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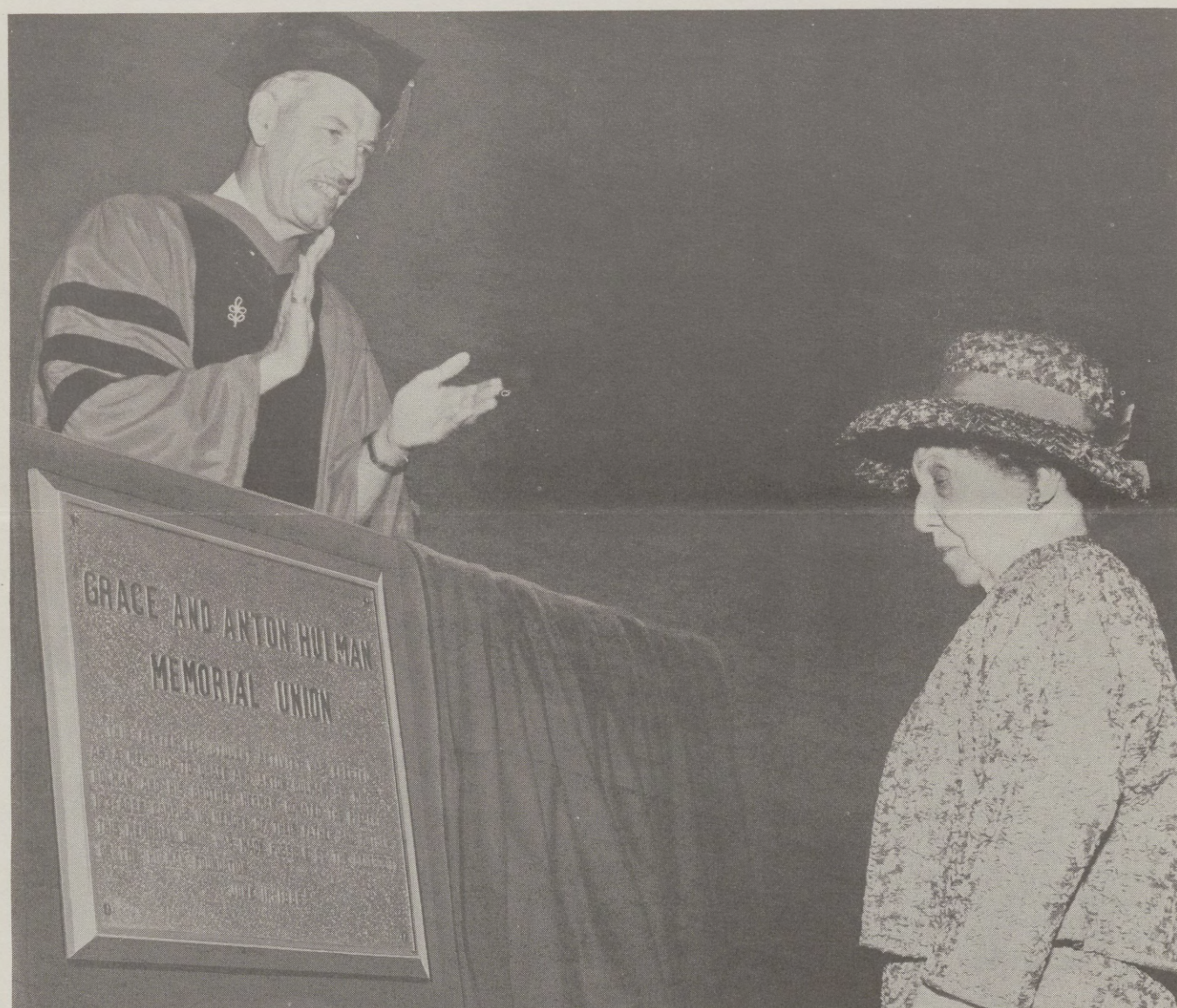
Echoes Staff

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FUND DRIVE PROGRESS

The Centennial Development capital fund drive topped \$1.5 million at press time with expectations of reaching and exceeding first phase goal of \$1.775 million for three new residence halls, new student union-dining hall and remodeling of classrooms and labs in the old Main building. Objective of three-phase, 10-year drive is \$12.5 million by 1974, Rose's Centennial.

DEGREES EARNED

A record 134 degrees were awarded at the 88th commencement exercises this year; 130 received bachelor's degrees, four won master's degrees. Last year, 98 bachelor's and three master's degrees were awarded. Leading all others this year were degrees in electrical engineering, 33. Next was mechanical engineering with 31; civil engineering, 22; mathematics and chemical engineering, 14 each; physics, 7; chemistry, 6; and undesignated, 2. Last year M.E. led; E.E. was second and C.E. was fifth, behind CH.E. and math.

NEW DEGREE

This was the first year an undesignated Bachelor of Science degree was awarded. The program for it: (1) permits students to major in areas where no designated degree is offered, such as bio-engineering; or (2) lets students sample, more than electives allow, courses outside the designated degree programs; or (3) allows students to take more courses in humanities and social sciences, for instance, as preparation for graduate study in law, economics, etc.

HONORARY DEGREES

Honorary Doctor's degrees were given to Dr. JOHN BARDEEN of the University of Illinois, father of the transistor, who won the Nobel prize for that discovery; and Dr. C. A. VANDERWERF, president of Hope College, Holland, Mich., award-winning research chemist and our commencement speaker.

SOCIETY'S HIGH PRIESTS

Dr. VanderWerf said in his commencement address: "... you, as expertly trained scientists and technologists, will be called upon to lead the great scientific revolution which, for better or for worse, has thrust each one of you into the seething maelstrom of history. You possess revolutionary new knowledge and power. Science and technology commands the respect, if not the reverence, of society. . . . You will be the high priests of our society. Whether you like it or not, you will be looked upon as the oracles of the last third of the 20th century. The mantle of leadership will be thrust upon you—as willing or unwilling candidates. And, fortunately, leaders are made, not born . . . for the crucial issues of our day, leaders must be made . . . who will direct the use of science and technology for freedom, rather than slavery, for beauty, order and justice . . ."

NEW BUILDINGS DEDICATED

Three of four newest buildings on campus were dedicated at commencement. The student center was named Hulman Memorial Union, dedicated to GRACE (photo, front page) and ANTON HULMAN SR., parents of ANTON HULMAN JR., owner of the world famous Indianapolis "500" Speedway and life member of Rose board. Anton Hulman Sr. and brother, Herman, gave Rose 123 acres that are now its campus as memorial to their parents back in 1917. One of three new residence halls was named Scharpenberg Hall in honor of 1907 Rose grad CHARLES SCHARPENBERG and wife. Another dorm was named Mees Hall in memory of Dr. CARL LEO MEES, fourth Rose president, by 1919 Rose grad FRED CRAPO, another life member of Rose board.

ROSE GRADS COST MORE

Average starting salary of Rose graduates this year is \$678 a month, well above the \$650 national average and up six per cent from last year's Rose average of \$640. In 1964, Rose average was \$615. Leader this year at Rose were chemical engineers with \$697 average monthly starting salary (national average \$677). Others were mechanicals, \$686; electricals, \$684; civils and physicists, \$675; mathematicians, \$671 (national average, \$600); and chemists, \$658 (national average, \$625). Top for engineers nationally was \$725, according to U.S. Labor Department.

A NEW COMPUTER

Rose is the first midwestern school (maybe the first school anywhere) to get one of IBM's newest computers, the 1130, number 61 off the assembly line. Although desk-sized, it's fast: 120,000 additions per second! It takes just 3.6 millionths of a second to answer a question. Rose now has two computers for all students to use to solve lab problems; a third is being studied for the new learning center.

ABOUT ENGINEERING EDUCATION

Pres. JOHN LOGAN, featured speaker on management science at the National Conference on Solid Wastes Management at University of California, said: "... there is a logical argument that engineering education is now taught backwards. Most of the time available for undergraduate study is spent in developing an effective background of mathematics, science and engineering science in order to design components. This leaves the graduate with the idea that engineering consists essentially of the design of bridges (etc.). But, by the time that it has been decided to build a six-lane steel bridge across a given river, most of the engineering work has already been done: the decision that the bridge is necessary; its location; its effect on regional and city planning; its type; its size; its economic feasibility. A broad systems understanding (to move back from the trees of specialization to examine the overall forest that makes up the problem as a whole) of engineering puts these problems in their proper perspective; a consideration of engineering systems should therefore precede component design in the educational plan rather than follow it, as is present practice."

STUDY IN EUROPE

Rose's second annual Summer Study in Europe program enrolled 14 students this year for six-weeks study at University of Salzburg, Austria, where they'll learn elementary German from a local professor and general semantics from Prof. GORDON HAIST, head of Rose's humanities department and tour director. They will also visit Paris, Rome, Vienna and London. Last year 17 students studied English literature at the University of Leeds, England.

SUMMER SCHOOLS

Summer school will be held for first time this year with courses in calculus, physics and economics from Aug. 14 to Sept. 10, same time as fourth annual Pre-Freshman Summer Institute at which chemistry, math, communication skills and engineering problems are taught in-coming students. Both are steps on way to year-around operation.

NSF TRY-OUT HERE

Rose has been singled out by the National Science Foundation for an experiment in research support. If it works here, the whole pattern of NSF support could be changed. Up to now, it has stuck with the well-known researchers. The result has been that most of the money goes to only a few large institutions. Breaking that pattern for the first time, NSF has awarded a research grant to a small school and not-so-well known investigator: \$45,800 to Rose's DR. RALPH LLEWELLYN for basic research in nuclear physics. The grant is also an experiment in research cooperation between a small school and a nearby giant, the University of Illinois: Rose will do the experiments and Illinois will supply the special equipment and consultant, DR. HANS FRAUENFELDER, one of the foremost authorities on nuclear physics, who conceived the whole arrangement after he was visiting scientist here in 1964.

ROSE ECHOES

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