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THE ROSE THORN

Vol. 30, No. 7 — *Rose-Hulman Institute of Technology* — Friday, Oct. 28, 1994

Half-million dollar gift not "student version" software

by Kevin Gaither
***Thorn* Reporter**

Rose-Hulman is about to acquire the Saber Simulator, a computer program used in industry by engineers to simulate a variety of systems. For example the automotive industry uses the simulator to simulate new engine designs. The first areas that will use it will most probably be the ME and CE departments, possibly as early as next year.

On Wednesday, November 2, from about 11 to 3, Bob Billings, an applications engineer from Analogy, Inc., the company that developed the Saber Simulator, will be on campus to demonstrate the program on the Spark 20 stations in the computer science laboratory. When Rose receives the program, it will be installed in 15 of the Spark 20 computers.

The Saber Simulator, worth over half a million dollars, is being donated to the school by Analogy as a way to acquaint academics with industry. Both the University of Washington and the University of Wisconsin-Madison already have the system and are in the process of simulating PIN Diodes, Power mosfets, SCR's, Gate Turn Off Devices, and other electronic models. This is in addition to work in power systems, solid states, microelectronics, and new sensors.

Professor Farbrother, Head of the Electrical Engineering and Computer Engineering Department, stressed that this is not a student version. Rather, this is the same system used widely in industry. He also explained that the Saber Simulator is a professional quality tool which is capable of simulating electrical, mechanical, hydraulic, and electromechanic systems.

This system is supplied with a large number of component models in a model library. One of the reasons the automotive industry is donating the program to universities is to encourage the development of new models. There will be a maintenance charge for system support and upgrades, but this charge can be off set by creating new models to add to the Saber Simulator library. Farbrother explained that in no way will there be a tuition increase or charge for students because of the simulator. Instead, it will come out of department funds.

One of the biggest benefits of the simulator is that it enables engineers to effectively test a new design without building it. Another benefit to

See "Simulator" page 3

Attrition numbers up, percentages remain constant

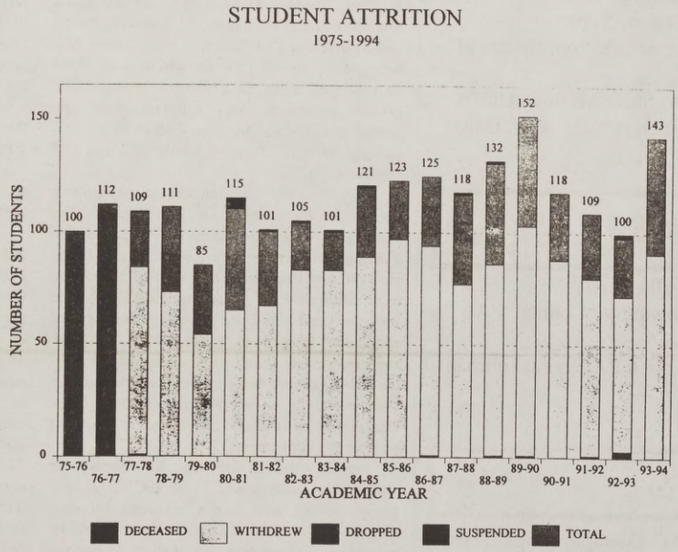
by David Hile
***Thorn* Reporter**

While the focus lately has been on admissions and the advent of the first class of women at Rose-Hulman, concern has also been growing about the high number of students leaving Rose.

"Last year was not a good year," admitted Pete Gustafson, Rose-Hulman's Assistant Dean of Students, when asked about the dismal attrition record for 1993-94. Overall, 143 students left Rose, the second highest total ever. This number includes 52 drops, considered to be the highest total of students ever asked to leave.

Attrition has moderately risen over the past 20 years, however, the large increase last year is a singular event. The "bad year" of 1993-94

See "ATTRITION" page 3



Although the number of students leaving Rose has increased, as can be seen here, the total enrollment has also increased, keeping the percent attrition approximately the same. The above bar graph represents all attrition cases from 1972-73 to 1994-96.

Sophomore trend of low midterms continues

by Timothy Boyd
***Thorn* Reporter**

Fall quarter midterm grades of 102 sophomores were below a 2.0 GPA. Of those, 19 of them had less than a 1.0. Dean Jess Lucas, Vice President of Student Affairs and the Dean of Students, feels that the administration or students "can't overreact." He notes that many instructors give lower grades at midterm in order to give students incentive to improve.

Lucas doesn't downplay the seriousness of the issue though.

"Everybody, [including President Hulbert], is very concerned." Since the 1991-1992 school year, the number of sophomores with less than a 1.0 has steadily increased from 12 to 19. In the 1991-1992 year, 42%

See "Sophomores" page 3

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Correction:

Last week's issue incorrectly stated the times for the K.N.B. lecture presentation as 8 a.m. to 10 p.m. This presentation takes place this evening, between the hours of 8 p.m. to 10 p.m.

ABET visit, approval vital for Rose-Hulman programs

by Cliff Grigg
Professor of Electrical and Computer Engineering

On Monday and Tuesday, Rose-Hulman will receive some very special guests from the Accreditation Board for Engineering and Technology (ABET). The purpose of their visit is to inspect our academic programs, facilities and plans for the future, as part of the re-accreditation process for the five engineering programs (CE, CH, CO, EE and ME). ABET is the only organization who accredits engineering programs in the US, and accreditation is vital for any good engineering program.

Accreditation is simply essential. It brings recruiters to campus, it opens the door to graduate school, and it permits our engineering graduates to become registered engineers. Without accreditation a school cannot hold its head up in the engineering community.

I think we have exceptional programs at Rose-Hulman, and I'm convinced all of the engineering programs will be accredited again. But if you see some visitors being shown around, or if they stop by one of your classes, or if they stop you in the hallway and ask a few questions, it will do no harm to be especially nice to them. After all it can't be easy for them, having to try to find things wrong at a place this good.

Basic beliefs, honor on trial in "A Few Good Men"

Rose-Hulman Institute of Technology's Drama Club will present the dramatic courtroom production, "A Few Good Men," on Friday and Saturday and Nov. 4-5 in Moench Hall Auditorium. Performances are scheduled at 8 p.m. each night.

"A Few Good Men," written by Aaron Sorkin, centers on the court-martial of two Marines in the death of a fellow soldier at the military base at Guantanamo Bay. The two soldiers are willing to go to jail, if necessary, to defend the military's strict honor code.

This puts the Marines' Badge Of Honor on trial as a young Navy lawyer, and his assistant, try to defend the actions of the two men and the basic beliefs of the U.S. military system.

Ryan Mrozinski, a freshman from LaPorte, plays the young attorney Dan Kaffee, a role made famous by Tom Cruise in last year's movie version of the production. Greg Stump of Terre Haute plays the crusty military drill sergeant Nathan Jessup, while Kate Seibert, a sophomore at Indiana State University, plays Kaffee's legal partner Jo Galloway, performed by Demi Moore in the film.

Tickets are $5 for adults and $3 for persons 16 years old and younger. For ticket information, persons can call 877-8275.

SEEKING INFORMATION: Young attorney Ryan Mrozinske (left), a freshman from LaPorte, questions marine Shawn Eads (right), a sophomore from Indianapolis, on circumstances surrounding the death of a fellow soldier during a scene from Rose-Hulman Drama Club's production of "A Few Good men." Performances are scheduled Friday and Saturday at 8 p.m.

ENTERTAINMENT / LEISURE

Tonight, Oct. 28 - SAB presents KNB EFX, GM Room, 8 p.m.
Tonight, Oct. 28 - Drama Club Play, "A Few Good Men," Moench Hall Auditorium, 8 p.m.
Saturday, Oct. 29 - Gun Club shooting day
Saturday, Oct. 29 - Drama Club Play, "A Few Good Men," Moench Hall Auditorium, 8 p.m.
Friday, Nov. 4 - "Toad the Wet Sprocket," 8:00 p.m., Hulman Center
Friday, Nov. 4 & Saturday, Nov. 5 - Drama Club Play, "A Few Good Men," Moench Hall Auditorium, 8 p.m.
Nov. 6 - RHA Movie, "The Program," GM Room, 8 p.m.
Nov. 11 - Sab presents Comedian Danny Storts, Main Dining Room, 8 p.m.
Dec. 10 - Fine Arts Series, "Heritage Brass Quintet," 7:30 p.m.
Dec. 16 - Start of Christmas vacation

LECTURES

Today, Oct. 28 - Computer demonstration, Pat Carlson's R-WISE Project, Computer Center, 9 a.m.-5 p.m.
Wednesday, Nov. 2 - Saber simulator demonstration, Electrical Engineering Dept., All Day
Nov. 9 - Wellness Seminar, "Stress," Dr. Steve Marlow, Union Hospital, Faculty/Staff Lounge, Moench Hall, 10 a.m., Union Building, 2:30 p.m.

MEETINGS

Tuesday, Nov. 1 - Institute Meeting, E-104, 4:20 p.m.
Wednesday, Nov. 2 - President's Administrative Council, PA Room, 8 a.m.
Nov. 9 - President's Administrative Council, PA Room, Hulman Union, 8 a.m.

SPORTS

Saturday, Oct. 29 - Cross Country, ICAC Championships, Terre Haute, 11 a.m.
Saturday, Oct. 29 - Soccer, at Manchester College, North Manchester, 11:30 a.m. (ICAC Match)
Saturday, Oct. 29 - Football, vs. Hanover College, RCA Dome, Indianapolis, 8:15 p.m. (ICAC; Game Broadcast On WJSH-AM 1300, starting at 8 p.m.)
Wednesday, Nov. 2 - Intramural Cross Country Meet, Phil Brown Field, 5 p.m.
Saturday, Nov 5 - Football, Wabash College, Phil Brown Field, 1:30 p.m. (ICAC)
Nov. 9 - Swimming, Wabash College, Terre Haute North, 7 p.m.
Nov. 9 - Basketball Exhibition, Cook Inc., Shook Fieldhouse, 7:30 p.m.
Nov. 12 - Football, Univ. of Chicago, Phil Brown Field, 1:30 p.m.
Nov. 12 - Cross Country, at NCAA Div. III Regional, Anderson, 11 a.m.
Nov. 12 - Swimming, Asbury College, Terre Haute North Pool, 2 p.m.

SUBMISSIONS TO *CAMPUS EVENTS*

Events an be published in *Campus Events* by any organization or individual. Simple 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 Bush*, via Karen Pershing in the mailroom.

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

The *Rose Bush*

Campus News and Information

ASME MEETING

ASME will hold its next general meeting on Wednesday, November 2, at 6 pm in the GM room. Mr. Bill Lindstaedt, director of Career Services, will be speaking on co-op and internship opportunities for ME students. We will also be voting on a new secretary and on T-shirt designs. All ME students are invited to attend.

For more information, contact Dave Bedel, Box 1352.

MAILROOM FAX MESSAGES

It has become necessary to begin charging for INCOMING faxes that are more than 20 pages in length. You will receive a note in your box informing you that a fax has been received and the amount you owe. There will now be a 5 cent charge for each page above 20. You will need to see Karen Pershing in Room DL111 to pick up your fax.

The Rose Bureaucrat

Jeremy A. Nolan - Junior Class President

The latest meeting of the SGA Senate was called to order by Vice-President Ashvin Lad at 5:15 p.m. Tuesday, October 25 in the GM room. The roll call was as follows: 53 Senators present, seven substitutes, and seven absences. Items that were on the agenda included introduction of the keynote speaker, Dr. Don Richards; reports of the officers and committees; approval of a new Senate Parliamentarian; and discussion of two funding requests submitted by the *Modulus* and the Gun Club.

Vice-President Lad introduced the keynote speaker for the evening, Dr. Don Richards. Dr. Richards gave a presentation on the Foundation Coalition Sophomore Curriculum. Most of the students who have heard of this program refer to it as Sophomore Integrated Curriculum (IC). The program calls for an entirely restructured sophomore curriculum in which all majors take the same classes. The program is not one 16-credit hour course, but a series of smaller courses that essentially build on one another. These classes will be conducted by members of all the engineering departments.

Dr. Richards stated that the Sophomore Curriculum Development Team (FCSCDT) will begin meeting with faculty members Monday, October 31, 1994, to discuss the program and its possible implementation here at Rose. Unlike the introduction of the present Integrated Curriculum, this program was presented to the students first. There were several thoughtful questions asked at the meeting, some of which had no answers at this point. Dr. Richard thanked the Senate for its input and said that he and the FCSCDT would keep the students updated on the progress of this program.

President Rob Wallace also reported on his meetings with Placement Director, Bill Lindstaedt, about summer internships and co-ops. In addition, Wallace reported on the progress The Spanish Implementation Committee, and announced that Keith Shoup had been selected as the Student Leader of the Month.

Senator Jeff Turk reported on the progress of the Engineering Internship Committee. Senator Turk stated that he encourages freshmen and sophomores to prepare resumes and data sheets and to take them to either Bill Lindstaedt or Susan Smith.

Under new business, Kevin Kayser was unanimously voted in as the new Senate Parliamentarian. Also, the *Modulus* and the Gun Club made funding requests. The *Modulus* presented a request for $3711.00 for the purchase of a new computer. A representative from the *Modulus* stated that their existing system was rapidly becoming outdated and would soon not be able to run the software needed to complete the yearbook. The request was approved for $3711.00. Next, the Gun Club requested $2816.00 for the purchase of new guns and other equipment. The Finance Committee headed by Treasurer Jeff Wrana made a proposed approval of $2001.00, but even the lower proposal brought several concerns by the Senate. After a long series of debate the entire proposal was defeated 28 to 18 with two abstentions. Senator Amy Ott immediately moved to reconsider the Gun Club's proposal, but it was quickly defeated.

The meeting adjourned at 6:40 p.m. immediately following the passing of the gavel.

ADDITIONALLY...

Today, Oct. 28 - Admissions' Open House, All Day
Today, Oct. 28 - Yearbook photos, Modulus Office, Moench Hall, All Day
Today, Oct. 28 - Second Formal Invitations Awarded
Sunday, Oct. 30 - Second Formals
Monday, Oct. 31 - ABET Visitation
Tuesday, Nov. 1 - ABET Visitation
Tuesday, Nov. 1 - Bid Tuesday
Nov. 7 - Flu shots for Faculty & Staff, E-204, Faculty/Staff Lounge, Moench Hall, 11 a.m. to 2 p.m. (by appointment)
Nov. 8 - Flu shots for Faculty & Staff, E-204, Faculty/Staff Lounge, Moench Hall, 8 to 11 a.m. (by appointment)
Nov. 8 - Night Exam, CH-201, O-231 And O-233, 7-9 p.m.
Nov. 12 - 28th Annual Rose-Hulman High School Mathematics Contest
Nov. 13 - Last Supper Before Finals, 4-6 p.m.
Nov. 14 - Fall Quarter Final Exams Begin, 8 a.m.
Nov. 17 - Fall Quarter Ends, 5 p.m.
Nov. 28 - Start Of Winter Quarter, 8 a.m.

Dad's Day Activities:

Saturday, November 5

* Lunch, Main Dining Room, Hulman Union, 11 a.m. To 1 p.m.
* Football, Wabash College, Phil Brown Field, 1:30 p.m. (ICAC)
* Cookout, E.E. Black Center, after football game
* Drama Club Play, "A Few Good Men," Moench Hall Auditorium, 8 p.m.

Engineering education evolves with technology

by Andrew Nuxoll
***Thorn* Reporter**

After four years at Rose-Hulman, we will leave with a head full of knowledge and experience but perhaps only a small idea of how the education we have received has evolved. What do we have that yesterday's engineer did not and how are we being prepared to survive in tomorrow's world?

Rose-Hulman's Vice President for Academic Affairs, James Eifert, has been involved in engineering education since he was a student in the 1960's. This experience has given him a unique perspective on how engineering education has progressed and where it is headed.

The Dean describes the change in general as an increase in sophistication. During World War II, engineers used a "brute force" method for solving problems. In the decade following the war, there was a huge technical gap between the United States and the rest of the world. We were rudely awakened in 1957 when the Soviet Union launched Sputnik into orbit. The U.S. realized we were beginning be "out-science" by the rest of the world.

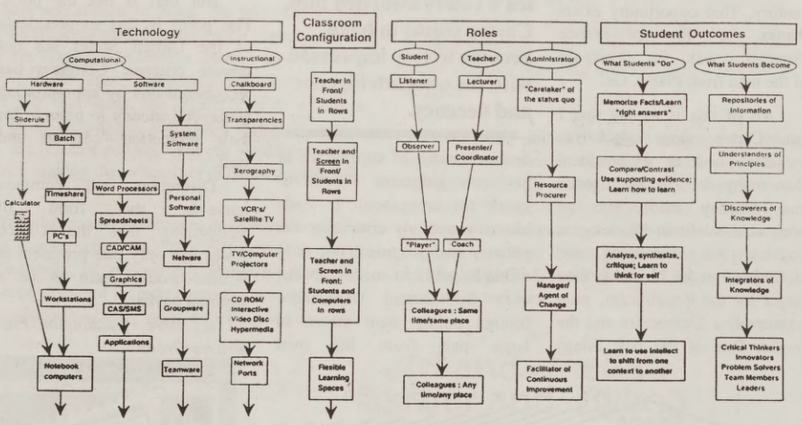
This realization was the beginning of decades of change in the engineering environment. Eifert has compiled the evolution of this change into a chart [see below] which illustrates the "streams" of change in engineering education. By selecting all the boxes in a roughly horizontal row across the chart, you can create different "snapshots" of the engineering education of the past. The top row of boxes represents about 1960 while the bottom row is about 1995. Eifert stresses that the time element is not meant to be exact, but to give an idea of the order of change.

Much of the evidence for Eifert's outlook on the future can be found in the new classrooms and other developments at Rose-Hulman. Instead of the limited number of workstation classrooms, students will carry the laptop computers that freshmen are required to bring next school year. Because computers will always be available (instead of in just a few classrooms) professors can begin to use the computer as a consistent tool in their instruction.

The classroom's transition to "flexible learning spaces" is evident in the new classrooms at Rose- Hulman, including the new Imaging Lab (B100), Dynamics Lab (O203), and the Theorodrome (G220). The classrooms feature a central group-oriented learning area with computer equipment easily available in the room's periphery.

As previously mentioned, it was necessary for engineering education in the U.S. to change to avoid being "out-scienced" by the rest of the world. Today, the modern engineering student needs to be skilled at solving problems on a conceptual level and working with groups of people with different backgrounds and ideas. The student needs to be skilled and knowledgeable about all aspects of engineering and science, not just a specialty.

Recently, Eifert's chart appeared in the journal of the Society of Hispanic Professional Engineers and PRISM (an engineering education journal.) With his firm hand on the steering wheel, Rose- Hulman is providing students the tools and the ideas to meet the challenge of the future.



The above flow chart, developed by James R. Eifert, Vice President for Academic Affairs, shows the evolvement of engineering education between approximately 1960 and 1995.

SIMULATOR

CONTINUED FROM PAGE 1

that it enables engineers to effectively test a new design without building it. Another benefit to the students who may use the new tool is that it will expand their knowledge and possibly prepare them for either industry or graduate thesis work.

Farbrother also noted that the simulator could "provide legitimate work after graduation." The Saber Simulator will let faculty and students use modeling as a key in the curriculum. For the remainder of the year, the faculty will have a chance to learn the program by taking short courses in the Saber Simulator.

Rose became aware of the Saber simulator when Farbrother attended a seminar in Levonia, Michigan, entitled "Bring Universities and Industry Together." On October 22, Anthony Cooprider, an electronic simulation specialist at Ford Motor Company, came to Rose and discussed the role of simulation in industry as a part of the IEEE lecture series. Cooprider is a graduate of the 1986 class with a degree in electrical engineering.

ATTRITION

CONTINUED FROM PAGE 1

followed the second best year ever as far as low attrition level, leading Gustafson to believe that the numbers will come down this year. The expected number is in the neighborhood of 120 students.

Gustafson also believes that the moderate increase is a result of increasing class sizes and increasing academic standards. The numbers for attrition show an increase in the students leaving, yet percentages of students remaining are similar to years past. Larger classes mean that more students, on average, won't make it, yet about the same percentage of students survive. However, it is true that over this time period, Rose has increased academic standards with respect to the infusion of computers into the classroom. Students from opening day are confronted with learning programs like Mathematica while they also learn material covered in class. Another key factor is the need to cover more information than in years past as technology changes. These ingredients cannot be ignored as viable reasons for higher attrition.

It is often very difficult for Rose to distinguish exactly why students choose to leave, whether financial, grade related, or perhaps an interest in something besides science and engineering. There is a reason given to each student, yet Gustafson admits that this is not always a true reflection. Several students choose to leave over the summer months, never giving Rose communication as to their reasons, or they give a reason that may not reveal their true motives. In these cases it is never really known why exactly they left, making it difficult to completely explain attrition levels.

Stressed?

RHIT now provides confidential counseling on campus, in BSB.

Counselors: Erin Williams
Scott Duncan

Hours:

M	T	W	Th	F
4-8	9a-1p	12-3p	9-12p 1-4p	9-1p

Look for the up and coming health column in the

OUTSTANDING TEACHER AWARD

Over the past nine years, Rose-Hulman has honored outstanding teachers at the Honors and Banquet. This is an effort to honor teachers who are unusually skilled and who have been major influences on their students. Awards have been given in mathematics, physics, chemistry, computer science, English, and instrumental music.

We recognize that we are dependent on teachers who, through their teaching skill, caring, and example, inspire our students. Everyone at Rose-Hulman has been influenced by an outstanding teacher. This is an opportunity to recognize these individuals and say "well done" to them.

Won't you please nominate a teacher this year? Just fill in the form below and attach a letter of recommendation of your own.

The award consists of an elegant certificate, created for us by Salty Seamon and a cash award. We plan to honor several teachers this year at our banquet on April 29.

Please submit your nomination, no later than January 10, 1995 to Dr. David Erwin at Box 68.

1994 Rose-Hulman Outstanding Teacher Award Nomination Form

Nominee's name/address _____

_____

School name/address/phone/subjects: _____

_____

_____

Names/addresses of 3 adults who qualify to submit recommendations:

1. _____ 2. _____ 3. _____

_____ _____ _____

_____ _____ _____

PLEASE ATTACH YOUR OWN BRIEF LETTER OF RECOMMENDATION TO THIS FORM

Your name/class/campus address _____

SOPHOMORES

CONTINUED FROM PAGE 1

of those sophomores with less than a 1.0 withdrew from Rose. In the 1993-1994 year, 81% of the sophomores with less than a 1.0 withdrew. Lucas is concerned because Rose is "potentially loosing engineering and science talent the country desperately needs."

There does not seem to be any specific reason for the low grades. "Dynamics tends to get its share of low grades," Lucas commented, but there is not one specific class or major that is the cause of the low grades. The problem stems from not only Dynamics, but also math courses, physics courses, and statics.

To solve the increasing problem, the administration is attempting to address the difficulty in transition from the freshman to the sophomore year. As Dean Lucas stated, the administration is planning to "research everything we can think of to gear up" for changes that occur in the sophomore year.

Catholic Mass

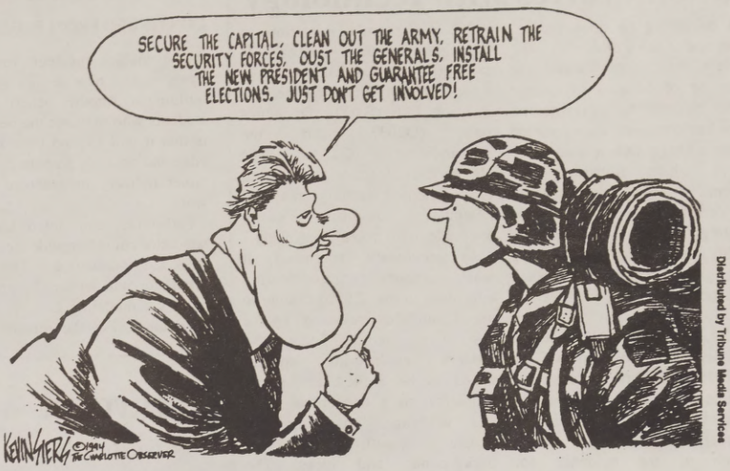
Saturday Evenings
7:00 pm in the student union.
(See the board for exact location.)

Also please note:

Fr. Martin Day, Catholic campus minister for Rose- Hulman and Indiana State University, is on campus on **Wednesdays** from **1:00 to 2:30 pm.** Stop in at the **music room** of the student union and say hi!

Carter's foreign policy lacking in discretion, common sense

by Jim Hoagland
Washington *Post*
Syndicated Columnist



WASHINGTON--The most startling fact to come out of Jimmy Carter's Haitian Interruptus had nothing to do with Haiti. It had to do with Carter's lobbying of foreign governments to stop a sitting president from waging a war he believed to be in America's vital interest.

Little--too little--has been made of this disclosure from Carter in an interview with The New York Times. The Times relayed this historically unprecedented information to its readers on Sept. 21 in paragraph 34 of a 45-paragraph story.

Other newspapers and the broadcast media briefly mentioned Carter's account to the Times of his secret appeal to members of the United Nations Security Council in 1990 to deny President Bush their support for Operation Desert Storm. But it then swiftly disappeared in follow-up coverage.

It should not disappear. Whatever you think of the results of his interventions on Haiti and North Korea--on balance I find them positive--what Carter did to undermine the legitimacy of an American-led attack on Iraqi forces occupying Kuwait was wrong. There Carter crossed a line that even Forrest Gump might have seen.

In Haiti a desperate President Clinton authorized Carter to negotiate on his behalf. If Carter gave away too much, Clinton let him do it. The Georgian's asinine admission to Raoul Cedras that he was ashamed of Clinton's policies toward Haiti ultimately harmed only Carter. If that bit of sharing by Carter helped avoid a perilous and misguided invasion, so be it.

Carter's citizen diplomacy in North Korea was less felicitous. Carter, who had been invited to Pyongyang by Kim Il Sung, made clear to the State Department that he would go whether Clinton blessed his effort or not. With a political gun to his head, Clinton lukewarmly embraced Carter's mission to Pyongyang, where the ex-president misstated the terms of the deal the administration could tolerate. But Carter helped push Washington and Pyongyang into a more productive dialogue. The administration now has an opportunity to discover if Kim's successors are interested in emerging from the paranoia and economic disaster of a half-century. That opportunity exists thanks to the persistence (Southern-speak for chutzpah) of the man from Plains, Ga.

With a political gun to his head Clinton lukewarmly embraced Carter's mission to Pyongyang.

All of this is to say that I cut Carter more slack as president and as ex-president than many do. His intelligence and decency made him an honorable misfit in Washington politics. His moralizing and stuffiness made him an easy target for the Republicans, neo-conservative Democrats and the media. One of the best things that can be said of Carter as president was that he made impressive enemies. In the retirement America's voters awarded him, Carter seems to have become overly impressed with his own intelligence and decency. His self-esteem leads him into amazing demonstrations of confidence in his own judgment (Southern-speak for arrogance). It leads him into publicly criticizing the policies and judgment not only of his Republican successors but even the current Democratic foreign policy team drawn in large part from his own presidency.

In the retirement America's voters awarded him, Carter seems to have become overly impressed with his own intelligence and decency.

Criticism is fine. But in the case of Desert Storm, Carter did not simply write op-ed page pieces or give speeches to sway public opinion and get the American electorate to demand changes in policy. He actively promoted an alternative policy.

"I decided when President Bush went for the U.N. resolution to permit armed action, to try to block it, which was not appropriate perhaps. But I wrote every member of the U.N. Security Council except Mrs. Thatcher--I thought it was a waste of a stamp--and asked them not to vote for the resolution and I sent President Bush a copy, so I wouldn't go behind the president's back," Carter told the Times.

Brent Scowcroft, Bush's national security adviser and a man with a good memory, tells me that he has no recollection of Carter having communicated with the White House. Other ex-officials say that Bush and Scowcroft became aware of the Carter initiative through diplomatic channels, not from Carter.

But that is not the point. The point is that ex-presidents of the United States are not private citizens. Congress has recognized this by appropriating taxpayers' money to provide for their protection, comfort and staff.

Discretion and common sense--in the form of recognizing that the United States has only one president at a time--would seem to be a minimal payback.

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The *Rose Thorn*

5500 Wabash Avenue, Box 170
Terre Haute, Indiana 47803-3999
Phone: (812) 877-8255

Editor-in-Chief	**Chad Zigler**
Features Editor	**Paul Sigler**
News Editor	**Keith Shoup**
Sports Editor	**Chip Bradway**
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The *Rose Thorn* is published on Fridays at Rose-Hulman Institute of Technology.

The *Rose Thorn* welcomes letters and comments from its readers. We request that all letters to the editor be less than 300 words long. The editors reserve the right to edit letters for grammar, clarity and length (if over 300 words). All letters to the editor must contain the writer's signature, class year and phone number. All submissions will be confirmed before publication. Letters may be sent by electronic mail to *Thorn@Rose-Hulman.Edu*, but still must contain the writer's phone number for confirmation. For prompt publication, letters should be typewritten or printed by computer. All letters for an issue of the *Thorn* must be received before noon on the Tuesday prior to publication.

We would like to remind our readers that the views expressed in the *Thorn* do not necessarily represent the opinions of anyone other than the original author.

STUDENT GOVERNMENT ASSOCIATION

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SGA

Campus debate on marijuana dominated by semantics

by Greg Hawkins
***Thorn* Columnist**

It's the heavyweight championship bout of the year. Challenging the title we have 'Ravishing' Rose-Hulman students opinions concerning Dr. Jess Lucas' method of punishing the menacing marijuana smokers. Defending the title we have 'Jazzy' Jess Lucas defending his decision on the issue. Round One went, by a very small margin, to 'Big Trouble' Troy Weigand, who protested the fact that he was fined for driving too fast rather than just given what he considers to be a verbal reprimand given to the freshman marijuana smokers . Jazzy came back with an illustrious Round Two where he acknowledged Troy for voicing his opinions, then he gave him two uppercuts and a body blow for lack of reasoning in his 'diatribe' and the fact that he was endangering others with his 'Evel Kneivel-istic' driving. While 'Jazzy' Jess was not looking, another student, Bruce 'Buster' Decker, almost knocked him out with some of his slick, quick moves. With his back on the ropes, Dean Lucas fought back hard, knocking 'Buster' to the floor due to few fundamental flaws in the base of his argument. After taking such hits, will the students retaliate or are they afraid of Jazzy's devastating verbal blows?

Here's the monkey wrench: I am neither supporting nor rivaling Dr. Lucas' decision. After having a very informative conversation with Dr. Lucas, I realized that he is totally promoting productive attitudes in the students. His rationalization on the issue of his punishment given to the marijuana smokers was similar to mine. He felt that, "expelling the students would destroy their lives." I feel if they are first-time offenders, as they say they are, ruining their futures as productive men over an issue like marijuana, the legalization of which is now being debated by Congress, would be senseless. He felt that putting them out would only be in essence making them "another person's problem."

Yet why should we have to deal with them? As Dean Lucas explained, "[Rose-Hulman] is about the business of education." Properly educating someone does not include denying them an education, which is exactly what expelling the students would do.

Since this is the case, the students were rightfully given a second chance. A *very* restricted chance. Many people do not realize that the students are on STRICT disciplinary probation, which means that they cannot violate any school rules for the entire period of punishment. According to Dean Lucas, the terms of their probation limits them in many ways. The students cannot represent Rose-Hulman in any organization on or off campus, including: becoming members of a fraternity,holding office in student organizations, and participating in Rose's off-campus activities. Along with those restrictions, they are required to complete 30-40 hours of community service. This punishment is so harsh that the only way to determine if they are Rose-Hulman students or not is by the T-shirts that they wear.

One idea that I found to be really intriguing is a question brought about by a statement made by Troy Weigand that still amazes me to this day. The statement made was, "I and several other students chose to go to Rose . . . so that we would not have to deal with drugs on our campus." If this is the case, Dean Lucas should realize that many students feel this way.

"Is [Rose] just like any other school?" It seems that in every instance that a new opinion has been voiced, Dean Lucas has picked apart all of the problems and inconsistencies with their opinion, but yet he has ignored the feeling that is expressed in their writing. It is obvious that he has the students' best interest at heart-- that much was evident from our conversation. However attacking those students opposing him has only made them retaliate.

Before any more 'dialogue' is shared on this issue, I recommend that both sides do some research on the topic in order to avoid citing incorrect information. All parties involved should also read and understand what the other side was expressing in their letters, and address the crux of the message and not the minor inconsistencies with what was written.

National College News Briefs

College Degrees Earned by Women Less Diversified

PHILADELPHIA--According to a recent study by a University of Pennsylvania sociologist, the academic diversity that enabled women to close the ranks on their male co-workers has come to a halt.

During the past 10 years, female participation in bachelor's, master's and professional degree programs has leveled off, which could create a roadblock to a desegregated workforce, said Jerry Jacobs, associate professor of sociology at Penn State.

In 1960, nearly half of the undergraduate degrees awarded to women were in the field of teaching, and more than 75 percent of women were crowded into only six fields, English, fine arts, history, home economics, nursing and teaching. But from 1964 to 1984, women widened their academic choices by nearly 40 percent.

It appears, however, that the era of academic desegregation by sex is over. Since 1984, female and male participation has virtually stayed the same at the bachelor's, master's and professional degree levels, and segregation by sex has actually increased among Ph.D. recipients, according to Jacobs, who oversaw the study.

"Possibly, we've gotten all the 'easy programs' in the fields that are amenable to the movement of women into their ranks," said Jacobs. "In order to have substantial progress, men are going to have to go into previously female-dominated fields, such as nursing, elementary education and foreign languages, while women need to make further inroads into the physical sciences and engineering."

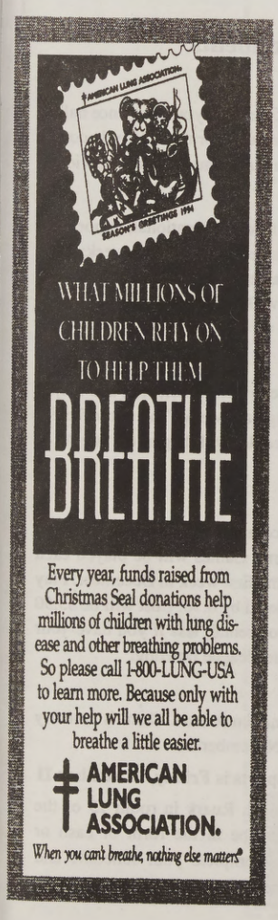
Jacobs points to an undergraduate environment that appears to be more conservative with regard to sex-role expectations. "This is particularly ironic," Jacobs said, "because there is an image of campuses as bastions of politically correct thinking enforced by radical feminist thought police."

Trouble Parking? Try the CATmobile

TROY, N.Y.--A professor at Rensselaer Polytechnic Institute has come up with a car that can parallel park itself.

John T. Wen, associate professor of electrical, computer and systems engineering, has developed a small vehicle that can accurately parallel park itself in designated spots, even when towing more than one trailer.

While most vehicles can roll forward or back, they cannot slide sideways. But Rensselaer's model vehicle, called the CATmobile, comes with a computer-aided automatic parking system that can measure the vehicle's steering angle, jackknife angle, and other conditions and predict the vehicle's position. For his doctoral thesis, graduate student Adam Divelbiss, a member of Wen's research team, wrote a computer program that could preplan a safe route and direct a vehicle through proper parking motions. When computer simulations showed the vehicle could successfully parallel park itself with more than one trailer in tow, the researchers built a quarter-size test vehicle, named CATmobile after the Center for Advanced Technology (CAT). Eventually, Wen says, the system could be used as an on-board assistant to help truck drivers with difficult maneuvers.



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Engineers prepare for "Day in the Dome"

by Joel Gillespie
Sports Reporter

Four hundred two yards rushing. 25 first downs. A 14-0 lead five minutes into the game. These are numbers that would normally signal a win for the team which achieved them. However, these gaudy offensive statistics couldn't produce a victory for the Rose-Hulman Engineer football team last Saturday at Franklin College. The Grizzlies picked apart the Engineer defense with a mixture of run and pass, piling up 414 yards in total offense while on their way to a 39-35 victory. The loss means that Rose will have to fight from behind to capture the ICAC crown.

The loss takes the Engineers (5-2 overall, 3-1 ICAC) out of the driver's seat of the ICAC title race. It also makes this Saturday's matchup in the RCA Dome with conference leader Hanover that much more important. Hanover, another run-and-shoot team, remained undefeated in the ICAC by coming from behind to beat Wabash, 39-27. Duncan commented, "Hanover has a very good quarterback. He's very intelligent and throws the ball very well. We're going to need a good week of preparation to get ready for them."

Rose still has a chance at the conference title, although they need to win their final two ICAC games. That will be easier said than done, though, as they will have to beat the other two top teams in the conference, Wabash and Hanover. The 8:15 p.m. Day at the Dome game is of major importance for the Engineers.

One of the saddest parts of the loss was that Anthony Hammack may not enjoy looking back on the best game of his career. The senior fullback carried the ball 36 times for 220 yards, which was only five yards less than Carl Herakovich ran for in 1957 against Principia College, still the school record. Hammack's huge output gives him 864 total rushing yards for the season. He also scored a

See "Football" on page 7

Rose-Hulman sophomore A.J. Wilkerson (2) gets a hand-off from quarterback Todd Harris (18) and looks downfield against Franklin College. The Engineers lost to the Grizzlies 39-35.

Photo by James Mann

Rose basketball team eager to start 1994-95 season

"Everyone associated with the program is excited about the upcoming season," said first-year basketball head coach Jim Shaw. "We are ready to get on the practice floor and get to work in preparation for what we certainly hope is a successful season."

The 1994-95 Engineers will feature a team that is still fairly young, but has quite a bit of court experience. All-Indiana Collegiate Athletic Conference selection Kiley Gwaltney is back for his junior season as is honorable mention all-conference performer, sophomore Benj Glass.

"Although he is very versatile, we hope to use Kiley at forward and less in the backcourt this season," Shaw said. "He is a tremendous athlete who is capable of making big plays both offensively and defensively, and we need to do a better job of getting him open."

Glass, 6-4, stepped in as a freshman to take over the point guard duties, starting 20 of the 24 games he played. He averaged 8.8 points per game and shot 44.6 percent (29-65) from behind the three-point arc. He was second on the team with 55 assists, and tied an ICAC record with eight steals in a game.

The Engineers' frontcourt has what Shaw refers to as "interchangeable parts." Senior Chris Wheatley, junior Jason Kear and sophomores Kent Murphy and Troy Halt are those interchangeable parts.

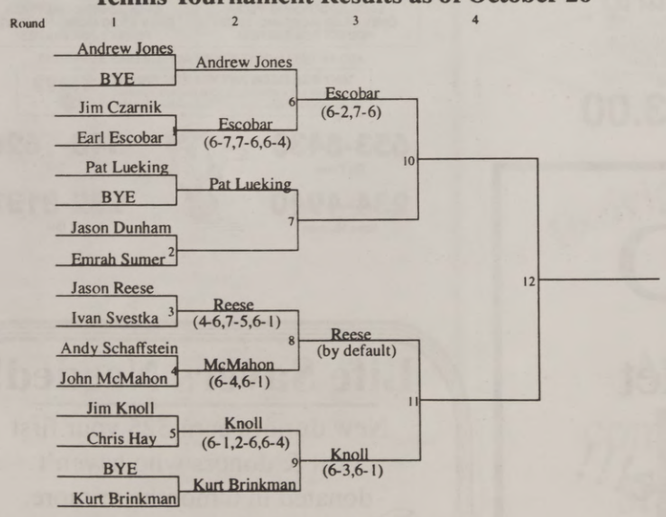
"We have a good mix at power forwards and centers, which we consider the same position. Halt and Murphy are comfortable in the post-up, back-to-the-basket position, while Wheatley and Kear prefer to face the basket," Shaw said.

The Engineers' schedule will provide plenty of challenges, including four games against opponents ranked in the Division III News Preseason Top 25 (4. Manchester (twice), 13. Illinois Wesleyan, 17. Roanoke). Defiance (Ohio), who will play in the Rose-Hulman Invitational on Dec. 2-3, is the fifth-ranked team in the Great Lakes Region.

Shaw's team will have an intrasquad scrimmage on Friday, Nov. 4, at 7:30 p.m., and will play Cook, Inc., in an exhibition at 7:30 p.m., Nov. 9. Both games are in Shook Fieldhouse.

Rose-Hulman Intramural Information
October 28-November 3

Tennis Tournament Results as of October 26



This Week's Schedule

Date	Event	Teams	Time	Field/Court
Oct 31	Football (Major)	LCA vs. SN	8 p.m.	East
Oct 31	Football (Major)	Sugar vs. ATO	8 p.m.	West
Nov 3	Football (Major)	Sugar vs. SN	8 p.m.	East
Nov 3	Football (Major)	LCA vs. Triangle	8 p.m.	West
Nov 2	Football (Minor-Div. A)	Mouse vs. ATO	7 p.m.	East
Nov 2	Football (Minor-Div. A)	Blumberg vs. Blitzpimmels	7 p.m.	West
Nov 2	Football (Minor-Div. B)	Speed 2 vs. PKA	8 p.m.	East
Nov 2	Football (Minor-Div. B)	Red Ears vs. BSB Beavers	8 p.m.	West
Nov 2	Football (Minor-Div. C)	Jiggs vs. Speed 1	9 p.m.	East
Nov 2	Football (Minor-Div. C)	LCA vs. Orange Peels	9 p.m.	West
Nov 2	Football (Minor-Div. D)	DSP vs. BSB	10 p.m.	East
Nov 2	Football (Minor-Div. D)	Deming 0 vs. FIJI	10 p.m.	West

Announcements

Cross Country

- Meet on Wednesday, November 2. Register your residence hall or fraternity team by Tuesday, November 1 for the 1.75 mile course on the Rose-Hulman campus. You may compete as an individual.

Basketball

- Leagues will be divided into four levels: recreational, minor, AA, and major. Games will be played at least two nights a week; however, each team will play one game a week. The entry fee for each team is $10.00. The season will begin the week of November 28.

Volleyball

- Leagues will be divided into three levels: minor, AA, and major. Games will be scheduled two nights a week. The entry fee for each team is $10.00. The schedule will begin the week of November 28.

Bowling

- League play will again take place at the Brazil Lanes. Scoring will be done on a handicap system. Games will be played each Wednesday afternoon beginning the first week in December. Play begins at 4:45 and must be completed by 6:30. Cost will be $3.50 per player for two games and shoe rental, less if you have your own shoes. There is no entry fee for league bowling.

Racquetball

- The tournament is a single elimination format. There is no entry fee. play will begin the week of November 28.

The entry deadline for these sports is Friday, November 11

Entry forms are available from Coach Ruark in room 15 of the Templeton Building.Entry fees may be in the form of cash or check (payable to Rose-Hulman). Complete your schedule and your entry fee will be returned at the end of the season.

Soccer team looks for best ICAC finish against Manchester

by Greg Rossi
Sports Reporter

In the final week of the 1994 soccer season, only one match stands in the way of Rose claiming second place in the Indiana Collegiate Athletic Conference. With a win Saturday at Manchester College, Rose-Hulman could boast its best league record (5-1) in school history.

Rose's recent tear of wins started last Saturday, when they defeated Wabash College for the first time since 1982. Sparking a flame in the team's kicking feet, junior forward Gabe Ferland scored the game's first goal, giving him sole possession of the school's record for career goals (32).

Junior Robb McGhie got both a goal and an assist in the victory, and senior Joe Wendel burst for a goal and two assists.

Coach Greg Ruark said, "It was nice to finally beat Wabash." His spirits had increasing reason to rise as the week progressed with an added 4-0 victory over Franklin College Wednesday afternoon.

"Our patience led to our superior play. We were clearly the better team," said Coach Ruark.

Only up by one at the end of the first half, Rose swiftly acted on the field to score three goals in the first 25 minutes of the second half. Goals came off the feet of Gabe Ferland, who is now leading the team with nine; midfielder Berndie Strassner; midfielder Bo Fowler; and midfielder Robb McGhie.

The Rose team has been playing with authority and are prepared for their last game of the season on Saturday against Manchester.

Rose-Hulman's Wayne Moore (22) defends against a Wabash College attack in a recent ICAC match. The Engineers will close out the 1994 season against Manchester College and hope to finish with their best ICAC record in school history.

Photo by James Mann

● Football

touchdown, giving him 12 in that category.

After looking unstoppable on their first two drives, the Engineers went cold. The defense allowed Franklin to make a long drive for a touchdown, which narrowed the margin to 14-6. After that, Rose's offense went into hibernation. Franklin tacked on another touchdown, and Rose was looking to regain the momentum before halftime. On a third-and-long situation on their own end of the field, quarterback Todd Harris dropped back to pass. He fired a ball toward Eric Gappa along the right sideline, but Grizzly cornerback Mike Brouwer cut in front of Gappa, intercepting the ball and running 27 yards for a touchdown. A two-point conversion gave Franklin a 20-14 lead going into the break.

Franklin tacked on another score after halftime, staking themselves to a 26-14 lead. The Engineers finally got back on track, with Hammack plunging in from a yard out to pull within 26-21. The teams then traded touchdowns with missed conversions to make the score Franklin 32, Rose 27. Rose scored again with about five minutes left in the game, giving them the lead for the first time in the second half, 35-32. Franklin wasted no time answering, scoring the decisive touchdown with two and a half minutes left. Rose drove across midfield on their ensuing possession, but turned the ball over on downs, effectively ending the game.

The Engineer defense has been something of a Dr. Jekyll and Mr. Hyde group this year, playing excellent in five of the games and giving up 35 points or more in the other three. Engineer coach Scott Duncan said that the performance of his defense depends a lot on how well the other team can throw the ball. He observed, "When other teams can't throw the ball, they have a lot of trouble moving the ball against us."

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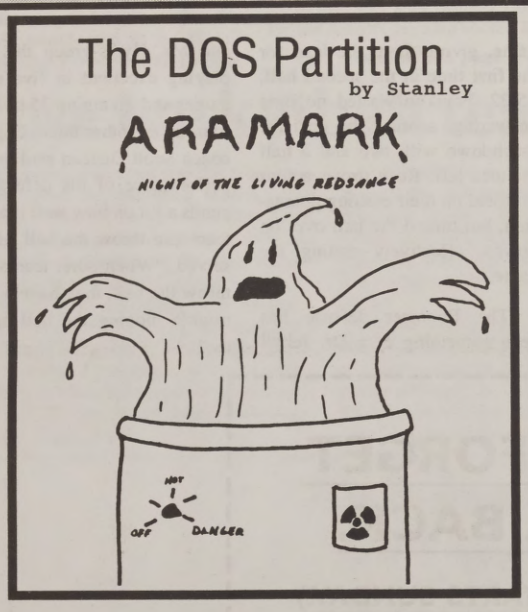
8. Sons of Gyrating Aborigines
7. Skinner Guys are Awesome
6. Swiftly Getting Annoying
5. Support Grab-Ass
4. Something Gone Awry
3. Should go Away
2. Sab budGet steAlers
1. Society for Genital Admiration

Skinner C-1



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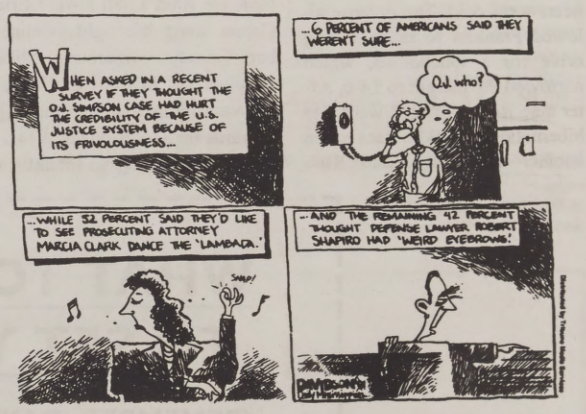
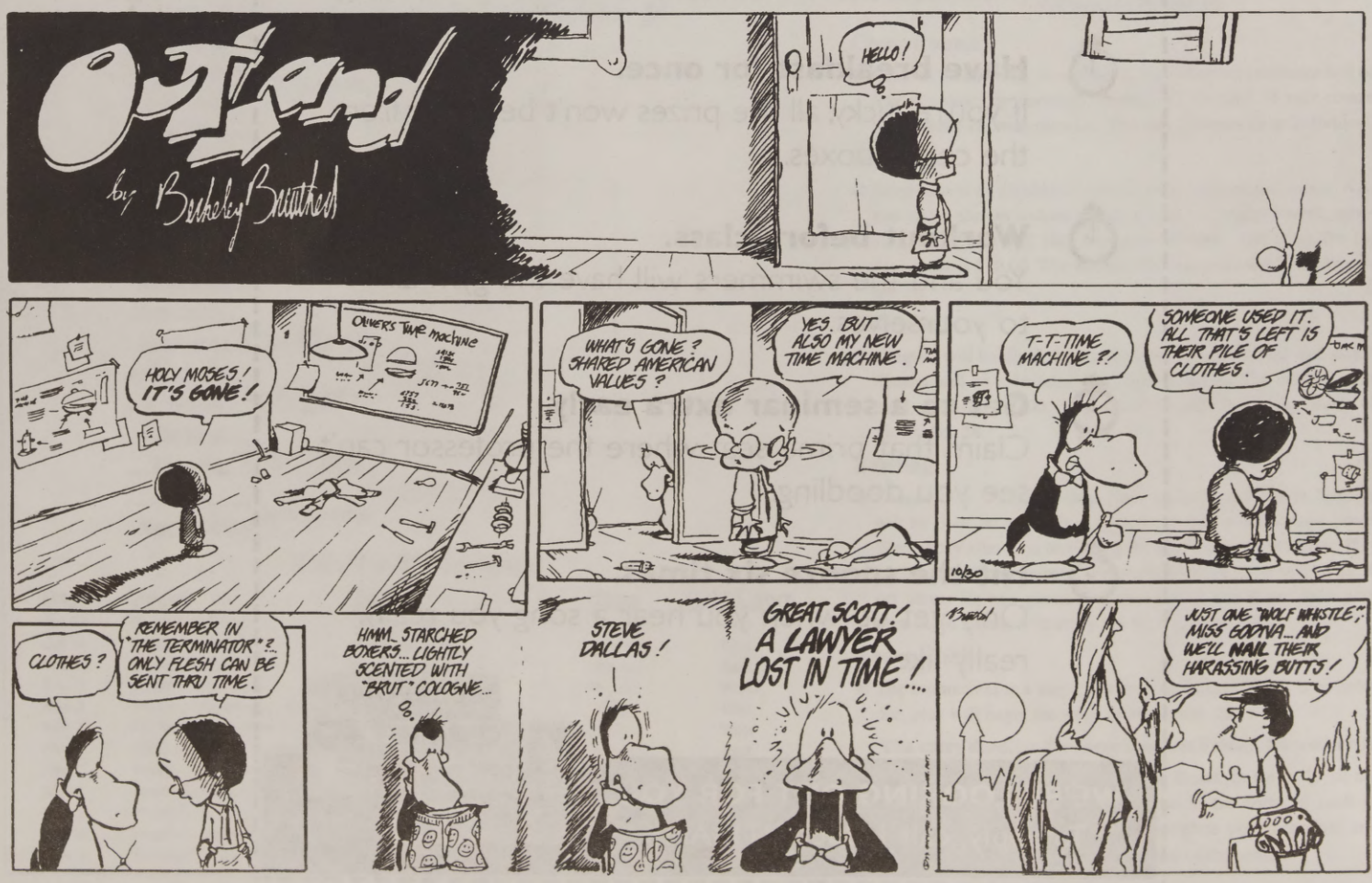
JOIN US FOR A STUDENT FELLOWSHIP SUPPER Wednesday, November 2, 5:30 p.m., at the United Ministries Center, 321 N.7th st. All students are invited for a great home-cooked meal and great fun. Call 232-0186 to register by October 31.

BOWLING AND ICE CREAM PARTY, Saturday, November 5, 1:00-4:00 p.m. Meet at the United Ministries Center (321 N. 7th St.) at 12:30, then off for an afternoon of bowling (free shoes, group discount) followed by ice cream. Call 232-0186 by Nov. 3 to register.

SUNDAY SCHOOL TEACHER'S ASSISTANT NEEDED. A teacher's assistant for a Jewish Sunday school class of 3rd-5th graders is needed. Salary and transportation provided. Contact Dr. Laxer (office: L-123, Box 100, X8429; Home: 460-0638) for more details.

FOR SALE: Billy Joel "Shades of Grey" Laserdisc. Brand new, still in shrink wrap, $30. Contact Mike at 877-2612 or Box 1638.

THE ROSE-HULMAN CHAPTER OF THE NATIONAL SOCIETY OF BLACK ENGINEERS (NSBE) needs your generosity. For the next three weeks, they will be conducting a clothing drive to benefit The Lighthouse Mission. The Lighthouse Mission is a not for profit organization that accepts and distributes donations to needy families. All clothing donations can be made at the 'Donation Stations' which are located in the lobby of each residence hall, the Hulman Memorial Union, the commons area, and in the humanities and social sciences section of Moench Hall. The Rose-Hulman chapter of NSBE is in its second chartered year and is now beginning to make itself known throughout the campus. NSBE would like to thank everyone, in advance, for their consideration and support and inform them that this clothing drive is just a preface to more wonderful activities to come.

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The *Thorn* reserves the right to refuse advertising which the editors judge to be discriminatory on the basis of race, religion or sexual orientation or that promotes violence, illegal activities or is in bad taste.
Submissions may be made at the *Thorn* office (room C216), through the *Thorn* Box 170, or by calling the *Thorn* at ext. 8861. Deadline for submissions is 5 p.m. the Wednesday prior to publication.