

Rose-Hulman Institute of Technology

Rose-Hulman Scholar

The Rose Thorn Archive

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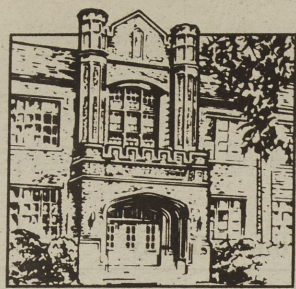
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THE ROSE THORN

Vol. 33, No. 6

Rose-Hulman Institute of Technology

Friday, October 17, 1997

New lots being constructed to help with parking problem

Speed parking lot expansion should be finished this weekend; two more lots under construction



Moench parking lot is filled to capacity on a typical class day. The new parking lots, scheduled to all be completed by Thanksgiving, should help alleviate the parking problem. Photo by Bob Voros

by Beth Bateman
Thorn News Editor

Recent construction on campus has left many members of the Rose-Hulman community with a serious dilemma: where do they park? Wayne Spary, vice president of facilities and operations, agrees that there is a problem but notes that more parking spaces should be available soon.

Parking difficulties for students and faculty will continue to grow with the start of construction on the Center for Technological Research with Industry (CTRI). As a result of the CTRI and new maintenance building construction, approximately 260 of the existing parking spaces will be lost, according to Spary.

Fortunately, the facilities department is taking action to combat this problem. According to Spary, three new parking areas are currently in the process of being built: an addition to the Speed Hall parking lot, a new lot north of Moench Hall, and an area near the grandstand.

The parking spaces being added will not only make up for those lost, they will also increase the total amount of parking on campus. The addition to the Speed Hall lot will create around 116 spaces, and the parking lot north of Moench Hall will create 120 spaces. The parking lot near the grandstand will add the largest amount of parking with 168 spaces.

Spary commented that although all three of the parking lots are in progress, they are currently in various stages of completion. The one element of the progress that all three have in common is "the designs are complete." The Speed Hall parking lot has the lighting completed, and the asphalt was scheduled to be done this Thursday. The parking lot is expected to be done this weekend.

The parking lot near the grandstand is the next closest to completion. Spary mentioned that the bids are done and the construction is in progress. Storm sewers will be added to the area next week, and concrete portions of the lot will be

done in three weeks. The site must also be raised slightly and lighting is yet to be installed. Spary estimated that this work would be done in about four weeks.

The construction of the new lot near Moench Hall has not yet begun. Bids are still being taken, but Spary hopes that construction will start by next week. Spary also said that construction of this parking lot "should be faster [than the other two because] there are fewer conflicts."

Since the CTRI construction begins next week, numerous parking spaces will be lost, and there will be a period of time when the CTRI is under construction and the parking lots are not completed. Spary commented, "We will have some difficult times [with parking]."

However, as the CTRI construction progresses, the parking lots will be completed and hopefully will alleviate the parking problem. Spary believes that all three of the parking lots will be finished by Thanksgiving.

CTRI project set to start construction on Monday

Department of Energy funding the \$6.7 million lab building

by Beth Bateman
Thorn News Editor

After having recently seen the opening of the Olin Hall expansion and the new Student Recreation Center, the Rose-Hulman campus will see yet another addition to its facilities during the coming year as the Center for Technological Research with Industry (CTRI) is constructed.

According to Wayne Spary, vice president of facilities and operations, the CTRI will be used mainly for "a projects building, so that each of our students, prior to graduation, will do a project...with industry, if possible....It will be not just a senior project developed by a professor but a project with a company."

The construction of the CTRI is funded by the U.S. Department of Energy, which contributed \$6,709,000 toward the building. Currently, the building has been designed and bids have been submitted by contractors.

Spary stated that construction of the CTRI will begin next week with the demolition of the existing maintenance building. Construction on the CTRI will begin on Monday, October 20, with the demolition of the maintenance building. The CTRI will then be built in the area that the maintenance building is in now. A new maintenance building will be built in the northeast corner of the Moench Hall parking lot during this time.

The CTRI will be constructed of brick with 40,000 square feet of space and look very much like other buildings on campus from the outside. However, the inside of the CTRI will look very different from other buildings on campus.

The most notable feature in the design of the CTRI is its flexibility. Spary said that the building is "basically an open lab type area so that the building has been designed to be as flexible as possible."

Spary said that the building was designed in this manner because of the wide variety of student projects that are exacted. To facilitate the building in its flexibility, it has been

designed on a modular basis. This will allow for dividing the space in the building into smaller segments, depending on the projects that are being done.

The CTRI will be usable for all stages in the design of a project. "There are areas of the building that will be able to take a project from brainstorming [all the way] through fabrication," explained Spary.

Spary also mentioned that a very important structure in the CTRI will be the main corridor. This part of the building will have no ceiling, and all of the electrical and duct work will run from this area to the other rooms of the building. This is what allows for the modular qualities of the CTRI: dividing areas into rooms will involve few major adjustments.

The electrical supply for the CTRI will have a device called a "bus duct" running through it. This device is an improvement over the traditional electrical cables because it will allow for supplying whatever voltage is desired for a project. It will also be possible to tap electricity from this device at any location, something that could not be done with traditional wiring. Lighting and switching will be designed so that it can be divided into smaller rooms, as well.

There will also be separate ventilation setups every 12.5 feet in the building, which also allows for easier division of the space. "If we throw the wall up, we don't have to do anything with the ventilation," commented Spary.

Another feature to the building will be areas on the lower level that are isolated from vibrations which can be used for experiments in controlling vibrations or optics projects.

Some problems expected during the construction will include a loss of parking spaces. The construction area will also be built over part of the existing roadway, so the road will have to be moved.

Spary expects construction on the CTRI to be finished by September 1998, and the completion of the maintenance building should be finished by March 1998.

Telescope dedication tonight

Rose-Hulman will add a unique piece of astronomical history to campus Friday when a 111-year old Clark telescope is added to the Lynn Reeder Observatory.

Telescopes produced by Clark & Sons of Cambridge, Massachusetts, are recognized for their optical quality, with each being individually handcrafted. The company produced the three largest telescopes in America, one of which is the 40-inch aperture telescope at the Yerkes Observatory in Willows Bay, Wisconsin.

Rose-Hulman's Clark telescope is believed to be one of less than 100 Clark models of its size ever produced. It is eight feet long, has a six-inch aperture, and was constructed in

1886. It was donated to Rose-Hulman by Hans Eppinger of Hughes Optical Products, Inc., and has been placed on a modern, computerized mount, specially designed by technicians Gary Burgess and Mike Fulk.

"Having a Clark telescope is certainly a feather in the cap for any observatory," said Richard Diteon, professor of physics and applied optics at Rose-Hulman. "It's a priceless piece of history and will open our students' eyes to new astronomical objects."

The addition of the Clark telescope provides Rose-Hulman with one of Indiana's top observatories. The college also has two 12-inch aperture and two 11-inch aperture reflecting tele-

scopes on computer-controlled mounts.

"The telescope serves as an analogy for Rose-Hulman itself," says Diteon, a 1975 Rose-Hulman physics graduate. "It combines the best of modern equipment with the best of tradition."

Dedication ceremonies are scheduled for 7 p.m. Friday at the observatory, located on the west side of campus. The public is invited to use the telescope to view planetary objects from 7-10 p.m. on Friday and Sunday, Oct. 17 and 19. For more information, persons can call Diteon at 877-8247 or the Physics and Applied Optics Office at 877-8309.

Oct. 18

Fine Arts Series, "The Barber Of Seville" (National Opera Company), Moench Hall Auditorium, 7:30 p.m.

Oct. 22-23

Fall Quarter Blood Drive, Kahn Room, All Day

Oct. 27

College Fair '97 (For Prospective Students & Families), Hulman Center, Indiana State Univ., 7-8:30 p.m.

Today and Tomorrow

- Fri., Oct. 17—Men's & Women's Cross Country, Indiana Intercollegiate, Bird-Gibson Recreation Area, 3:30 p.m.
- Fri., Oct. 17—Dedication Of 111-Year-Old Clark Telescope, Lynn Reeder Observatory, 7-10 p.m.
- Fri., Oct. 17—Career Services Interviews: Motorola Land Mobile Products, Motorola Semiconductor, Motorola Semiconductor Products Sector, Texas Instruments, Ritchie Engineering, Texas Instruments
- Sat., Oct. 18—Fine Arts Series, "The Barber Of Seville" (National Opera Company), Moench Hall Auditorium, 7:30 p.m.
- Sat., Oct. 18—Football, Manchester College, Phil Brown Field, 1:30 p.m. (Broadcast On WJSH-AM, 1300, at 1:15 p.m.)
- Sat., Oct. 18—Volleyball, Triangular Match, Hulbert Arena, Noon and 4 p.m.
- Sat., Oct. 18—Soccer, at Hanover College, Hanover, 11:30 a.m. (ICAC)
- Sat., Oct. 18—Men's & Women's Swimming, Rose-Hulman Relays, Sports & Recreation Center, 6 p.m.
- Sat., Oct. 18—Gun Club, Firearm Safety & Training Range Day

October 19-25

- Sun., Oct. 19—Learning Center Supplemental Instruction Program, Chemistry I (Lewis), O-259, 7:30-9 p.m.
- Sun., Oct. 19—Public Display Of 111-Year-Old Clark Telescope, Lynn Reeder Observatory, 7-10 p.m.
- Mon., Oct. 20—Final Date To Drop Course Without Penalty
- Mon., Oct. 20—Sorority Open House, TBA
- Mon., Oct. 20—Volleyball, St. Mary's College, Hulbert Arena, 6 p.m.
- Mon., Oct. 20—Learning Center Supplemental Instruction Program, Physics I (Sungar), O-159, 7:30-9 p.m.
- Mon., Oct. 20—Career Services Interviews: Andersen Consulting
- Mon., Oct. 20—Career Services Information Session: Siemens Energy & Automation, Performing Arts Room, Hulman Union, 6-8 p.m.
- Tues., Oct. 21—Biomedical Engineering Seminar, William Cook of Cook Group, Inc., O-201, 10:50 a.m.
- Tues., Oct. 21—Learning Center Supplemental Instruction Program, Calculus I (Abrouk), G-308, 7:30-9 p.m.
- Tues., Oct. 21—Career Services Interviews: Andersen Consulting, Siemens Energy & Automation, Illinois Department of Transportation, Bethlehem Steel Corp./Burns Harbor Division

October 19-25(continued)

- Tues., Oct. 21—Career Services Information Session: Tellabs, Performing Arts Room, Hulman Union, 6-8 p.m.
- Wed., Oct. 22—President's Administrative Council, Kahn Banquet Room, 8 a.m.
- Wed., Oct. 22—Fall Quarter Blood Drive, Kahn Rooms, All Day
- Wed., Oct. 22—Graduate Seminar, "Effective Ways To Utilize Library Resources For Research," John Robson, Rose-Hulman Librarian, GM Room, 10:50 a.m.
- Wed., Oct. 22—Soccer, at Wabash College, Crawfordsville, 3 p.m. (ICAC)
- Wed., Oct. 22—Learning Center Supplemental Instruction Programs: Chemistry I (Lewis), O-259, 7:30-9 p.m.; Physics I (Sungar), O-159, 7:30-9 p.m.
- Wed., Oct. 22—Career Services Interviews: Tellabs, Bethlehem Steel, Crowe/Chizek & Co.
- Wed., Oct. 22—Career Services Information Session: Summit Group, Performing Arts Room, Hulman Union, 6-8 p.m.
- Thurs., Oct. 23—Fall Quarter Blood Drive, Kahn Rooms, All Day
- Thurs., Oct. 23—Learning Center Supplemental Instruction Program, Calculus I (Abrouk), G-308, 7:30-9 p.m.
- Thurs., Oct. 23—Career Services Interviews: Microsoft, Bethlehem Steel, The Summit Group
- Thurs., Oct. 23—Career Services Information Session: Logikos, Performing Arts Room, Hulman Union, 7-9 p.m.
- Fri., Oct. 24—Army ROTC Fall Field Training Exercise, On Campus, Begins At 4 p.m.
- Fri., Oct. 24—Volleyball, at Elmhurst College, Elmhurst, Ill., 7:30 p.m.
- Fri., Oct. 24—Career Services Interviews: Microsoft, ITT Aerospace/Communications, Logikos
- Sat., Oct. 25—Army ROTC Fall Field Training Exercise, On Campus
- Sat., Oct. 25—Football, at DePauw University, Greencastle, 2 p.m. (Game Broadcast On WJSH-AM, 1300, at 1:50 p.m.)
- Sat., Oct. 25—Soccer, Grace College, Jim Rendel Field, 2 p.m.
- Sat., Oct. 25—Volleyball, at North Park College Tri-Match, North Park, Ill., All Day
- Sat., Oct. 25—Rifle, at Murray State University, Murray, Ky., Noon

October 26-28

- Sun., Oct. 26—Soccer, Blackburn College, Jim Rendel Field, 1 p.m.
- Sun., Oct. 26—Rifle, at Univ. of Tennessee-Martin, 8 a.m.
- Sun., Oct. 26—Learning Center Supplemental Instruction Program, Chemistry I (Lewis), O-259, 7:30-9 p.m.
- Sun., Oct. 26—Astronomy Club Observing Session For Students, Faculty, Staff & Guests, Lynn Reeder Observatory, 8:30 p.m. (If Skies Are Clear)
- Sun., Oct. 26—Career Services Information Session: Amidocs, Inc., Heritage Room, Hulman Union, 7-8:30 p.m.
- Mon., Oct. 27—Deadline For Registering For Faculty/Staff Flu Shop Clinic, Human Resources Office, Hadley Hall, Room 209
- Mon., Oct. 27—Learning Center Supplemental Instruction Program, Physics I (Sungar), O-159, 7:30-9 p.m.
- Mon., Oct. 27—College Fair '97 (For Prospective Students & Families), Hulman Center, Indiana State Univ., 7-8:30 p.m.
- Mon., Oct. 27—Career Services Interviews: Software Artistry, Wavetek CATV/Communications Division, Amidocs, Inc.
- Mon., Oct. 27—Career Services Information Sessions: Navistar International Corp., Performing Arts/Reading/Music Rooms, Hulman Union, 6-8 p.m.; Milliken, Heritage Room, Hulman Union, 6-7:30 p.m.
- Tues., Oct. 28—Registration For Winter Quarter Freshman Dessert Open House, Hulman Union
- Tues., Oct. 28—Fraternity Bid Tuesday
- Tues., Oct. 28—Biomedical Engineering Seminar, Surgeon Rob Taube, O-201, 10:50 a.m.
- Tues., Oct. 28—SGA Meeting, GM Room, 5:30 p.m.
- Tues., Oct. 28—Learning Center Supplemental Instruction Program, Calculus I (Abrouk), G-308, 7:30-9 p.m.

Submissions To Campus Events

Events may be published in *Campus Events* by any organization or individual. Information on club meetings, lectures/speeches, and athletic events, including announcements of times and locations may be submitted to *Campus Calendar*, in care of Dale Long, associate director of communications, at Box 14 or extension 8418. More detailed articles containing plans, agendas, and specific information should be submitted to the *Rose Thorn*.

All submissions must be made by Wednesday, at noon, in order to be published in *Campus Events* in the *Rose Thorn* on Friday.

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Residence Hall Association out for blood next week

Lake Tom Miller with 250 pints; lake Donna Gustafson with 350 pints

by Thu Vu Pham
Thorn News Reporter

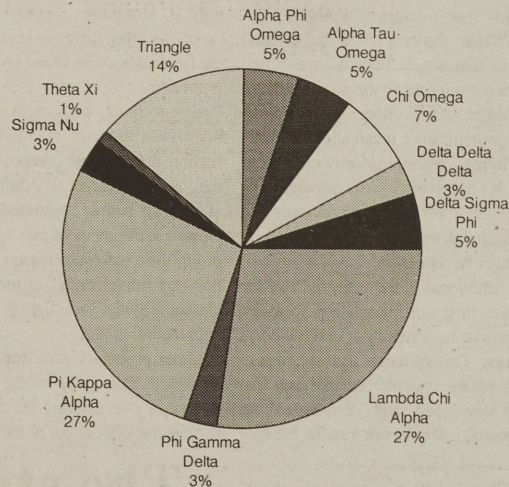
On October 22 and 23, RHA will once again host their perennial quarter blood drive. Working in conjunction with the Central Indiana Regional Blood Center, RHA is asking the Rose-Hulman student body, faculty, and staff to help save lives by donating their blood. The drive will be held in the Kahn Room from 11:00 a.m. to 5:00 p.m. for both Wednesday and Thursday. In appreciation, each donor will receive a free T-shirt.

There is a continuous blood shortage in the community. Your blood can truly help to save someone's life. Last year the Rose community contributed over 740 pints of blood. Our caring effort brought our annual average to over 600 pints per year for the decade and also gave the largest amount of blood in the school's history.

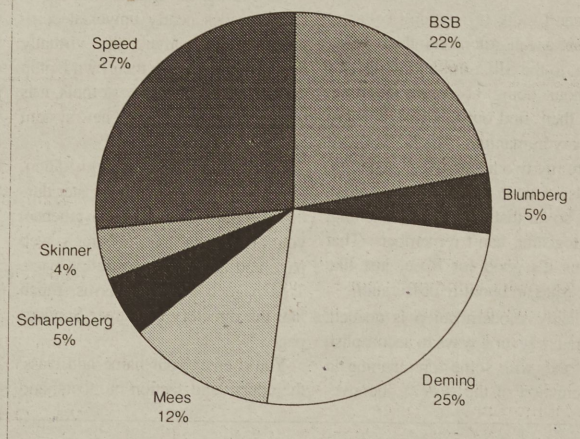
To help kick off another successful blood drive, Tom Miller has volunteered to help with RHA's saving mission by agreeing to be laked if the school gives over 250 pints of blood. Not only that, Donna Gustafson had also agreed to be laked if the school donates more than 350 pints of blood.

Please come out and donate blood. Giving blood saves lives!

Breakdown of 1996-97 Fraternity and Sorority Blood Donation



Breakdown of 1996-97 Residence Hall Blood Donation



Audio web broadcasts let fans listen in on games

by Thu Vu Pham
Thorn News Reporter

It is now easier for friends and family out of radio range to listen to Rose-Hulman football and basketball games. This fall, Rose installed an audio broadcast server. Now if anyone wants to listen to a game, they can do so via the Internet.

The idea for Internet broadcasting of the games came from the problems that alumni and parents encountered in receiving the games. "The parents would call the room up, and have the roommate put the telephone next to the radio," said Darin Bryan, Sports Information Director.

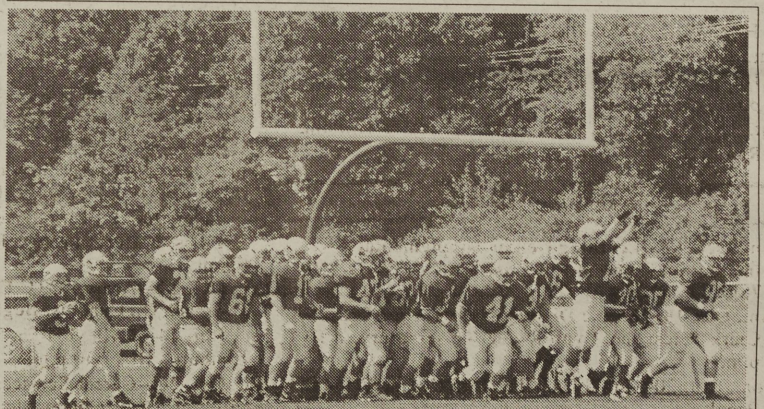
Over the summer, Bryan and Lans Carstensen, the Systems Integrator at Waters Computing Center, looked into the possibilities of airing the games. "We looked at several products and selected the Netscape Media Server; it was free for noncommercial use and used standard compression and decompression techniques," explained Carstensen.

In the setup, several problems were encountered, such as determining how to

receive the audio and locating a computer fast enough to handle the data. Eventually, the server was set up on a computer in the Theorodrome, and an AM radio receiver was attached for input.

Currently, the games planned for broadcast include all of the remaining football games and 25 of the men's and women's basketball games. Bryan is looking for a way to broadcast the baseball games, but that does not appear likely. "We're glad that we can provide this service to the parents, alumni, and friends who don't have another way to receive the games. Currently, we broadcast all the games received by radio, so everyone gets the same coverage," noted Bryan.

A few difficulties still remain. The computer used as the server is a public machine, and some care must be taken to ensure that it is ready for broadcast. In addition, several parents have complained that they cannot access the audio when using America Online's browser. Waters is looking into the browser problem but is having difficulty resolving it. "Just so long as one mother can receive it, it's worth the time to do it," stated Bryan.



The Rose-Hulman football team, as well as the men's and women's basketball teams, are planning to have their games broadcast over the Internet.

Photo by John Straigis

Corporate recruiting on campus hits all-time high

by Thu Vu Pham
Thorn News Reporter

Career Services' list of clientele available to the student body is definitely growing. The number of companies visiting Rose-Hulman is higher than ever.

"It is probably growing exponentially," claimed Arleen Anderson, the assistant director for the Career Services.

For this month, over twenty companies have already scheduled students for job interviews. Many of the companies are well known to Rose, such as Andersen Consulting, Hughes, Boeing, Caterpillar, Procter & Gamble, and Marathon Oil.

Along with the list of well established clients, the career services staff is also attracting some new companies to Rose. Among the new clients included Central Soya Corporation, Destek, Dana Corporation, Boston Scientific, Arvin Automotive, and many more.

November is also completely filled with companies seeking for employees. The company list for November will be posted as soon as interview times are set.

According to Anderson, career services is trying very hard to get information about companies coming to campus out to the students as quickly as possible. Therefore, all students should continue to check out the bulletin board in Moench as well as stopping by the career services office

to sign up for interview spaces.

While most companies are looking for graduating seniors to enter their workforces, the bulk of the companies also seek potential summer interns and co-ops. Therefore, undergrads should take this as an opportunity to gain those summer job experiences and honing their interview skills.

"We are really growing in the co-op intern program," said Anderson.

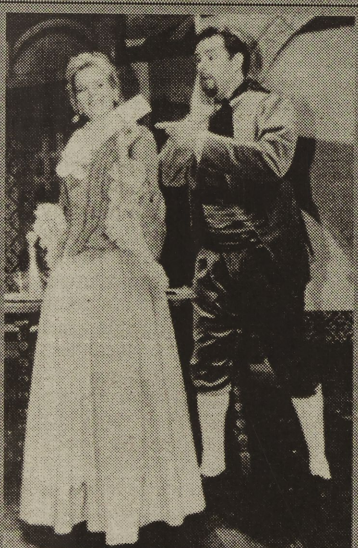
There is an increasing trend in companies wanting students to go on co-op. Therefore, the career services staff has been active in getting students to become more interested in co-oping. In practice, co-op is a way for the company to extend their interview with the prospective students.

The co-op program requires members to attend three co-op meetings and complete a mock interview.

Interviewees should also be aware of the career services growing collection of companies' brochures. A quick stop at the office to scan the library collection can increase your knowledge of the interviewing company and give you better preparation for the interview.

Last year, career services could not get enough students to come to interview with companies. This year seems there is not enough space to accommodate the number of companies visiting Rose and the number of students seeking interviews.

Fine arts series begins this weekend with opera



Members of the National Opera Company at a performance.

Photo courtesy of Dale Long

Hoping to bring new audiences to enjoy an old art form, the National Opera Company will perform the comedy "The Barber of Seville" in an unusual fashion at 7:30 p.m. on Saturday, October 18, in Rose-Hulman Institute of Technology's Moench Hall Auditorium.

The opera will be performed entirely in English. "Performing in English is essential to build an audience's appreciation and understanding of opera," says Will Graham, artistic director for the Raleigh, North Carolina based group. "Opera has a reputation for taking itself too seriously. We want to show that opera is fun, lighthearted, and interesting."

The 10-member National Opera Company also strives to bring opera into communities, much like Terre Haute, that don't have a regular opera troupe, while also providing an excellent stage for young opera singers in a national touring repertoire theater.

The show kicks off Rose-Hulman's 21st Fine Arts Series season. Tickets will be available at the door prior to the show. Prices are \$4 for adults and \$2 for senior citizens and non-Rose-Hulman students. For more information, persons can call 877-8418.

Registration woes can be fixed with computerized system

James Tedrick
Thorn Columnist

This past Tuesday, I was supposed to have registered for winter quarter. While I haven't experienced this process yet, I assure you I was looking forward to it.

I can't think of anything better to do on a fall afternoon than going down to the SRC, milling around for an hour doing absolutely nothing, and, then, find out that not only my primary humanities class is filled, but so are my two alternatives. After all, this is a time-honored tradition, going back so far that the Prof. Harmening, our registrar, can't remember. That means it's good for Rose, just like slide rules and bonfire desecration.

Clearly, modernization is needed. There are several ways to accomplish this, and, with some foreplanning in the creation of the system, inconvenience

to the student can be held at a minimum.

What we currently have today that we didn't four years ago is the explosive growth of the Internet and its resulting technologies. We now have database access, web forms, and, most importantly, secure servers.

Also to our advantage, such a system provides nearly universal computer access; after all, virtually everybody will have their own laptop by next year. Using these tools, it is an easy to imagine how a new system can be implemented.

On the morning of registration, you will be reminded to register during the day. At your convenience, you browse to the registrar's web page and then to a registration page. This page consists of forms, much like the directory or Career Services page.

You'd enter your name and class, the course and section numbers, and

then submit it to the database. Some delay may be necessary in order to check the current numbers in your chosen courses, or to find another humanities class. But the system should work well for the students, because it replaces the long wait with a few short minutes of typing.

While students may be pleased with that single benefit, it is small when compared to the administrative savings. It can further define a priority system, since it can allow students who register early priority over those in his class who procrastinate. For the environmentally conscious, the traditional registration sheets will no longer be necessary.

Additionally, the registrar's office saves time not interpreting what we consider handwriting it into the computer. This system is also superior to the phone systems because they can be developed and maintained "in house;" it would not require the spe-

cialized knowledge needed for the phone systems.

In order to fully realize the benefits from this system, careful planning must be involved. The first important problem is determining in what manner to shuffle a student's course selection, if necessary. In some of the "core" courses, there are sections that are favored because of the professor's reputation.

For technical courses, it is probably wisest to move the student to a section that is most compatible with the student's current schedule and the amount of people registered in each class. Occurrences of this will dwindle if the First Year Team's suggestions are implemented, as most of the classes with multiple sections become integrated.

Other problems with implementation include security of the submissions and with insuring the advisor is not completely cut out of the process.

Security of the data transmission can be solved by using a secure server or by ignoring the threat of message interception.

The prevention of fraud on the system is a more difficult one to handle, though. The simplest way would be to ask for a code when submitting, perhaps part of your social security number, student ID number, or network password. This can be combined with a second password from the advisor, who can either give it out individually or post it for all to see.

This system will simplify the registration process for everyone, students and administration alike. It can be implemented easily over the summer, by using an already existing computer and have the program developed over the summer. The only drawback would be the removal of the hour-long wait in the gym, which I will sadly miss, not having anything better to do with the time.

Rose-Hulman Horoscopes



Libra (Sept. 23 - Oct. 23)

Well, well, well...think we have it easy this week? The stars don't seem to think so. With Jupiter pointing north from the eastern sky, things aren't looking all that peachy, if you know what I mean.



Scorpio (Oct. 24 - Nov. 21)

Whoa, better try not to catch any social diseases this week. That big interview with your future employer is coming up soon; better shave your head now because they only hire skinheads.



Sagittarius (Nov. 22 - Dec. 21)

You might ask why it hurts when you visit the water closet, but don't get close to any Scorpio's. That fine-looking man or woman you've had your eye on probably doesn't like you.



Capricorn (Dec. 22 - Jan. 19)

Holy cow, do you have a run of luck lately! Churchill Downs opens their fall meet in two weeks, so you should go down there and blow *all* of your money on the races. Poor people do it.



Aquarius (Jan. 20 - Feb. 18)

How do you manage to be so cool? If they could put a patent on a person, you would be one fine specimen. Don't let this get to you, though, or else you might be killed by some psycho.



Pisces (Feb. 19 - Mar. 20)

Drink lots and lots of fluids. That fishing trip you've been planning will be a dream come true soon enough. That's not all, though, as you'll find yourself using those valuable first aid techniques, too.



Aries (Mar. 21 - Apr. 19)

What a happy week you have waiting for you and the kiddies. It's hard to realize that today you're wearing that shirt you wore the day after yesterday, but it's true. Key phrase: goblin grenade.



Taurus (Apr. 20 - May 20)

That chicken you've been chasing just isn't getting any nearer. Try to solve international problems by mass devastation—they've been doing it in the Middle East for years and it's catching on.



Gemini (May 21 - June 21)

Inactivity leads to bed sores, that's not the way to live. In fact, you should go bungee jumping this weekend, but try using 3/8" cable instead of bungee cords. Call your loved ones beforehand.



Cancer (June 22 - July 22)

You'll find yourself singing old Poison and Warrant tunes from the '80s this next week. Sing them with pride, as all of your friends will be envious and chicks really dig '80s glam rockers.



Leo (July 23 - Aug. 22)

Do you say funny things like: "punkin" or "mmmdeed". If so, you need to get some speech therapy. Also, this weekend holds endless opportunities for you to talk to trees and assorted flowers.



Virgo (Aug. 23 - Sept. 22)

That big test might call for a little help from some friends. Don't cheat, just talk to those "voices" you seem to enjoy chatting with so much. Maybe they'll give you some good pointers. Good luck!

The strange things girls do, part I



Brad Swearingen

Thorn Columnist

WARNING: this article contains sentences that could be taken the wrong way. Should you read a sentence and be offended, please read the sentence again, and look for another interpretation. If still offended, tough luck.

This article is by no means intended to offend anyone, especially the femi-nazi's who patrol the papers searching for the slightest sign of chauvinism, so they can crush the columnist and the paper.

Most of the guys will probably immediately know what I'm talking about. Why in the world do girls have to migrate to the bathroom in groups? A sample conversation follows:

Mary: I need to go to the restroom.

Katie: Oh, I don't really need to go, but would you like me to go with you?

—stop—

(This is a definite difference between guys and girls. If you were a guy and offered to follow another guy into the restroom, you'd get your ass beat right on the spot.)

—Back to the conversation—

Mary: Oh thanks, I didn't think I could go by myself.

Katie: Anything I could do to help you, Mary. Anyone else need to go?

Sarah: Sure

Amy: I guess I could go.

Michelle: I don't really need to go, but I don't want to feel left out.

Claire: Yeah, I just went not too long ago, but I feel an overwhelming urge to follow all of you.

Kate: Okay, let's go.

Mary: How many of us are here?

Claire: Six

Katie: Do we have enough to go to the bathroom yet?

Claire: Let's wait for one more.

(Leslie enters).

Leslie: Hi girls what's going on?

Mary: We're getting ready to go to the bathroom, want to come?

Leslie: Sure.

Claire: OK, now we can go.

Now this brings us to something that girls are always complaining about. What guy hasn't heard a girl whine and complain about how long the wait there is in the girls bathroom. Well, there is probably a reason for this...let's see what in the world could it be? Ummm, could it be that girls take ten people with them every time they go to the bathroom? Probably not, that seems too simple of a solution.

Not to change the subject, but there's only so far you can go on girls' bathroom habits without getting into the unprintable zone. Have you ever noticed how long it takes women to pick out clothes? I mean, honestly, if they are picking out a pair of shoes, it may take them days to find the pair they are looking for. I have come to the realization that it's not the problem of finding a pair of shoes that they like but, more or less, finding a pair of shoes they don't already have.

Well, I'm not going to venture too far into the strange habits of girls, for two reasons. First, I don't currently have a girlfriend. Secondly, girls can be extremely dangerous when they're mad. Anyway, if you did or didn't like this week's article I'd like to hear from you. So you can e-mail me with your name, room number, extension number, and if you really think you need to, the reason you did or didn't like the article. Oh yeah, girls only please.

The Admissions Office is looking for students to serve as overnight hosts for prospective students. If interested, please stop by the Admissions Office in the front of Moench Hall or call x8213.

E-mail: what you don't know will hurt you



**Caleb
Coburn**

Features
Editor

Over the summer, I was channel surfing after work in San Diego and came across a show on MSNBC. It was some computer show, but the subject of that particular show caught my attention, preventing my finger from finding the channel-up button.

The hostess was talking to some guy, who was talking about e-mail. In particular, he was discussing how insecure e-mail is.

Then, about two weeks ago, I thought: "Hmmm, maybe I should try to see if what that man was talking about was true." So, I sat in the *Thorn* office and preceded to change a couple of settings in Netscape Mail, then sent off a message to a high school friend of mine at IU.

The message, sent to her under her own name and through IU's mail server, didn't get the response I thought it would.

What was intended as a joke was taken as a violation of privacy. What was intended to be fun turned into a threat from UCS (Indiana's equivalent of Water's Computing Center) to press charges for "faking" someone's identity. My worry was that I had hurt one of my friends unintentionally; nothing UCS said could hold up in any court, as I made sure that my friend could figure out who I was.

I learned two things from this mess I had created. First, e-mail is a very insecure means of communication. Secondly, if you're not careful, you can really get yourself in trouble playing around with this stuff, legally and otherwise.

Out of courtesy of Water's and Rose-Hulman in general, I am not going to go into detail on what I did to send the aforementioned message. However, anyone with minimal computer skills can figure it out.

What I will say is that tomorrow, when you get a message from one of your friends, don't necessarily believe it's from them. It may very well have been sent from southern Italy by some 13-year old girl. At first glance, though, you might not be able to tell.

I think most of us here at Rose, and throughout the rest of the world, have taken e-mail for granted. I know I have myself. I've discussed very personal matters with friends, as well as sent files over the Internet to people.

The thing is, I can jump on a computer and send e-mail to any of you

reading this as President Clinton, and you wouldn't be able to tell. It would say it was sent from the White House with Bill's return address sitting at the top of the message. In the same way, I could get on anyone's computer and send my Technical Communications class a message from our prof. With a little imagination, a lot of worse things can happen.

Anyone in the world has access to Rose-Hulman's mail server. Therefore, anybody can send an e-mail message through it. They don't need an account here at Rose to do this, just Internet access. Also, walking through the residence halls, one can easily see how many computers are left out in the open, just waiting to be used by strangers. You don't need

someone's password to send e-mail, and I don't think many students here realize that.

Really, the only thing keeping your e-mail secure is honesty. The only way we know that a message sent to the student body (at

all students) is through trust and honesty. However, we must all be aware that, at one point or another, someone will violate those two things. It is sitting around waiting for a time and a place to happen.

However, there has been a system in development that will provide a means of secure electronic communication. This technique, called PGP for Pretty Good Privacy, has been developed by the computer gurus at MIT.

The basics about PGP is that it encrypts your message before you send

it to someone with an encryption code called the secure key. This secure key belongs only to you, and only you know the password for it. After you send it to someone, they must decipher the message with a code called the public key. Everyone who wants this key can get it from the recipient or from a "keyserver."

That's about all I know about PGP for now. If you want to find out more, go to Yahoo! or some other search engine, type in "PGP," and search. You'll find 100 topics easily, which will give you more information than I ever could. You can even download the software from MIT's site.

The point is this: question your e-mail. If it's serious, don't believe it at first. Make sure that it's actually from the person whose name appears as the sender. You can also check into PGP like I just mentioned.

The auxiliary point here is this: be honest, respectful, and careful. Learn from my mistake, and don't play around with e-mail. The potential to hurt feelings or to have federal charges of computer fraud be filed against you is there.

If our world were perfect, we wouldn't have to worry about any of this. Reality dictates that it isn't perfect, though, and we must all be careful not to get hurt or hurt someone else.

You don't need someone's password to send e-mail, and I don't think many students here realize that

Discussing this matter with a couple of fellow students, who happen to spend a lot of time in the basement of Crapo Hall, there are a lot of things that one could do (if dishonest enough) without being traced.

However, Rose-Hulman has a nice habit of assigning each and every computer connected to its network an IP address and a computer name. So, if something was sent from a computer here at Rose, it can be traced directly to that computer. However, according to these fellows I talked to, there are ways around that as well.

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Engineers still seeking first conference win

by Joel Gillespie
Thorn Sports Reporter

Turnovers have plagued Rose-Hulman's football team during its current three-game skid, and the Engineers need to hang onto the ball if they hope to handle Manchester College this weekend.

The Spartans (3-2 overall, 0-2 ICAC) come to town Saturday for a 1:30 p.m. game at Phil Brown Field.

Rose (1-4 overall, 0-2 ICAC) took a 10-0 lead at Anderson last weekend, but faltered as the Ravens flew back for a 24-10 victory. Two weeks ago, the Engineers committed five turnovers at Wabash and dropped a 35-14 decision.

Manchester at Rose-Hulman

In the past few years, games between Manchester and Rose-Hulman have been tightly-contested offensive shootouts, all won by the Engineers. In 1994, the Engineers survived a 36-35 battle when the Spartans missed a short field goal in the waning moments.

The two teams set a Phil Brown Field combined-scoring record in 1995 when Rose exploded to a 61-44 victory. Last year, Rose held on for a 29-28 win at Manchester.

This season, both teams are winless in the ICAC and looking for an opportunity to get their sputtering offenses on track. Manchester has scored a total of 14 points while losing lopsided

This Week's Matchup

Manchester
(3-2, 0-2 ICAC)

at

Rose-Hulman
(1-4, 0-2 ICAC)

When: Saturday, October 18, 1997 1:30 p.m.

Where: Phil Brown Field, Terre Haute, Ind.

Coaches: Rose: Scott Duncan (12th season, 64-48-1)

Manchester: David Harms (3rd season, 11-14-0)

Series: Rose-Hulman leads, 8-7

Last Season: Rose 29, Manchester 28 at North Manchester

Last Week: Anderson 24, Rose 10; Wabash 24, Manchester 7

Top Performers: Rose: QB Eric Hyten - 91 ypg rush, 156 ypg pass

LB Bryan Hagelskamp - 57 tackles

Manchester: QB Josh Crick - 139.6 ypg passing

LB Trey Holcomb - 90 tackles

conference games to Hanover and Wabash, while the Engineers have committed 15 turnovers in their last three games.

The Spartans boast the league's top ground attack with an average of 173 yards rushing per game. Freshman running back Jason Ward and junior quarterback

Josh Crick are fourth and fifth, respectively, in the ICAC in rushing this season. Crick is also second in the league in passing efficiency, averaging 140 yards per game through the air.

Wabash was able to shut down Manchester last week, limiting them to 39 yards rushing and 164 yards of total offense on their way to a 24-7 victory. By

comparison, the Engineers racked up 382 yards of offense against the Little Giants.

If Rose gets into another slugfest with the Spartans, they will need to take better care of the ball than they have in recent weeks. The Engineers' offense has shown signs of brilliance this season, but they need to put a full game together in order to capture their first conference win of the season.

Anderson 24, Rose 10

Raven safety Jason Hooley caught nearly as many of Eric Hyten's passes (four) as Rose receivers did (five) as Anderson came back to score 24 straight points and captured their first victory of the season.

1997 ICAC

Football Standings

	ICAC		All	
	W	L	W	L
DePauw	2	0	4	1
Wabash	2	0	4	1
Hanover	1	0	5	0
Anderson	1	1	1	4
Franklin	0	1	1	4
Manchester	0	2	3	2
Rose-Hulman	0	2	1	4

Last Week's Results

Anderson 24, Rose 10

DePauw 30, Franklin 7

Wabash 24, Manchester 7

This Week's Games

Anderson at Franklin

DePauw at Hanover

Manchester at Rose

Illinois Benedictine at Wabash

penalty.

"We figure out a way to do things like that," Rose head coach Scott Duncan said. "We have a history of shooting ourselves in the foot."

Anderson scored another touchdown to pull away, and Hooley snared his fourth pick to seal the outcome.

"I can't believe it," Hooley said. "A lot of the credit should go to the defensive line for putting so much pressure on the quarterback."

The Ravens sacked Hyten four times, and harassed him into a 5 of 19 passing day for only 74 yards. He led the Engineers in rushing with 93 yards on 22 carries.

Junior linebacker Bryan Hagelskamp led the team in tackles with 17, and also recorded an interception.

Wabash 35, Rose 14

With their rushing attack shut down, Rose-Hulman attacked Wabash through the air, completing 25 of 50 passes for 279 yards. However, Hyten threw four interceptions and was sacked four times as the Engineers fell behind 28-7 in the first half and fell to the nationally-ranked Little Giants.

Freshman split end Jon Harris caught nine passes for 75 yards, and sophomore Ricky Arnold gathered in 6 balls for 98 yards.

Wabash was led by running back Joe Becker, who ran for 164 yards, including an 80-yard touchdown run.

The Rose Thorn Athlete of the Week will return next week.

Classified Advertisements

ANNOUNCEMENTS

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Attention Graduate Students: SCAMPS-Christian Campus Ministry, is offering a Bible study for graduate students. It will

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The Rose Thorn offers classified advertisements less than 30 words free to Rose-Hulman students, faculty, and student organizations. For submissions of more than 30 words, each additional word is \$0.10.

All other classified advertisements are

\$3.00 for the first 30 words and \$0.15 for each additional word. Payments must be made in advance; corrections at our expense first week only.

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Submissions may be made at the Thorn office, through campus mail addressed to the Thorn, by email-ing thorn@rose-hulman.edu, or by calling the Thorn office at extension 8255. Deadline for submissions is 5 p.m. the Wednesday prior to publication. Runs over one week must be renewed weekly by contacting the Thorn office, unless prior run arrangements have been made.



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Volleyball sets up for Conference

by Don Cole
Thorn Sports Reporter

Coach Davis indicated that the team was just not mentally focused enough to take the win from Manchester.

Rose-Hulman 3, Franklin 2

Rose-Hulman engineered their best comeback of the season, beating Franklin College. The win was the team's first conference win in the two-year history of the program, and a huge victory for the squad.

Rose-Hulman dropped the first two games, and things were not looking good. But they managed to explode into the third game with an 8-1 run and never relinquished their momentum, finally winning in the rally scoring fifth game.

Coach Davis was understandably pleased with her team.

"It was a big win for us," she noted. "Volleyball is an unpredictable sport...once a team gets momentum, it can carry them, and we let our momentum carry us."

"We had good communication," she said of the team. "The chemistry was nice to see."

Rose-Hulman's last ICAC match in the final weeks of the season is against Hanover this Saturday. It goes without saying that this is a must-win match for the team, and Davis is confident about it.

"I believe they're beatable," she said. "We know what we're capable of."



Freshman Brooke Enochs was selected as the ICAC Volleyball Player of the Week last week. Enochs piled up 50 kills, 39 digs and 15 blocks in three matches last week and is currently among national leaders in blocks and hitting percentage.

As far as the upcoming tournament goes, Davis is confident about that, too. When asked if she thought the team could take it, she replied, "Yes, I do. Very much so."

"We work harder than any other team in the conference. We're definitely capable."

And since the tourney will take place on home turf, she believes that the team will feed off the noise and support of the crowd. If the outstanding play in the final three games against Franklin is any indication, the squad definitely has a shot at the title.

Soccer faces Hanover

*Lose 1-0 in overtime to Anderson;
Score record-setting 13 goals in shutout*

by Peter Anderson
Thorn Sports Editor

Fowler became the sixth Engineer to notch three assists in a game, tying a school record. Senior Andy Zehnder was the most recent player to do it, doing so in a game last year.

The Engineers soccer team (3-8 overall, 1-1 ICAC) will try to improve this weekend with a game at Hanover tomorrow. The Engineers are coming off a disappointing 1-0 overtime loss to Anderson at home Tuesday.

The loss was the Engineers first at home this season.

Junior goalkeeper Matt Toppin was once again outstanding, allowing the only goal of the game 11 minutes into the first overtime. Rose-Hulman was once again unable to capitalize on their scoring opportunities, as they outshot Anderson 17-9.

The loss comes on the heels of the Engineers record-setting 13-0 shutout win over Franklin. The 13 goals shattered the old school record of 7 (done most recently in 1993 against Marian), and senior Bo

Rose-Hulman scored five times in the first half and would add eight more in the second half of play. The Engineers had four players score two goals - freshman Kyle Kindle, sophomores Keoni Sundseth and Neil Kaszubski, and senior Chad Minor.

Goalkeepers Toppin and senior Cory Willis combined for the shutout, in which the Engineers outshot their opponents 39-1.

In addition to his two goals, Kaszubski also had two assists. Fowler, Zehnder, Kelly McAtee, Kelly Ojala and Kevin Kayser scored the remaining five goals for the Engineers.

Manchester 3, Rose-Hulman 0

The Engineers were active over fall break, losing an ICAC match in Manchester 15-12, 15-3, 15-9. The loss was the Engineers' third straight conference loss.

Both freshman Brooke Enochs and sophomore Molly Lambert contributed 5 kills to the losing effort, while freshman Jenny McGuire helped out with 9 assists.

Enochs also led the squad in blocks with 5, while McGuire and Lambert had 9 digs each. Lambert delivered the Engineers' only ace of the match.

Coach Brenda Davis was to the point in commenting about the match.

"We played poorly," she said. "We never got our game faces on."

Cross country competes at Bird-Gibson course today

by Ryan Loftus
Thorn Sports Reporter

Rose-Hulman's men's and women's cross country teams will compete at the new Bird-Gibson course today, which is in nearby Seelyville. Come out and cheer on the runners beginning at 3:45 pm.

The men's cross country team traveled to Atlanta this past weekend to battle future SCAC rival Oglethorpe. Rose-Hulman defeated host Oglethorpe soundly, finishing fifth among 11 teams. Clayton State College won the meet with 48 points while Rose had 120 points.

Ryon Sumner was the Engineers' top runner, placing 12th overall in a time of 28:38.

The next four Rose harriers came in a pack, with Dan Brier at the helm in 23rd place. Kyle Smith (24th), Brian Wickham (29th), and Brian Smith (32nd) finished close behind to round out the scorers.

"It was a very hot and muggy

day," commented head coach Bill Welch. "I thought our people challenged the course and themselves but our top runners are having trouble with the top runners in the race."

"We've come along well but need to be more risky in challenging the leaders," analyzed Welch.

At the Oakland City Invitational last Thursday, the women's cross country team took fourth in the five team meet. ICAC rival Franklin nipped Rose, 57 to 72, while host Oakland won with 39 points.

Bessie Fulk was once again the top runner for Rose, completing the 3.1 mile course in 21:36 to place 9th. Hannah Rumpf was not far behind in 14th place.

The top seven runners were rounded out by Maggie Boozer (20th), Sara Speckhard (21st), Liza Saunders (25th), Ann Christensen (27th), and Emily Huguenard (28th).

Rose-Hulman Volleyball Tri-Match

Saturday, October 18
Hulbert Arena

12 noon—Rose vs. Hanover
2 p.m.—Hanover vs. Indiana Wesleyan
4 p.m.—Rose vs. Indiana Wesleyan

Women's tennis finishes season

by Peter Anderson
Thorn Sports Editor

The Rose-Hulman women's tennis team finished the season with a 7-2 loss to IUPUI following their sixth-place finish at the ICAC Conference tournament.

Junior Cathy Francis and the doubles team of Francis and junior Becky Schenk won matches at the conference meet.

DePauw won the conference title with 41 points. Rose-Hulman scored 9 points in the six-team meet.

In the final match of the season, the Engineers top singles player, junior Marcie Kam, and top doubles team, Kam and sophomore Christine Winters, each won matches.

Engineers In Action

Friday, October 17

Cross Country at Indiana Intercollegiate.
Women's Swimming hosts IUPUI, 6 p.m.

Saturday, October 18

Soccer at Hanover College
Volleyball hosts Hanover College, 12 p.m.
Football hosts Manchester College, 1:30 p.m.
Volleyball hosts Indiana Wesleyan, 4 p.m.
Swimming hosts Rose-Hulman Relays, 6 p.m.

Monday, October 20

Volleyball hosts St. Mary's College, 6 p.m.

RESULTS

Men at Oglethorpe Fifth of 11 teams

12. Ryon Sumner 28:38
23. Dan Brier 29:52
24. Kyle Smith 29:56
29. Brian Wickham 30:10
32. Brian Smith 30:16
35. David Hartman 30:33
38. Brett Bobzien 30:59
41. Mike Kosloski 31:31
53. Bill Packham 33:19
56. Clint White 33:53
75. Phil Reksel 37:53

Women at Oakland City Fourth of five teams

9. Bessie Fulk 21:36
14. Hannah Rumpf 22:05
20. Maggie Boozer 23:01
21. Sara Speckhard 23:02
25. Liza Saunders 23:28
27. Ann Christensen 23:58
28. Emily Huguenard 24:11
31. Melissa May 25:19
32. Alyson Tews 25:23
33. Ann Swistek 25:32

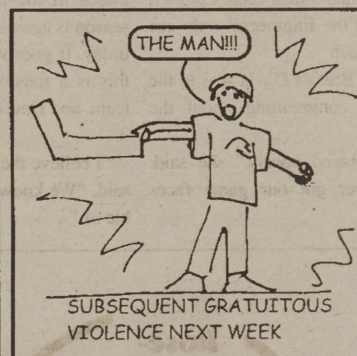
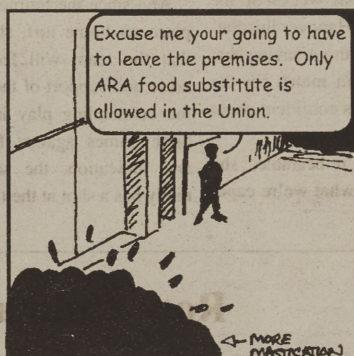
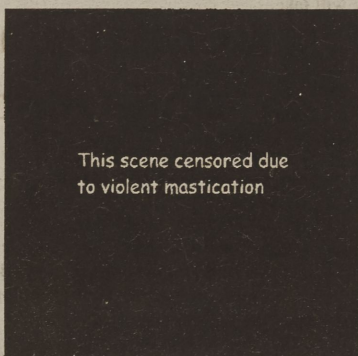
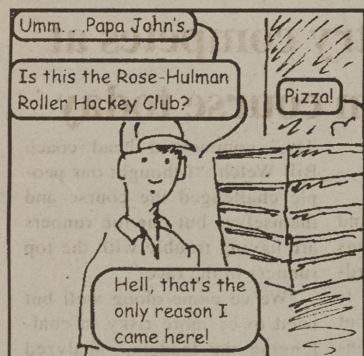
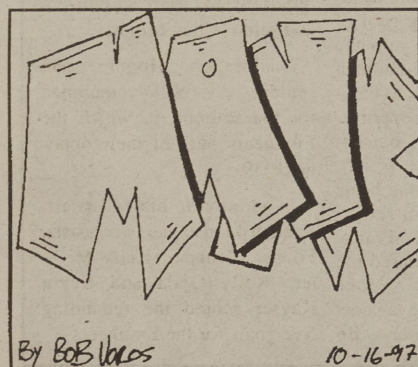
Top Ten Reasons I Was Late for Class

- 10) Nearest parking spot was in Brazil
- 9) Attacked by Nazi Squirrels
- 8) Went surfing on Speed Lake
- 7) I hooked up last night . . . with the net
- 6) Waiting for SRC to open
- 5) Too many women in my room
- 4) South Park marathon
- 3) ARA food poisoning
- 2) Hung over from last night's rush event
- 1) Two words - Girl Hole

---Humbly submitted by the men of Speed 3

The Surrealist Perspective

As the type on the tiny keyboard, screening dark onion reality into the reality that is the large tomato of life. I venture forth into giraffe ancestry that is no more than less than I expected to concentrate on because of the other alternative to which I was expecting to expect but never quite understood. It is indeed this that that was done with and too because of them I sing of you, a shoe, or a dijerydoo. Indeed the snow is deep in the wetland everglades of the new Wyoming setting sun that shrinks to the size of a quarter and is quenched by a large reclining dromedary.



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