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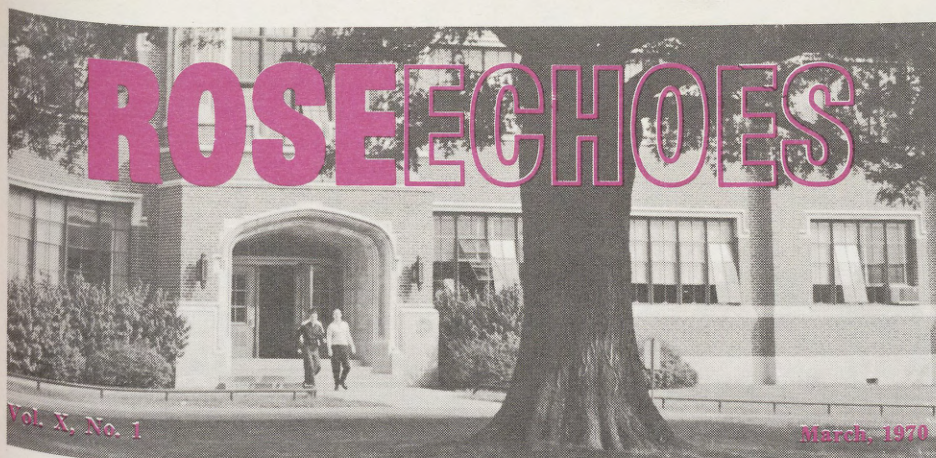
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Dr. Logan Gives Asia Challenge At Water Parley

If Asia is to avoid the mistakes which have been made in the growth of the industrial nations of the world, its material resources (water, air, land and minerals) must be developed in a rational way.

This was the central message Rose President John A. Logan conveyed to Asian leaders in a keynote address to a 15-nation conference on water resource development in Bangkok, Thailand, in late January.

Sponsored jointly by the U.S. State Department and the U.S. Department of Commerce, the conference was attended by engineers, planners and public officials throughout all of Asia for the purpose of discussing the role of water resources in social and economic development.

After urging the Asian leaders to avoid making the mistakes others have made in water resource development, Dr. Logan illustrated the alternatives they must choose if the overall program is to be successful.

"Water, for example, has a variety of uses: water supply, irrigation, waste disposal, transportation, recreation, fishing, aesthetics, industry, power and con-
(Continued on Page 2)

Board Okays Classroom Building; Completion Slated for Early Fall

A much-needed classroom building will be a reality before the end of the year, according to an announcement by Rose Polytechnic President Dr. John A. Logan and the Board of Managers of the college.

Construction Consultants, Inc., of Terre Haute, which submitted the final plans for the building, will be the general contractor on the three-story, 25,000-square foot structure which is expected to be ready for occupancy sometime during the early part of the 1970-71 academic year.

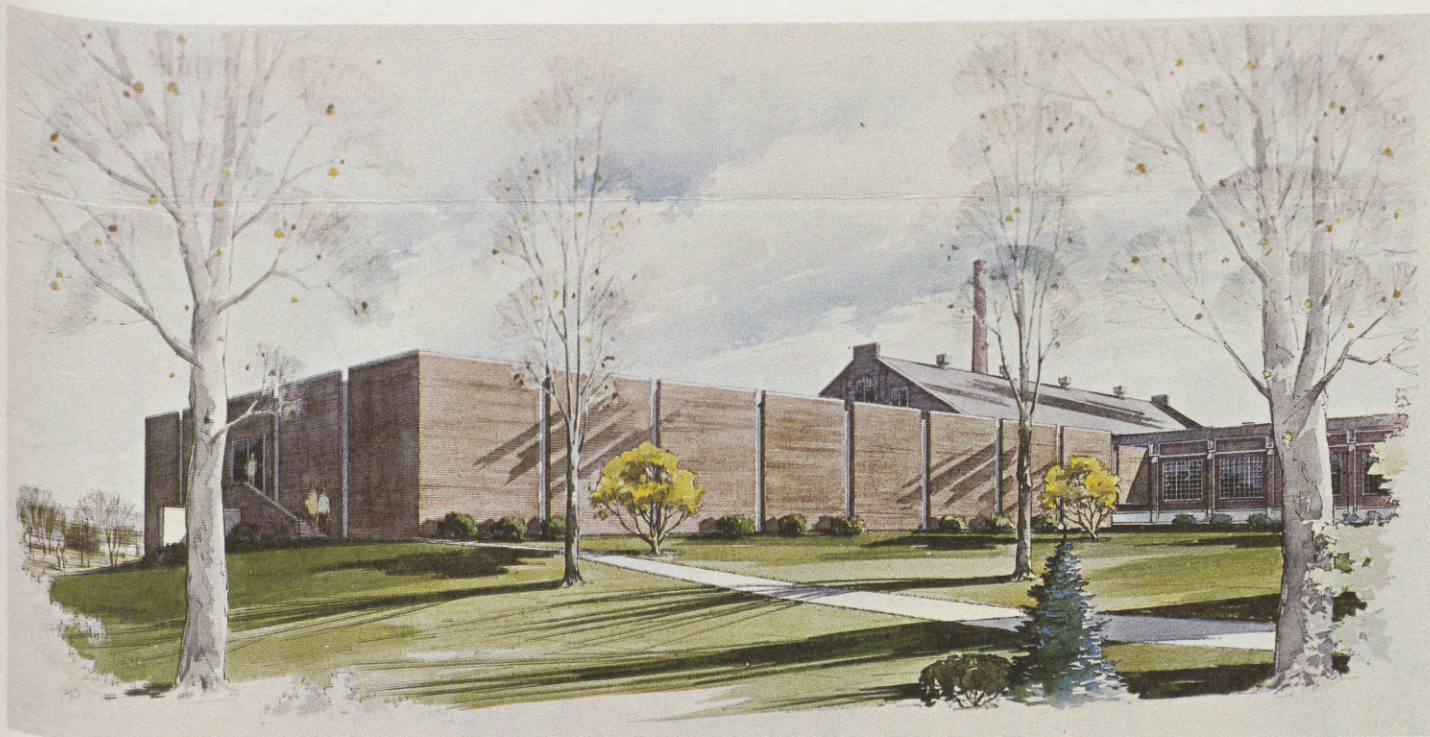
The plan approved by the Rose Board during its Winter meeting on February

27 calls for the structure to include 12 large classrooms, offices for 15 faculty members and conference areas on the second and third levels of the building to be located west and to the rear of the Main Building at Rose.

The lower level will house the neutron generator facility and related laboratory space for the physics department and a new graphics laboratory.

In announcing the half-million dollar capital improvement, Dr. Logan said he was hopeful that the building would be completed early in the first term of the 1970-71 academic year in order to meet

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Artist's conception of new Rose Polytechnic classroom building

Managers Okay Promotions for 10 on Faculty

The Board of Managers of Rose approved a record \$3.3 million budget for the 1970-71 academic year as the governing body of the college met in its Winter meeting.

The approval budget of \$3,265,025 based on an estimated enrollment of 1,075 in the Fall, represents a rise of \$500,000 over the operating budget for the current fiscal year.

The board also heard reports on academic affairs, development plans (including the proposed Resources Learning Center and the capital budget) and recommendations for honorary degrees.

Other action taken by the board included the election of one of its members to emeritus status and the approval of professorial promotions for 10 members of the faculty.

Walter L. Osmer, Terre Haute, who has served on the board since 1958, was elected to emeritus status. A 1920 graduate of Rose, Osmer was an alumni representative on the board from 1958 to 1962 and has served as secretary of the board for the last eight years.

Promoted from associate professor to full professor were Dr. P. David Smith and Dr. Harold A. Sabbagh, both of electrical engineering; Dr. Alan T. Roper, mechanical and aerospace engineering; and Dr. John T. Ying, humanities and social sciences.

Those promoted from assistant professor to associate professor were Dr. William J. Beam, physics; Dr. Michael O. Breitmeyer, biological engineering; Prof. John H. Derry, electrical engineering; Prof. Dale F. Oexmann, mathematics, and Dr. Theodore Sakano, chemistry. Rex D. Robinson was promoted from instructor to assistant professor in civil engineering.

Additionally, the board granted tenure for four members of the faculty. Those receiving tenure were Dr. Breitmeyer, Prof. Derry, Dr. Beam and Dr. Thomas Krile of the electrical engineering department.

The governing body of the school also granted Dr. Benjamin S. Benjaminov a sabbatical leave to be a visiting professor at the Institute of Chemistry of the University of Strasbourg in France during the 1970-71 academic year.



STUDENT CHALLENGE? —Construction on a 100,000-gallon elevated water tank east of the Main Building opens speculation as to whose initials or class numerals will be the first to appear on the structure. Work is being done by Universal Tank and Iron Works, Inc., of Indianapolis, a firm run by a "Rose team" headed by Tom Reese, a 1958 civil engineering graduate.

Abstracts of Institute Papers Available at Rose

Abstracts of papers given at the annual Alumni Institute have been made available by Robert T. Mees '31 and may be obtained by writing the Office of Alumni Affairs at Rose.

The institute dealt with the question, "Is There Profit in Engineering for the Benefit of Man?" The continuing education program was termed the best since the inception of alumni institute, and included a wide range of points of view on "engineering for man."

Graduates contributing to the program were:

THE "OLDER" GENERATION—Glen Sampson ('30), Dr. Chester Stock ('32), Byron MacNabb ('32), H. Loren Thompson ('34), Wayne Alexander ('38), Gene F. McConnell ('42), John Welsh ('43) and Paul Gottfried ('49).

THE "YOUNGER" GENERATION — John Bloxsome ('57), Charles Skidmore ('58), James Onnen ('60) Steve Ban, Fred Terry and David Starnes, all of '62, and David Kelton ('67).

Dr. Logan Gives Asia Challenge At Water Parley

(Continued from Page 1)

servation of birds and wild animals," he told the conference, "Many of these uses are compatible, but in other cases a choice must be made as to the ultimate social and economic benefits.

"In the United States, because of an original failure to recognize water as a resource and failure to plan its utilization on a multipurpose basis, we have glaring examples of gross pollution and the inability to develop important aspects of water use because of the irreversible decision made before priorities could be established," he continued.

Moving to the economic aspects of water resource development, Dr. Logan added that "capital investment in public water supplies, like those for malaria eradication or public health in general, should be considered as a part of the social-overhead capital needed to develop and maintain a technologically-based society."

In conclusion, Dr. Logan underscored the fact that "the improvement of a man's health is an achievement that will neither create a new need, nor in turn depend upon another capital investment for its success.

"It is unique in that it is a successful end in itself, economically basic, politically unquestionable, and in most cases technically negotiable," he continued. "Sometimes, as in the eradication of a disease, it is a single investment, ended forever, a paid-up endowment for the future.

"We (in the United States) are living on such an endowment; the underdeveloped areas are not, and this most acute difference is reflected in every facet of economic and cultural contrast."

The trip to Thailand is the second such environment-related assignment of international significance for Dr. Logan within a six-month period.

In August, Dr. Logan was called on by the World Bank to participate in an eight-day consulting trip to Uganda, Africa, for the purpose of scrutinizing proposed water supply and sewage facilities from a technical and economic point of view.

Dr. Logan, who has been president of Rose since 1962, continues to stay current in environmental health engineering through work with the World Health Organization and the National Academy of Engineers.

Ward Leads Student Movement Against Pollution

In a day when keen attention—including that of the President—has turned to problems of pollution, one Rose Polytechnic Institute student, in particular, is making a substantial contribution in the fight to prevent contamination of our environment.

He is Roger Ward, a junior biological engineering major from Dayton, Ohio, who recently was elected to a five-member committee charged with establishing a regional Student Council on Pollution and the Environment (SCOPE). Area of the regional council is the Ohio Basin Region which includes parts of Ohio, Indiana and Kentucky.

Elected to the five-member advisory committee during a seminar attended by 150 students over the quarter break, Ward is working with the committee in formulating plans for SCOPE activities in the three-state area.

SCOPE is sponsored by the U.S. Department of Interior's Federal Water Pollution Control Administration and, according to Ward, is aimed at "involving the youth of our nation in helping solve the problems of pollution."

Student advisory groups such as the one Ward is serving have been established in nine locations across the country. Each regional SCOPE will elect one member to a National SCOPE which will serve in an advisory capacity to Secretary of Interior Walter J. Hickel.

Major Activities Set for May

It's time to mark your calendar for the numerous and varied Spring activities at Rose.

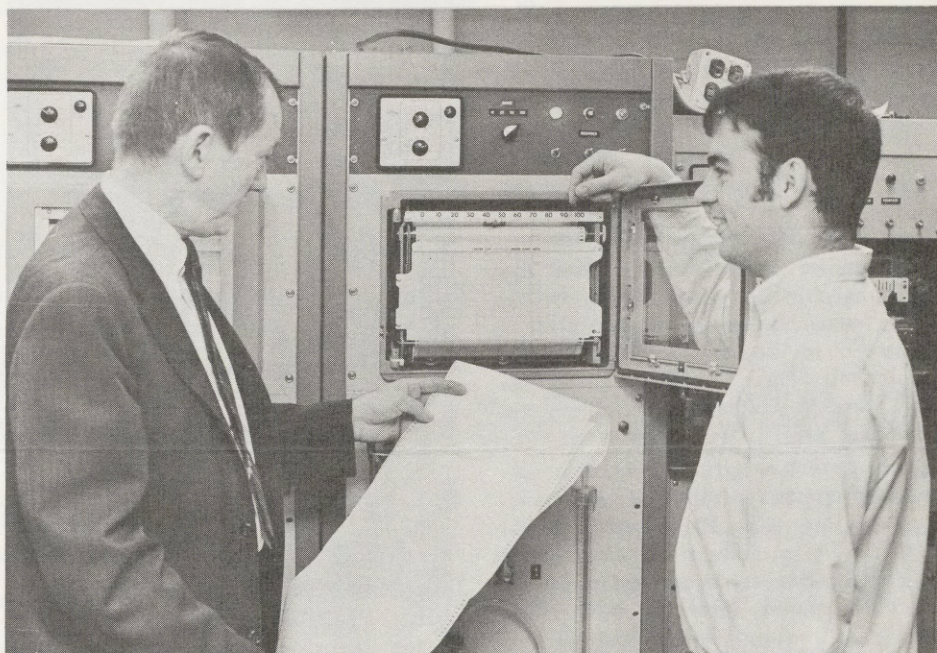
Ready?

MAY 2—PARENTS' DAY—Although there will be some activities on Friday night and Rose encourages parents to stay over Sunday, Saturday, May 2, has been scheduled as Parents' Day. We're planning new wrinkles for the event as you will see in a special announcement which will be mailed in April.

MAY 9 or 16—GREEK WEEKEND—The Inter-Fraternity Council is still trying to pick a date for the annual fraternity weekend of fun and games. There will be the traditional songfest, cart race, canoe race, dance, etc., plus "new features," according to IF President Denis Ray.

MAY 19—SCHMIDT LECTURE & PRESIDENT'S COUNCIL—J. David Carr, general superintendent of the Gary Works of United States Steel Corporation will deliver the annual Oscar C. Schmidt Memorial Lecture on free enterprise. He becomes the third recipient of the Chauncey Rose Medal (10 a.m.). Members of the President's Council, a group honored for its support of Rose, will hold its annual meeting and dinner later in the day. Organized last year, the President's Council currently has approximately 75 members.

JUNE 13—COMMENCEMENT—Two-hundred members of the class of 1970 will be graduated during Commencement exercises. Dedication of a new laboratory also is scheduled for the day.



MEASURING POLLUTION—Dr. Robert Arthur (left), chairman of the biological engineering department at Rose, instructs Roger Ward on procedures in analyzing data on the automatic respirometer. Dr. Arthur holds the patent on the instrument which determines the strength of pollutants in water by measuring the oxygen demand rates of tissue or cell cultures.

Secretary Hickel will also designate a student to serve with National SCOPE to make it a 10-member body.

Ward, who has gained practical experience in pollution detection and con-

trol during summer employment with a Miami (Ohio) Conservancy District engineering-survey team, said the groups are likely to direct their activities in three areas: (1) Plan teach-ins at colleges and universities; (2) Form SCOPE groups in special areas to deal with local problems; and (3) Plan a national student moratorium on pollution.

Ward, who has concentrated his studies toward a career in environment-related work, has been an honor student, active student leader and outstanding athlete since his matriculation to Rose three years ago.

President of his class during his freshman and sophomore years, Ward currently is serving as president of Lambda Chi Alpha fraternity and last fall was named Most Valuable Player on the Engineer football team.

He has received all-conference and all-NAIA honors as the Engineers' football scoring leader the last three seasons, and has twice lettered in baseball.

Ward is a 1967 graduate of Dayton Chaminade High School and the son of Mr. and Mrs. Forrest Ward, 255 Delaware Street, Dayton, Ohio.

Fraternities Take 144 Pledges During Winter Rush

One hundred forty students were pledged to the six social fraternities during formal Winter Rush, raising the Greek population on the Rose campus to more than 400 men for the first time.

Sigma Nu took a record 33 pledges, followed by Triangle with 25 men to fill its striking new quarter-million dollar house on Rose's "Fraternity Row."

The winter pledge classes raised the Rose inter-fraternity total to 432 men, a figure which represents slightly over 40 percent of the school's undergraduate enrollment. Three hundred forty-four men were in fraternities at the same point last year.

The current academic year has been one of progress for the fraternity movement at Rose. Rho Phi Chapter of Phi Gamma Delta fraternity received its charter in November ceremonies, while Triangle moved into its new house shortly after school opened and currently is planning dedication ceremonies for late April.

Following is a complete list of pledge classes:

ALPHA TAU OMEGA—Gary R. Kelm and Timothy R. Peterson, both of Terre Haute; Craig D. Winn, Indianapolis; Anthony J. Beyer, Waldon; Wayne R. Canfield, Bloomington; Robert L. Connon, Mishawaka; Richard A. Frushour, Batesville; William R. Heinrich, Fairview Park; Mark A. Lagomarcino, Hagerstown; Pierre C. Murray, Bluffton; Bruce L. Shipley, Greenwood; Thomas W. Schmidt, LaPorte; John M. Wey, Lawrence; and Billy Jo Williams, Scottsburg.

Also, Joseph M. Adams, Chatham, Ill.; Edward W. McCarthy, Evergreen Park, Ill.; Brennan D. Banion, South Charleston, Ohio; Carl M. Fiessinger, Covington, Ohio; John Adomaitis, Bayonne, N. J.; Robert W. Nock, Pittsburgh, Pa.; William J. Randall, Iowa City, Iowa; and Douglas C. Diefenthal, Hauppauge, N. Y.

LAMBDA CHI ALPHA — James W. Hicks and Steve R. White, both of Terre Haute; Mark R. Heidelberger, Thomas P. Land, Thomas O. Peterson, and Brett L. Schmidli, all of Indianapolis; Kenneth B. Brown, Jr., Brownstown; Gary L. Hess, Charlestown; Ernest R. Jones, Evansville; John F. Walton, Connorsville; and Terry W. White, Marengo.

Also, Kenneth L. Woddell II, Mattoon, Ill.; Stephen E. Guedet, Rockford, Ill.; David Arthur Greene, Hoopeston, Ill.;



P.H.D. PLEDGE—Winter Rush provided a few surprises, including the pledging of Dr. Michael O. Breitmeyer, associate professor of biological engineering, to Phi Gamma Delta fraternity. His pledge training is the 29-year-old professor's first association with fraternity life. "It's great," says Dr. Breitmeyer, "I am honored to be asked."

Gregory J. Smith, Berea, Ohio; William L. Thaler, Dayton, Ohio; William R. Schumann, Oklahoma City, Okla.; Paul E. Cross, St. Louis, Mo.; David A. Dibble, Whitesboro, N. Y.; Timothy A. Gray, Casper, Wyo.; and David W. Harris, St. Joseph, Mich.

PHI GAMMA DELTA—John T. Walter, Terre Haute; Donald E. Faris, Washington; Gregory B. Harbin and Bruce A. Brown, both of Vincennes; John C. Temple, Bloomington; Robert R. Entrekkin, Wanamaker; Steven G. Thomas, Brazil; Morrel E. Lowery, Bedford; Cecil L. Whitaker, Lebanon; William O. Henry, Rensselaer; Gregory N. Reising, Poseyville; and Jerome S. Andrews, Whiteland.

Also, Kenneth E. Rasner, Marshall, Ill.; James W. Rose, Evanston, Ill.; Jerry M. H. Loo, Honolulu, Hawaii; Rodney W. Smith, Louisville, Ky.; Thomas J. Stoltzmer, Venice, Fla.; Mark E. David, Lima, Ohio; Mark A. Marinko, Cleveland, Ohio, and Dr. Michael O. Brietmeyer, Terre Haute, a professor of biological engineering at Rose.

SIGMA NU—Michael D. Box, Larry G. Erwin, Stanley M. Mickey and Robin A. Skitt, all of Terre Haute; John G. Metz, James A. Minniear, Jerry Bertram, Michael B. Kinney, and Dennis A. Smith,

all of Indianapolis; Gary D. Dougan, Holland; Dale C. Teague, Rockville; Thomas Woods and Howard Hagan, both of Evansville; Frederick P. Manus and Dave W. Bellows, both of South Bend; Douglass C. Kneller, Columbus, City; and Barry M. Hendrix of Bloomington.

Also, Mark E. Cane, Munster; Jeff D. Jones, New Albany; George Rodibaugh, Goshen; Dallas G. Canfield, Frankton; Woody Heller, Louisville, Ky.; Rick Keeven, Greenfield, Md.; Timothy Zick, Norfolk, Neb.; Glenn Reschke and Greg C. Smith, both of Arlington Heights, Ill.; Robert Kaufmann, Payson, Ill.; Tom W. Dedert, Crete, Ill.; Scott Koehne and Richard W. Henthorn, both of Cincinnati, Ohio; Mark D. Gudorf, Dayton, Ohio; Richard A. Mowrey, Painesville, Ohio; and Landy Blair, Elizabethtown, Ky.

THETA XI — Dennis McCleary and James H. Taylor, both of West Terre Haute; Edwin B. Bodine, Covington; Douglas J. Bryant and Paul G. Troy, both of Speedway; James E. Dietz and William B. Lipp, both of Indianapolis; William C. Hildebrand, Hartford City; Ronald D. Haugh, Schererville; Randy R. Krantz and Michael Mehay, both of Gary; Donald E. Lewis, Shoals; Corwin Nichols, Gashen; Michael A. Schwenk, Jasper, and Ralph H. Winslow, Hobart.

Also, David M. Augenstein, Carlinville, Ill.; Michael D. Bennett, Chicago; Robert A. Fleming, Cincinnati, Ohio; Bernard H. Roggenbuck, Hoffman Estates, Ill.; David L. Schrader, Libertyville, Ill.; Raymond J. Trimble, Robinson, Ill.; Thomas M. Washenfelder, Port Arthur, Tex.; and William G. White, Jr., of San Lorenzo, Calif.

TRIANGLE — David A. Hughes, Michael L. Reynolds and Dale Van Laningham, all of Terre Haute; Thomas R. Larkin, Plainfield; James C. Shearer, and Douglas W. Meyer, both of Indianapolis; Louis J. Zook and Robert J. Schofield, both of Gary; Mark E. Belisle, Munster; Donald M. Graden, Crown Point; Robin L. Bruner, Converse; Marty M. Bunke, Bloomington; Kenneth O. Earl, Rockville; and Joe Hadley, Danville, Ind.

Also, Walter L. Frank, Corydon; Gary L. Hedrick, Nashville; Gerald A. Rich, Fort Wayne; Randy A. Robertson, Evansville; Stephen H. Compton, Crestwood, Ky.; Warren L. Lloyd, Taylor Ridge, Ill.; Steven K. Orr, Cincinnati, Ohio.

Dr. F. A. Guthrie Appointed New Chem Chairman

Appointment of Dr. Frank A. Guthrie as chairman of the chemistry department was made with the opening of the second academic quarter at Rose.

Dr. Guthrie succeeds Dr. Oran M. Knudsen, who requested to be relieved of the chairmanship in order to devote full time to teaching. He has been a member of the faculty since 1946 and had served as chairman since 1952.

A graduate of Hanover College, Dr. Guthrie holds a masters from Purdue University and the Ph.D. in analytical chemistry from Indiana University.

Dr. Guthrie, who joined the Rose faculty in 1952, long has been active in the Wabash Valley Section of the American Chemical Society, and currently is division membership chairman and director editor of the ACS.

He also is serving as president of the Indiana Academy of Science, and holds memberships in the American Association for the Advancement of Science (Fellow, 1962) and the Midwest Universities Analytical Chemistry Conference.

Dr. Knudsen, first recipient of the Dean's Outstanding Teacher Award in 1968 and a member of the faculty of Rose's unique summer program "Operation Catapult", came to Rose from Michigan State. He previously had taught at Alfred (N. Y.) College and Long Island University.

A native of Utah, he earned his B.S. at the University of Wisconsin and the Ph.D. at New York University.

Applications Sought For 'Operation Catapult'

Applications are being accepted for Rose's unique "Operation Catapult" program for boys who have completed their junior year of high school and are interested in pursuing engineering, science or mathematics as a career.

Two sessions limited to 60 boys each are scheduled for June 21-July 16 and July 19-August 13. Boys live as a group in air-conditioned dormitories and participate in a program with a central objective of providing practical experience in the use of the "scientific method" of investigation.

For further information write: Office of Admissions, Rose Polytechnic Institute, Terre Haute, Ind. 47803.



BREAK FROM BOOKS—A Rose student takes a break from the books to watch television and enjoy a late snack in the comfort of his dormitory room. Student Government Association handles the administration for the recently approved refrigerator rental system for the student body.

1969-70 CAGE RESULTS

Rose	Opponent
85 BERA	81
109 BLACKBURN	92
P. C. C. Tourney	
94 Eureka	76
70 Greenville	71
79 Iowa Wesleyan	86
** **	
98 ILLINOIS COLLEGE	90
89 PRINCIPIA	59
76 Stoney Brook (New York)	83
100 Pace (New York)	116
98 Monmouth (New Jersey)	92
79 C. W. Post (New York)	83
77 Wabash	76
112 Berea	120
77 Principia	62
73 CENTRE	76
93 WASHINGTON (St. Louis)	86
87 INDIANA CENTRAL	92
Rose Invitational	
93 ILLINOIS TECH	68
80 MacMURRAY (Title Game)	99
69 Greenville	62
83 EARLHAM	90
96 Blackburn	88
89 DePauw	82
85 Illinois College	87
63 GREENVILLE	73
86 MARIAN	80
94 FRANKLIN (Ohio)	82
Pre-Tourney Playoff	
91 Indiana Tech	83
79 Earlham	102

Students Gain Refrigerators In Dormitories

Rose students, keeping in step with students on hundreds of campuses across the nation, gained refrigerators for residence hall rooms during the second quarter.

The Student Government Association at Rose carried the ball on the project which allows a student to rent a two-cubic foot compact refrigerator for \$10 per quarter.

The Student Government borrowed money from Rose to purchase the machines, rather than participating in a lease agreement with an outside firm. According to the terms of the agreement between Student Government and Rose, the SGA will repay the school over a five-year period with the proceeds from the rental program.

SGA also must administer the renting and be responsible for the upkeep and replacement of the machines.

Residence hall refrigerators appear to have been met with overwhelming support of students, with 123 refrigerators being rented at this time. Taking into account that men who share a room also share a refrigerator, approximately two-thirds of the men in residence now have convenience of a refrigerator.

More About . . .

Classroom Building

the needs of a record enrollment at the school.

Rose, which is expected to close admissions for the freshman class in the next few days, is predicting an average enrollment of 1,065 during the upcoming academic year.

In addition to the new classroom building, Rose will be using the Mechanical and Aerospace Engineering Annex for the first time next fall.

This structure currently being completed east of the Main Building will house the Rhiman A. Rotz Memorial Engine Laboratory, a forty-foot long subsonic wind tunnel and related equipment for mechanical-aerospace department and the soils testing laboratory of the civil engineering department, thus providing more flexibility in the Main Building.

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ROSE ECHOES

There's More to Come

Ings Tops 2,000 Mark as Cagers Regain Winning Ways

The 1969-70 edition of the Fightin' Engineers basketball team was like what one would expect from a talented but predominately freshman ball club—inconsistent one night and brilliant the next. But most of all, it was promising.

The Engineers ran both hot and cold en route to a 16-13 record against some real heavyweights of small college basketball, and by mid-January the young Rose team had convinced its fans (and opposing coaches) that the Engineers would be hard to handle around the hoop for the next two or three years.

Paced by senior sharpshooter Don Ings, who became only the ninth Indiana collegian in history to score more than 2,000 points in a career, the Engineers consistently "rose to the occasion" to defeat the likes of nationally ranked DePauw, Monmouth of New Jersey and rival Wabash (all on the road), but somehow found new ways of losing close decisions to teams of seemingly lesser stature.

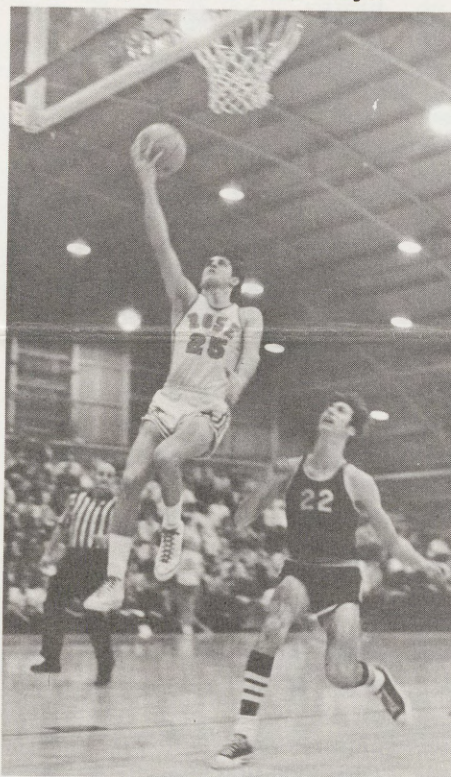
Ings eclipsed the school scoring mark of 1,483 points set by Tom Curry, '67, before most other schools had played their first game of the season and finished his career with a fantastic 2,083 point total over a four-year career at Rose. The beauty of the record lies in the fact that the slender 6-1 scoring ace contributed only 100 points to the total during his freshman year.

Reflecting on the season, Coach John Mutchner said, "We were very spotty, very inconsistent! We played some very excellent ball and then turned around to play very poorly.

"A lot of this was because we started

three freshmen most of the season," he continued, "And, of course, the schedule was stronger . . . these things add up.

"We'll be better next year, but there's no doubt we'll miss Ings' explosiveness and firepower," he said, "We'll just have to make up for it in other ways."



INGS SCORES—Senior Don Ings, who poured through 2,083 points during his basketball career at Rose, displays his tremendous speed and jumping ability with his favorite—the fast break basket.

Perhaps one of "the other ways" will be greater emphasis on a front-line oriented offense which will call on the combined talents of floor general Tom Butwin, a junior, and rising freshmen stars Jim Eppen (6-7), Gary Dougan (6-5) and Larry Erwin (6-4). Another big man not to be overlooked is junior D. J. Cordero, a 6-7 stalwart on the boards.

In Mutchner's opinion, Eppen, Dougan and Erwin performed as well as any first-year men he has ever coached.

Eppen came on strong in the second half of the season. While he finished with 380 points for a 13.1 average and pulled down an average 14.5 rebounds per game, his totals over the last 10 games were 17 points per game and slightly under 20 rebounds per outing.

Dougan and Erwin finished with 8.9 and 8.3 scoring averages respectively and boasted the top accuracy marks. The former hit the bucket at a 59 percent clip, while Erwin fired at a 54 percent clip for the season.

The most consistent ball player was Butwin, who maintained a 15.1 scoring average and repeated as the Engineer with the most assists.

In addition to the loss of Ings, Rose will miss the general leadership and outside shooting of senior forward Rod Smith and the hustle and dedication of guard Barry Jenkins, who came on strong last season to help Rose salvage an 11-15 season.

Returning players fighting for these important slots will be Joe Snyder, Rick Henthourn, Jim Minniear, Mike Bennett and Bob Kaufmann.