

Rose-Hulman Institute of Technology

## Rose-Hulman Scholar

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The Rose Thorn Archive

Student Newspaper

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### Volume 14 - Issue 9 - Friday, November 10, 1978

Rose Thorn Staff

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Mike Sigmund is shown orienteering near Columbia, Mo., on route to a first place finish. (Photo by Sandra Tom).

## Sigmund wins first place

by Peter Kehoe

Fourteen members of the Rose Orienteering Club participated in a meet last weekend in Columbia, Missouri. The two day meet was sponsored by the Wilderness Adventures Orienteering Club. It was a Class A meet and about a hundred people from all over including one from England competed.

Mike Sigmund, a senior, literally ran away with first place overall on the Red Course. Mike competed in the men's 20-34 year old category with 20 other competitors. His total time for the two day meet was 2 hours, 32 minutes, and 24 seconds. This was 14 minutes faster than his closest competitor.

Sophomore John Moore placed third in a field of twenty. He ran the Orange Course, and

competed in the men's 19-20 age bracket. His two day time was 2 hours, 21 minutes, and 33 seconds.

The team of Scott Hickerson, Galen Kannarr, Mark Mason, and Don McCracken placed fourth out of fourteen on the Orange Course. Hickerson and McCracken are freshmen while Kannarr and Mason are sophomores. Their total time for the two days was 7 hours, 38 minutes and 3 seconds.

Other members of the team who competed include juniors Tim Gutersloh and Frank Smidler, sophomores Paul Fahlsing, Peter Kehoe, and Jim Ren-

fro, freshmen David Boes and Bob Bogusch and Sergeant Brick Burks, the club's advisor.

Physically it was a tough meet. The terrain was extremely steep which made running difficult.

Next weekend will be the U.S. championships. It will be at Boxford State Forest near North Andover, Mass. Four members of the Rose club will be participating. Tim Gutersloh, Frank Smidler, Paul Fahlsing, and Sergeant Burks plan to go. This is the last major meet of the year. Several hundred orienteers from around the country will be competing in this prestigious event.

## Rose protects against fraud

by John Sparks

"Don't sign anything before you check around," is the advice of Dr. Jess Lucas, Dean of Student Affairs, to students as solicitors begin to hit the area.

This time of the year is an especially busy one for solicitors, reputable and otherwise, as graduating seniors are a captive audience.

And the first incidence on the rose campus has already taken place.

Last week, a life insurance salesman representing a reputable firm set up shop in the WORX. However, he did not receive permission to solicit on campus.

Rose policy is to not allow solicitation on campus unless it is approved by the school. This gives Rose a chance to screen salesmen in order to determine that what is offered is actually a good deal.

The insurance salesman also broke another Rose solicitation rule: no high-pressure selling. The salesman reportedly was using high pressure techniques and promising substantial returns if students would sign the dotted line.

As a result, about forty to fifty Rose students signed up for insurance. As word of this filtered down to administration, steps were taken.

The salesman was contacted and sent to Vice-President for Financial Affairs Col. Robert Willets. Because of the fact that the salesman was on campus without permission, was not paying for the facilities, and was using high pressure sales tactics, he was asked to leave.

He has not returned since. Some of the people that signed up will be receiving life insurance policies in two to three

weeks. However, Lucas stresses that this is not a contract and that the buyer hasn't committed himself yet.

The commitment does not come until the individual actually accepts the policy.

Lucas also cautions all students to compare what a salesman is selling to the product of another company before signing anything.

As insurance is a common area in which less than reputable persons involve college students in binding contracts, Lucas reminds everyone that Bob Thompson, Head Track Coach and Assistant Football Coach, is also an insurance agent in his spare time.

Thompson will be glad to give anyone insurance information without the hard-sell approach. The Indianapolis area has fared worse than Rose as of late. Their college students have fallen prey to a stolen credit card racket.

The students' credit cards (most of which are in their parents' names) are stolen and substantial charges are run up in a short time.

Due to the lag time between charging an item and receiving the bill, the thief can do quite well for himself before the card is discovered stolen.

Luckily, this scheme has not surfaced in Terre Haute. But students are still urged to beware.

Rose tries to look out for the welfare of its students by screening solicitors before they come on campus. Also, unapproved persons are immediately asked to leave the campus.

However, the final steps to protect oneself from fraud must be made by the student himself.

## the Thorn

Vol. 14, No. 9

Rose Hulman Institute of Technology

November 10, 1978

## Improvements desired in library

by Dwight Dively

One of the most important features of any college campus is its library. Rose-Hulman and its Logan Library are no exception.

Only a few years ago, the Rose library was housed in Moench Hall. The library occupied the room which is now the student lounge.

As the school and the library grew, the number of books eventually became too large for the room. So, as part of the school's expansion program, the Logan Library was built and the holdings were moved.

The new facility has been a definite improvement over the old library, as it allows plenty of room for books and study tables. In addition, the building features several study rooms, space for CTAPS, and two basement classrooms.

Despite the improvements, students still voice several criticisms of the Rose library facilities. Basically, these comments can be broken down into three areas: too limited, too old, and too confusing.

The first problem involves the library's rather limited selection of subjects. With the increasing

emphasis on the humanities and the consequential increase in term papers, the demand for books and journals covering history, political science, psychology, sociology, literature, economics, and philosophy has grown astronomically, unfortunately most students find that Rose doesn't have enough information available, and they have to go to ISU to complete their research.

Secondly, the age of many of the titles is a factor in decreasing their value to the student. With the rapid changes in science and technology, a twenty or thirty year old book is of little value to a contemporary student except for in the most basic courses.

Finally, the floor layout and organization of the stacks in the library come in for considerable criticism. To best utilize the floor space and provide a pleasing appearance, the shelves were arranged in concentric circles or arcs.

Most students found this to be a great obstacle to finding the books they needed. This problem is further compounded by the lack of master diagrams showing where certain numbers

are shelved. As one student put it, "When I came here as a freshman, it took me quite a while to figure out that there were books upstairs. I just kept going around in the circles on the main floor assuming I'd missed the book I was looking for."

Despite these shortcomings, most students thought the library was sufficient for most of their technical needs. There was a desire for newer and more advanced books on some of the complicated subjects, however.

Several positive points were brought out to offset the criticisms. The wide selection of technical journals was praised, as was the helpfulness of the staff. The most common positive comments went to the building itself. A large number of tables and chairs plus the study rooms won great praise, while many students liked the atmosphere created by the paintings and carpet. The air conditioning is especially appreciated in the summer!

Rose's Logan Library already plays an important role in the life of the average student. As the world becomes more complicated and detailed, that role is bound to grow still more.



Joe Gaines plays Job and St. Mary's coed Cindy Schnell is his wife Sarah in this scene from the Drama Club's recently concluded production of "J.B." Audience reaction to the show was quite favorable; a total of 236 persons attended the three performances. The club plans to produce a full-length comedy winter term. (David Womble photo).

## Alcohol a problem

by Jim Weber

Dr. Jess Lucas, Dean of Student Affairs, recently delivered a message to the various fraternities and the I.F.C. concerning the advertising of their parties. The message was clear: Don't use alcohol as a major force for drawing a crowd.

"The message," Dr. Lucas confided, "is not aimed solely at fraternities but at all organizations we have noticed that alcohol is becoming increasingly common at all social functions. We can't eliminate the use of alcohol. It's just that we can't let people advertise 'Come to our party and get smashed'."

Dr. Lucas' message is not a crackdown on alcohol at Rose-Hulman but merely a reminder of administration's policy concerning alcohol at school

related functions. "We can't eliminate beer at parties, and we don't want to," Dr. Lucas said. "We only want to keep it in its proper place at social functions."

The policy of Rose-Hulman, as stated in the Residence Hall manual, is, "The Institute believes that the development of self-discipline, individual responsibility for compliance with State law and by the removal of complete prohibitions which are not enforceable in practice."

In Dr. Lucas' message there were no threats of disciplinary action. It was simply stated that things would have to change as far as advertising parties. "So far," Dr. Lucas said, "we have noticed the problem clearing up and, hopefully, no further measures will be needed."



## HSLs studies under review

As part of the school-wide curriculum revision, the Division of Humanities, Social, and Life Sciences has been meeting to decide upon any changes that need to be made in the present program.

The group working on the evaluation has been under the direction of Dr. Thad Smith, associate professor of political science. Also involved are Dr. Heinz Luegenbiehl, assistant professor of philosophy, Dr. Peter Parshall, associate professor of comparative literature; Dr. William Pickett, associate professor of history; and Division Chairman Dr. Thomas Mason, associate professor of economics.

Several students are also participating in the revision, including sophomore John Bolin, juniors Chris Brooks, Jeff Davis, Dwight Dively, and Jeff Koechling, and seniors Marty Krongold and John Rasp.

The group began by studying current trends in education and the humanities in general, and then scaling down to the level of Rose. This procedure involved the study of the humanities education at several other technical schools, especially a fascinating program at Wooster which involves an integrated humanities and sciences project at the senior level.

The objectives for the Humanities division needed to be considered in light of the goals established for a Rose education in general. As outlined by Dr. Mason, these goals are:

- 1) Finest undergraduate education in sciences and engineering for highly sought after graduates.
- 2) Analytic tools, problem solving skills, and humanistic perspectives essential to successful careers.
- 3) Awareness of the complex-

Completed on Pg. 3

## Rose hosts math meet

The annual high school math contest co-hosted by Rose and Saint Mary-of-the-Woods is scheduled for Saturday, Nov. 11, involving 30 high schools and 500 students within a 75-mile radius of Terre Haute.

Registration for the contest begins at 10:15 a.m. and testing starts at 11 a.m. Male contestants will be tested in Moench Hall on the Rose campus and female contestants will take the test in the science Building at St. Mary's.

Awards will be presented at 2 p.m. in St. Mary's Cecilian Auditorium.

Susan Mayer, a math teacher from Warren Central High School, will speak to the high school faculty members on the topic of "Math Mosaics of Regular Polygons."

Students compete at their own grade level and are scored by faculty members, teachers, and college students. The test questions are written by math department faculty members and interested college students.

The winning school team is awarded a traveling plaque, which they can keep if they maintain their record three years in a row. There are 32 prizes given in the form of trophies and certificates.

A similar contest is also hosted by Rose and St. Mary's for 20 high schools and 350 contestants in the St. Louis metropolitan area.

"The test requires ingenuity, but some tools from algebra and geometry are necessary," said Herbert R. Bailey, professor of mathematics at Rose.



Decent Chick of the Week: Ann Anderson

The Thorn will not publish next week due to the finals crunch and the fact that Friday, November 17, has been cancelled.

## What's Happening

There are several activities scheduled during the next week before the end of the quarter.

**SEMINAR.** Thomas Stephens will present a seminar on clinical chemistry Monday, Nov. 13, at 4:20 in Room G315.

Mr. Stephens, a 1972 Rose chemistry graduate, now works for the American Monitor Corporation in Indianapolis. His topic will be "The Optimization of Clinical Chemistry Methodology."

Dr. Frank Guthrie, professor of chemistry, explained that the seminar will deal with current approaches to clinical applications of chemistry, and will involve a discussion of new equipment and procedures.

**DINING-IN.** The annual R.O.T.C. Cadet Battalion Dining-In will be held on

November 10 at the V.F.W. Post 972 on South Thirteenth street. This formal reception and dinner will commence at 6:30 p.m. and is for cadets, officers and non-commissioned officers affiliated with the battalion, and invited guests.

The battalion is composed of cadets from Indiana State University, Rose-Hulman, St. Mary-of-the-Woods College and DePauw University.

A band concert is also coming up next Thursday at 8:00 p.m. here in the auditorium. The bands from Rose and St. Mary-of-the-Woods will join together in what should be an excellent concert.

**CHESS.** This past weekend the Rose-Hulman Chess Team travelled to Indiana University at Bloomington for the Indians

State Chess Association Team Championships. Team members participating in the championships were: Jim Murduch and Joe Farrell, first board; Bob Kaninsky, second board; Mark Shirley, third board; and Jamie Oxley, fourth board.

Fifteen teams from the state participated in the meet including with USCF (U.S. Chess Federation) expert ratings (2000-2200 average). Rose finished second in the under 1600 rating class. Individual standouts were Jim Murduch (2-0), Joe Farrell (1½-1½) and Bob Kaninsky (3-2).

Rose is planning to attend another meet in early December and the Pan-American Team Chess Tournament during Christmas break.

## Debaters set schedule

by James Knox

Rose-Hulman's junior varsity Debate Team suffered a disappointing setback last weekend when they failed to place at the Gavel Debate Tournament at Ball State.

The negative unit of sophomores Kevin Bowen and Mark Bates finished with a 2-2 record, while the affirmative of freshman Kevin Liekhus and sophomores John Schuster went 1-3.

The squad will attempt to rebound next month at a tournament at Greenville

College in Illinois. The December 2 meet will be the last before Christmas.

Tentatively, the affirmative has been set at Bowen and senior John Rasp, while Bates and sophomore Jim Renfro will be the negative unit.

The team will also host the Rose-Hulman High School Tournament on Saturday, Dec. 9. Teams from all over Indiana are expected to participate in this day-long event. The debaters will be discussing the U.S. energy policy. Rose hopes to make this an annual event.

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FRANKLY SPEAKING ...by phil frank

HE DID SIGN THE CONTRACT,  
CHIEF.. BUT HE DISLOCATED  
HIS WRIST DOING IT...



Rifle team unbeaten

by Norm Frey

The Rose-Hulman Rifle team boosted its overall record to eight wins and no losses this last weekend as the Army R.O.T.C. marksmen clipped both Notre Dame and Loyola R.O.T.C. units at Notre Dame. Rose-Hulman's five-man team came up with 1,254 out of a possible 1,500 points to better Loyola and Notre Dame by 78 and 135 points, respectively. Leading the way for the Engineers was Freshman Bruce Ziegler with a truly exceptional 263 out of 300 score, followed closely by James Gryga, Tim Juntunen, Dave Kolacz, and Jeff Sutherland.

On October 28th Rose-Hulman routed Purdue's Army and Navy R.O.T.C. units by 330 and 89 points, respectively. Top marksman for Rose was Charles

Leddon with one of his consistently high scores, this time a 273. Gary Meier was second, followed by Bruce Ziegler and Brian Raver. Leddon, Meier, and Ziegler took the first three individual scores of the match, while Brian Raver took fifth after being edged out of the number four spot by a single point.

Although it is a flying start towards a perfect season record, the Fightin' Engineers have plenty of challenging invitationals as well as a difficult spring tour before the season ends on the 28th of April. Coming up next weekend, the Walsh Invitational at Xavier University in Cincinnati will be the first real test of the team's depth, determination, and skill.

Thinlies place third in conference meet

by Mike Dunkel

The cross country team ran third in the conference meet with six runners getting personal best times.

Principia was first with 16 points. The next places were: Sewanee (54), Rose-Hulman (85), Centre (93), and Southwestern (109).

"That was our best meet of the year," said Coach Jim Hargis after the conference meet. "It was perfect weather and a perfect day and we didn't have any problems," continued Hargis.

Dean Billheimer was the first Rose runner and finished 10th with a personal best time of 26:18. Billheimer was trailed by: John Whitaker, 13th, 26:42 and personal best time; Mike McCullough, 15th, 26:47 and personal best; Gary Totten, 22nd, 28:00 and personal best; Wil Henzen, 25th, 28:13; Vince Foushee, 26th, 28:23 and personal best; Steve Kennedy, 30th, 28:37, personal best.

"The 1978 cross country team finished with three wins and six losses," said Coach Hargis. Next season everyone will be returning from a team that had only two

upperclassmen this year.

"Next year we would like to turn it around and be 6-3, and we will be second in the conference," Coach Hargis stated.

Next season the team will have five members of the top 15 all time Rose runners returning. These are the top 15 runners since 1974 who ran cross country in a five mile race. Although Rose has had some excellent runners in the past, this year's team compares very favorably to them. In fact, this year's team may be one of the best of all time. A list of the top 15 runners, including the returning runners are (according to Coach Hargis):

- Dennis Dierckman 25:28 (74)
- Wil Hentzen 26:12 (77)\*
- Dean Billheimer 26:18 (78)\*
- Denny Funk 26:28 (77)
- Allan Cassidy 26:30 (75)
- Allan Stoner 26:42 (74)
- John Whitaker 24:42 (78)\*
- Mike McCullough 26:47 (78)\*
- Doug Vinson 26:51 (77)
- Guy Gadomski 26:52 (77)
- Dave Schacht 27:00 (75)
- Bill Fox 27:05 (75)
- Ken Hilk 27:39 (78)\*
- Mike Denault 27:40 (75)
- Chick Yatsko 27:42 (76)

\* returning

Rose loses to Sewanee must win this Saturday

by Bob Pease

The breaks finally caught up with the Engineers last Saturday at Sewanee as Rose dropped a heartbreaker 21-14. The loss drops Rose to 2-1 in the conference and the Engineers must win this weekend to tie Sewanee for the conference title. Otherwise, Southwestern of Memphis and Sewanee will share the title with 3-1 records.

The first quarter was scoreless, but Nino Austin gave Sewanee the lead at the half on a 35-yard touchdown strike. This is not to say Rose did not threaten in the first half. In fact, a 78-yard touchdown run by Jay Cassidy was called back on a questionable penalty. Later Rose threatened again before that drive fizzled out inside the Sewanee 20. Then a third drive that nearly netted a score was cut by yet another penalty.

In the second half the teams swapped goals. Sewanee scored first. Rose countered with a touchdown by Cassidy. Then Rose gave up a quick score on the kickoff for the second time this season. Finally Rose mounted two more good drives. Pfansteil's touchdown and the two point conversion cut the lead to seven. Then Pfansteil directed another drive and looked as if

Rose might pull off its second 22-21 come-from-behind victory this season. An end zone interception ended those hopes.

Turnovers and penalties were again a big factor in this game. Sewanee's first score in the second half was set up by a Rose-Hulman fumble, and Rose's last scoring attempt ended in an interception. Penalties took away at least two Rose scores as well.

For the game Rose beat Sewanee in almost every statistic except the final score, but Sewanee did get the win and an automatic tie for the conference crown no matter what happens this week in the Rose vs. Southwestern game.

The defense was again led this week by Lindner and Schramm. Lindner, Fiscus, and Schramm each had 9½ tackles this week. Hodson followed with 8½. For the season Lindner leads the team with 98½ while Schramm has 87.

This week the offense was led by Jay Cassidy who completed 87% of his assignments. He was given good support by Matz — 83%, Pfansteil — 81%, Haas — 78%, Ripple — 76%, Willing — 76%, and Mayfield — 75%.

Leading rushers for Rose this season are Ripple with 528 yards

on 131 carries. Peak with 400 yards on 93 carries, and Cassidy with 376 yards on 79 carries. After seven games, Ripple was fifth in conference with better than 60 yards per game. Also after seven games, Kaufman was second in the conference with 3.4 receptions per game. He now has caught 30 passes for 629 yards.

After seven games, Rose had the number one offense in the conference with 328.0 yards per game. They also had the second best defense yielding 280.6 yards per game. However, the Engineer pass defense is last in the league giving up 161.9 yards per game. This should make for an interesting game this week since Southwestern's passing offense is far and away the best in the conference and one of the best in Division III.

After seven games, Haas was second in the conference in total passing yards, and Pfansteil was fourth. Despite that fact, Solomon of Southwestern was ahead of both of them combined.

The final game of the season for the Engineers will begin at 1:30 p.m. this Saturday. A win would give the team a 6-3-1 record and a 3-1 mark in conference play.

Soccer team plays well in CAC three make all-conference team

by Paul Wallace

Last weekend Rose performed well in the CAC soccer tournament, but finished with one victory and three defeats placing them tied for fourth in the conference. This makes the team's record 5-5-1 for the season.

In the first game of the tournament Rose went up against a tough team from Principia, and lost 3-2. Both Rose and Principia played well, with Principia especially strong in the fundamentals. Rose's teamwork was slightly lacking, but their hustle was exceptional. If Rose had played a more complete game chances are they would have won. The game was marred by controversy. Principia received two questionable penalty kicks, and scored on both of them. Penalty kicks are a rarity in soccer (Rose had two the entire season), so Rose's objections seem to have some justification. Also the two goals were the difference in the game. Principia was the eventual co-champion.

The next game was a thriller against Sewanee. The game was tied 1-1 at the end of regulation play and in two 5-minute overtime periods no one managed to score, forcing the game to be decided on five penalty kicks. Eric Mooney, Blair Hughes and Ray Farmers scored three goals for Rose in this special tiebreaker, and Sewanee could manage but two. This made the final score Sewanee 1, Rose 2, since winning the tiebreaker gives the winner one goal. Rose played well in this game, but although they won, they did not play up to full potential.

The next game was with Centre, which turned in to another one goal defeat. Rose started the first half with an excellent exhibition of soccer and jumped to an early one goal lead. In the second half Rose continued to play well, but they did not reach the tempo of the first half. Consequently Centre was able to come back and score two goals in the second half to win 2-1.

H.S.L.S. Studies  
Con't. from Pg. 2

ty and interdependence of technology and society and preparation for leadership in solving societal problems.

4) Service to the community, state and nation.

For the past two weeks, the group has been working out a series of goals for the Division, based on this summer's Lilly Conference report prepared by Dr. Pickett. A final version of these goals is now nearing completion.

As Dr. Smith outlined it, the next few meetings will be spent on determining how well the goals are being met by the present curriculum. Weaknesses and problems will be pinpointed and any areas omitted from the program will be identified.

Specific courses and requirements to meet these concerns will be the final topic of discussion, probably shortly after Thanksgiving. The ultimate report will become part of the school-wide curriculum revision to be completed this year.

Centre's two goals were "uniquely" scored. The first came on another controversial penalty kick and the other was a miracle goal. The ball was kicked by a Centre player off the outside of his foot while his foot was behind him and three feet in the air. The ball barely arched over Rose goalie Ray Farmer to score.

In the last game against Southwestern of Memphis, Rose lost 2-0. Southwestern was physically aggressive and took control of the game. The Rose offense had ball control problems and just could not keep the ball at Southwestern's end. Southwestern was the other co-champion.

Overall, Rose did not really play up to its full potential in the tournament. Considering the closeness of all the games, had they played up to their potential they might have been conference champs.

Of the 11 All-Conference players, Rose had three. They were Fullback Steve Wertz, Forward Erick Mooney, and Forward Bob Froetscher. Goalie Ray Farmer and Fullback Tom Roetcker also turned in good performances.

Rose's substitutes played a large role in the tournament since it was hot and two Rose players were injured.

This tournament ends Rose's soccer season, but the outlook for next season is good. Rose will return all starters and lose only Andy Klotz, to graduation. This means the second year team should definitely be in contention for the conference title.

FJI victorious in IM meet

In last Tuesday's Intramural Cross Country meet, FJI was first with 34 points, Speed second with 61, Independents third with 79, LXA fourth with 95, ATO fifth with 136, and BSB sixth with 138.

Out of 234 students running in the meet, 97 scored the halfpoint for running under 10 minutes. The number of students participating was over twice the amount as participated last year.

Below are the team results, with each member and place.

FJI	LXA		
Wilson	2 Malone	9	
Curtin	4 Bagwell	16	
Priem	5 Sigmund	17	
Roetker	10 Gehring	21	
Froetscher	13 Gearig	24	
Total	34 Total	87	
SPEED	ATO		
McMillan	1 Clouse	23	

Synko	6 Tarvin	25
Womble	8 Czarnecki	27
Hickerson	22 Hill	28
Yeager	37 Menke	33
Total	74 Total	136

Independents	BSB	
Greer	7 Swimehart	3
Burklett	12 M. Brown	19
Boodt	14 Renholzberger	29
R. Smith	20 Mooney	38
Schepper	26 Worthley	49
Total	79 Total	138



The state with the greatest population density is New Jersey, which has 953 people for every square mile.



# Editorial

The casual observer (or prospective freshman!) would probably consider the Logan Library as one of our campus's most valuable assets. Indeed, that is as it should be, for the storehouse of knowledge is and must be a key element in the educational process.

In contrast, many students consider our library to be one of the weak features of Rose. They feel it is inadequate for most humanities work, and often find it outdated for most scientific work.

As usual, the truth lies somewhere between these views. Undoubtedly, the library facility itself is an important and valuable asset to the Rose campus; but it is equally certain that a lot of improvement is needed before our library can hope to match those of many of the other top engineering schools.

Once again, the big stumbling block is money. Books and periodicals are incredibly expensive, as any student who has purchased books for classes well knows. Without more money, few substantial improvements can be made.

This is not to say that changes are not possible. The oft-mentioned complaint of the confusing shelf arrangement could be easily solved by providing a "real" pattern of shelves; perhaps even the traditional rows! Failing this, a few large diagrams showing the pattern of numbers on each floor would help. The effect would be positive for a minimal cost.

Another possibility is to concentrate book purchases in areas where the most usages occurs. The faculty could be polled as to what library assignments they make (research papers, formal labs, etc.) and purchases could be geared to these needs. A student survey might also be done.

The library is not included in the master Plan, so there is probably little prospect for major modification. This seems to be sort of glaring omission, and an addition to the Master Plan might be considered. Nonetheless, there are a lot of small improvements possible which would make our library a more valuable asset.

# Thanks!

The staff of the THORN wishes to thank the S.G.A. for the purchase of three new typewriters for the newsroom. The new typewriters are much appreciated because the old ones that were being used were outdated and constantly in need of repair. The new typewriters are Smith-Corona cartridge ribbon models and are already easing the job of putting together the paper.

# New professors selected

Rose-Hulman has hired three new faculty members who will be assuming their positions at the beginning of the Winter term.

They are Dr. David R. Voltmer, associate professor of electrical engineering; Dr. Robert A. Howland, Jr., assistant professor of mechanical engineering; and Samuel H. Dupree, Jr., instructor in graphics and a member of the staff of the Waters Computer Center.

Professor Voltmer comes to Rose-Hulman after nine years experience at Penn State University in University Park, Pa., where he has had extensive experience in basic circuits, fields, solid-state and laboratory courses at the undergraduate level and in fields and microwave engineering at the advanced degree level.

He was graduated from Iowa State University with a B.S.E.E. in 1961 and earned an M.S.E.E. at the University of Southern California at Los Angeles in 1963. He earned a Ph.D. in electrical

engineering at Ohio State University in 1970.

Professor Voltmer has served as a laboratory chairman at Penn State and has been responsible for the development of the school's design-oriented, problem-solving laboratories. He has served on Penn State's electrical engineering curriculum committee, currently serving as its chairman.

His interests include distance running, camping and outdoor activities.

Professor Howland, who earned his B.A. in physics and philosophy at Yale in 1965, stayed on at Yale to earn an M.S. in astronomy in 1967. He completed his Ph. D. in engineering science and mechanics (minor in mathematics) from North Carolina State in 1974.

From 1974 to the present Prof. Howland has taught sophomore statistics and junior dynamic courses in the Departments of Engineering Science and Mechanics and Mechanical and

Aerospace Engineering at North Carolina State, having been evaluated in the top fifth of the faculty in the later department.

Professor Howland has a strong interest in concert percussion and has directed a pipe band and taught both piping and drumming to bandsmen at North Carolina State University.

Dupree was graduated from The Penn State University with a B.S. in astronomy in 1974 and received the masters in astronomy from Penn State in March. He plans to continue his post-graduate work in astronomy.

During his last three years as a graduate student he held the position of graduate assistant at the university's computation center. His responsibilities included computer programming and consulting with research users. Dupree also has had experience installing and implementing various program packages for general applications support, specially courses in introductory programming and in computer graphics.

# The THORN

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"As you mention something, if it's good it goes away, if it's bad it happens." — The Unspeakable Law.

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# Preview of finals

by Sam Hubert

The first All-School Final Exam Festival of the year will begin Saturday, November 8, says Festival Chairman Lew Harmening, the school's Director of Schedule Conflicts.

The four-day festival will formally open in the Fieldhouse that morning with the beginning of the Diffy Q Opening Ceremony. Over two hundred sophomores have been invited to attend this event. The six-hour ceremony has been scheduled to last four hours.

The highlight of the festival will be Tuesday morning's Drag Calculus Qualification Test. This represents a significant change in the festival's schedule.

As Math Department Chairman Baron von Ritter explains it, "Last year we had calculus scheduled for Saturday so students (who had to attend classes on Friday) wouldn't have a chance to study for it. This year there is a day off Friday, so we postponed the test until later when students would be too burned out to study for it."

The festival concludes Wednesday morning. Three ceremonies are scheduled at

various locations on campus. "We would have liked to have had a longer festival," reports Harmening, "one extending even until Wednesday evening or Thursday morning. We weren't able to schedule enough acts for that this year, but we're hoping to next year."

The most popular act seems to be the so-called "Disappearing Freshman" trick. This feat of magic is all the more incredible because it is always difficult, if not impossible, to determine how the trick is performed. All that is really known is that some sleight-of-hand done at some time during the exam festival causes large numbers of freshmen to disappear from Rose shortly before Thanksgiving, never to be seen again. The trick has also been performed, to a lesser extent, upon upperclassmen.

In anticipation of this great event, the Thorn would like to present the following list of tips for those who are in training for festival competition.

Never copy from someone who knows less about the subject than you do. If you must cheat, copy only the correct answers

from your neighbor, ignoring the incorrect ones. If possible, get a copy of the test in advance and have it completed before the exam session begins. In no case, however, should you turn in finals that have been typed or Xeroxed.

Always remember the importance of study. Some students assume that, because great mathematicians like Euclid never studied for calculus tests, therefore they shouldn't have to, either. This reasoning fails to recognize the fact that Euclid had an abacus which could find derivatives, while most modern calculators cannot.

It is also best to forget about such non-essentials as sleep during the exam festival. It is a little known fact that the mind operates best and is best able to take in all the exam has to offer when the student has spent the entire previous night preparing himself for it.

The best way to study for finals is, of course, to know the questions in advance. At great risk and expense, the Thorn has managed to obtain questions from the Calculus I final. These are printed below.

## Calc I Final

(1) Let  $f(x)$  be the base of the natural logarithms,  $e$ , raised to the power of one-half the square of  $x$ . Integrate  $f(x)$  dx.

(2) A man is rowing a canoe across a barrel of molasses at twice the speed of light. The right front tire on the canoe has a blowout, imparting an acceleration of 6 kilofurlongs per fortnight per fortnight. Derive a

formula to express the velocity of the paddle at time  $t$ , and find the positions of the hubcap at time  $t = 92$  ohms.

(3) Integrate one of the following: Los Angeles; Chicago; Boston; Pontiac, Mich. Show that your solution agrees with applicable court rulings.

(4) Ignoring the curvature of the earth, but accounting for the earth's rotation on its axis and revolution about the sun, derive

an expression giving the position  $s$  at time  $t$  for a projectile fired vertically upward at an angle of 78 degrees from the horizon at an initial velocity of 9.6 megacubits per milenium. Differentiate this equation, and use the result to show that left-handed widgets manufactured south of the Mason-Dixon line cause cancer in Presbyterian rats on alternate Thursdays.

(5) Given  $dy/dx$ , show that calculus is a bitch.

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We'll be on your campus Wednesday, Nov. 15.

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