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Institute Inklings Staff
Rose-Hulman Institute of Technology

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INSTITUTE INKLINGS

VOLUME 3, NUMBER 5

ROSE POLYTECHNIC INSTITUTE TERRE HAUTE, INDIANA

OCTOBER 27, 1967

BRIDGE CLUB, NEW ACTIVITY

The newest addition to the ever increasing list of activities in the Hulman Memorial Union is the Bridge Club, sponsored by Bill Brown and Professor Theodore Palmer. The club will begin meeting sometime during November on Sunday afternoons.

An application has already been submitted that will allow the club to award master's points during a tournament held once each month. Final approval of the application is expected very shortly. The entry fee will be one dollar for each tournament. The proceeds will help pay the fee needed to award the masters' points. Regular meetings will be held each Sunday. For play during these weekly tournaments, fractional points will be awarded.

The dates of the first meeting and tournament will be announced soon. All bridge players are urged to participate.

OPEN HOUSE

On Thursday, Friday and Saturday of this week, the Admissions Department held its annual Open House for prospective students of Rose. Thursday and Friday is Teacher's Institute in Indiana and posters inviting students to attend have been sent to all Indiana high schools. A few schools in neighboring towns of Illinois have also received posters.

In the first two days of the Open House, the program was run from 8:30 a.m. to 3:30 p.m. and on Saturday an abbreviated program will run from 9:00 a.m. to 12:00 p.m. The program will consist of various events such as classroom visitation, tour of the campus, discussions with representatives of each department, and the Admissions Department presentation.

HOME COMING 1967

The plans for the 1967 Homecoming are quickly coming to be reality. Many of this year's activities have been moved to the Hulman Union and in addition, school has been canceled for the entire day on Friday. It is the hope of Blue Key that this year's expanded activities will not only be a time for all to remember, but also a premiere of things to come on the Rose campus.

Beginning on Monday morning, students will have a chance to vote for their choice of a Homecoming Queen. From a field of nine lovely girls, five finalists will be chosen. The candidate's pictures will be in the main hall through the primary voting on Monday. After the primary vote, the finalist's pictures will be posted and the final vote will take place on Thursday, November 2.

Thursday evening will lead off the Homecoming activities with a concert by "The New Christy Minstrels." The concert, which is hoped will start a new trend, will begin at 8:00 P.M. in the Shook Memorial Fieldhouse.

Friday night activities will be the crowning of the 1967 Homecoming Queen and a pep rally. Also, for the benefit of parents and alumni, the football team will be introduced. It is also rumored that Coach Martin will make a "speech." Dr. John Logan and Ken Rogers, Blue Key President, will crown the Queen from the five finalists. Bob Vogenthaler, head cheerleader, has planned a lively set of cheers to create a winning attitude for the football team. An addition to the program will be the folk singing act of John Yarish and Jeff Oester.

On Saturday afternoon, Rose will play St. Procopius in the traditional Homecoming football game, which will be a winning

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ROSE EXPANSION

Rose has recently undergone a face lifting with the advent of three new dorms, student center, and new lecture rooms. However, more is to come.

According to Mr. Ron Reeves of the Planning and Development department, Rose has just completed its first phase of its goal. It is ready to embark upon the second phase which includes an addition to the main building, remodeling of Deming Hall, and improvement of the general service facilities, i.e., fire protection and sewage disposal.

The new addition to the main building will be a Systems Information and Design Facility. The Rose curricula will become oriented from a systems analysis approach so as to relate the engineer with his surrounding world.

The new Systems and Design Facility has been designed as a combined effort of Perkins and Will, Chicago architects, and a Rose faculty committee. The committee not only studied modern trends and developments in teaching facilities but also visited sister institutions at Cal Tech, Tulane, MIT, Harvard, Carnegie Tech and other schools.

The new Rose facility will be built around a data storage and retrieval center, a new kind of "library" designed with the belief that data storage in the future will rely less on books and periodicals and more on computer memory, slides, tapes, film, programmed instruction, and other means.

Three-Facility Design

Included in the Systems Information and Design Facility will be a new design laboratory for instruction in problem solving and engineering design. It will be characterized by the development of a closer personal relationship between the instructor and stu-

(Continued On Page Four)

INSTITUTE INKLINGS

EDITOR: - - - - - Dennis Fritz
 ASSISTANT EDITOR: - Stephen Mitchell
 NEWS STAFF: - - - - - John Elzufon, Ed., Don Spatz, Jim Wong, George Shaver, Gerard Lameiro, Kenneth Shafer
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LETTER TO THE EDITOR

**THE TIMES
 THEY ARE A'CHANGING**

When a high school senior applies for admission to Rose or another college of its type, he knows that he is picking a school which is preparing him for the future; a school that is keeping abreast with new scientific developments. Constant changes in course requirements and text books show the student that everything is being done to keep Rose "up with the times."

Other things are also changing, however. Old moral codes are being replaced by new, and more people are beginning to think about what is right for themselves instead of what is right for someone else. The fact that Rose has people going to it makes it a school for social development besides being just an institute for scientific learning.

To find truth and meaning in life, it must be tasted and experienced, just as in science where experimentation leads to knowledge.

Is it possible that Rose should be a more liberal campus? Think about it.

—Don Spatz

Mankind's very existence has been based on traditions. Traditions change but as they slowly do,

new ones come in this place to fill a role in society or else the society is disrupted. Such as the social climate of large universities.

Traditions are human. The fraternity system is based on traditions and give many students a sense of togetherness and belonging. Traditions such as "cords and beards" are just a small part of an over all human environment found on the Rose campus that is not generally found on larger campuses.

Traditions encourage competition without conflict. They help to guide competition between individuals or classes with basic ground rules imposed to limit all out strife, and thus helps to keep down mavalent feelings.

In short traditions are the lesser degree of laws; without laws no society can continue to be a society and individualism will cease to exist.

—Edward Shaw

**COMPANIES REDUCE
 PLANS FOR GROWTH**

The pressure on manufacturing plants is continuing to decline and the number of companies planning to expand production facilities is dropping. This was disclosed recently in a survey conducted by the National Industrial Conference Board.

It is reported that fewer than a fourth of 423 of the nation's largest manufacturers now consider

their plant-and-equipment facilities inadequate to meet the current rate of order bookings and customer inquiries.

Just a year ago the facilities of over half the companies responding to a similar survey were called unequal to the task of meeting demand.

In the middle of last year 52.2 per cent of these manufacturers' facilities were inadequate. Six months later the percentage dropped to 31.1 per cent. In July, 1967, it dropped further to 22.9 per cent.



ART WILLIAMSON

BSME, U. of Maryland, was assigned to the big blooming mills at our Sparrows Point, Md., Plant soon after joining Bethlehem's 1963 Loop Course. Art is responsible for training of personnel and start-up of new facilities. He's also liaison man between the mill and plant engineering for a \$17-million improvement program.

**MANAGEMENT
 MINDED?**

Career prospects are better than ever at Bethlehem Steel. We need on-the-ball engineering, technical, and liberal arts graduates for the 1968 Loop Course. Pick up a copy of our booklet at your placement office.

*An Equal Opportunity
 Employer in the Plans for
 Progress Program*

**BETHLEHEM
 STEEL**



If
we were
happy
with the world
the way it is,
we wouldn't
need you.

Kids choke on polluted air. Streets are jammed by cars with no place to go. Italy's priceless art and libraries are ravaged by floods. This is the way the world is, but it's not the way it has to be. Air pollution can be prevented. Better transportation can be devised. Something can even be done about the weather. Many people at General Electric are already working on these problems, but we need more. We need help from young engineers and

scientists; and we need help from business and liberal arts graduates who understand people and their problems. If you want to help solve important problems, we'd like to talk to you. We'll be visiting campus soon. Drop by the placement office and arrange for an interview.

GENERAL  ELECTRIC

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ROSE EXPANSION

(Continued from Page One)

dent. The laboratory will depart from the usual "drafting room" approach in that it will use ramped design desks. A model and mock-up shop will adjoin the laboratory for student use in experimenting with proposed design solutions.

Six classrooms will be included in the new building, each designed for a specific purpose — humanities, physics, mathematics, chemistry and other fields. Flexibility will be provided in the availability of different kinds of classrooms rather than trying to provide flexibility within the classroom itself. For example, one classroom will be patterned after the ramp-type classroom used in the Harvard Business School; another will be of the seminar type and a third patterned after a surgical amphitheater.

Considerable emphasis will be placed on individual study. A number of student carrels, some automated, will be included. To provide input for the automated carrels, a large material preparation and storage area will be an integral part of the facility.

Provisions will be made for TV broadcasting from one of the classrooms with the objective of sharing classes with other institutions on a cooperative basis. A modern communications laboratory will also be included not only to teach foreign languages but also to help facilitate communication in English and to improve student reading and hearing ability, memory, motivation, and perception.

CAR CHECKLIST FOR WINTERIZING AIDS OWNERS

A complete checklist for the winterizing of automobiles has been prepared by the automotive engineers of the "Prestone" Anti-Freeze Coolant laboratories. Here is what you or a qualified mechanic should look for:

The battery generator and ignition system should be checked. Batteries should be fully charged.

Gasoline filters, strainers, and carburetor air clearer should be serviced. Add a can of gasoline anti-freeze to protect against gas line freezing and carburetor icing.

Drain and flush the cooling system. Install a good anti-freeze coolant in sufficient quantity to handle maximum conditions in your area.

Replace worn hose and leaky gaskets. Check thermostat and heater operation.

Grease chassis and check transmission and rear axle. If lighter oils and greases are indicated for your area have them changed.

Examine exhaust system. Leakage of gases into closed winter cars is extremely dangerous. Put on snow tires, and see that chains are serviceable. Have a bucket of sand and a shovel in the car trunk.

Check windshield wipers and defroster operation. Carry a can of windshield de-icer, and add windshield washer anti-freeze to the washer bottle.

Check brakes, automatic transmission and power steering fluid level.

DOGNAPPING GROUP FORMED

A new national membership organization has been formed to

counteract the serious threat of dognapping. It is the Dog Owners Guidance Service Association, Inc., New York City.

The Association provides inscribed dog identification tags warning that the pets are protected by the William J. Burns Detective Agency. When a member's dog is lost, strayed or stolen the agency informs the law enforcement agencies and the A.S.P.C.A.

The Association was originated by George H. Levy, Great Neck, N.Y., who is its president. He is also the publisher of a leading dog-care magazine.

"A beauty contest is an event where the judges crown the winners and the losers want to crown the judges."

"Buying everything on the cuff is the surest way to lose your shirt."

There is probably not a vestige of truth in the rumor that Chicago grew so rapidly because of the immense stork yards.

NOVEMBER 14:

That's when the Merck Representative will be on campus.

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Some current fields of interest include:

DESIGN ENGINEERING

Openings exist for Electronic and Mechanical Design Engineers in the development of Trainers & Simulators and in the design of checkout and test equipment for large missile and aerospace systems. These responsible positions require interest and/or experience in such design areas as: analog circuits, digital logic, switch/relay logic, electro-mechanical packaging, infrared testing, inertial guidance and Command/Control systems. Responsibilities will include all phases of design and development from concept to final fabrication and evaluation. M.S. or Bachelor's degree is required in E.E., M.E. or Physics.

FIELD ENGINEERING

The Field Engineer's job ranges from complete contractor maintenance of electronic systems to technical assistance. His primary function is to assist

the customer at operational sites. Responsibilities include: providing maintenance, operational and technical assistance; formal and informal on-the-job training; logistic assistance and the investigation and solution of equipment problems experienced in the field. Requires a Bachelor's degree in E.E. or Physics. Experience with military fire control, radar or communications systems is desirable but not mandatory.

MAINTAINABILITY ENGINEERING

During design phase, positions involve analysis of the feasibility of built-in, self-test features, application of automatic checkout equipment, standardization of circuitry design, minimization of adjustment and alignment requirements and packaging of the product. During system development, assignments will involve production of a complete set of integrated logistics support documents for use as planning guides. Requires B.S. degree in E.E. or Physics.

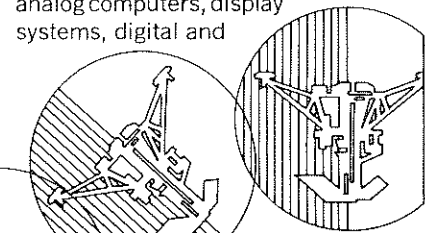
TECHNICAL TRAINING

Hughes Technical Training prepares both civilian and military personnel to efficiently operate and maintain advanced electronic systems. Technical Instructors conduct training classes at Hughes California sites and work directly with customers to evolve special

training devices, plan field training programs and prepare courses for use at customer bases. Requires a Bachelor's degree in E.E., or Physics. Experience in preparing and presenting technical electronics material in the classroom and laboratory is highly desirable but not mandatory.

ENGINEERING WRITING

Specialists in printed communications convert complex engineering data into simple, accurate, illustrated support publications, including technical manuals, orders, brochures, sales proposals, etc. Fields of interest include: digital/analog computers, display systems, digital and



voice satellite communications systems... and many others. Requires a B.S. degree in E.E. or Physics.

CAMPUS INTERVIEWS November 7

For additional information on the career opportunities available at Hughes Aircraft Company—and to arrange a personal interview with our Technical Staff representatives please contact your College Placement Office or write: Mr. R. J. Waldron, Hughes Aircraft Company, P.O. Box 90515, Los Angeles, Calif. 90009.

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HOME COMING - 1967

Thursday Nov. 2

8:00 P.M. THE NEW CHRISTIE MINSTRELS,
SHOOK MEMORIAL FIELDHOUSE

Friday Nov. 3

8:00 P.M. PEP RALLY, CROWNING OF THE 1967
HOME COMING QUEEN AND FRESHMAN BONFIRE

Saturday Nov. 4

2:00 A.M. HOME COMING FOOTBALL GAME
vs ST. PROCOPIUS

9:00 P.M. - 1:00 A.M. HOME COMING DANCE
JOHN CADICK - SNACK BAR
WARREN HENDERSON - MAIN DINING ROOM

**DON'T
MISS IT
THURSDAY
NIGHT NOV. 2**

TICKETS:
GENERAL ADMISSION - \$2.00
RESERVED - - - - - \$2.50

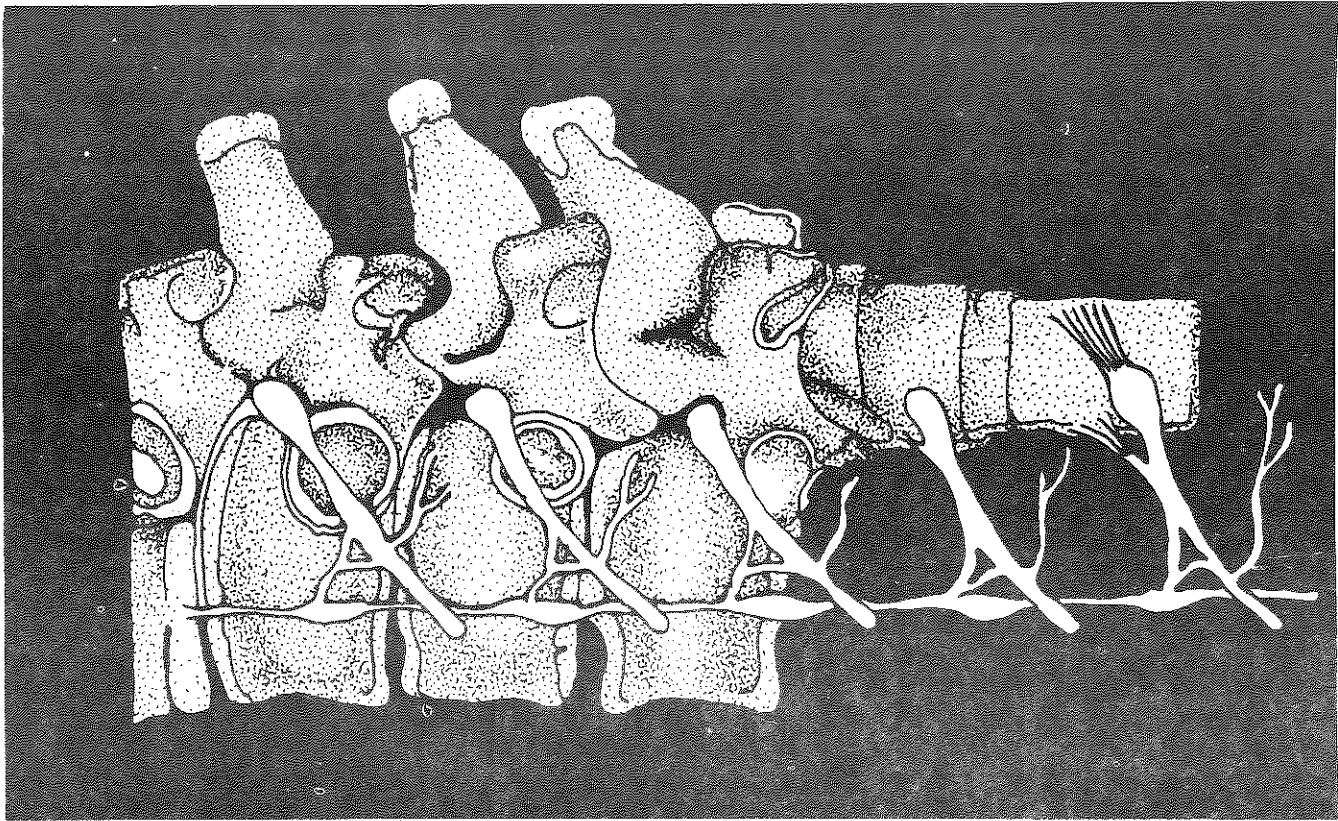
8:00 P.M.

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MICROSCOPE TO PROBE UNSEEN WORLD OF METAL

Installation of the nation's most powerful electron microscope, a super tool of science capable of revealing the internal structure of matter on a scale equal to atomic dimensions, was recently announced by Edwin H. Gott, president of United States Steel Corporation, and Barton Kreuzer, vice president and general manager of the broadcast and communications products division of Radio Corporation of America.

The million-volt instrument has been installed at U.S. Steel's Fundamental Research Laboratory located in its Research Center in Monroeville, Pa. U.S. Steel scientists will use it to probe for new and valuable information about the unseen world of metal structures.

Mr. Gott said the microscope's higher resolving power will permit closer study of the myriad of microstructural components of steels, some of which contain only a few atoms, the basic building blocks of matter. He emphasized that the many, varied properties of steel depend on the internal atomic arrangement resulting from heat-treatment and processing by rolling, drawing, etc. U.S. Steel's researchers are seeking to develop superior microstructures to achieve marked improvements in strength, toughness and corrosion resistance to meet the ever more exacting demands of the nation's leading manufacturers.

To attain its vast power, the microscope uses a one-million-volt accelerator manufactured by E. Haefely Ltd., Basel, Switzerland. Although this accelerator stands 17 feet high and weight 15 tons, its precision stabilization system maintains the DC voltage constant to within .0004 per cent. An accelerated stream of electrons is fired through the microscope's magnetic lenses at approximately 94 per cent of the speed of light. This velocity gives the electrons a penetrating power of up to 10

times that of beams used in standard electron microscopes and makes it possible to examine much thicker specimens by electron microscopy for the first time.

Scientists explained that increasing the accelerating voltage also has the effect of reducing the wave length of the electrons which, in turn, improves the instrument's resolving power. Thus the microscopist expects to "see" features only 2 Angstroms (8 billionths of an inch) apart, essentially the theoretical limit of the microscope system.

The instrument system was custom-designed and built for U.S. Steel at the RCA Broadcast and communications Division facility in Camden, N.J. It is the largest and most advanced unit among the approximately 1,300 electron microscopes produced there since RCA entered the field in 1940.

HOMECOMING—1967

(Continued from Page One)

game if the student body gets behind the football team. During the halftime, the Rose R.O.T.C. Band will present a routine as will the Rose Rifles. Luncheons, reunions and banquets will fill the morning and early evening.

This year the annual Homecoming Dance has been moved to the Hulman Memorial Union. A band led by Rose senior John Cadick will provide a lively beat in the Grill beginning at 9:00 P.M. Warren Henderson's Orchestra will play in the Main Dining Room beginning at 10:00 P.M. Tickets for the dance can be purchased from any Blue Key member or bought at the door. A ticket table will be set up in the main hall for convenience and to facilitate voting. The Homecoming Dance will end at 1:00 A.M.—best wishes for a most enjoyable weekend.

—Jerry Wones
Homecoming Chairman

TAXES TOP

Taxes cost more than any other item in the household budget, says Tax Foundation, Inc. Americans work 2 hours and 25 minutes of every 8-hour working day to meet Federal, state and local taxes. More working time is required than last year; in fact, six addi-

tional minutes are needed to meet taxes in 1967.

Other expenses include: housing and household operation, 1 hour 25 minutes; food and tobacco, 1 hour and 14 minutes; transportation 40 minutes; clothing, etc., 30 minutes; recreation 18 minutes; medical 21 minutes; all other 1 hour and six minutes.

"Don't worry if you get kicked from the rear as it simply means you are out in front."—Lee R. Call, Editor Afton (Wyo.) Star Valley Independent.



TED LAKE

BSCE, Duke, has had a taste of structural drafting and engineering, shop operations, and steel erection since joining Bethlehem's 1961 Loop Course. Ted is now shop engineer in the electric transmission tower shop at our Leetsdale, Pa., Works, where he helps solve a variety of production and engineering problems.

MANAGEMENT MINDED?

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INTRAMURAL NEWS

Last week's action in the major league showed no change in the standings as three teams remained undefeated. Postponements resulted in only three games being played during the entire week. The three games involved all of the contending teams. However, all three won their games and each remained undefeated.

In the minor league, ABCD-2 continued to shut out all challengers and moved into undisputed first place in the standings. To do this they had to beat two previously undefeated teams. Off Campus also moved into an undisputed position—the cellar. Winless Speed managed to squeak by the Off Campus squad 7-0.

LAST WEEK'S SCORES

Major		Minor	
SP	..... 26	ABCD-2	.... 12
LCA	..... 26	LCA	..... 12
SN	..... 20	ABCD-1	.... 13
OC	..... 0	ABCD-2	.... 7
ATO	..... 0	LCA	..... 9
BSB	..... 6	TX	..... 8
		SP	..... 7
		TX	..... 0
		SP	..... 0
		OC	..... 6
		ATO	..... 0
		BSB	..... 0
		ABCD-1	.... 0
		OC	..... 0

STANDINGS

Major		Minor	
Team	Record	Team	Record
SN	..... 4-0	ABCD-2	.... 5-0
LCA	..... 3-0	TX	..... 4-1
SP	..... 3-0	ATO	.... 2-1
TX	..... 1-1	LCA	.... 3-2
ATO	..... 1-2	ABCD-1	.... 2-2
ABCD	.... 1-2	BSB	.... 1-3
TRI	..... 1-2	SP	..... 1-4
OC	..... 0-3	OC	..... 0-5
BSB	..... 0-4		

Postponed games have been rescheduled as follows:

Major

Nov. 1, TRI-TX; Nov. 6, SN-SP and ABCD-LCA; Nov. 7, ATO-TX, and Nov. 8, ATO-OC.

Minor

Oct. 30, ATO-BSB.

"They call our language the mother tongue because the father so seldom gets a chance to use it."
—Elizabeth W. Spalding, Editor, Bardstown (Ky.) Standard.

Rose Smashes Marian

The Rose cross country team scored a decisive 15-49 victory over Marian College last Saturday at Indianapolis. The Fighting Engineers grabbed the first six places and nine of the first ten to easily gain the one-sided decision.

Junior Larry Lynn led all finishers with a fine 21:42 clocking for the four-mile course. Sophomores Sam Vuchinich, second, and Bob Childs, third, also broke twenty-two minutes with times of 21:44 and 21:56 respectively. Strong performances were also turned in by Greg Shutske, Bob Rollings, and Ken Culp. Larry Olson, Tom Foltz and Jack Arney rounded out the top ten.

The Engineers' record now stands at four victories against one defeat. A fine chance still remains of improving on last year's record of six victories and two losses.

Remaining meets include De Pauw on October 31st and Little State on November 3rd. Rose ran Greenville College Tuesday, however official results were not available at press time.

To protect people who work in excessively noisy environments such as airports or in heavy industry, many companies now insist that men wear ear muffs or plugs.

THE EMPIRE BUILDERS

are not exactly what we need. City builders are all we're looking for right at the moment. City builders, in our language, are engineers. And a growing city like Milwaukee needs plenty of those. If you are one, we need you to design streets, sewers and structures, to supervise construction, to try your hand in one (or may be all—if you stay around a while) of the many departments of local government concerned with building a GREAT city.

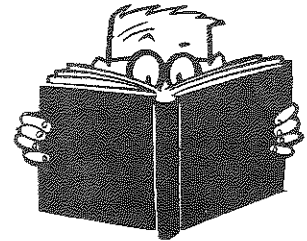
Our interviewer will be on your campus soon. Your placement office can tell you when.

TOMORROW-PRINCIPIA

Today Rose battles arch rival Principia, one of the best squads it will face this year, on the opponents home turf. Principia has been victorious the past two seasons by identical 14-7 margins, and it will be an upset if Rose can turn the tide this campaign. Buzz Bruster, 6'3", 175-lb., Principia quarterback, is reportedly the best athlete the Engineers will face.

Coach Martin pointed out that the pass defense and outside running attack need quick improvement if Rose is to score an upset.

"America is the only country in the world where men get together to talk about hard times over a \$7 steak."



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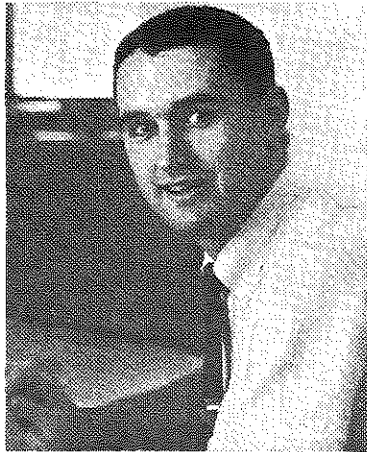


ON THE "IN" SIDE

by Roger Ward

After seven weeks of practice and five games, without a win, what does a team do? Some quit trying and just go through the motions for the remainder of the season. Not Rose Poly. What evidence is there to support this claim? Plenty! The weekend of the Central Methodist game is proof (to us at least).

Friday afternoon we left for Sedalia, Missouri, about 350 miles west on routes 40 and I-70. There was nothing different about the



DICK FOWLER

BSME, U. of California, joined Bethlehem's 1964 Loop Course. Assigned to the maintenance and engineering departments of our South San Francisco Plant, Dick handles assignments throughout the plant. A typical project was designing and supervising installation of a complex hydraulic mechanical transfer system.

MANAGEMENT MINDED?

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BETHLEHEM STEEL



ride to our evening's destination. The usual "pit-stops" at STUCKEY'S along the way were made. Several card tournaments were taking place in the bus. About 6 p.m. we arrived at the Holiday Inn in Sedalia. Other than a population of several thousand, one theatre and the state fair grounds, Sedalia didn't have much to offer once it rolled up its streets at 10 p.m. So, most of us stayed at the motel. Things began to stir later on when a carload of co-eds pulled into the parking lot under the windows of our second floor rooms. It seems that everyone had to get a breath of fresh air about that time, in spite of their comfortable but breezy garb. Once midnight rolled around the light-hearted attitudes slowly began to change.

That morning our pre-game meal was good and satisfying. We later boarded the bus and left for Fayette, Missouri, the home of Central Methodist. The only noise on the bus was talk about the opponent and the game. Arriving there about 12 noon, we had time to walk around and see their campus. It was obvious that today was their homecoming and they'd be ready to thrash us. We, too, were up, because we were sick of losing or tying our opponents. Never before had we been so spirited during the warm-ups. Although the score does not show it, the spirit lasted throughout the game. Not many know this, but in the fourth quarter our defense held them for three downs inside our 4-yard line and on the fourth down with one-half foot to the goal the Commandoes held them again. From there the Goes marched 99 yards to score. All this took place when we were losing by two touchdowns with less than five minutes to play. Only a tough never-say-die team could do this. More important a winning team does this. So, Principia, St. Procopius, Culver-Stockton, and Centre watch out!

"Don't cuss the weather; nine-tenths of the people couldn't start a conversation if it didn't change once in awhile."—Harold P. Beason, Smith County (Kan.) Pioneer.

ENGINEERS LOSE TO CENTRAL METHODIST

Central Methodist, displaying a much improved squad compared with last year, handed the Engineers their second straight setback last Saturday by a 28-14 count. Rose now stands 0-3-2 for the season.

For the second straight week, Rose was subdued in the first half and spent the second half playing difficult catch-up football. Three Central Methodist tallies in the first half were all they needed as Rose managed only one score in each half. The improving aerial combination of Charlie Hills to Jerry Novotny accounted for Rose's first tally on a 30-yard gainer.

The Engineers again tried to battle back in the second half but fell two TD's short. They made a fine effort, though, as once with the ball first and goal on their own four-yard stripe, Rose's defense held firm preventing another Central score. In the final stanza, the Engineers drove nearly the entire length of the field for their final score with Fred Valanti carrying the pigskin the final seven yards. The Fightin' Engineers never quit as the game ended with Rose on Central's six-yard line.

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