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## Volume 3, Issue 2 - October 6, 1967

Institute Inklings Staff  
*Rose-Hulman Institute of Technology*

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# INSTITUTE INKLINGS

VOLUME 3, NUMBER 2

ROSE POLYTECHNIC INSTITUTE TERRE HAUTE, INDIANA

OCTOBER 6, 1967

## OPERATION CATAPULT IS SUCCESS

From July 9 to August 5, 67 high school students were in residence on the Rose campus. The students were attending the initial session of "Operation Catapult."

Under the direction of Dr. Marvin McMillin, the program was organized to give high school students greater insight into engineering and science fields and to give them exposure to laboratories and laboratory equipment that they would not normally receive in high school.

Upon arrival on the campus, the students were divided into four-man groups. Each group choose a project from a list of about 30. The projects were on topics such as "Weighing the Earth," "The Sun's Rotation," and "Hearing." The projects were the major portion of the program. Fifty-two hours were allotted to work on the projects. Oral reports were due in the form of a five-minute progress report and a twenty-minute

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## HOMECOMING 1967

The plans for Homecoming Weekend, November 3 and 4, are nearly complete under the direction of Blue Key National Honor Fraternity. The program on Friday night will feature the crowning of the Homecoming Queen, introduction of the football team and coaches, and a pep rally for the game with St. Procopius. An addition to the program will be a bonfire if the frosh can get one built. All the activities will start at 8:00 P.M. at the Rose Fieldhouse.

Activities on Saturday will start at 2:00 P.M. with the game. At half time the Rose Rifles and the R.O.T.C. band will supply the entertainment. The annual Homecoming Dance will be held this year in the Hulman Union. At 9:00 P.M. a band for the younger set led by John Cadick will be playing

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## FRIDAY, OCTOBER 6 ELECTION DAY AT ROSE

The Rose Polytechnic Student Government machinery will swing into operation Friday, October 6, as voters from 12 precincts will go to the polls to elect a total of 46 representatives.

The breakdown of the individual precincts and their number of representatives is as follows: Baur-Sames-Bogart, Speed, Blumberg, Mees, and Scharpenberg Halls, each with four representatives; Deming with two; the fraternities LXA, EM, TX and Triangle, each with one; ATO with two, and all other off-campus students with 18 representatives.

Student Body President, John Elzufon, has promised that this year's Congress will be an active and working one, seeking to incorporate a number of reforms in areas directly affecting the students. Student Government committees will research and plan programs concerning girls in fraternity houses, the initiation of a student loan service, and modification of the four-point grading system to accomodate a mark of B plus or C plus.

## CAREERS AND OPPORTUNITIES

The following is one of a series of articles that will appear biweekly explaining briefly some of the careers and opportunities open to the graduates of Rose. The choice of curriculum designates the general avenues to be taken, however there are many side streets depending upon the choice of the individual. The purpose of these articles is to aid the incoming freshmen and a few confused sophomores in making possibly the most important decision of their lives—that of choosing a career.

In our modern age there is much controversy concerning scientific progress. Many attribute the tech-

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Freshman Mike Redwine looks very happy as sophomores Bill Duncan (left) and Rich Bieman (right) conduct a little freshman hazing.

INSTITUTE INKLINGS

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ENGINEERS . . . DEFEND YOURSELVES

Perhaps the entire student body and faculty at Rose should give a second thought to their choice of careers. A past article concerning the female's opinion of engineers and scientists has drawn my attention to this. In the January-February issue of ENGINEERS, published by the Engineers' Joint Council, the following was noted:

"Glance at any 'Male-Help Wanted' column and you'll see that engineers of all sorts are much in demand. From a woman's point of view, it is hard to understand why." So says writer Minnie Sheraton in an article, "What kind of man makes the best lover?" in a recent issue of COSMOPOLITAN magazine.

Nothing interests these men as much as their work, she warns her readers, and if you latch on to one, you will spend your time humming to yourself in the background while he is off with his slide rules. For diversion he will tinker with the hi-fi or the engine of a foreign car. Unrelenting in her attack, she concludes: "Feminine guiles are wasted on engineers; they wonder why women can't be more like men."

Scientists, in contrast to engineer types, are divided into two groups, the author's concession to a world that might just be more complex than her preconceived notions may admit. One group of

scientists, she writes, are those so dedicated to their work that they don't know anything else exists. "If you marry one of these men, you will be a sort of cook-house-keeper, and things will be quiet."

A second group of scientists, she claims, are entirely different and are interested in everything—music, art, books, sports cars, hi-fi, children, animals, travel, and sex. "If you can find a scientist like that you'd have a treasure, but such types marry young and happily, so chances are slim after college."

Engineers aspiring for management, however, may look forward to an improved ranking in the future, for all the groups in her analysis—artists, actors, writers, composers, salesmen, lawyers, doctors, etc., the businessman comes off as the best lover. Not only does he have plenty of money (expense accounts?) and enjoy spending it, but best of all, Miss Sheraton says, "He loves women."

—Steve Kennedy.

Announcer's boo-boo: "Our TV Station was off the air for a few minutes, but the relief was short-lived."

Laffs in the nooz: Mrs. Nodnol has entirely recovered from her broken toe—but her knee is still in the hands of the doctor.

Cross Country Victory

Capturing the first seven places, the Rose cross country team streaked to a stunning 15-50 win over Marian College last Saturday morning on the Rose home course.

Junior Larry Lynn of Bicknell, Ind., led all finishers for the four-mile course with a time of 22 minutes: 40 seconds. Sophomore Sam Vuchinich of Terre Haute grabbed second in 23:00, and freshman Greg Shutske of Kouts, Ind., followed with a 23:15. Senior Tom Foltz and sophomores Bob Rollings and Bob Childs, all from Indianapolis, finished fourth, fifth and sixth respectively. Ken Culp, senior from Martinsville, rounded out the top seven. Other finishers for Rose included junior Larry Olson, Louisville, ninth, sophomore Sid Stoffer, Cincinnati, O., tenth; Jack Arney, Washington, Ind., eleventh; Ray Stoffer, Cincinnati, thirteenth, and John Wilkenson, Terre Haute, fifteenth, all freshmen.

Coach Jim Carr, although pleased with his team's initial performance, feels that the boys have not yet reached their potential. Coach Carr commented, "We are not yet in top shape but we're doing reasonably well for the beginning of the season."

Rose ran Wabash Wednesday but the score was not available at press time. Rose's next meet is Tuesday, October 10, at Franklin College.

HOMECOMING 1967

(Continued from Page One)

in the Grill. At 10:00 P.M. Warren Henderson's Orchestra will be playing in Main Dining Room. During the intermission, the winner of the I.F.C. Homecoming Display Contest will be announced. Then the dancing will go till 1:00 A.M.

The entries for the Homecoming Queen will be coming up in two weeks so be sure to watch this column next week for the rules. Also, ticket sales will begin a couple weeks prior to the dance and can be purchased from any Blue Key member. He's the guy with the black derby.

—Jerry A. Wones  
 Homecoming Chairman

## OPERATION CATAPULT IS SUCCESS

(Continued from Page One)

report at the close of the four weeks.

Additional time was spent in other areas of study. Computer instruction was given by Bill Schindel of the Class of '69. Much enthusiasm was displayed by the boys as they studied the nature of the computer, machine language, and Fortran. Experience was also available on the key punch, line-printer, mark-sense unit and sorter.

Lectures were given by Professors Herman Moench, Alfred Schmidt, and Oran Knudsen of Rose and Mr. Harry Johnson of the Vigo County School Corporation as well as outside speakers. The lectures were designed to give insight into relatively foreign fields and were very diversified to give a broad background.

The program was not entirely academically oriented. The students were encouraged to participate in a daily recreation period in which softball and volleyball were the favorites. Movies were scheduled for three nights a week. On Tuesday and Thursday nights, short educational films were shown and on Saturday nights a full-length feature film was shown.

Several interesting field trips were also included in the program. The group was taken to Sarkes-Tarzian and Pfizer industrial plants, the Thunderbird mine in West Terre Haute, a Bowling Green farm for a biological study, Allison's "Powerama" and the Speedway Museum in Indianapolis, a baseball game, and the Indiana University Theater production of "Born Yesterday" in Nashville, Indiana.

This first attempt at such a program at Rose has been termed a success by all involved. The best testimony of this can be seen in the answers of the students themselves. They were asked if they would recommend the program as worthwhile to another student or to their teachers. Fifty-six said yes, nine were neutral and only one said no. With such success as this, planning is now in progress for an "Operation Catapult" for 1968.

## WHY IS IT IMPORTANT TO YOU TO JOIN THE RIGHT COMPANY AFTER GRADUATION?

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INTERVIEWING ON CAMPUS

# MONDAY, OCT. 16, 1967

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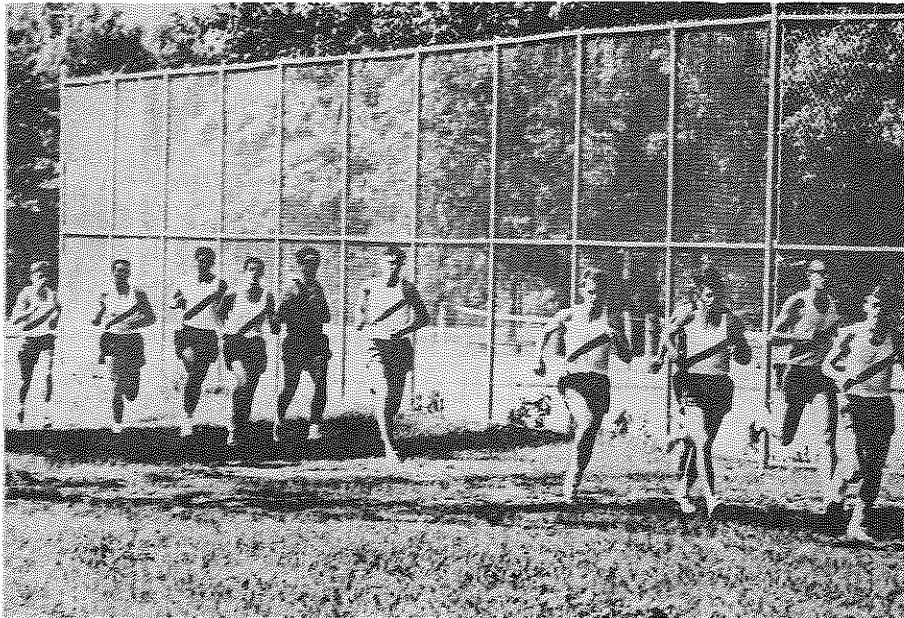
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AN EQUAL OPPORTUNITY EMPLOYER



Rose Poly cross country runners (in white) are starting against Marian last week. Left to right the Rose runners are Bob Rollings, Greg Shutske, Bob Childs, Larry Lynn, Sam Vuchinich, Tom Foltz, Larry Olson, Ken Culp, and Jack Arney.

## CAREERS AND OPPORTUNITIES

(Continued from Page One)

nological advances to the scientist and underestimate the engineer. Both have much in common, similar educational backgrounds, methods of work, etc., but the ultimate goal of each is the discerning factor. The scientist strives to learn something new from established laws. The engineer tries to apply his knowledge in creating something new. The work of each is extremely important if progress is to continue, however, the two should not be confused.

There are various types of engineers and no two do exactly the same thing. In this article I shall try to briefly outline the fields open to the mechanical engineer since this is the largest department at Rose. Articles to follow in later issues will feature physics,

math, chemistry, electrical engineering, civil engineering, chemical engineering and bio-engineering.

Mechanical engineering is probably the most versatile field a student may choose. As Dr. James B. Matthews, chairman of the Mechanical Engineering Department, stated, "A student should go mechanical if he doesn't know exactly what he wants, for ours is the least specialized discipline at Rose. Our curriculum is designed to provide the student with a fundamental background in engineering." There are two options a student may choose if he so desires in selecting his electives; aerospace engineering and industrial engineering. These two fields are highly in demand today.

There are eight basic areas from which a graduate in M.E. may choose: research, product development, construction, manufacturing, industrial marketing, energy conversion, administration and teaching. Each of these areas has several branches. Perhaps this is why better than 90 per cent of the companies that interview at Rose want M.E.'s.

The starting salaries of M.E.'s are second only to Chemical Engineers. The average starting salary for the 1967 graduates in M.E. was \$718 per month. This alone is a great incentive, how-

ever the important thing to remember is that we should choose a career which we will continue to want to be a part of the rest of our lives.

## ROSE-ILLINOIS DEADLOCK AT 7-7

In contrast to Rose's mediocre defensive play in the Lakeland game, last Saturday's Rose-Illinois College encounter was a defensive battle as is shown by the 7-7 outcome.

Illinois College gained the advantage in the second period after a costly 15-yard penalty against the Fightin' Engineers for roughing the passer and held the lead until midway in the final stanza.

Coach Martin was disappointed in the inability of the offensive unit to take advantage of several excellent scoring opportunities afforded them by the defense's fine play. Five Rose possessions inside College's 20-yard line failed to provide a single Rose score until Hills connected with Mefford for a touchdown in the fourth quarter. The all important conversion was successful, and the game ended as a tie.

Bill Gurley, defensive end; Gordon Higbee, linebacker, and Chuck Boesenberg, defensive halfback, received praise from Coach Martin for fine defensive efforts. Boesenberg intercepted two passes, recovered an Illinois College fumble, and helped hold College to only one yard gained on eight pass attempts.

Rose suffered a costly injury in the contest as Jim Baugmardt, 6'5", 215 lb., split end, was lost for the season.

Statistics of the contest show the Engineers gained 194 yards on the ground to College's 161 yards and completely dominated the air with 7 of 24 for 106 yards as compared to College's 1 of 8 for 1 yard. Roger Ward, frosh tailback, again led the Rose ground crew with 105 yards on 29 rushes.

The employer hung signs about the office, bearing the message: "Do It Now!"

By the end of the week, the cashied skipped with \$30,000, the head bookkeeper eloped with the boss' private secretary, and three clerks asked for a raise.

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## 1967-1968 Intramurals Open

The 1967-68 intramural competition opened this week with a full schedule of major and minor league touch football. Also starting this week are the tennis, golf, and horseshoes tournaments.

This year's program is slightly different from last year's. Points will no longer be awarded for the individual tournaments. However, trophies will be given to the winners of these tournaments. There will be both a major and minor league All-sports trophy given this year in contrast to the one given in the past. Twice as many team

points are to be given this year, although they are in the same ratio as in previous years.

Points will be awarded in touch football, basketball, volleyball, bowling, softball and also for the cross country and track tournament. Other sports are tennis, foul shooting, golf, horseshoes, ping-pong, pinochle and pool. Tennis, golf, and horseshoes will be offered in both the fall and spring.

The football schedules follow. Monday, Tuesday, Thursday and Friday games are played at 4:20. Wednesday games are at 4:30.

### MAJOR LEAGUE

Oct. 2 ABCD-SN EF	Oct. 10 SN-TRI EF	Oct. 18 ATO-LCA NF	27 OC-SN NF
2 BSB-ATO NF	10 ABCD-TX NF	19 SN-BSB EF	ATO-bye
3 LCA-OC EF	11 BSB-SP EF	ABCD-bye	Oct. 29 LCA-BSB EF
3 SP-TRI NF	LCA-bye	23 OC-BSB SF	30 SP-ABCD NF
TX-bye	12 OC-TRI SF	24 TX-SP EF	31 TX-SN EF
4 SN-ATO NF	13 ATO-TX SF	24 TRI-LCA NF	31 TRI-ATO NF
5 ABCD-OC SF	16 SN-SP EF	25 ATO-ABCDNF	OC-bye
6 BSB-TRI SF	16 ABCD-LCANF	SN-bye	Nov. 1 BSB-ABCD EF
9 LCA-TX EF	BSB-bye	26 SP-LCA EF	2 LCA-SN EF
SP-bye	17 TRI-TX SF	26 TX-BSB NF	2 SP-ATO NF
9 ATO-OC NF	18 OC-SP SF	27 TRI-ABCD EF	6 TX-OC EF
			TRI-bye

### MINOR LEAGUE

Oct. 2 ATO-ABCDI SF	6 ABCD2-BSB NF	13 OC-ABCD2 EF	19 BSB-LCA SF
3 LCA-OC SF	9 ATO-SP SF	13 ABCD1-LCANF	20 TX-ABCD1 EF
4 ABCD2-SP EF	10 OC-TX SF	Oct. 16 ATO-BSB SF	20 SP-OC NF
4 BSB-TX SF	11 ABCD1-BSB NF	17 TX-ABCD2 EF	23 ATP-LCA EF
5 ATO-OC EF	11 LCA-ABCD2SF	17 SP-LCA NF	23 ABCD2-
5 ABCD1-SP NF	12 ATO-TX EF	18 OC-ABCD1 EF	ABCD1 NF
6 LCA-TX EF	12 SP-BSB NF	19 ATO-ABCD2NF	24 BSB-OC SF
			25 TX-SP EF

### LAWYERS AIDED BY COMPUTERS IN RESEARCH

The newest field in which the computer is offering its "let me find it for you faster" helping hand is the legal profession.

Law Research Services, Inc., a New York-based computer research firm, has developed an international service designed to give a lawyer quick referrals to legal precedents that relate to the specific case he is preparing.

For example, a client has consulted his lawyer after receiving injuries which resulted from a fall on a slippery floor in a department store.

A lawyer formerly had to search, sometimes for weeks, through law books for similar cases. Now, with the help of a "legal clerk computer," the job takes only a matter of minutes and provides the attorney additional time to prepare the necessary "briefs," interview the client and witnesses, and otherwise

document the case, LRS officials say.

A lawyer subscribing to the service is equipped with a teletypewriter and a set of alphabetically coded volumes compiled and cross-referenced by Law Research's Honeywell 200 computer. These thesauri—which will number about 270 when completed—cover 25 major legal areas from criminal law to labor relations at state and federal government levels.

Census Taker (to woman at door): "How many in your family?"

Woman: "Five, Me, the old man, the kid, the cow and the cat."

Census Taker: "And the politics of your family?"

Woman: "Mixed. I'm a Republican, the old man's a Democrat, the kid's wet, the cow's dry and the cat's on the fence."

## Tomorrow - Indiana Central

Indiana Central, who blasted the Engineers 32-7 last year, invades Rose Field for the Dad's Day game tomorrow. They bring with them a 0-3 record, having lost to Han-over last week.

Central's offense, which is built around the Dan Nicson to Bill Mowry pass combination, is reportedly weaker than that of last year. Their defense, which held Rose to a lone TD last season, though, is improved and could cause the Engineers more trouble in getting their sputtering offensive machine in gear.

Rose's major line-up change will switch Fred Valanti from fullback to split end to replace Baugraardt with either John Kramer or Dan Peelman, two fine frosh, inheriting the fullback slot.

Coach Martin was quite pleased with the students' fine support of the squad against Lakeland and hopes it will be as good or better for tomorrow's important intrastate clash.

### RAIL FREIGHT TOP COMBACK STORY OF 60'S

The resurgence of railroad freight business is one of the top industrial comeback stories of the sixties. In 1966 the nation's rail lines carried seven per cent more freight than they did in 1965, making it the fifth consecutive year in which freight traffic, revenues and profits have increased after 32 years of decline.

This resurgence has resulted in a freight car shortage which the railroads are rushing to eliminate. In 1966, alone, they spent more than a billion dollars on more than 100,000 new freight cars, according to the Railway Progress Institute.

Because an average of 20 tons of steel goes into the construction of each new freight car, the railroad industry's steel requirements have risen sharply with the car building boom. In 1966 almost 2.9 million net tons of steel products went directly from mills to railroad companies, independent car builders and parts manufacturers to be made into finished freight cars or parts of new or rebuilt cars, the Institute reported.



*Miss Cheryl Pedlow, a student at Indiana State, ran in the cross country meet last Saturday here at Rose. Miss Pedlow is one of the top women distance runners in the United States. She ran independently in the race and reportedly beat several members of our team.*

## ON THE "IN" SIDE

Every year a few days after Labor Day about 50 to 60 stout hearted Rose Engineers slip on the football gear beginning a new season. For the next two and one-half weeks, they'll be banging heads and shoulders during the two-a-day practice sessions, preparing for the first game.

During this period, newcomers, especially the freshmen, soon become acquainted with the workings and procedures of the equipment and training rooms. The tempo here is set by the trainer Mr. Til Panaranto and student manager Henry Balough. One's first encounter with Til (as addressed by the players) comes when he discovers or imagines that he's hurt. (Some players seem very prone to injuries especially if they're tired that day and would rather watch practice.) So, this injured or "hurt" player sees Til before practice. After complaining a while, the patient is usually told (in case of an ankle sprain) not to practice but instead keep ice off and on it during rest of day.

This brings to mind an incident that occurred a couple weeks ago. Til, being very efficient in keeping the locker, equipment and

training rooms clean and orderly, waxed the floor in the training room. Knowing the hazards of his slippery floor he warns his visitors to enter carefully. As what usually happens, Til slips on his own floor and sprains his ankle. This isn't very funny to Til. (Who could blame him, since he hadn't a trainer to complain to but himself?) But Til's daily patients soon heard of his plight and promptly advised him to stay off his ankle and apply ice off and on it for the rest of day. For several days after that, Til's "trainers" made sure they "checked" his swollen joint.

The equipment room, since Til is usually in the training room, is manned by Henry "Cat" Balough, nicknamed by Fred Valanti after the movie "Cat Ballou." Henry or "Cat Ballou" is always there, ready to assist the players in their equipment problems. For example, a player who exchanges with Henry a sock that has two holes in it for supposedly a better one (because there is supply of new socks) more than likely after a "painstaking" search by Henry for another sock receives a sock with just one hole in it.

—Roger Ward