary doctor's degrees.

George R. Armstrong, a 1921 Rose alumnus and chairman of the board of Louisville Gas and Electric Company; John W. Barriger, president of the Missouri-Kansas-Texas Railroad; Dr. Harold B. Gotaas, Dean of Technology at Northwestern University, and Dr. Bolling received the honorary degrees. Dr. Bolling received a Doctor of Letters degree while Doctor of Engineering degrees were conferred on the other men.

Other highlights of commencement included the presentation of two awards — the Dean's Outstanding Teacher Award and the Heminway Medal — and the dedication of the Robert J. Templeton Administration Building.

Prof. Alfred R. Schmidt, a 1949 Rose alumnus and member of the faculty in mathematics, received the Dean's Outstanding Teacher Award for his contributions to the college and its students. His service has been continuous since 1949 except for leaves of absence for graduate school.

Prof. Schmidt has served on numerous faculty committees during his tenure and currently is director of the popular "Operation Catapult," a four-week incentive program for prospective science and engineering students.

Lee D. Van Camp, an electrical engineering major from Indianapolis, was the recipient of the Heminway Medal which is presented annually to the senior with the highest grade point average. Van Camp completed his course work with a 3.985 average on a 4.0 system — all A's with the exception of two credit hours.



HEMINWAY MEDAL WINNER—Lee D. Van Camp, Indianapolis, receives the Heminway Medal as the most outstanding senior from John L. Bloxsome, vice president and special assistant to the president, during commencement exercises.

Board OKs Capital Improvements

(Continued from page 1)

ing, while the remaining 15,000 feet will be used for new laboratories for civil engineering. Work is scheduled to begin on the new annex in August, with at least partial use of the building scheduled for the second quarter.

Completion of the civil engineering section of the annex will facilitate the expansion of the fledgling department of biological engineering laboratory-classroom area into an area of the lower level of the Main Building currently used by civil engineering.

Other renovation to the Main Building is under way. The business office area has been expanded into areas formerly occupied by the offices of the president, dean of the faculty and the registrar.

Also, the area formerly occupied by the three offices of the Development Department has been converted into a classroom area in another project funded by the board during the June meeting.

Universal Tank and Iron Works, Inc., of Indianapolis was awarded a contract to build and erect an elevated water tower on campus to bring water capacity up to the needs of the college. The firm has indicated it will begin work on the tower in October, with completion before the first of the year.

The other project was the improvement of roads and parking areas on campus. Begun the week after commencement, resurfacing of some of the roads and creating of new parking areas was completed in early July.

Other action by the governing body of the college included the endorsement of a joint engineering program between Rose and Indiana State University.

Under the program, a student would attend ISU for the first two and one-half years and Rose for two and one-half years. Upon completion of the five-year program the student would receive two degrees—B.A. from ISU and a B.S. in engineering from Rose. It also would be possible for a student to earn a master's degree in two additional quarters, thus making it possible to earn the B.A., B.S., and M.S. degrees in a span of six years.

Empty Mail Bag

A number of graduates have not returned the questionnaire published in the back of the last issue of Rose Echoes Alumni Magazine. Please fill out and return this questionnaire as soon as possible in order that the Office of Alumni Affairs can begin preparation of a new Alumni Directory listing.

Bumper Crop of Freshmen Headed for Rose in Fall

If for some reason the incoming freshman class decides to abolish hazing and Freshman-Sophomore traditions, the sophomore class will be hard pressed to do anything about it.

For on Sept. 22 an estimated 380 freshmen will arrive at Rose for a week of orientation. The number is 60 men larger than the previous record freshman class and will outnumber the sophomore class by nearly 150 men.

While the freshman class is of record size, it is one of the finest academically, according to comparative Scholastic Aptitude Test (SAT) scores of recent classes. And the frosh have participated in enough varied activities to indicate that hazing will continue . . . but on a larger scale.

Class rank median of the class of '73 was the 92 percentile as compared with the 90 percentile of last year's freshmen. Although 100 members larger than the freshman class last year, a mere two points separated the SAT medians. The 1969 group scored slightly lower in the verbal portion (542) but was three points higher in mathematics with a 653 median. A perfect math score of 800 was achieved by 30 members of the incoming class.

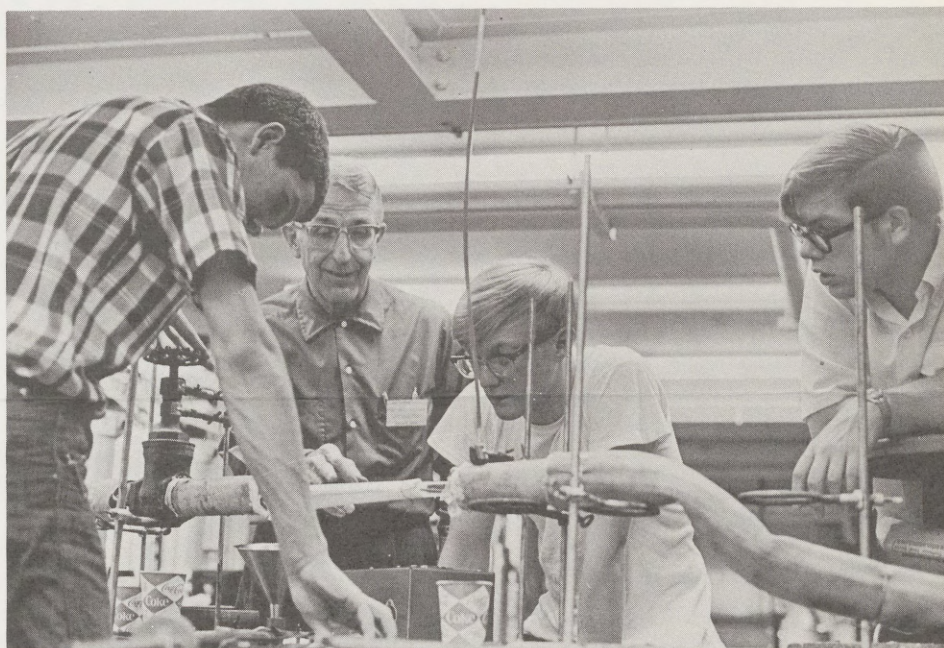
Nineteen entering freshmen ranked first in their graduating high school classes, while 13 ranked second and 11 ranked third. Actually, 11 per cent of the incoming students ranked among the top three positions in their senior classes.

Five of them were National Merit Scholars; 12 were semi-finalists and 18 received letters of commendation.

Perhaps the most significant statistic about the class is the number of "Hoosier Scholars." Of the 259 Indiana boys enrolled in the class, 188—or 72 per cent—are Hoosier Scholars. The honor entitles them to \$800 per year toward their tuition at Rose.

What is even more impressive about the number of Hoosier Scholars is that this figure constitutes approximately 12 per cent of all male Hoosier Scholars entering the 35 Indiana colleges and universities this fall.

The neighboring states of Illinois and Ohio followed the Hoosier state with the number of incoming freshmen with 46 and 40 men respectively. Between six and 10 members are from high schools in Kentucky, Pennsylvania, New York and New Jersey. Two men are coming from California, Connecticut and Florida, with Alaska, Hawaii, Iowa, Louisiana, Maryland, Michigan, Minnesota, Nebraska,



'FIRST TEAM' INSTRUCTION—Dr. Oran Knudsen, chairman of the chemistry department and a member of the "Operation Catapult" faculty, works with a project team during the summer incentive program for high school seniors. A "first team" faculty and exposure to the finest laboratory equipment available are two major reasons for the popularity of the program.

105 Preps Look at College Life During '69 Catapult Programs

One hundred five high school boys with the aptitude and interest to pursue engineering or science as a career took a month-long look at college life under the most ideal conditions during the two sessions of "Operation Catapult" at Rose this summer.

With many of the facilities at their full command, the 16 and 17-year-old high school seniors came from as far away as New Jersey, Massachusetts and Texas for the unique project-oriented program, and it will come as no surprise if about seven out of 10 boys who participated return to the campus as freshmen next fall.

For over the first two years of the program, approximately 60 per cent of the boys in the inaugural program and more than 70 per cent (84 boys) of the expanded 1968 "Catapult" program have elected to attend Rose.

Oklahoma, Tennessee, Washington, Wisconsin and Wyoming each sending one man to Rose.

Although designed to stimulate an interest in engineering and sciences through small group study and employment of the "scientific method" of investigation, the program does much more.

"Operation Catapult" not only introduces the boys to scientific equipment, distinguished educators and an environment not available at the high school level, but, in most cases, helps them make vital decisions concerning engineering and science and preparation for college. Those who choose not to enter science or engineering also benefit from the program.

Under the direction of veteran college teachers such as Prof. Herman Moench, Dr. Oran Knudsen and Prof. Alfred Schmidt, the students tackle college-level problems including hydrodynamics, laminar flow, use of an anti-gravity, friction-reducing additives, viscosity of oil, and the testing of tires with laser light.

Class of '69 Starts at \$10,000 Plus Per Year

How good is a graduate of Rose Polytechnic Institute?

One way to tell is to compare his starting salary with the national average for beginning engineers and scientists. The 1969 Rose graduate started considerably higher—and he was sought after by from six to 10 recruiters from Industry, government and the nation's leading graduate schools.

In fact, more than 400 companies converged on Rose and came up with a handsome \$840 average monthly salary for engineering graduates, according to Paul B. Headdy, director of placement. Mathematics majors were not far behind with an \$828 starting salary.

Although there were too few chemists, physicists and biological engineers going directly into industry to arrive at any significant conclusions, the lone biological engineer started at the average engineering salary.

Five of the nine chemistry graduates who reported were entering graduate school, one joined the Peace Corps and three others went with industry at slightly more than \$800 per month.

Again, General Motors was the most successful recruiter as it landed 25 men—or more than 10 per cent of the class. Westinghouse took five, while Cummings Engine, Du Pont, McDonnell-Douglas, General Electric and Monsanto each were successful in getting four men.

Other firms recruiting more than one '69 graduate were American Oil Co., Ford Motor Company, B. F. Goodrich, IBM, Goodyear, Johns Hopkins Applied Physics Laboratory, Marathon Oil, Mead Corporation, Motorola, National Cash Register, Procter and Gamble, Texaco, Texas Gas Transmission and Texas Instruments.

Approximately 15 per cent of the class will be going directly to graduate school on a fulltime basis, the largest number having selected graduate schools of business. Others either followed their undergraduate disciplines or indicated acceptance by a law school or some phase of medicine.

The salaries represented a rise of more than \$60 per month over last year's starting rates. Electrical engineers made the largest gains among engineering disciplines, while mathematics led all majors with an average increase of nearly \$100 per month.



TRIANGLE CONSTRUCTION—Although delayed as much as two weeks by rains, members of Triangle Fraternity are still hopeful of moving into their new house on the east edge of the campus in September. Triangle became the second fraternity to build on "Fraternity Row." Sigma Nu is expected to join Triangle and Alpha Tau Omega next year.

'Engineering for Benefit of Man' Theme of Annual Alumni Institute

Is there profit in engineering for the benefit of man?

This is the question alumni, guest speakers and faculty members of Rose will consider during the annual Alumni Institute during Homecoming '69, Oct. 17-18.

Dr. Robert M. Arthur, chairman of the biological engineering department at Rose, will direct activities for the institute intended to shed light on engineering questions related to health, medicine, safety and environmental control.

According to Dr. Arthur, the institute will assess problems of safety, medicine and environmental control as they apply to engineering. The need for a new awareness by the engineer and the need for the analytical, creative engineer in these special areas also will be discussed during the program.

The institute also will delve into what industry (some companies, in particular) and the government are doing in these areas and at the same time project their respective roles in the future.

A number of Rose graduates will par-

ticipate in the program. At the time of publication, ten of 16 alumni asked to participate in the program had indicated their intentions to participate in the formal program.

Included on the program are Byron G. MacNabb (x-'32), John W. Welch ('43) David Starnes ('62), James Onnen ('60), David J. Kelyon ('67), H. Loren Thompson ('34), Paul Gottfried ('49), Charles E. Skidmore ('58), Stephen D. Ban ('62) and Gene L. Mrava ('57). All engineering positions related to medicine, health or environmental control.

The general format of the institute will allow for presentation and discussion of six questions:

- (1) How does the group of industries you are associated with "benefit man"?
- (2) How does your particular company "benefit man"?
- (3) What knowledge do you lack to do the job better?
- (4) What are the plans for the future?
- (5) Should government play a larger role in your operations which "benefit man"?
- (6) Is there "profit" in engineering for the "benefit of man"?

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Prof. Schmidt Receives Dean's Teacher Award

"The key to good teaching is to find a good school . . . one with a fine student body . . . and then let the students alone as much as you can."

Those were the words of Prof. Alfred R. Schmidt as he accepted the Dean's Outstanding Teacher Award during the 91st Rose Polytechnic commencement exercises.

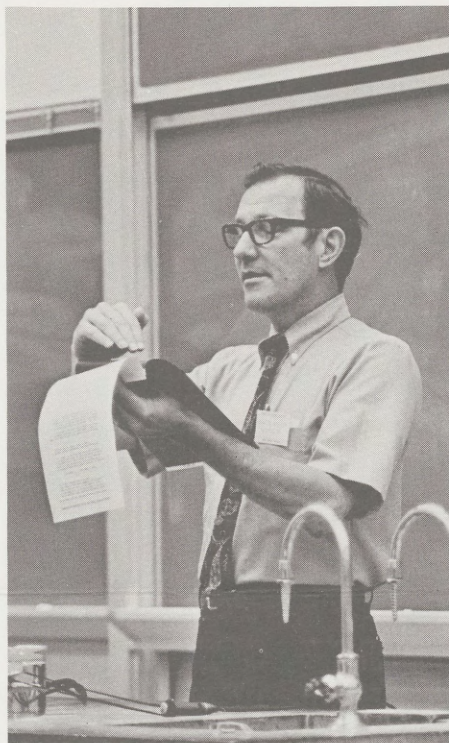
While the statement is very accurate in some respects, anyone who has ever taken a mathematics course at Rose is aware that there is much more to teaching mathematics than "letting students alone."

And those who have been fortunate enough to be in a mathematics class under Prof. Schmidt know that he is a master at presenting his subject matter and "getting students over mathematical hurdles."

Prof. Schmidt, who was graduated from Rose with a mechanical engineering degree in November of 1949, has been a member of the faculty since his graduation.

With the exception of leaves of absence for graduate work at Purdue University, his service has been continuous at Rose. He was promoted to associate professor in 1953 and to full professor in 1958.

Prof. Schmidt also serves as director



Prof. Al Schmidt

of summer programs at Rose, including the directorship of "Operation Catapult". He has served as faculty adviser to Lambda Chi Alpha fraternity since 1951, and is a former adviser to Blue Key and Tau Beta Pi.

Active in faculty affairs, he has served on curriculum, tuition, grants and loans; rules, and freshman committees. He also is a member of the president's commission on the quality of education.

Rose to Open Drills to 60 Grid Prospects

With the sports scene now shifted to football, Coach Bob Bergman is preparing to open pre-season drills Sept. 8 with 60 candidates—most of them freshmen and sophomores eager to get Engineer football back on a winning note.

The major tasks facing Bergman and his assistants in the two short weeks before the home opener will be finding a quarterback to replace veteran Charlie Hills and shoring up the defensive secondary, a trouble spot for the Engineers the last two seasons.

Returning for a third season are Roger Ward, Dayton, Ohio, and Tom Merrill, Terre Haute, who led the Engineers' respected running attack last year. Lineman Clint Cathcart and Dennis Smith are back for their fourth and third seasons respectively, while sophomore standouts Dave Burgner, an end from Veedersburg, and linebacker Norm Klein, Arlington Heights, Ill., lead the contingent of second-year men.

1969 SCHEDULE

Sept. 17	Concordia (Chicago)
Oct. 4	at Principia
Oct. 11	at Indiana Central
Oct. 18	Hanover
Oct. 25	at Illinois College
Nov. 1	St. Procopius
Nov. 8	at Earlham
Nov. 15	Wilmington

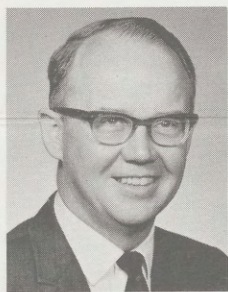
Irvin, Newlin and Whitehouse Nominees for Alumni Veep

Three alumni have been nominated for the office of vice president of the Rose Alumni Association, according to Anthony G. Blake ('31), secretary-treasurer.

Nominated for the office which will lead to the presidency of the association during the 1971-72 term were Howard H. Irvin (Feb. '43), John T. Newlin (Feb. '43) and Vernon E. Whitehouse ('40).

Ballots will be mailed to all alumni in September, with tabulation of the election scheduled for Homecoming Weekend Oct. 17-18.

All three have been active in alumni affairs since their graduation and currently are serving the Alumni Association in some capacity.



Newlin

Irvin, president and general manager of the Marbon International Division of Borg-Warner's Chemicals & Plastics Group, currently is chairman of the committee on continuing education.

Headquartered in Chicago, Irvin has been with Marbon for 25 years and now heads a division which oversees all foreign plants, sales, plastics processing and technology licensing.

Newlin, president of Newlin-Johnson Co., Inc., of Terre Haute, currently is serving as chairman of the operating committee on fund raising.

Following three years of service with the U.S. Army Corps of Engineers in the Pacific during World War II, he re-



Irvin

turned to Rose where he taught civil engineering until he joined the Terre Haute realty firm in 1952. He continued to teach applied mechanics at Rose for four years on a part-time basis.

Whitehouse, chief project engineer, Special Construction, Louisville Gas and Electric Company, currently is president of the Louisville Rose Tech Club.

Following a tour of duty with the U.S. Army Corps of Engineers in Europe during World War II, he rejoined Louisville Gas where he has held various engineering positions leading to chief project engineer for the utility.



Whitehouse

Terre Haute, Ind.
at
PAID
Postage
Second Class

Published January,
March, May, July,
September and November by Rose Polytechnic Insti-
tute at Terre Haute, Ind. 47803. Kent Harris, Editor.

ROSE ECHOES

Engineer Sportscene

3 Seniors Receive Coveted Rose Blanket Awards

Three Rose seniors who have shown outstanding leadership in their respective sports for the last four years are winners of the coveted Blanket Award—highest athletic honor for an Engineer.

Top honors went to George Shaver, Royerton; Pete Doenges, Olney, Ill., and Doug Roof, Kettering, Ohio, as more than 90 athletes, managers and cheerleaders were honored by Rose following the completion of Spring sports.

Shaver, who had started 92 consecutive games at center until he was temporarily sidelined by illness mid-way through the 1968-69 campaign, earned his blanket as the leading all-time rebounder (1,153) and the third all-time scorer (1,143 points) at Rose.

Captain during his senior year, the 6-4 Shaver was an all-conference selection his sophomore and junior years and certainly would have repeated as a senior had he not suffered a broken hand which forced him to miss the last five games of the season.

Doenges, who played both offense and defense at tackle in nearly 40 games of his college football career, was an all-conference player his sophomore, junior and senior years. President of the student body, editor of The Technic and captain of the football team during his senior year, the big tackle of "high honors" distinction was an ALL-NAIA District 21 football player in 1968.

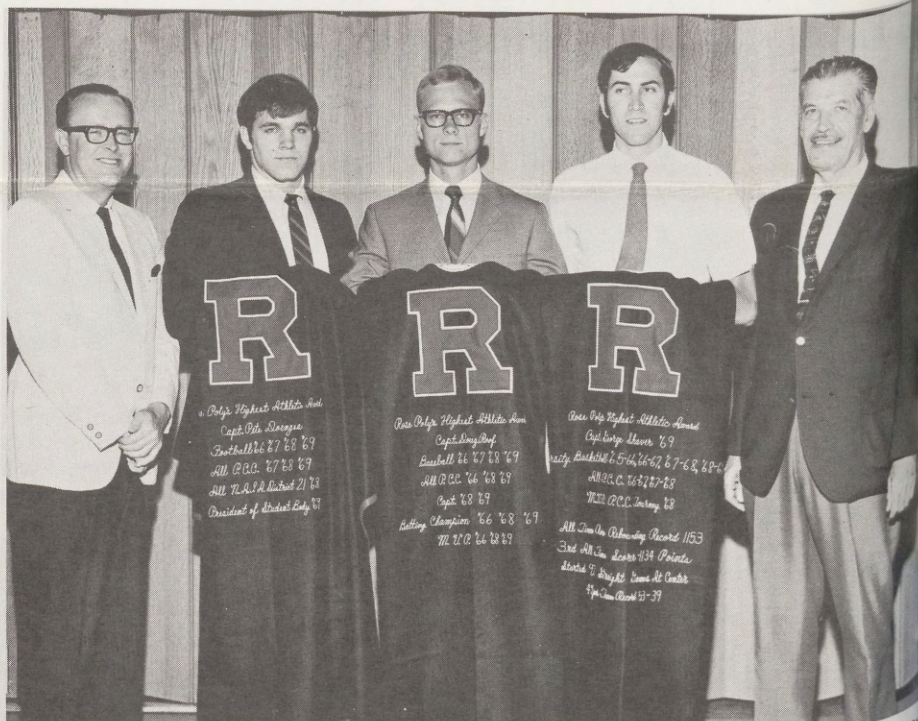
Roof, an all-conference selection all four years, was Rose's batting champion and Most Valuable Player in 1966, 1968 and 1969. An honors graduate, the classy infielder finished the '69 season with a .392 batting average and owns a .375-plus batting average for his collegiate career.

Don Ings, a junior from Indianapolis and the most prolific scorer in the history of basketball at Rose, was named MVP in the cage sport. He also picked up the free throw award with an 86.7 accuracy mark and the award for the leading scorer in track and field.

Doenges and Roof were named MVP in football and baseball, while fellow seniors Larry Lynn, Bicknell; Bill Spence, Crosby, Tex., and Sid Stone, Madison, were MVP in cross country,

tennis and golf respectively. Gary Hudson, Danville, Ill., junior was most valuable in rifle while the outstanding football award for defense went to Norbert Klein, a freshman linebacker from Arlington Heights, Ill.

In addition to the Rose awards, football athletes received District 21 All-NAIA team certificates. Roger Ward, Dayton, Ohio, was all-district football, while Ings, Stone and Buck Beranek, Indianapolis, won similar honors in basketball, golf and baseball respectively.



OUTSTANDING ATHLETES—Pete Doenges, Doug Roof and George Shaver (left to right) hold Rose blankets they received as the outstanding senior athletes. Athletic Director John Mutchner (left) and Dr. John A. Logan, president, pose with the trio following the presentation of the awards at the annual All-Sports Honors Assembly.