

Rose-Hulman Institute of Technology

## Rose-Hulman Scholar

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Student Newspaper

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Fall 11-13-1981

### Volume 17- Issue 10- November 13, 1981

Rose Thorn Staff

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Largely responsible for the success of the Engineer cross-country team is the No. 1 runner on the squad, Mike O'Brien. O'Brien, who qualified for the NCAA Nationals last year, has taken firsts in the Butler Invitational, the Hanover Invitational, and meets with DePauw, Earlham and Wabash. He capped off the regular season with a first place finish in the Little State Meet which is comprised of all colleges and universities in the state of Indiana with the exception of Indiana University, Purdue, Notre Dame, Ball State, and Indiana State. O'Brien and the rest of the cross country team will compete in the NCAA Division III Regional meet tomorrow at Tri-State University.

## Recent larceny indicates vulnerability

by Mike Rugg  
Staff Reporter

Despite a lock change that cost \$27,000 last Christmas, Rose-Hulman is apparently still vulnerable to walk-in burglaries. On Saturday, Oct. 31, a stack of ungraded exams was stolen from a professor's office.

There were no signs of forced entry. The building and grounds man on duty that day found the office locked at 3:30, 5:30, and 7:30 p.m., but unlocked at 9:15 p.m. This was reported on Monday as was the theft of the papers.

The last "academic burglary" at Rose occurred five or six years ago when someone broke into an office to change numbers in a gradebook and answers on an exam. The student was caught and the Discipline Committee referred him to the instructor for punishment.

All of the locks on campus were changed over Christmas break last year after a set of master keys was lost, resulting in break-ins of several offices. The cost of the locks and the installation work was \$14,000 for the residence halls and \$12-

\$13,000 for the other buildings.

The apparent increase in crime on campus has caused the school administration to pay more attention to security. In addition to the hiring of a full-time security director this year, seven work-study students have been assigned to the security office to patrol with the full-time guards.

The security office has been moved under the jurisdiction of the Student Affairs Office. Earlier this year, it had been a part of the business and finance department.

# the Rose Thorn

Vol. 17, No. 10

Rose-Hulman Institute of Technology

November 13, 1981

School gets excellent review

## North-Central evaluates Rose

by Kevin Bowen News Editor

Two weeks ago, an evaluation team from the North Central Association of Colleges and Schools was on the Rose-Hulman campus to review the accreditation.

The North Central Association periodically reviews the academic and extra-curricular stature of schools to determine whether they will receive and/or maintain their standing as accredited. A school must be reviewed by North Central at least once within a ten-year span. Schools with marginal ratings are reviewed more often. Rose was reviewed last in

1971, receiving a sufficiently high rating to warrant the full ten-year extension on accreditation.

During the time the committee members were on campus, they met with several members of the administration, faculty and staff. They also associated freely with the student body, including an open-forum discussion with any interested students invited to attend and participate. The final official report will not be available for a few more weeks, but according to Dean of Faculty and Vice President of Academic Affairs Jim Eifert, Rose received a "very favorable review." These and other comments were based upon an oral critique by the evaluation team before they left. Following are some of these comments.

The entire Rose community — students, faculty, staff and administration — was recognized as being of exceptional calibre. The student body was classified not only as high quality (potential) but also as intellectually oriented, serious and hard-working.

Several attributes of the faculty were also noted. Some of those mentioned by the evaluation committee included their collective high level of qualification, dedication, and enthusiasm. Perhaps the most important points were that the faculty were universally available to the student body in order to help them and that the

faculty not only work for Rose-Hulman, but more importantly identify with it.

This identification was not limited to the faculty, as the committee noted it throughout the entirety of the Rose community. This has created a proud student body and a staff which has not only commitment to goals, but a clear identification of what those goals are. The only points of discord noted were in the areas of graduate studies and coeducation.

The quality of the student body was credited to the quality of the admissions office. The admissions program was cited as being extremely aggressive and ethical, which results in incoming students not only meeting rigid admissions standards, but also resulting in a notably low attrition rate.

One of the few negative points noted in the critique was in regard to the graduate studies program. The point made was not that the program was not of sufficient quality, but that the school has not yet formally articulated what place the program should or will have at Rose. According to Eifert, this is admittedly true, but "we are just now to the point where we need to deal with the program as an important part of the school. It just happened that this is coincidentally the point where North Central visits campus."

## Grad students prepare theses

by Don Dodson  
Managing Editor

(This is the first in a series of three articles about graduate students at Rose-Hulman. The first and second articles will deal with the research work they are doing, and the third will summarize their impressions of the graduate program and their descriptions of what it's like to be a grad student.)

Twelve full-time students are pursuing graduate degrees at Rose-Hulman in four fields of engineering. Outnumbered on campus by undergraduates by almost 100-to-1, they are also a minority among college graduates because they have elected to further their education in lieu of receiving immediate salaries in industry. In the Master of Science diploma and the ceremonial hood that goes with it, they see a ticket to bigger and better things in engineering.

In selecting Rose as the school from which they want to earn their M.S. degree, they have chosen an academic institute which accentuates undergraduate degrees in engineering. Rose's graduate program, though long established, remains a fledgling in size if not in stature.

"We're not large, but quality has nothing to do with size," says

Dr. Darrell Gibson, director of graduate studies.

The program offers advanced degrees in five fields of engineering: biomedical, chemical, civil, electrical, and mechanical. Of the dozen students enrolled in the graduate program, half are seeking M.S. degrees in mechanical engineering. Three of the remaining six are in chemical engineering; two are in civil engineering, and one is in electrical engineering.

Each is required to complete 36 hours of coursework and to write a thesis which counts for 12 additional hours of credit. Once the thesis is complete, the student must undergo an oral examination in which he must "defend" his thesis.

Most of the graduate students in the program have just begun their first quarter at Rose and so have only started work on their research projects. One exception is Oyo Ita, a civil engineering major who, after four quarters at Rose, expects to finish his work this quarter.

Ita, who holds a B.S. degree from Platt Institute in architectural engineering, has been working with Dr. Daryl Logan on the topic of "layered composite cylindrical shells," specifically those constructed of fiberglass. In his work, Ita has

subjected the shells to various stress conditions to determine their structural limitations. Although his research directly concerns liners in chimney stacks, practical applications of it could be used in designing piping.

Dr. Logan has also been working with Mourali Hourani, a first-quarter graduate student who earned his B.S. degree in mathematics and civil engineering from Manhattan College. Hourani's main interest lies in the realm of structural engineering.

The three graduate students in the chemical engineering program are Jeff Hippler, David Mead, and Larr Etzler. All three are 1981 graduates of Rose-Hulman.

Hippler, who is working with Dr. Thomas Hanley, hopes to relate concentration fluctuations in a solution to the degree of mixing in a continuously stirred tank. He began work on the project during his junior year. Salt and distilled water are serving as solute and solvent in Hippler's model.

Mead, whose faculty associate is Dr. Ron Artigue, is investigating the transport and reaction process in cancerous cells. He is doing basic research and uses theoretical models rather than working with cells in the laboratory. So far, oxygen is the only transported compound that Mead has examined in his study, but he is considering the study of glucose, carbon dioxide, and lactic acid as well.

Etzler, whose work has been supervised by Dr. Warren Bowden, is developing microprocessor programming for temperature control of liquids used in a purifying process known as "recrystallization." Heating of such liquids results in the melting of the substance to be purified; this in turn allows impurities to be separated from the substance.

## Energy winners cited

by John Marum  
Assistant Editor

The results are in for the Energy Awareness Week Energy-Saving Ideas Contest. The contest, which was open to all Rose students, required submitting a written suggestion on how energy could be saved on the Rose-Hulman campus. The entries were judged on such factors as implementation feasibility and return on investment (the amount of energy saved compared to the cost of implementing the idea). All ideas had to have a payback period of less than four years to qualify.

First place went to Pete Soller, a junior mechanical engineer, for his idea on regulating the flow of hot water in the hall showers. The flow control would limit the amount of water for each shower, reducing both water consumption and the energy required to heat the water. According to Soller, these units would only cost five to seven dollars each.

Soller also won second prize, totaling up \$15 for first as well as \$10 for a second place idea. His second energy-saving idea

involved installing a bi-metallic flue damper on the small space heaters which hang from the ceiling in Moench Hall. These flue dampers could automatically shut when the heaters were not hot, keeping in warm air during the winter. These dampers would cost around twenty to thirty dollars each.

The third place winner was Bill Lorenz, who received five dollars for his entry suggesting that hall lights should be shut off during the day. Although this requires some cooperation from those who live in the halls, it would still save energy with minimum investment.

Other suggestions included improving ventilation for Moench Hall, installing solar water heaters on the roofs of the halls, recycling the hot air from the dryers back into the halls during the winter, and installing heavier curtains in the Union to reduce heat loss through the windows.

The administration would like to thank all those who participated in Energy Awareness Week and especially those who submitted energy saving ideas.

## Auditions slated for Dec. 8-9

Have you been waiting for a chance to perform on the Rose-Hulman campus? Scheduled for January 31, 1982, Rose's second annual "Engineers in Concert" recital will offer the serious musician an alternative to the Rose Talent Show. Auditions will be held Dec. 8-9, 1981, from 4:20-6:00 p.m. for those students, faculty and staff who wish to participate.

Last year the concert was a rousing success. In addition to

pianists, we had fine performances on trombone, cello, violin, trumpet, bluegrass guitar and bass, vocal baritone, flute, and harp.

Now is the time to start practicing and organizing your performance. If you are interested in more information, or if you have any questions, contact David Dvorak (Box 353), Dr. C. M. North (E-103, Box 89), or Dr. J. S. Spicknall (HSLs office).



## Thorn/EDITORIAL

by John McHugh  
Editor

Of all the facilities on campus, the phone system is the least adequate and also the one that touches the most people. The system presently consists of one or two campus telephones per floor, connected to a switchboard in the main lobby of Moench Hall. This system allows only local calls to be made out and no calls to be made in after eleven at night. There is only one system presently in use which could be considered worse and that is one phone per hall. I feel Rose-Hulman must replace the present system and put private phones in each room.

The telephone system that is presently in use at Rose-Hulman is more than an inconvenience; it is actually very expensive to the Rose student. Aside from the fact that it is almost impossible to get a line off campus sometimes, and that it is difficult to carry on a routine phone call with stereos blasting and people walking by you, Rose students pay monetarily for the lacking phone system. Students at this school must pay the added expense of operator assistance everytime they make long distance phone calls, because there is no way to dial directly. These costs add up very quickly and become considerable amounts of money after a year of phone usage.

I would also like to point out that a "half-way" solution is not the answer. These "half-way" solutions include putting more phones on each floor, putting phones in the rooms but still having them hooked through a switchboard, or placing them in only certain rooms. Any of these solutions will merely push the problem into the future a few years and waste the institute's money.

Putting private phones in each room or even having party lines between every two rooms is the answer. The cost would be several hundred thousand dollars and it would be well worth the cost. I am sure that anyone who has lived in a residence hall would be glad to pay five to ten dollars a month for a private phone. Most students would save that much on long distance calls during the first two weeks of the month.

At the present time I do not believe that the administration appreciates the conditions of the phones in the residence halls. The fact that most pay phones are out of order at least one night a week and that the campus phones are in use almost constantly does not seem to have reached them. I realize that the expense for such a system is large but a rental fee paid by the students could offset the cost very effectively. The system is desperately needed and would be greatly appreciated.

We would like to apologize for an error that occurred in the November 6 issue of the Thorn. Because of bad communication between our printers and us, the editorial was inadvertently placed where "Page Nine" belonged and vice versa. We would also like to point out that this was not an effort on our part to get more people to read the editorial.

Page 5

## Campus survey yields results

by Lotta Malarkey

Page 5 recently asked various people on campus the question, "How can the rooms in the new academic wing best be used?" Some answers were quite interesting. Others were just plain bizarre.

The chairman of the Sievil Engineering Department hoped that at least one section would be devoted to a new specialized study. Environmental Civil Engineering. Already on the agenda is an intensive study to see if the "skybridges" in Kansas City were carcinogenic when inhaled. The chairman was quite enthusiastic about the study.

The Civil Engineering students themselves suggested that the western end of the wing be made into a dry dock for their concrete canoe. The CE's weren't discouraged to find out that the wing didn't come close to the duck pond. One CE replied, "That's OK, our canoe didn't come close to floating."

One Comp Sci major, "Olaf Half-Orc, the Accursed One," argued quite convincingly in favor of a life-size, three-level dungeon. His most convincing argument was the two-handed sword strapped on his belt next to his calculator case.

Freshmen who were asked invariably replied "What new wing?"

Dr. Samuel Halbert said that the building of a new wing was an excellent opportunity to make co-ed dorms. He called it "Manifest Destiny" and pledged to bring up the notion before the Board of Managers.

Chemical Engineering

students temporarily crawled out of the bowels of Munch Hall to propose another idea. They requested a special room solely for Chem E's, a place where "the sunlight wouldn't come in, to save our eyes," said one.

The Smelta Sigurd File Fraternity, in the spirit of school loyalty, graciously volunteered to lease any, repeat any, unused space in the new wing.

Most Mechanical Engineering students wondered how classes could be held in a bird's limb. The less intelligent ME's made no comment.

No Math or Electrical Engineering majors could be found that could speak coherently or follow simple conversation. Only one EE could and he, upon discovering his unusual intelligence, changed majors.

Lt. Colonel Getsome expects to see at least one section turned into an obstacle course for ROTC students. Col. Getsome graciously granted this reporter an interview after this reporter signed an official-looking paper. "Just my, um, appointment list," assured the colonel.

The Athletic Staff declined to offer any specific ideas. However, it was suggested that the building be made waterproof and be equipped with a diving board and racing lanes "just to be on the safe side."

An anonymous senior whose initials are John McYou suggested a THORN Editorial Staff Suite, complete with separate offices, personal secretaries, and wet bar. Considering the circumstances, this reporter wholeheartedly endorses the last suggestion.

The first coin-operated telephone was installed in the Hartford Bank, Hartford, Connecticut, by the Southern New England Telephone Company in 1889.

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# Thorn Sports

## Engineers Capture Conference Title; Seniors Play Final Game Tomorrow

by Kim Borgman  
Staff Reporter

The Rose-Hulman Engineers will end the 1981 football season Saturday against Washington University at St. Louis. It will be the final contest for an outstanding group of seniors, who have helped to extend Rose-Hulman's streak to eight winning seasons. They have been a strong nucleus and have provided leadership for the team.

The strongest group of seniors is the defensive secondary composed of Bob Stanley, Rex Phillips, Brad Kitchens, Dan Wolodkiewicz, and Gary Quick. They have intercepted 30 passes during their careers, with Quick having 12 and Kitchens and Wolodkiewicz having six each. In 1980 the defensive secondary led all Division III schools with 26 interceptions. The secondary is the last line of defense and was the principal reason the defense gave up only 11 points per game last year.

Also contributing to the strong defense are the linebackers and linemen. Ed Wheeler has started all four years at linebacker, the last three in the center. He has five total interceptions — at least one each year. He has been in the top four on total tackles

every year he has played.

The defensive linemen are Mike Donoghue, Ben Brian, Tom Nash, Dan Swanson, and Doug Plumer. These linemen are all in the top ten for team tackles. All five have lettered all four years and have done a good job shutting down the other teams' running games. Last week Southwestern gained only 41 yards rushing. Defensive end Doug Plumer even has an interception to his credit, something unusual for a lineman.

Overall the defensive unit has been very strong for the Engineers the last three years. They are mainly responsible for Rose's winning record. When they graduate, Coach Touchton will have a tough time replacing them.

On offense, the Engineers will lose only four starters to graduation, including center Pat Freeland and guard Jud Alexander. These two have helped steady an offensive line that did not have much experience at the start of the year.

In the backfield, Rose will lose two outstanding running backs in Jay Cassidy and Randy Hancock. They have gained 1564

and 1471 yards, respectively, over their four-year careers. They have scored 11 and 15 touchdowns respectively, and have provided us with plenty of excitement.

Jay Cassidy holds the record for the longest run from scrimmage (81 yards). Earlier this year, he scored on a 78-yard run. Randy Hancock scored twice last Saturday to lead Rose over Southwestern. He is a good complement to Cassidy and either one could score from anywhere on the field. If either one of them was hurt, Troy Matz was a capable replacement. He has pushed for 480 yards and six touchdowns in a reserve role.

Tomorrow these seniors play their last game in a Rose uniform. None will end up playing pro football, but each will be successful, just as they have made the football program here successful and without a losing season.



The College careers of these Rose-Hulman football players will end tomorrow at Washington University at St. Louis. Front row, from left: Dan Wolodkiewicz, Gary Quick, Greg Rousch, Tom Nash, Mike Donoghue, Brad Kitchens, Pat Freeland, and Ed Wheeler. Back row, from left: Rex Phillips, Ben Brian, Randy Hancock, Curt Bilby, Dan Swanson, Jud Alexander, Troy Matz, Doug Plumer, Jay Cassidy, and Bob Stanley.

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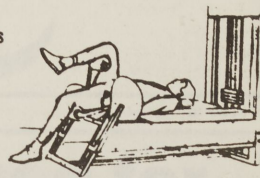
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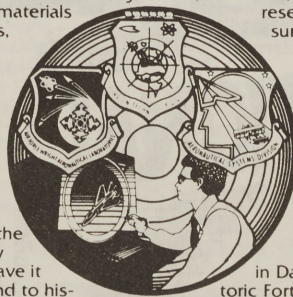
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## Harriers Second in CAC

by Dave Elmer  
Thorn Correspondent

The Engineer runners finished a strong second to Principia in the College Athletic Conference championship meet held in Danville, Ky., last Saturday.

Principia's Mark Wally, a third place finisher in last year's NCAA Division III National Meet, was the individual winner with a time of 24:08.

Mike O'Brien ran superbly to lead the Engineers with a third place finish in a great time of 25:03 over the 5-mile course. Other Rose placers were John Smith (5th), Dave Womble (7th), Greg Gibson (9th), John Whitaker (14th), Scott Fennell (17th), and Kyle Hayes (20th).

Principia totaled 27 team points, followed by Rose with 38. Other team scores were Sewanee (65), Centre (130), Southwestern at Memphis (133), and Illinois College (168).

**Freshman Barry Wallen** captured first in the reserve race with a time of 27:03. No team scores were tallied for the reserve race.

The Engineers run again tomorrow at Tri-State University in the NCAA Division III regional meet. The top three teams and the top three individuals qualify for the national meet to be held in Rochester, New York, on the 21st of November. Last year, O'Brien qualified for the Nationals as an individual.

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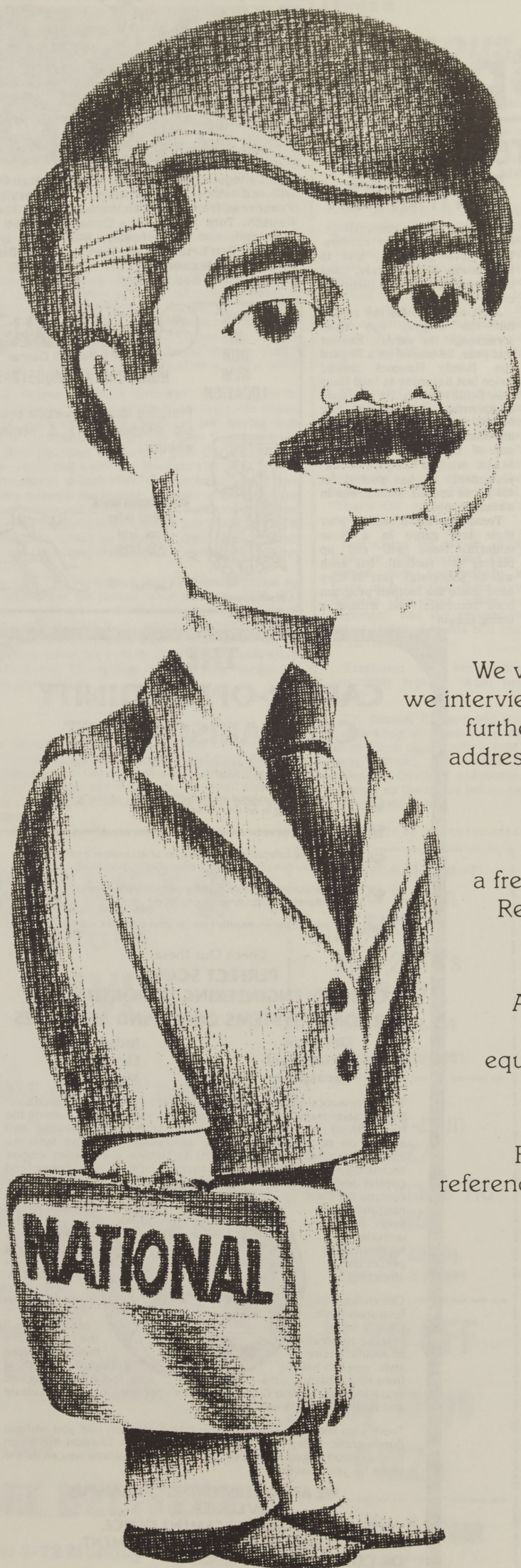
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