

Rose-Hulman Institute of Technology

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Rose Thorn Staff

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THE ROSE THORN

Vol. 29, No. 1

Rose - Hulman Institute of Technology

Friday, Sept. 3, 1993

Welcome Back!!

Welcome to all freshmen, new faculty;

Campus gets minor improvements

by Michael G. Payne
News Editor

The 1993-94 academic year is finally here and the back to school hustle and bustle is in full swing.

There are several new people and developments at Rose-Hulman, the most notable are the 380 new freshmen making it one of the largest freshmen classes ever.

Rose-Hulman also has 14 new faculty members, and William Eccles will be returning to the departments of electrical and computer engineering.

The following is a list of new faculty and the departments that they will join this year: Kurt Bryan, mathematics; Scott Clark, anthropology; David W. Harris, Army ROTC; Harvey B. Jones III, Army ROTC; Patrick P. Kalua, computer science; Sudipa

Mitra-Kirtley, physics and applied Optics; Aaron Klebanoff, mathematics; Reinhard W. Koenig, Army ROTC; Ivonte Markman, electrical and computer engineering; John R. McMahon, Army ROTC; Vojin Nikolic, mechanical engineering; Niusha Rostamkolai, electrical and computer engineering; Mike Rusnack, Air Force ROTC; and James R. Rybarczyk, chemistry

In addition, parts of the campus may look different this year. Anyone visiting the Union will notice that a new handicap access ramp has been constructed. Similar improvements have been completed on Deming Hall, Logan Library and the E. E. Black Recreation Center.

Moench Hall had been recar-



Freshmen and parents learn about Rose-Hulman from the residence hall staff during Freshman Orientation. photo by Michael G. Payne

peted in several areas, and the WCC public area on the first floor of Moench has been changed to the office for graduate studies. In addition, the switch-

board has moved from the front of Moench hall to the lower level near the mailroom.

The entrance of Hadley Hall now has a computer welcome

center, which contains a student/faculty directory and map of campus.

Speed hall has also had carpet installed in rooms and lobby.

Solar Phantom finishes strong at Sunrayce 93; Rose-Hulman places 15th overall

Rose-Hulman Institute of Technology's solar-powered car, The Solar Phantom II, finished 15th out of 34 college teams competing in Sunrayce 93, a seven-day, 1,100-mile race from Arlington, Texas, to Minneapolis, Minn., on June 20-26.

The Solar Phantom was especially strong in the later stages of the race. It was the 11th car to cross complete the 176-mile route from Des Moines, Iowa, to Albert Lea, Minn., on Day 6. It was the 12th car to cross the finish line at the Minneapolis Zoo.

The car improved five places in the standings during the final two days.

"We had a good, dependable car," said Solar Phantom II Project Coordinator Dylan Schickel, a 1993 Rose-Hulman graduate. "Our downfall wasn't mechanically, but with Mother Nature. She didn't give us the one ingredient we needed: sunshine."

Clouds and rains covered four days of the cross-country race. After awhile, teams started referring to the race as "Rain-

rayce 93," instead of Sunrayce 93.

"The students should be proud of their efforts, considering the obstacles they faced," said Rose-Hulman President Samuel F. Hulbert, who handled the checkered flag as the Solar Phantom II crossed the finish line. "They showed great determination and learned invaluable educational lessons in the process."

"The competition was fierce, but we made several good friends," said David Bailey, one of the four team members to drive the solar-powered car.

The University of Michigan was the Sunrayce 93 champion, followed closely by California Polytechnic-Pomona and California State-Los Angeles.

Rose-Hulman students plan to build a new car for Sunrayce 95.

"We'll be back with a better car," said Jonathan Rich, a junior and project coordinator for the 1993-94 academic year. The team plans to compete the Solar Phantom II in either the North American Tour de Sol, a race from Albany, N.Y., to Boston; or the Solar & Electric 500, at the Phoenix International Raceway,

Other significant details about the Solar Phantom's performance in Sunrayce 93:

* Rose-Hulman received a third-place award for being the most energy efficient solar array. The award was presented by the National Renewable Energy Laboratory.

* The car did not sustain a substantial mechanical or electrical breakdown during the week-long competition.

* The Solar Phantom improved upon its 20th-place showing in 1990's GM Sunrayce USA and finished ahead of much-larger institutions such as the University of Texas, University of California, University of Missouri-Columbia, University of Minnesota and Auburn University.



Solar Phantom II waits in line to start at Des Moines, IA.

file photo

next spring -- while constructing the new Phantom.

"We have improved in every race. And, it's such a great educational experience that I can't think we wouldn't return in

1995," said Chip Montgomery, a sophomore from Fort Wayne.

"We have studied some of this year's successful designs (from other colleges) and we'll come up with a competitive car."

Weekend Weather Forecast

Friday	Saturday	Sunday
80% chance of showers	Partly Cloudy	Partly Cloudy
Highs in upper 70s	Highs in low 80s	Highs in low 80s

Campus Calendar

Friday, September 3rd

SAB presents the comedy of Christopher Titus; Hulman Memorial Union, Main Dining room; Sep. 3rd; 8p.m.



Christopher Titus

Sunday, September 5th

Soccer, Albion College, Jim Rendel Field, 1 p.m.

Tuesday, September 7th

Institute Meeting, 4:20 p.m., E-104

Wednesday, September 8th

President's Administrative Council, PA Room, Hulman Union, 8 a.m.

Thursday, September 9th

Faculty/Staff Christian Fellowship, E-204 (Faculty/Staff Lounge), 7:15 a.m.

Registration Deadline For Fall Quarter, 4 p.m.

Friday, September 10th

Soccer, at Principia College, Principia College Invitational, Elsah, Ill., 4 p.m.

Saturday, September 11th

Fine Arts Series, Chenille Sisters, Moech Hall Auditorium, 7:30 p.m.

ATHLETIC HALL OF FAME CELEBRATION

* Induction Ceremonies, 9 a.m., GM Room

* Hall of Fame Luncheon, 11:30 a.m., Main Dining Room (Reservations Required)

* Hall Of Fame Football Game, Knox College, Phil Brown Field, 1:30 p.m.

Next Week

Tuesday, September 14th

Final Date For Schedule Changes

Soccer, at Earlham College, Richmond, 4 p.m.

Senior Orientation, Moech Hall Auditorium, 4:30 p.m.

Saturday, September 18th

Cross Country, at Principia College, Elsah, Ill., 11 a.m.

Up and Coming

SEP. 19 -- Soccer, at Denison University, Granville, Ohio, 1 p.m.

SEP. 21 -- SGA Senate & Freshmen Class President Elections

OCT. 2 -- Homecoming

The activities office and the Wellness Committee is sponsoring a whitewater rafting trip Oct. 14-17. The price is \$150.00 + gas. The price includes two rafting trips, meals, two nights lodging, one night camping wet suits. A \$75 non-refundable deposit is due by Oct. 8. For more information, contact the Union office at Ext. 8346.

SGA elections slated for Sept. 21

by Brian J. Niepokoy
SGA Publicity Director

The Student Government is announcing elections for Student Senate, Freshmen Class President and Vice President of SGA. Petitions are available in the SGA office (D-232) and must be completed in order to run for these offices.

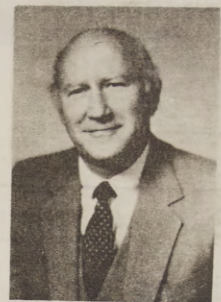
All students may run for Student Senate. A Senator's duties include conveying constituent's ideas to the SGA in twice monthly Senate meetings, debating and voting on budget funding to various clubs and being active in various SGA committees.

Only freshmen may run for the Freshmen Class President. As Freshmen Class President, this student is responsible for planning class activities such as a trip to Kings Island, Six Flags or a canoe trip for the class. He also has the same responsibilities as a Senator and attends all Senate meetings where he is expected to report on class activities.

Because Rob Wallace, the former Vice President of SGA, had to resign to accept a co-op position at GE Aircraft in Cincinnati, a special election for this office will occur on this date. Only Sophomores and Juniors are eligible to run, and this student must be a highly motivated individual. Besides chairing the Student Senate, he shall also preside over Club Council and act in the President's capacity when the SGA President is unable to.

Get involved in your Student Government! If you have more questions or concerns drop by the SGA office, call ext. 8446 or write to RHIT Box 172.

A letter from the President...



Welcome to Rose-Hulman Institute of Technology, the most exciting and innovative place there is in undergraduate engineering, mathematics and science education. Rose-Hulman Institute of Technology's goal is to be the very best undergraduate technological university in the world. With your help we will accomplish this.

Rose-Hulman Institute is committed to undergraduate education, to high standards, to excellent teaching, to providing a broad liberal education in engineering and science, and to a concern for the development of the student as an individual. We are, in brief, committed to creating and maintaining an excellent learning and personal maturation environment for young people. Because of our past success in meeting this commitment, Rose-Hulman continues to be recognized as one of America's premier undergraduate science and engineering colleges.

During the course of its history Rose-Hulman has experienced many changes, both in physical plant, curricula, and attitude. The ten-year period from 1983 to the present represents a particularly extensive and important period of change. The beginning of this period is marked by the completion of Olin Hall, which enabled us to initiate a program to renovate the remaining academic facilities on campus. Perhaps most important, however, was the change in attitude that the Olin Hall project crystallized for us.

The appearance of Olin Hall and the other renovated facilities on campus suddenly provided us with the best facilities of any technical college in the country. An additional bonus of the Olin gift was the ability to provide new equipment for the laboratories in Olin Hall. perceiving the marked effect of these changes on the moral, self-image, and confidence of our faculty, we set a goal to equip the renovated facilities in a comparable fashion to that of Olin Hall, i.e., we embarked on a course to become the best equipped technical college in the country. Very quickly the emerging link between curricular revision and equipment became apparent and we set about the process of establishing the best curricula. Throughout this period we were recruiting very talented faculty members who saw the quality level we had attained and sensed the greatness possible. This process continues today, of course, as we pursue our expanded goal of becoming the best-period.

A parallel event to the completion of Olin Hall was the publication of the report of the presidential Commission on "The Integration of the Computer Into Various Curricula" (1984). This Commission recognized that the computer had revolutionized not only the way in which science and engineering were to be taught but also the environment within which that learning was to be accomplished. It followed that an institution dedicated to achieving excellence in science and engineering education would necessarily need to make the computer an integral part of that educational process. Over the course of the next few years the Institute began the arduous and expensive process of achieving that goal. An Institute standard personal computer (PC) was adopted, PC's were placed at each faculty member's desk, unlimited access to the Institute's mainframe was provided, clusters of PC's were placed in public access areas for student use, and the rudiments of an academic computing network were put in place.

These achievements empowered the Institute's Department of Mathematics to apply for and receive, in 1989, a major National Science Foundation grant to obtain the computer hardware/software necessary to teach calculus and differential equations with symbolic manipulation software (SMS) packages. To accommodate this innovative curricular development the Institute modified two existing classrooms to house 30 VAXstation 2000 workstations. This room which was to serve as the primary classroom was called the Symbolic Manipulation Laboratory (SymLab). By the fall of 1989, four sections of freshmen calculus and two sections of 2nd year differential equations involving about 200 students were utilizing the SymLab. The creation of SymLab was a major milestone in the Institute's move toward making the computer an integral part of the Rose-Hulman educational process. Beginning with the fall of 1992 all calculus and differential equations courses are taught using Symbolic Manipulation Software (SMS).

To accommodate these new computer-intensive programs, the Institute has renovated four additional classrooms, two of which are in Olin Hall, and installed 150 new NeXT computer workstations.

In 1989 Rose-Hulman instituted yet another major curricular innovation, the Integrated First-Year Curriculum in Science, Engineering and Mathematics (IFYCSEM). The IFYCSEM program is the first in the country to present a holistic view of basic science and engineering courses such as Calculus, Chemistry, Physics, Computer Science, and Graphical Communication, coupled with experimentation, discovery and design. The IFYCSEM Curriculum provides a computer-rich learning environment in which the student may utilize the same SMS packages discussed above to perform the complicated, routine, and time-consuming mathematical manipulations that have historically constituted major pieces of the science and engineering curricula. This highly innovative curriculum utilizes the time previously spent doing repetitive mathematical manipulations to focus on the development of mathematical insight and understanding, problem solving skills, and exploitation of the fertile interrelationships among the different engineering and science disciplines.

As larger numbers of students and faculty become familiar with workstations and SMS packages, these tools are being utilized more and more heavily in the laboratories of Rose-Hulman. In the 1989-90 period Rose-Hulman received a larger number of grants under the National Science Foundation's competitive Instrumentation and Laboratory Improvement program than any other college in the country. The majority of these grants were for computer workstations and the equipment necessary to make them function as computer-aided instrumentation devices. Just as the workstations and the attendant SMS packages freed the students from the tedium of routine mathematical computations, the computer-aided instrumentation equipment frees them from spending countless hours monotonously recording and plotting experimental data. Students are now able to address more problems in the same amount of lab time and to address problems that reflect "real world" complexity. The focus is on the development of the human skills of analysis, problem definition, and solution design, not on the observation and record keeping processes better done by machines.

As we continue toward our goal of "Integrating the Computer into Various Curricula", our experience using SMS packages to teach mathematics in science and engineering curricula and our introduction of the Integrated First-Year Curriculum have established Rose-Hulman Institute of Technology as a nationally recognized source of curricular innovation in science and engineering education. Many of the milestones that Rose-Hulman has achieved toward its goal of making the computer an integral part of the learning process have now become the goals of other colleges, and in some instances, secondary school systems across the country. This summer 60 college faculty members and more than 100 secondary school teachers attended seminars at Rose-Hulman to study our innovations in integrating computers throughout the curricula.

The future of computers in the Rose-Hulman curricula points to the requirement that all students have portable workstation units. This will necessitate the networking of the entire campus (residence halls, classrooms and laboratories); this process is now in process and is expected to be completed in 1994.

I am persuaded that you have come to an educational institution which is truly at the forefront of undergraduate engineering, mathematics and science education.

Samuel F. Hulbert

SUMMER IN THE "BIG VALLEY"

by Deeter Allerbain
Thorn columnist

There's nothing in the world that's worse than being uninformed. Except, perhaps, for having to sit around in a frigid movie theater wearing wet jeans. Or maybe receiving a credit card statement informing you that your available credit is a whopping -\$736. Or even being chased by a crazed Nazi knife-wielder in a darkened parking garage and just barely reaching your car in time and realizing as you fumble for the keys that you actually don't own a car and that you only carry keys that fit an old pair of Mattel handcuffs and your gym locker.

But, admittedly, being uninformed is pretty bad.

Yet after an entire summer away from the Queen of the Wabash Valley, many of you are undoubtedly quite clueless as to what has happened in our fair city over the last few months.

There is, however, no need to despair. The *Thorn* would have been remiss to completely ignore the local happenings for the entire summer, especially with the many breaking stories and incredible events that unfold over the course of any given day here in the heartland of America.

Thus, to bring you up to date, we offer a brief synopsis of the Summer of '93:

June - Two men are found shot dead in a car parked along Spruce St. in the lower north side of Terre Haute. Fearing a drug connection, local police trace their leads back to Champaign, Ill. A few days later, as they near the point where they are ready to actually make some arrests, the

alert Tribune-Star staff splashes an update across the front page of the morning issue under the header (I am *not* making this up): "Police get real close".

Not a whole lot else to it, is there?

- The yearly state budget battle begins to rear its ugly head. Gov. Bayh hints that it might be the legislature's fault. The legislature drops clues that Rocky the Flying Squirrel seems to have hatched a conspiracy to create gridlock within the Capitol. An investigation is soon launched.

July - Definite budget problems. Definitely not the Governor's fault. Definitely not the legislature's fault. Obviously Dan Quayle's fault. Resolution to blame Dan Quayle is drafted and passed. Soon afterwards, so is the '94 budget.

- IPALCO really, really, really wants to take over PSI Energy. PSI tries to merge with Cincinnati Power & Light, and threatens to cry.

- The riverboat gambling question comes to Terre Haute. As civic leaders ponder the morality of such sinful games of chance being cultivated so close to our beloved shores, people begin rushing in from the neighboring states as the Powerball jackpot edges on 100 million.

- A West Terre Haute Supervisor is discovered diverting municipal road equipment to a few projects around his home, like his front sidewalk. His neighbors are less than pleased.

- All around, it was simply a peachy summer for the West Terre Haute folks. They lost their drinking water every other week like clockwork, and their basements were flooded just as often.

No wonder their July town meeting nearly turned into a riot.

August - The court rules that PSI's merger with Cincinnati Power & Light is a danged spiffy deal. IPALCO execs are heard mumbling something about not wanting to take over PSI anyway as they turn their attention back to kicking puppies and screwing the government.

- Heavy rain causes levees on Otter Creek and several other rivers and streams in the area to break, putting most of north Terre Haute under water. The Governor comes down a few days later to visit the area, agrees that everything looks pretty wet, orders the National Guard to help in the clean-up, then seizes the opportunity for a unique photograph as he jet-skies across what used to be the lawn of an old Hungarian lady.

- In an earth-shattering front page bombshell, alleged weirdo Gregory Crim admitted that, yes, he stole those several hundred pairs of panties to satisfy certain sexual urges. Gee Wally! Sexual urges!

- A proposal that would allow the residents of Terre Haute to vote on whether they wanted riverboat gambling or not was swiftly killed at an August City Council meeting. Sometimes democracy in action is truly a wonderful thing to behold.

Of course, there was plenty of other stuff happening in the area during the summer. Kevin Orphurt held an Ugly Tie con-

For your edification:

What you hold in your hands is a newspaper. We like to call it the Rose Thorn, but if you don't want to limit yourself, call it whatever you want. The name doesn't matter.

What does matter is that it is your student newspaper. It is funded largely by SGA funds which, in turn, came from you. It is produced and written by your peers; unpaid student wanna-be journalists who volunteer their time and effort every week to make sure that this chronicle carries stories and features about things you need to know: topics of campus-wide importance, happenings in the local community, Division III sports standings, and the opinions of your fellow students about the topics of the day. The staff's goal in each issue is to keep the student body informed and current on each and every issue of local importance.

That's a huge goal and, to realize it, we need your help. More specifically, we need your input. Lots of it.

If there's something you want covered, tell us. If you want a feature added, let us know. If you have a gripe, a complaint, or a comment, send us a Letter to the Editor. If you'd like to play reporter or write a column, send it on in or stop by our office. Have no illusions- you own this paper.

So tell us what to do, boss.

Paul, Chad, Mike, Seth and Paul

test, and though the proceeds were supposed to go to some charity or another, we suspect the funds are being used to rehabilitate *Laugh In* addicts. A guy ran into the Ponderosa on 24th and Wabash with a truck; beatings occurred along the 'Bash with sporadic regularity; a tractor pull came and went. If you weren't in

Terre Haute this summer, you didn't miss a whole lot.

However, if you just read the local papers, you might have anyway.

Disclaimer: The events described in this feature are loosely based on fact. Loosely. In other words, don't quote me.

The Rose Thorn

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The Rose Thorn is published weekly at Rose-Hulman Institute of Technology.

The Rose Thorn welcomes letters and comments from its readers. The Thorn requests that all letters to the editor be 300 words or less. All letters to the editor must contain the writer's signature, class year and phone number. All submissions will be confirmed before publication. E-mailed letters must still contain the writer's phone number for confirmation purposes. The editors reserve the right to edit for grammar and length of any letter over 300 words. All letters must be received before noon Tuesday prior to publication.



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When in doubt... Leave!

by Paul Sigler
Thorn Features Editor

Way back in the time before Beavis; back when Bush was still sort of popular and sideburns were coming back and deficit spending was downright cool, I was a freshman at Rose-Hulman. I recall retaining that status for an entire year—though much else is fuzzy, I'm pretty sure of that one. It was at least a year. At least.

I was in a wonderful program that year called IFYCSEM, often shortened to IC; a spanking new curriculum that had cut its eye-teeth on only one batch of freshman before us. I seem to remember enjoying the program somewhat—there was always plenty to do, and the deadlines were generous enough that we were pretty much assured of getting at least nine or ten hours of sleep.

Per week, of course. But I digress. I mentioned IC only because one of my strongest freshman memories is direct result of an IC fluke.

You see, the Integrated Curriculum consumed three lab peri-

ods per week. One was usually a chem lab. The other was split between physics, graphics and programming.

As for the third... well, we never really knew. I don't think the prof's ever really figured it out either. One of the first things we found out from the other sections each harried Monday afternoon was what type of magic our sore and battered brains would have to work in the floating lab period. Often, it was a simple problem-solving session where we would be given a problem to begin in class and turn in early the following week. It was soon discovered, after a few experiments in oversleeping, that such lab periods could be missed without repercussion provided one got the assignment from a classmate soon afterwards. It got easier to do as the year wore on. Sort of a numbing of the conscience, I suppose.

Anyway, one fine Thursday in March, during that time of year when the breeze is just warm enough to pull you outside to stare wide-eyed and stupidly at squirrels chasing each other cheerily around the gnarled

trunks of newly-budding oaks, I abruptly decided to play hookey. It was 1:25, and on my way out of my room in Deming, I made the mistake of looking out the window.

After that, it was all over. I dropped my folders and calculator in lieu of a paperback I'd been trying to finish for nearly three weeks, grabbed my car keys, and headed out the back door and down the hill.

I was planning on heading toward Deming park, and was indeed almost there when I found myself suddenly heading north on Blakely. Soon I passed Columbia House and DADC, and kept going north, if only because I'd never been that way before.

Soon what had once been Fruitridge was a single-laned, tar-and-chip street, and soon after that, it had dissolved into a bare dirt road. I kept going. The road twisted and turned and almost spun right into a small creek that I had never seen before, then pulled away.

Five minutes later, it was a two-lane backroad heading past alternating cornfields and thick forest stands. I no longer knew where I was going. I no longer cared.

Somehow, I got onto Rt. 36. I stopped at Raccoon Lake Rec. area for a couple hours of reading, and then, for some weird reason, started heading east. A half-hour later, I was in Indianapolis, wondering what the hell I was doing there.

I didn't know. So I headed north to Carmel and had dinner with my aunt and uncle and their kids. It was a nice evening, the food was great, and when I returned that night way past midnight, not having gotten a lick of work done all day, I still felt good. Peaceful.

That little afternoon sojourn ended up giving me one hell of a headache that weekend as I desperately tried to catch up with my assignments, but I never regretted it. I still don't.

Every Rose freshman in this wonderful week of promises and salutations is flooded with lists of Do's and Don'ts by the battle-scarred academic veterans stationed in their dorms. Each mentor invariably preaches his own version of the most important things to do in order to

insure success at this particular institution. Their advice is, more often than not, quite sound, and the newcomers would do well to learn as much as they can from their RA's and SA's before they begin wallowing in classwork. But, if I may be so bold, allow me to enter one more piece of advice into the freshman survival kit.

Leave. To the incoming freshman, I say that even though it's difficult to relate now to the pressures which each of you will face as the year wears on, give me the benefit of the doubt when I say that there will be stress, and lots of it. You will be pressured to get your assignments in on time as well as to harshly force vast amounts of information into your brain in a very short time. You'll be pressured by members of your family who'll sometimes seem totally oblivious of the trials you face; by roommates who seem to sleep and wake at exactly the wrong time every day. There will be times when you'll swear to yourself that if you get just one more assignment due on Monday—just ONE more—you'll simply walk into a Post Office and start shooting.

Whenever I used to drive out the gates on Rt. 40, I would feel nothing short of ecstatic. I was a

prisoner on furlough, and though I knew that I'd have to come back, the pressures and deadlines couldn't touch me outside those gates. Outside was freedom. Peace.

You don't have to skip class to get away from Rose, and you don't even really have to leave campus. From the western end of Speed Lake, even the most atrocious lab report seems tiny, and from Hawthorn park, a mere railroad track crossing away, it is nonexistent. No one escapes from Rose with their sanity without learning their own way to blow off assignments for however long it takes to let their batteries recharge. It's an old art, and it varies within each of us, but we all do it. Learning how to leave your schoolwork behind for a few hours each week is an important part of the overall education that Rose-Hulman promises.

And, if you don't learn to stop and smell the roses now, you'll miss a lot of life—something that can't be bought back with a 4.0.

Or an ulcer.

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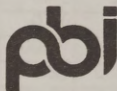
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1993 Football preview: Rose ready for revenge

by Chad Zigler
Sports Editor

"This is a team with good balance and few weaknesses." These were the words of Rose-Hulman football coach Scott Duncan when speaking about the 1993 Fighting Engineers. After finishing with a disappointing 4-6 record last year, the Engineers are out for blood. Says Coach Duncan, "I've never been this enthusiastic about an approaching season. I can't wait to see how we match up against our opponents. This could be a fun season."

Offensively, the Engineers are turning talent and experience to the gridiron:

Junior quarterback Shawn Blach, after an injury-plagued 1992 season, returns to take the snap for the Engineers.

Running backs Anthony Hammack and Jason Wibbels return to complete the talented backfield of the Engineers.

After an outstanding freshman campaign, sophomore Eric Gappa will be a favorite target for quarterback Shawn Blach at wide receiver.

Defensively, the Engineers will

return a strong front line, but questions surround the backfield:

♦ Senior All-ICAC tackle Matt Leach will dominate the line for the Engineers, along with senior end Mike Seals (all-ICAC honorable mention) and junior tackle Matt Lowe.

♦ After sitting out the 1992 season, senior Tony Dall returns to the team to solidify the Engineers up front.

♦ After leading the team in tackles last year (79), junior middle linebacker Todd Sanders will get help from junior hometown favorite Shawn Patterson (Terre Haute South).

And let's not forget special teams:

♦ Senior All-American placekicker/punter Todd Holthaus brings the spotlight to an otherwise overlooked position. He is a scoring threat from anywhere inside 45 yards, and he averaged 33.7 yards on punts in 1992.

♦ Juniors Paul Rogers and Adrian Dunson provide speed and strength on kickoff and punt returns. As a punt returner, Rogers ranked among the best in



During practice on Wednesday, the Engineers put the finishing touches on their game plan. They will open the 1993 season against Washington University on Saturday.

Photo by Chad Zigler

Division III last year. Dunson averaged 24.6 yards on kickoff returns in 1992.

On paper, the Engineers are quite impressive, but they may still be a year away from challenging for the ICAC title. But as everyone knows, anything can happen in such a competitive conference.

Gridders open season historically

The Rose-Hulman football team will open its 1993 season at Washington University Saturday at 7 p.m. - that's right - the first night game in Rose-Hulman history.

Game Facts

Opponent: Washington University (Bears), NCAA Div. III

Time and Place: 7 p.m., Sept. 4, Francis Field, St. Louis, Mo.

1992 Records: Rose-Hulman, 4-6; Washington, 4-6

Series Record: WU leads, 11-8-1

Soccer team opens season, plays two this weekend

by Chad Zigler
Sports Editor

The Rose-Hulman soccer team begins its 1993 campaign this weekend, first taking on Wilmington College on Saturday (3 p.m.), and then matching up against Albion College on Sunday (1 p.m.).

This could be the season the Rose-Hulman soccer team contends for the ICAC championship.

Coach Greg Ruark says, "This team is ready to achieve."

But why all the optimism after finishing the 1992 season at a below par 4-12?

Maybe optimism exists because

the team is returning 22 upperclassmen, including eight starters. Depth and quality are present at every position, and a good group of freshman adds even more talent to the enthusiastic group.

"Our players are hungry for success. It's only a matter of time before they reap the benefits from their hard work," says Ruark, who is in his sixth season at Rose-Hulman.

The Engineers are led by all-ICAC sophomore sensation Gabe Ferland. Playing the forward position, Ferland was one of the biggest scorers in the ICAC in 1992. Six of his team-high nine goals

were in conference matches.

The team is returning a lot of young talent. In fact, midfielder John Haraguchi is the only senior in the starting line-up. He is joined by juniors Son Cao and Roland Pangan.

Other starters include defenders Brian Shattuck, Breck Schimidkofer and all-ICAC player Robb

McGhie; forward Pat Goodwin, and goalkeeper Jason Parker.

Full of talent and enthusiasm, the only concern that Ruark has for his team is their confidence. "We've got to learn how to win. That's the difference between a good or average team," says Ruark.



Rose Sports Trivia



How well do you know Rose-Hulman sports? Now you have the opportunity to test your knowledge of the Fightin' Engineers' history. Just answer the following questions and return the entry blank to **Box 170**.

If you answer all five questions correctly, your name will be entered into a drawing. If your name is drawn, your name will appear in this section of the following issue, and you will receive prizes from a local food establishment (to be named later).

Since the football season is now here, this week's trivia questions will be solely from the football record books.

Good luck!

1. Which Engineer rushed for five touchdowns in two different games (Earlham and Franklin) during a single season?
2. What Rose-Hulman quarterback completed 28 passes against Mount St. Joseph in 1991?
3. What Rose-Hulman quarterback holds the #1, #2, and #3 position in the category of "Most TD Passes in a Single Season?"
4. Who was the Engineers' opponent in the game played on October 18, 1913 in which the Engineers scored an all-time high 121 points?
5. What Rose-Hulman player holds the record for the longest punt return? (Hint: He is still a member of the team.)

Name _____ Box No. _____

Send entries to Box 170 by Wednesday, September 8.

Sports Briefs

Cross Country successful in preseason

Last Saturday's steamy weather (95-degree temperatures, 95% humidity) may have inhibited their performances, but it didn't dim the enthusiasm of the Rose-Hulman cross country team during the Engineers Stomp, a 4-kilometer exhibition meet on campus. Not surprisingly, upperclassmen led the 13-runner field, with senior Brady Neukam and junior Mike Miller tying for first-place honors at 13:42.6. Sophomore Mark Law was third at 13:55, while freshman Joe Head was fourth.

The Engineers are scheduled to compete in the Sycamore Pride meet this Saturday at Indiana State University.

Kicking coach comes to Rose

Rose-Hulman may be the only Division III football team with a kicking coach. Dale Backus, a former place-kicker at Wake Forest, has joined the coaching staff as he studies for an engineering

(see "Briefs" on Page 7)

Colleges Expose Freshmen To 'Real World' Issues

By Karen Neustadt
College Press Service

It is definitely considered cool to join campus organizations these days, and there is more campus unity than ever before, according to a new survey that credits creative freshman orientation programs with sparking student interest.

Programs that range from wilderness treks to New York cultural whirls are in; classroom-style orientations are out. Today's freshman programs also deal with "real world" issues, the University of Puget Sound survey showed, and don't skirt AIDS, alcohol abuse and date rape issues.

"Orientation is not for any other purpose than to prepare students to survive in the real world," said Will Terry, vice president for student services at Davidson College in North Carolina, one of the schools surveyed in the study.

The survey, which included responses from 60 liberal arts schools throughout the nation, reported that more students are in a joining mood, and 49 percent said campus cohesion is improving. Another 27 percent reported that their school's retention rate is improving.

All attributed the changes to action-packed orientation programs.

The programs, which 63 percent of the schools termed "an essential marketing tool," touted a nearly 100 percent attendance rate. The scope of these pro-

grams will continue to expand, the survey predicted, with the addition of optional programs such as security and campus safety.

Fifty-six of the schools surveyed reported that their orientation programs run from three to four days, and 30 percent said they schedule a full week or more of activities. There were no reports of one-day programs; however, some last longer than a week.

For example, at Colgate University in Hamilton, N.Y., the freshman orientation program continues throughout the first semester, with meetings scheduled twice a week on topics of interest to students.

"We prepare students for choices and responsibilities they face as citizens in our campus community," said Sally Campbell, dean of first-year students at Colgate.

Davidson College freshmen also have assignments that last beyond orientation week: They are required to read a book on diversity and they take a six-week course dealing with health issues.

Sixty percent of the colleges reported that they whisk new freshman off to offcampus sites. For example, Puget Sound students leave the Tacoma, Wash., campus and camp overnight, while Colgate University students go on six-day hikes through the Adirondacks.

Freshmen at Grinnell College in Grinnell, Iowa, visit local farms, community service sites

and pack a lunch for a day-trip to a scenic recreational spot, while students at Barnard College tour the Big Apple, taking in museums, theater dates and dinners in New York's ethnic restaurants.

"We are focusing on some key college life issues such as alcohol and tolerance for diversity," said Arlene Hunter, dean of students at Manhattan College in Riverdale, N.Y.

Villanova University in Pennsylvania reported that they added sessions on AIDS and sexual assault awareness to its program this year. Students run portions of the orientation for incoming freshmen.

"This year students will run the workshop on sexual assault and clear sexual communication," said Kathleen Byrnes, director of the program.

About half of the 6,100 incoming students at Texas A&M University will attend Fish Camp, a student-run orientation where freshmen are bused to an encampment in East Texas where they participate in activities that range from "campusology classes" to campfire singing and cheering practices.

Some college officials, however, object to too much structure in the newer freshman orientation programs.

"We've given students more free time so they don't feel pressured to be at too many activities," said Remel Moore, dean of students at Hood College in Frederick, Md.

POP CULTURE BEAT

What's 'Nerd' Mean?

By Deborah Kane Mitchell
College Press Service

Finding words can be a chore if your dictionary is an older edition -- language is an everchanging entity that forces publishers to constantly update dictionaries.

If you own one of the earlier editions, there are probably a lot of words and acronyms you just won't find, such as PC (personal computer and politically correct) and mouse (the computer device).

Some other words you won't find: biodiversity, calzone, goober, radwaste, significant other, virtual reality and hip-hop (Slang, n. The popular street culture of big city and especially inner-city youth, characterized by graffiti art, break dancing and rap music.)

These are just a sampling of the thousands of new words in the new editions of college-level desk dictionaries.

Publishers of these abridged dictionaries such as The American Heritage College Dictionary, Third Edition, and Merriam-Webster's Collegiate Dictionary, Tenth Edition timed the publication dates to be available when students buy their textbooks for the fall 1993 semester.

And don't expect to see the old, clunky run-of-the-mill dictionary/free weights -- these brightly colored books with bold graphics are hard to miss.

"We wanted to make our dictionary as attractive as possible," said David Jost, senior lexicographer and project manager for The American Heritage College Dictionary, Third Edition. The new edition, published by the Houghton Mifflin Company, has more than 185,000 boldface entry words and forms, and 15,000 new words.

"We have the look that's easiest on the eyes," Jost said of the big new edition with a bright blue and yellow striped design on its jacket cover. "Not everyone is thrilled to consult the dictionary. We want to make it a pleasant experience. The information in the dictionary deserves that. It should be easy to get to that information."

The dictionary should provide a complete view of the language, incorporating the latest words and meanings entering the language as well as a basic core of words.

To choose these words, lexicographers spend hours reading everything they can: newspapers, books, journals, periodicals, earlier dictionaries and even menus. They also listen to other media to determine how often words are used and whether they have slipped into the language.

The roughly 40-member editorial team at Merriam Webster Inc. uses a file of 14.5 million citations.

"These words are simply examples of English words used in context," said James G. Lowe, senior editor. "Our editors add to that file at the rate of about 12,000 a month."

If a word appears in several sources over the span of a few years, the word may make it into a new edition. But some words are accepted into the language much more rapidly than others, Lowe said.

AIDS is an example. "It was clear right away that this was a word that would have long-term significance in English," Lowe said.

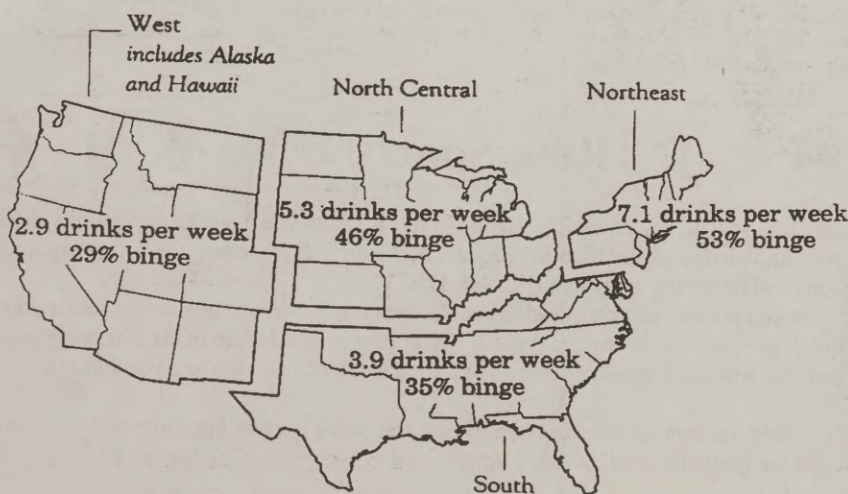
The Merriam-Webster's Collegiate Dictionary, Tenth Edition, has 160,000 entries and introduces more than 10,000 new meanings and new words.

Jost said editors at the Houghton Mifflin Company start with earlier dictionaries when deciding which words should be included in a new edition.

Other words are determined to be obsolete and are dropped. Some of the words that didn't make it into the new edition of The American Heritage College Dictionary, Third Edition include "hodad" (someone who hangs out on the beach and is a surfer groupie) and "holus-bolus" (slang for "all at once.")

Words that have historical significance may be included in the new edition even if they are no longer used. Words such as "glasnost" and "perestroika" are still important," Jost said.

ALCOHOL ABUSE



Average Number Of Drinks Per Week
Percentage Binge In The Previous Two Weeks

By Karen Neustadt
College Press Service

In a sweeping new study on alcohol on American campuses that exposed the nature, scope and consequences of collegiate drinking for the first time, nearly half the students surveyed admitted recent binge drinking prior to the survey.

Forty-two percent of college students in the study imbibed five or more drinks in one sitting, defined by the study as binge drinking in the two weeks before they were surveyed. The study, titled "Alcohol and Drugs on American College Campuses: Use, Consequences, and Perceptions

of the Campus Environment," is the most comprehensive look at chemical dependency among young people in the nation's history, officials said.

The study drew its findings from a database of 56,361 students on 78 campuses from 1989 to 1991, and was authored by Cheryl A. Presley of Southern Illinois University at Carbondale and Philip W. Meilman of The College of William & Mary in Williamsburg, Va.

Drinkers under the age of 21 are more likely to suffer acute physical problems, suicidal moods and actions and poor academic performance, according to the new findings.

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Information & Policies

The *Rose Thorn* offers classified advertisements less than 35 words free to Rose-Hulman students. Students placing classified ads exceeding 35 words will be charged \$0.05 per word for each word over the initial 35. Rose-Hulman faculty and staff wishing to place a classified ad will be charged \$0.10 per word. Any non Rose-Hulman individual wishing to place a classified ad will be charged \$0.20 per word.

For paying customers, the *Rose Thorn* is responsible for only the cost of the first incorrect insertion of an ad. It is the responsibility of the advertiser to check the correctness of each insertion. The *Rose Thorn* will also reprint any incorrect submissions from student ads in the following week's edition only if the student notifies the *Thorn*.

The *Rose Thorn* reserves the right to refuse advertising which the editors judge to be discriminatory on the basis of race, religion or social orientation or that promotes violence, illegal activities or is in bad taste.

Submissions may be made at the *Thorn* office (room C216), through *Thorn* Box 170 or on the NeXT network via:

Thorn_Ads@rose-hulman.edu.

The deadline for submissions is 5 p.m. the Monday prior to publication. Any necessary payment must be made in advance.

Sample Ad

THIS IS AN EXAMPLE of a classified advertisement. The *Thorn* offers classifieds as a service to the Rose-Hulman community. Students are encouraged to use *Thorn* classifieds as a medium for communication with other Rose-Hulman students and faculty.

Classified ads can be run for one to five consecutive weeks. Please indicate on your submissions how long you wish to advertise. NOTE: ads can be re-submitted after at least one week of non advertisement. This is to allow as many people as necessary to utilize this new service

Why Classifieds?

The *Rose Thorn* is introducing classified advertisements into this year's paper to help Rose-Hulman students and faculty buy and sell items without having to take time to make up flyers that eventually get taped onto the walls, windows and doors around campus.

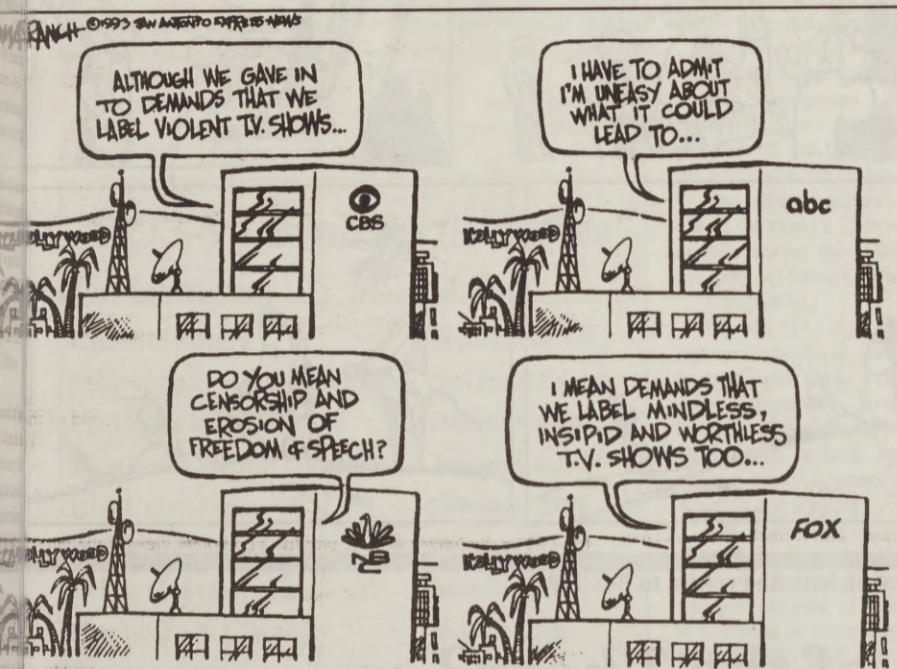
Most students would agree that around the beginning and end of each quarter, the mailroom becomes swamped with flyers advertising things to sell. This type of mass advertising only detracts from the look of the campus. In addition, when the flyers fall down, housekeeping ends up throwing them into the trash or recycling bins. Also, if a flyer is

taped onto the walls, when they are ripped down the paint usually comes off with them, thus forcing housekeeping to re-paint the walls. It's just a big hassle and a waste of money and resources.

By advertising in the *Thorn*, you have a direct market with the Rose-Hulman community, and it's easy to do. Classifieds can be either written, typed or E-mailed to the *Thorn*.

The *Thorn* encourages students and faculty to use classifieds to sell items, to seek out new roommates, to communicate any "personals", etc.

It's quick, it's easy and it's FREE to students.



● "Briefs" (continued from Page 5)

degree at Rose-Hulman. Backus earned bachelor's and master's degrees in music, but wanted an engineering degree to enhance his resume.

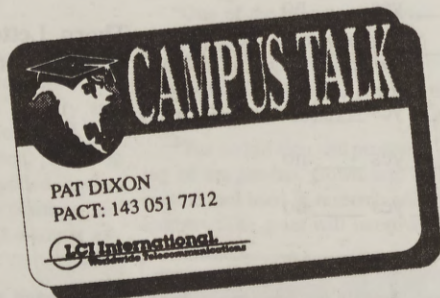
Rose-Hulman is "America's Team"

Rose-Hulman's fall athletic rosters include students from 22 states and three foreign countries. A large portion of athletes come from Indiana, with Illinois (9), Ohio (6) and Iowa (5) high on the list. Other states include Michigan (3), Missouri (3), Florida (2), Minnesota (2), Nebraska (2) Virginia (2), California, Montana, Texas, Louisiana and New Hampshire.

WMHD-FM looking for sports announcer

Rose-Hulman's radio station, WMHD-FM (90.5), is searching for a radio sports announcer to help with the coverage of football games. If interested, contact Craig Cutforth at campus Box 1400, or contact the radio station in the basement of BSB residence hall.

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CAMP OUT OVERNIGHT

with us at McCormick's Creek State Park Sat., Sep. 10, 5 p.m. to Sun., Sep. 11, 5 p.m. Register by Sep. 8 at United Ministries Center.



United Ministries Center

321 N. Seventh Street
232-0186

Welcome... The United Ministries Center is a cooperative campus ministry of...

- American Baptists Churches
- Christian Church (Disciples of Christ)
- Presbyterian Church (USA)
- United Church of Christ
- United Methodist Church
- First Congregational Church
- St. Steven's Episcopal Church
- Trinity Lutheran Church

Programs Include

Discussion Groups - Fellowship Groups - Clown Ministry - Service Projects - Graduate & Non-Traditional Student Groups - Volleyball - Camping Overnight - Student Conferences - Mayan Cultural Exchange Trip to Mexico

The Center is open from 9 a.m. until 9 p.m. Monday through Thursday and until 5 p.m. Friday. It is a place to study, talk, and play. The facilities are also available to campus and community groups



Please detach here and return to Box 170

What did you think of the *Thorn*?

The *Thorn* has undergone some major changes this year, and we'd like to know what you think about our new style.

- Do you like the new physical layout of the *Thorn*? ___ yes ___ no
- Do you like the new services in the *Thorn*, such as:
 - classifieds ___ yes ___ no
 - campus calendar ___ yes ___ no
 - national college news ___ yes ___ no
- Would you like to see more services, such as:
 - job placement information ___ yes ___ no
 - ARA menus ___ yes ___ no
 - entertainment reviews ___ yes ___ no

Let us know what you think of the new Rose *Thorn* by filling out this survey and returning it to Box 170 or by E-mailing your comments to:

Thorn_Letters@NeXTwork.
rose-hulman.edu

If you have any ideas or suggestions for the *Thorn*, let us know by writing your comments below. The *Thorn* wants to serve you better, but we need your input to do it.
