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Rose Establishes Biological Engineering Department

What is believed to be one of the first separate Biological Engineering departments in the nation has been established at Rose Polytechnic Institute following a four-year trial program.

The new department will grant both B.S. and M.S. degrees in Biological Engineering.

The announcement was made by the Rose Board of Managers and Dr. John A. Logan, President of Rose.

The new department will be staffed by Dr. Robert M. Arthur, professor and

chairman of the department; Dr. Frank Freedman, assistant professor of Biological Sciences and Engineering, and Dr. Michael Breitmeyer, assistant professor of Biological Engineering. All members have basic degrees in engineering and have done advanced work in some area of biology.

The last new department established at Rose Polytechnic was Chemical Engineering, which was organized in 1948 as a department separate from Chemistry. It is believed that Rose (in 1911) was among the first engineering schools to

award a degree in Chemical Engineering.

Perhaps the same kind of specialized need which resulted in the establishment of the Rose Chemical Engineering Department was the incentive for the formation of the new Biological Engineering Department — this time the increasing need for engineers trained both in Biology and Engineering.

Qualified Graduates Needed

Biological Engineers who graduate at Rose will be utilized by the aerospace program, in environmental control, for

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Voting Urged On Revisions To Constitution

Included in this issue of Rose Echoes are sections of the Rose Alumni Association Constitution and By-Laws together with suggested changes and the reasons the changes have been proposed.

At the last annual meeting, John B. Stineman ('37), president of the Association for 1965-66, suggested that changes might be initiated which would make the Constitution and By-Laws more effective and up to date. Fred Bogardus ('32) was appointed chairman of an ad hoc committee by D. P. Cromwell ('19), 1966-67 President.

Other members of the committee are Byron G. McNabb ('32), Russell C. Cox ('47), Robert A. Mewhinney ('59), S. S. Forsythe ('24), A. G. Blake ('31), Harold D. Brown Jr. ('57), Fred E. Mueller ('48), William B. Nicewanger III ('63) and John J. O'Mara ('30).

A ballot will be included with the usual Homecoming mailing and changes in the Constitution will be made if two-thirds or more of those returning ballots indicate they favor a change.

There will also be a poll in the Homecoming mailing to get an expression of opinion from alumni as to changes in the By-Laws. Included in the By-Laws changes is one regarding the Homecoming banquet. This matter will be discussed at the annual meeting.

All alumni are urged to return ballots and to take part in making their wishes known on proposed changes.

Institute on Systems Engineering Planned As Homecoming Feature

Although late-July temperatures were in the high 80's, more in tune with vacations and water skiing than football, plans were rolling ahead early for the 1967 Rose Homecoming scheduled for November 3-4.

Again this year, almost all events of the two-day celebration will be on the campus using the new facilities which will be of interest to every graduate. Many offers of cooperation from active alumni have come to the Alumni Office and the weekend promises to be an enthusiastic and enjoyable one. D. P. Cromwell ('19) is president of the Rose Alumni Association this year and Adam Grafe ('25) is vice president.

Alumni Institute Program

Of special interest to alumni will be the Friday, Nov. 3, Alumni Institute program on Systems Engineering which

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Rose Receives Grant To Improve Library

A grant of \$35,831 from the U.S. Department of Health, Education and Welfare has been received by Rose for the acquisition of books, periodicals, documents and other library materials, it was announced by Dr. John A. Logan, President.

The basic grant of \$5,000 will be matched by Rose funds and is for all library purposes other than construction. A supplemental grant of \$3,831, based on enrollment, does not require matching funds and will be used to improve the size and quality of library resources.

A special purpose grant of \$27,000 was given to Rose as an institution which specifically needs and can substantially benefit from additional library resources.



HONORARY DEGREES—Four outstanding leaders were awarded honorary doctorates by Rose Polytechnic Institute during the June 10 Commencement exercises. From left to right are: Dr. Benjamin Blumberg of Terre Haute, who received a Doctor of Laws degree; Dr. Henry Y. Offutt, chairman of the Rose Board of Managers, who awarded the degrees; Dr. John A. Logan, President of Rose; Dr. Kurt F. Pantzer of Indianapolis, who received a Doctor of Letters degree; Dr. Alan C. Rankin, president of Indiana State University, who received a Doctor of Letters degree, and Dr. William F. Lisman of Batavia, Ill., who received a Doctor of Engineering degree.

Rose Honors Four Outstanding Leaders With Honorary Degrees

Four outstanding leaders were honored by Rose Polytechnic Institute during the June 10 Commencement exercises when they were awarded honorary doctorates.

Doctor of Letters degrees were conferred upon Dr. Alan C. Rankin, president of Indiana State University, and Kurt F. Pantzer, distinguished attorney and a member of the Indianapolis law firm of Barnes, Hickam, Pantzer and Boyd.

A Doctor of Engineering degree was given to William F. Lisman ('24), president of the Furnas Electric Co., Batavia, Ill., and a Doctor of Laws degree to Benjamin Blumberg, Terre Haute financier and philanthropist.

Dr. Rankin, who delivered the Commencement address, has been president of ISU since 1964. He was honored for the distinguished leadership he has provided his institution and the Terre Haute community. Dr. Rankin has been a staunch advocate of closer relationships between ISU and Rose.

Dr. Pantzer, a great friend of private education in Indiana, is a member of the Board of Governors of the Associated Colleges of Indiana. He is on the board of directors of several industries and has also served as a professorial lecturer at the Indiana University Law School since 1956.

Dr. Lisman, who received his B.S. degree in electrical engineering at Rose,

has had a distinguished career as an administrator-engineer and has been a dynamic force in changes which have been made in his industry.

Dr. Blumberg, well known for his creative organizational work in behalf of civic, educational and religious institutions, was, until 1958 active in the operation of the Security Loan Co. with headquarters in Terre Haute operating 44 offices in Illinois, Indiana and Ohio. A supporter of projects for the civic betterment of Terre Haute, he was also a strong force in the Rose Centennial Development Program. The Max and Theresa Blumberg Residence Hall, dedicated during Commencement exercises, was named for his parents.

Institute Receives \$3,473 From GE Foundation

Rose Polytechnic Institute has received \$3,473.76 as a result of gifts given through the General Electric Foundation's Corporate Alumnus Program and matching gifts from the Foundation in 1966.

The Rose gift was one of 679 matching grants totaling more than \$948,000 made to colleges and universities across the nation. The program matches on a dollar-for-dollar basis amounts up to \$2,000 given the schools by employees of GE.

Rose Starts New Program

(From Page 1)

designing and developing new instruments for medical diagnosis and analysis, for the development of prosthetic devices, by pharmaceutical companies for analysis of biological data and in the production of antibiotics, by manufacturers of pollution control devices, for the analysis of biological phenomena utilizing engineering techniques, and by educational institutes and governmental agencies engaged in biological engineering research.

Establishment of the new Rose department followed study beginning in May, 1963, by a Committee on Applied Biology and Bioengineering. The members, who represented nearly all departments of the Institute, were: Don Dekker, assistant professor of Mechanical Engineering; Dr. Charles Rogers, associate professor and chairman of the Electrical Engineering Department; Dr. Ralph Llewellyn, associate professor and acting chairman of the Physics Department; Dr. Benjamin Benjaminov, professor of Chemistry; Prof. Alfred Schmidt of the Mathematics Department; Dr. Warren Bowden, associate professor of Chemical Engineering, and Dr. Robert Arthur, professor and chairman of the new Biological Engineering Department.

Committee Objectives

Objectives of the committee, established by Dr. Logan, were to:

- 1- Explore the possibility of establishing an area of biological science and engineering at Rose, including pre-medical, pre-dental and pre-veterinary.
- 2- Establish the limits of such a program considering staff requirements, facilities, and cooperative programs with other schools.
- 3- Approve subject matter of biological science and bio-engineering courses.

The new department is housed in quarters provided through funds raised in the First Phase of the Capital Development Program. Excavation under the Main Building has made possible the addition of 1,200 square feet of air-conditioned laboratory space, three staff offices and offices for four graduate students. Equipment available at this time includes the necessary glassware and chemicals, surgical instruments, an analytical balance, centrifuge, hyperbaric chamber and various electronic recording devices. Facilities of other Rose departments will also be used including the analog and digital computers.



FORD GRANT—Ken West (center), personnel and organization manager of the general parts division, Ford Motor Co., presents a \$5,000 check to Dr. John A. Logan, President of Rose, as the first of three installments on a \$15,000 grant by the Ford Fund to the Centennial Development Campaign. At left is John L. Bloxsome, Rose vice president for development.

Support for Institute Will Cost You Less After Bill Passage

Indiana taxpayers may now make more of their own decisions about how they want to support higher education following passage of Senate Bill 335 by the 1967 Indiana Legislature.

The bill provides that an individual taxpayer may take a credit, not a deduction of 20 percent of his adjusted gross income tax or \$50, whichever is the lesser.

For example, if his Indiana adjusted gross income is \$10,000 his adjusted gross income tax (at 2 per cent) would be \$200.

From an \$80 gift to Rose, he could subtract \$40 from his adjusted gross income tax payment and the gift to Rose would cost only \$40.

In addition, he could also get a deduction on his federal income tax. If he files an individual return, his approximate federal tax saving would be \$22.

An \$80 gift to Rose would, therefore, cost only \$18.

For example, a person with a taxable income of \$10,000 may contribute \$80 to Rose and claim a state tax credit of \$40. In addition, he may claim a federal tax allowance of \$17.60.

The \$80 gift to Rose for a person with a taxable income of \$10,000 will, therefore, cost him only \$22.40.

An even greater credit is available to corporations. If a corporation makes a gift to Rose, it may take an Indiana tax credit for 50 per cent of its gifts to higher education equal to 5 per cent of its Indiana tax or \$500, whichever is smaller.

Rose Freshman Class, Enrollment Set Record; Qualifications High

With applications still being received and processed, Rose is certain to have the largest freshman class and the greatest total of students in history when classes begin Sept. 25.

According to figures from J. G. Lee, registrar, and Paul B. Headdy, director of admissions and placement, 303 freshman students have been accepted compared to 279 last year.

While the total number of freshmen will increase, academic qualifications of the group are similar to those of previous classes with the class rank median in the 87th percentile and 91.7 per cent from the upper two-fifths of graduating high school classes.

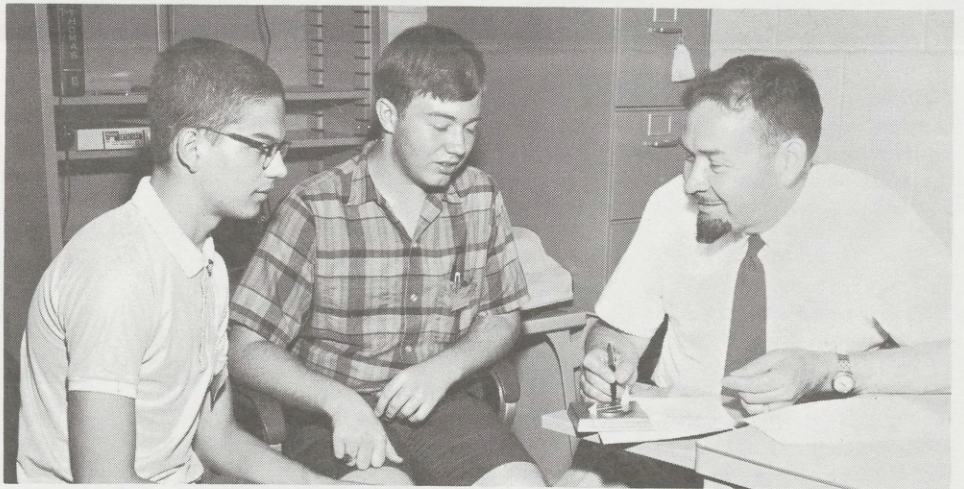
In the 1967-68 freshman class, there will be 16 high school valedictorians and 14 salutatorians; 112 of the men were members of their high school honor societies and 13 were class presidents.

Entering students will come from 19 states and foreign countries with the largest number (173) from Indiana, 47 from Illinois and 33 from Ohio.

Of the 173 freshmen from Indiana, 112 men (61 per cent) have won Indiana State Scholarships. Once again, Rose will have more "Hoosier Scholars" per capita than any other college or University in the state and will rank fourth in actual numbers following only Purdue, Indiana University and Evansville University.

Since the start of its expansion program in 1963, Rose has been able to both increase total enrollment and upgrade standards for admission while there has been a percentage decline in engineering enrollments throughout the nation.

Mechanical and electrical engineering have been chosen as the fields of study by the largest number of new students. Others, in order of their preference, are chemical engineering, mathematics, civil engineering, physics and chemistry.



CATAPULT CONFERENCE—High school students, who will be seniors this fall, discuss their accomplishments in the Rose Catapult program with Prof. Herman A. Moench, vice president for academic affairs and Josephus Collett, Distinguished Professor of Engineering. Professor Moench was a member of the program's faculty.

Institute for Alumni Added to Schedule For Homecoming

(From Page 1)

will be of benefit to both Rose graduates and the firms by whom they are employed. A comprehensive program is planned with talks by outstanding alumni and faculty members on the economic, sociological and technological aspects of the subject.

Ron Reeves ('58), Assistant Director for Development at Rose, is working on the schedule and details of the program with Howard Irvin (Feb. '43), chairman of the Committee on Continuing Education of the Association.

It is planned to bring an outstanding luncheon speaker for the occasion and alumni are urged to make early plans with their employers for this extra day at Rose which promises to be so important. The full program, with the name of speakers, will be given in a later mailing.

Reunion Dinners Friday

Alumni reunion dinners are being organized for Friday evening, Feb. 3. The class of 1917 will celebrate the famed Fiftieth Reunion under the chairmanship of Henry Gray. Other classes which have indicated they are making enthusiastic plans are those of 1907, 1912, 1922, 1927, 1932, 1937, 1942, 1947, 1952, 1957 and 1962.

Blue Key will again sponsor the colorful program and bonfire on the campus Friday evening at 8 o'clock. Coach Dick Martin urges all alumni and friends to attend the celebration to show the Fightin' Engineers their spirit and enthusiasm.

Saturday, Nov. 4, will follow the customary schedule of Homecoming events led off by the annual business meeting of the Association at 9:30 a.m. in the auditorium of the Main Building. A smorgasbord-buffet luncheon (no reservations necessary) will be served in the Field House at noon followed by the football game which will begin at 2 p.m.

Good Game Predicted

Coach Martin predicts a good game with St. Procopius of Lisle, Ill. The two teams fought to a 21-21 tie last year.

An Open House will be sponsored by the Wabash Valley Rose Tech Club immediately after the game and the Annual Banquet for alumni and their wives will begin at 6 p.m. in Hulman Memorial Union.

Festivities will end with the Homecoming Dance, also in Hulman Union,

Man Comes First

New Kind of Education Urged

International experts in environmental health have recommended a new kind of engineering education based on systems analysis, it has been disclosed by Dr. John A. Logan, President of Rose Polytechnic Institute.

Dr. Logan returned recently from Geneva, Switzerland, where he was chairman of the World Health Organization expert committee on environmental health engineering. Other representatives on the committee, which met July 4-10, were from Canada, France, the United Kingdom, India, Iran, Czechoslovakia, Italy, the United States and UNESCO.

Modern Society's Needs

According to Dr. Logan, the new kind of engineering education would provide specialists concerned about the use of science and technology for the well-being of man, utilizing the humanities, social sciences, mathematics and natural sciences to make the world a better and more pleasant place in which to live. In other words, the application of science to meet the needs of modern society.

The traditional approach to environmental health has been the control of specific diseases such as typhoid, cholera, dysentery and bilharzia.

While disease control is still of critical importance, especially in underdeveloped areas, the major needs in others such as the United States, Canada and Eastern Europe include factors such as comfort, convenience and esthetics.

Well-Being Overlooked

The committee of international experts recommends the use of systems analysis to improve the well-being of man—an important factor in his life which has been overlooked or considered only of secondary importance during the age of increased emphasis on science and the machine age.

"Overemphasis on the material gains

beginning at 10 p.m.

Complete details about Homecoming, reservations and ballots will be mailed early in Oct. The Association vice president will be elected this year with R. C. Brown ('27), H. Loren Thompson ('34) and Robert L. Royer ('April '49) as nominees.

For additional information about Homecoming or about motels in the Terre Haute area, write or call the Alumni Office.

Remember, Homecoming is November 3-4. Make your plans now.

derived from the machine age, especially in the urban areas, has resulted in the new 'diseases' of society—overcrowding, transportation difficulties, air and water pollution and blighted areas—diseases not of man's body but of his environment," said Dr. Logan.

A formal report of the World Health Organization's expert committee will be prepared and distributed to all governments of those who participated in the conference.

More Jobs Offered; Salaries Rise Again

Members of the 1967 Rose graduating class averaged 10 interviews on campus by recruiters from 179 industries, government agencies and graduate schools and, by the time they received their diplomas, had signed contracts with starting salaries higher than the national average for beginning engineers and scientists.

Figures released by the Rose admissions and placement office reveal that only about 26 per cent (47) of the interviewing firms or agencies were successful in hiring Rose graduates; 9 were able to put two graduates under contract; four men each were hired by the Chrysler Corp. and General Electric, and the Diamond Alkali Co., McDonnell Aircraft Co., Westinghouse Electric Co. and the NASA Manned Spacecraft Center were each able to sign three.

Starting salary of all 1967 Rose graduates receiving B.S. degrees in engineering was well above the national average predicted by a national news magazine with chemical engineers averaging \$740, civil engineers \$720, mechanical engineers \$718 and electrical engineers \$715. Those with majors in chemistry averaged \$696, physics majors \$680, and mathematics \$625.

Of the 102 who received B.S. degrees, 73 accepted positions in industry and government agencies, 6 entered the armed services and 5 had not disclosed their plans at the time the report was prepared.

Nearly 25 per cent of the class (23 men) will enter graduate school, five as a part of their employment. They selected 13 colleges and universities throughout the nation for their additional study including 5 who will do further work at Rose.

Degrees Given to 111 Graduates At 89th Annual Commencement

Degrees were conferred upon 111 Rose graduates at the 89th annual Commencement exercises June 10 in Shook Memorial fieldhouse.

Bachelor of Science degrees were awarded to 103, including 7 who completed requirements for the degree in March and 4 who completed their work in December.

Master of Science degrees were awarded to 8.

The largest number of degrees (32) were awarded in mechanical engineering with 24 in electrical engineering, 13 in chemical engineering, 12 in civil engineering, 10 in mathematics, 9 in chemistry and 3 in physics.

Seven Master of Science degrees were awarded in electrical engineering and one in civil engineering.

Dr. Alan Rankin, president of Indiana State University, delivered the Commencement address and John B. Stine-man ('37), project engineer with Freyn

Brothers, Inc., Cincinnati, delivered the alumni address.

Commissions in the Army Reserve were presented by Col. Robert T. Willets, professor of military science, who also presented the Army Commendation Medal to Lt. Col. Darrell Criss, dean of the faculty.

Gold Heminway Medals were presented by Prof. John L. Bloxsome, vice president for development, to Dale Helms and Barry Raff, who completed their class work with identical grade point averages of 3.93 to lead the class in scholarship.

Dr. John A. Logan, President of Rose, conferred degrees on the graduates and Dr. Henry Y. Offutt, chairman of the Rose Board of Managers, awarded the honorary degrees.

Two dedications were also a part of the exercises. Formally named were the White Memorial Chemistry Laboratory and the Max and Theresa Blumberg Residence Hall.

Key Management Personnel Develop Skills at Institute

For the second year, key members of management were helped in developing fundamental managerial skills at the Institute for Supervisory Management June 11-14 on the Rose Polytechnic Institute campus.

The institute was an activity of the American Institute of Industrial Management (AAIM), formerly known as the National Metal Trades Association. AAIM is one of the oldest management organizations in existence with 68 years experience in assisting its more than 1,500 company members in all phases of industrial relations and management education. Cosponsor of the institute was the Indiana State Chamber of Commerce.

Both basic and advanced courses were offered at Rose during the session with the advanced course open to those who completed the course last year either at Rose or Ball State. Certificates of completion were given those who completed the second year of study.

Members of the Institute stressed practical subjects of direct benefit to all levels of management.

Subjects covered included the administration of personnel policies; the supervisor's role in contract administration, discipline, hiring, induction and appraising, wage and salary administration, communications and human relations, management development and cost control; and what the supervisor should know about union relations, economics, grievance handling and labor law.

Fightin' Engineers Again Show Optimism; Depth, Experience at Nearly All Positions

With both offensive and defensive teams returning intact, there is optimism in the Fightin' Engineer camp again this year.

Coach Dick Martin and his assistant, Leo Kelley, had a record turnout of 65 candidates for the annual two week, two-a-day football practice sessions facing a target date of Sept. 6, the opening of the 1967 season.

Depth, Experience

For the first time in years, the Engineers appear to have adequate experience and depth at nearly every position. There is also more size and speed than in recent years. The greatest concern of the coaching staff is the lack of overall team speed and vacancies at the defensive end and linebacker positions.

Captains for the coming season will be John Shambach, Terry Joyce and Fred Valanti.

Shambach, a senior, is a three-year letterman tackle from Shelbyville, Ind. Joyce, a senior from Griffith, Ind., is also a three-year letter winner and plays cornerback and safety on the defensive unit. Valanti, a two-year letterman who led all Rose ground gainers last fall as a fullback, is a senior from Ossining, N.Y.

In addition to Coaches Martin and Kelley, the staff for pre-season practice is rounded out by Dr. Harold Sabbagh, coaching all offensive receivers; Duncan Murdoch, working with the defensive backs; and Dick Comer, assisting Leo Kelley with the defensive line.

John Mutchner, athletic director, will be in charge of conditioning and Til Panaranto is trainer and equipment manager.

1967 FOOTBALL SCHEDULE

Varsity Schedule

Sept. 23 - Lakeland College	Here - 2 p.m.
Sept. 30 - Illinois College	There - 2 p.m.
Oct. 7 - Indiana Central	Here - 2 p.m.
Oct. 14 - Concordia College	There - 2 p.m.
Oct. 21 - Central Methodist	There - 2 p.m.
Oct. 28 - Principia College	There - 2 p.m.
Nov. 4 - St. Procopius (Homecoming)	Here - 2 p.m.
Nov. 11 - Culver-Stockton	There - 2 p.m.
Nov. 18 - Centre College	Here - 2 p.m.

Junior Varsity Schedule

Oct. 16 - Wabash College	Here - 4 p.m.
Oct. 30 - Indiana Central	There - 4 p.m.

Committee Proposes Constitution Changes

Present Wording

Article III. Section 2. All graduates of the Rose Polytechnic Institute shall become members of this Association immediately on graduation, but their active participation in the annual business meeting following receipt of their diplomas shall be limited to the right of floor discussion without right to vote. Members shall pay such dues as the Association may from time to time direct.

Article III. Section 3. Non-graduates of the Rose Polytechnic Institute who have attended that Institute for not less than two years with a creditable record, and who have been recommended for pre-graduate membership by the Executive Committee, may become pre-graduate members by vote of the majority of the members present at any annual business meeting after their class has been graduated.

The Executive Committee may recommend only individuals who have been nominated in a communication addressed to them in writing at least one month before the annual meeting by three members having the right to vote. Pre-graduate members shall pay the same dues as members and shall have all the rights of members except that they shall not hold office.

Article V. Section 3. Nominating Committee. The five living immediate past presidents of the Association shall constitute the Nominating Committee. The chairman shall be that member who first held the office of President. It shall be the duty of the Nominating Committee to present at each annual business meeting, the names of three graduates for the office of Vice-President only. It shall also be the duty of the Nominating Committee to present at the annual business meeting every second year, the names of three graduates of at least three years standing as candidates for the office of Alumni Representative on the Board of Managers.

Article V. Section 5 e. Awards and Recognition. This committee shall make recommendations to the officers of the

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Background for Changes

Article III. Section 2. Originally Section 2 was designed to prevent a graduating class from exercising a dominant influence at the business meeting held at commencement time. The change in the meeting now eliminates this possibility, hence the revised wording.

Section 3. This section now is quite involved and seems full of unnecessary procedures. According to a recent survey of alumni directors by the American Alumni Council, the great majority of colleges and universities include as alumni all those who have attended one year or more. This broadens the base of people who may be inclined to retain an interest in the institution.

Article V. The Constitution provides for the "Honor Alumnus" award under traditional and closely prescribed rules. This Committee has made a recommendation to the Executive Committee, for a second type of award, which has never been acted on, partly due to the confusion over the Constitution's wording.

The revision would place this Committee in a strictly advisory capacity to the Executive Committee in this area. Nominations for any award would be reviewed by the Awards and Recognition Committee and action taken by the Executive Committee. Proposals for any new types of awards also would be reviewed by our Committee.

The Nominating Committee should have a representative from the Institute who can advise on the people who are active and are showing an interest in the Association and the Institute. The Director for Development seems to be one logical contact.

A Homecoming Committee specifically designated for this activity

(Continued on Page 7)

Proposed Amendments

Article III. Section 2. All graduates of Rose Polytechnic Institute shall become members of this Association immediately on graduation. Members shall pay such dues as may be provided in the By-Laws. Participation by graduates in any business meeting of the Association held within 24 hours following their graduation shall be limited to the right of floor discussion without right to vote.

Section 3. Non-graduates of Rose Polytechnic Institute who have attended the Institute for not less than one academic year, and were in good standing at the time of leaving the Institute, shall become members of the Association. Such membership shall be effective upon the date of graduation expected by the individual when in attendance at Rose Polytechnic Institute.

Non-graduate members shall pay the same dues and shall have the same rights and privileges as members, except that they shall not be eligible to hold any office as defined in Article IV of this Constitution.

Article V. Section 3. Nominating Committee. The five living immediate past presidents of the Association shall constitute the Nominating Committee. The Director for Development of the Institute shall be a member of the committee ex-officio, and without vote. The chairman shall

Section 5 e. Awards and Recognition. This committee shall review and make recommendations to the Executive Committee of the Association concerning all awards, honors, and recognitions to be conferred by the Association.

Section 5 g. Homecoming Committee. The President of the Wabash Valley Rose Tech Club shall be chairman of this committee. The President, Vice-President, and Secretary-Treasurer of the Association and the President of the Institute shall be ex-officio members of this committee. Additional members may be appointed at the discretion of the chairman. This committee shall plan and coordinate all alumni activities at the annual Homecoming.

(Continued on Page 7)



CAMPUS BEAUTY—Lights of the new Hulman Memorial Student Union are mirrored on the surface of the east lake on the Rose campus. The Student Union, which will be the focal point of Homecoming activities November 3-4, is but one of the many new improvements in campus facilities which will be of interest to alumni.

Committee Proposes Changes in Alumni Constitution

(Continued from Page 6)

Association concerning all awards and recognitions to be conferred upon members and associates of the Association. It shall be responsible for determining the type of award as well as the selection of individual recipients.

Article VIII. Section 1. According to the rules of the Board of Managers, any three graduates may nominate a candidate for an honorary degree to be conferred by Rose Polytechnic Institute.

Article IX. The annual business meeting shall be held on such date and at such time and place in the city of Terre Haute, Indiana, as the Executive Committee may designate. A banquet shall be held each year on the day of the annual business meeting at such hour and place as the Executive Committee may designate.

* * *

By-Laws

Article VIII. Amendments. These rules may be amended by a two-thirds vote of the members present at a stated meeting.

has been suggested to improve the problem of making the multitude of necessary arrangements. Certainly the Wabash Valley Tech Club is in a position to provide much assistance and should be represented.

Article IX. Annual Business Meeting. The Association violates the Constitution each year by not holding its meeting in Terre Haute. Hence, we should change the Constitution.

* * *

By-Laws

Article VIII. We should be able to amend the By-Laws by mail ballot

BALLOTS WILL BE MAILED

Alumni are urged to make their wishes known on the proposed changes to the Constitution by returning the ballots which will be included in the Homecoming mailing.

without having to wait for the annual meeting.

Article VIII. Section 1. According to the rules of the Board of Managers, any three graduates may nominate a graduate of the Institute to be a candidate for an honorary degree to be conferred by Rose Polytechnic Institute.

Article IX. Annual Business Meeting. The annual business meeting shall be held on such date and at such time and place on the campus of Rose Polytechnic Institute as the Executive Committee may designate. A banquet shall be held each year on the day of the annual business meeting at such hour and place as the Executive Committee may designate.

* * *

By-Laws

Article VIII. Amendments. These rules may be amended by a two-thirds vote of the members present at a stated meeting, or by letter ballot by a vote of two-thirds of the returned ballots.

Unified Approach Emphasized

First Catapult Session 'Success'

A new four-week summer program, "Operation Catapult," opened for the first time this summer on the Rose campus July 9 and 67 young men from high schools were unanimous in labeling the institute a success.

Coming from as far away as Florida, Texas and New Jersey, the carefully chosen group of prospective engineers and scientists, who will be high school seniors next fall, worked to supplement and integrate previous learning.

Twenty of the students were from outside Indiana, 10 from the Vigo County area, and 37 from other Indiana communities.

"Catapult" was designed not as a remedial program but to allow students to explore fundamental scientific principles and systems while living in a group on the Rose campus.

Although lectures were used, emphasis was placed on a practical problem-solving approach involving extensive laboratory work. Each student took part in individual and group projects.

After a week's orientation period involving the use of the computer, students used the equipment during the final weeks of the program.

Lectures and experiments at Rose were supplemented with talks by experts in various fields and by field trips to industries in Bloomington, Indianapolis and Terre Haute.

Recreation periods were scheduled each day using Rose facilities and students attended movies, a play and a

baseball game during the evenings.

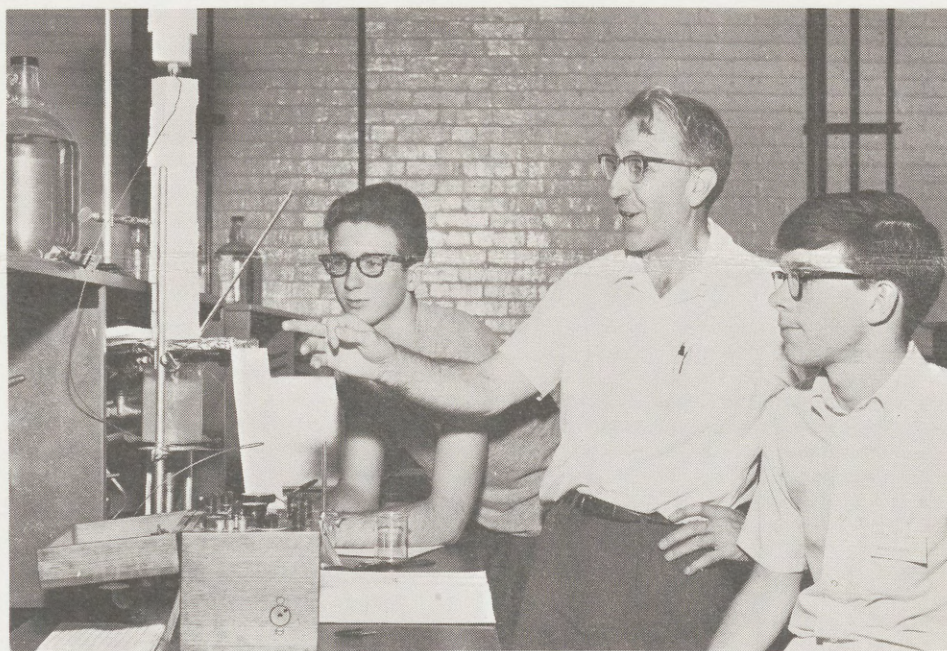
Students lived in air-conditioned dormitory rooms on the campus, took their meals in the new Hulman Memorial Student Union and lectures and laboratories were in the air-conditioned facilities of the Main Building.

The program emphasized the unified approach in which attempts were made to use insights from all areas of knowl-

edge in solving problems. The content of the course of instruction included work in mathematics, physical science, humanities and elementary engineering problems.

At the conclusion of the program, each student had the opportunity to discuss his accomplishments in individual conferences with his instructors. Certificates of attendance were awarded but no grades were given.

A notice will be sent to each student's high school indicating that he was selected for and attended the Rose summer program. This notice will be included in his high school cumulative record.



LEARNING BY DOING—Although lectures were used in the Catapult program, emphasis was placed on the practical problem-solving approach. Dr. Oran Knudsen, professor of chemistry and chairman of the department, gives two students some advice on one of the projects.