

Fall 10-2-1992

Volume 28 - Issue 6 - Friday, October 2, 1992

Rose Thorn Staff

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Recommended Citation

Staff, Rose Thorn, "Volume 28 - Issue 6 - Friday, October 2, 1992" (1992). *The Rose Thorn Archive*. 838.
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**Welcome
Back
Alumni!**

the Rose Thorn

SEE
**Homecoming
Schedule
of Events**
ON PAGE SIX

NEWS BRIEFS

Rose-Hulman's Mark Williams gets contractors' scholarship

Senior Rose-Hulman Institute of Technology civil engineering major Mark Williams has been named one of Indiana's top outstanding college construction engineering students by the Associated General Contractors of Indiana. The honor includes a \$750 scholarship.

AGCI will honor Williams at a banquet next month in Indianapolis. The Shelbyville native was chosen on the basis of his leadership, scholarship (3.5 grade point average out of

4.0) and construction experience.

Williams is treasurer of Rose-Hulman's chapter of the American Society of Civil Engineers, secretary-treasurer of Blue Key Honorary and is a member of the Alpha Tau Omega fraternity and varsity golf team.

After graduating from Rose-Hulman, Williams plans to study for a graduate degree in transportation or construction engineering at the University of Texas.

Rose chapter of NSPE elects new officers

by Jennifer Rozzi

Rose-Hulman's chapter of National Society of Professional Engineers has elected officers for the 1992-93 academic year.

The new officers are Jon Whitcomb of Terre Haute, president; Dylan Schickel of New Albany, vice president; Eric Brodeur of Loring, Maine, treasurer; and Kyle Arnold of Clayton, secretary.

NSPE members volunteer as tutors for Rose-Hulman's Homework Hotline, a telephone tutoring service for students in the Vigo County School Corp. They also organize activities for National Engineers Week and serve as volunteers for the local Mathcounts contest.

Cliff Grigg, professor of electrical and computer engineering, is the group's adviser.

Rose-Hulman math students to give presentations

Rose-Hulman students Trevis Litherland and Ben Nicholson will be giving presentations this weekend at the 19th annual Pi Mu Epsilon conference held at Miami University in Oxford, Ohio.

Trevis's talk is entitled "On a Maximum Principle for a Fourth-Order Differential Equation". This paper is a result of the Research Experience for Undergraduates (REU) program in which Trevis participated a year ago. The paper discusses a maximum principle for a biharmonic partial differential equation using a Green's

function approach and various aspects of ordinary differential equations.

The title of Nicholson's talk is "Matroids are Coming". The presentation resulted from individual research done here at Rose. Matroid theory, a relatively new topic of study, is an extension of topics in graph theory and linear algebra which leads to some interesting results. Nicholson presentation will give an introduction to matroids plus applications like the greedy algorithm and its relationship with matroids.

Job outlook bleak for the rest of 1992

(CPS) Fourth-quarter hiring among 15,000 U.S. firms will continue at a slow pace, Manpower Inc.'s quarterly Employment Outlook Survey says.

Hiring increases were contemplated by 21 percent of the firms surveyed, while eleven percent intend to reduce their workforce in the fourth quarter, which ends in December.

The pessimistic report reflects a struggling economy and "a continued sense of uncertainty and caution," the temporary help firm said in its report.

Job opportunities in public and private education continue to be scarce. "While the seventeen percent engaging in new

hiring and eleven percent cutting staff levels represent the best outlook in two years, it remains well below that of earlier years," the reports says.

Finance, insurance and real estate seem to be picking up, Manpower said.

The strongest hiring outlooks were reported in the South and Midwest, while the Northeast and West continue to lag.

"We see no signs of a significant downturn but there is little evidence that robust hiring activity will take place," Manpower President Mitchell Fromstein said. "There seems to be a 'wait-and-see' attitude that is likely to prevail for several months."

Homecoming activities in full swing today



Members of the Class of 1996 hard at work constructing the traditional Homecoming Bonfire. The Bonfire is one of the most popular events in the annual Homecoming celebration.

Four days of special homecoming events began last night and will conclude Sunday. Reunion dinners for alumni were held last night and will continue tonight and Saturday evening.

Alumni from throughout the United States are in town for the annual homecoming events that will include opens houses in various academic departments, the traditional homecoming football game and the homecoming concert.

About 180 alumni participated in a golf tourney today at Hulman Links and tonight's pep rally and

bonfire will attract several thousand students, faculty, staff, friends and alumni.

Tomorrow alumni will honor three graduates for their service to Rose-Hulman and the engineering profession at 9:15 a.m. in the Hulman Union (see story on page six for further details). Following the awards ceremony, President Hulbert will bring alumni up-to-date about campus developments during a State of the Institute address.

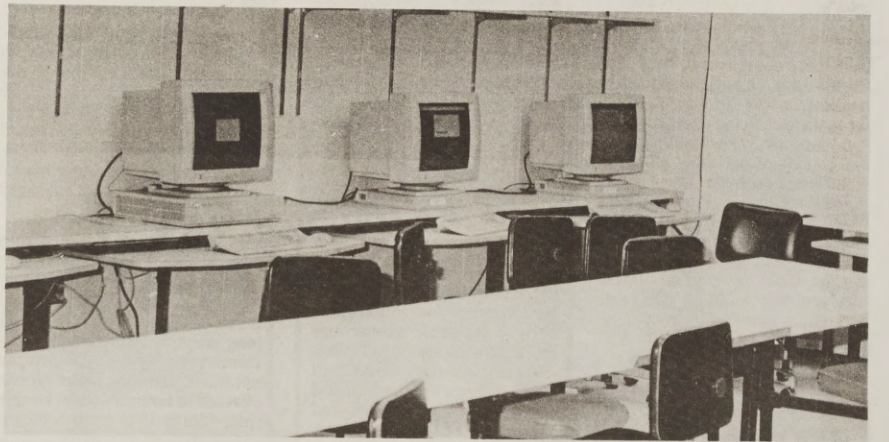
Alumni will have a chance to see new equipment and other facilities Saturday from 11 a.m. until 1:15 p.m. as various depart-

ments and offices sponsor open houses. At 1:30 p.m. the Engineer football team takes on Taylor University at Phil Brown Field.

Following the game, alumni can attend a banquet in the Hulman Union followed by the homecoming concert featuring comedian Carlos Alazraqui and country music band Big Guitars of Memphis. Tickets will be available at the door for the 8 p.m. concert.

An alumni baseball game at noon Sunday at Art Nehf Field will conclude the 1992 homecoming schedule.

Theorodrome provides arena for mathematics



Some of the workstations in the new Theorodrome. The high-level mathematics "classroom of the future" was made possible through a grant from the National Science Foundation's Research Experience for Undergraduates program.

by Andy Nuxoll
Staff Reporter

By now, most students have seen the new Theorodrome located in room G220 of Crapo Hall. This new math classroom consists of 4 DEC station 5000's (Larry, Curly, Moe, and Shemp) and four additional terminals.

In an unconfirmed test, one of these terminals performed three to four times faster than Rose-Hulman's VAX. This means that the Theorodrome's four computers are twelve times faster than the VAX.

The Theorodrome is part of the Andrew File System, and is set up so students log onto it using their NeXT account. The primary software packages available on the "four stooges" are Cayley and Maple. Maple is a computer algebra package like Mathematics, which allows instructors to concentrate less on the steps of solving a problem and more on the concepts of mathematics. Cayley is a "powerful research tool" for mathematics which "enables the user to define an algebraic structure and then 'climb in'."

The Theorodrome was made possible by a grant from the National Science Foundation to Dr. Gary Sherman. Dr. Sherman attributes the grant to two of Rose's accomplishments. Rose-Hulman has had exceptional success with computerizing lower level undergraduate math classes like Calculus and Differential Equations. Since 1989, NSF grants have allowed Dr. Sherman to attract six "national caliber undergraduate mathematics students" to the National Science Foundation Research Experiences for Undergraduates (NSFEU). The resulting research, which is conducted over the summer months, has been published in several prestigious math journals.

The Theorodrome, was conceived to provide a lab for upper level (e.g. non-entry level) math classes. Dr. Sherman has made a point to avoid making the Theorodrome just another Mat-Lab. The terminals have been arranged on the outer walls of the classroom with two large tables in the center of the room. During normal instruction, the students

sit at the tables, away from the terminals. In MatLab and the NeXT labs the students sit at their terminals constantly. Dr. Sherman feels that this constant distraction "disturbs the social dynamics of the classroom". When using the mathematics software is called for, students work in small groups at each terminal. "So far," says Sherman, "my discrete mathematics students have used the computers only four times. By third quarter, we should be using them constantly." Currently, Discrete Mathematics and Number Theory are being taught in the Theorodrome. Eventually, the lab will be used for other upper division mathematics classes. Dr. Sherman stresses that it is not just intended for students in these classes but also for research by faculty and students majoring in mathematics.

When questioned about the source of the name: Theorodrome. Dr. Sherman compares it to the ancient Greek and Roman hippodromes which were arenas for chariot races and other equestrian events. "The Theorodrome is an arena for mathematics."

**CAMPUS
RE-ELECTION '92
RESULTS**
See Page 7

Opinion

America vs. Japan: Are Americans really lazy?

by Chad Zigler
Thorn Features Editor

As the United States continues the search for solutions to the nation's economic troubles, Japan has gone on the offensive and described the average American worker as lazy and unproductive. Is this slander or the truth?

The foundation of this argument doesn't lie in the midst of the political arena (in which it is getting thrown), but instead it originates in the basic differences between the American and Japanese cultures.

Although differences of all sorts are noticeable between the two cultures, one major area difference stands out: work ethic. Americans characteristically want "more for less," while Japanese workers seem to live for their jobs. This is not to say that American workers have no pride in their work, but if it means giving up vacation time to increase

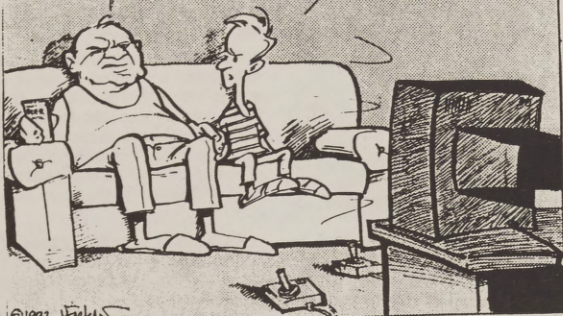
production, which seems to continually surpass the American educational system in virtually every area, does have its faults. Although they may lead the way in the areas of math and science, creativity and imagination is something that doesn't seem to be stressed quite as much in Japanese society as it is in the American classroom.

Maybe this is why the Japanese are often called the "expert copy-cat" of the industrialized world. They always seem to be able to take an idea originated elsewhere, use their efficient technological expertise, and produce a slightly better clone of the original design.

Whether it be because of the lack of motivation or the overabundance of self-pride, American society must humble itself and adopt some of the practices that the Japanese society incorporate in their work ethic.

CAN YOU BELIEVE THOSE JAPANESE? THEY'RE SAYIN' WE'RE LAZY, SON... GET UP AND TURN THE CHANNEL...

AW C'MON, DAD... USE THE REMOTE...



production, they would have no part in it.

When the American work force hears these ideas, they start to lose their composure. They say things like "Enough 'America bashing' already! Let's get at those Japanese for once."

As long as they remain within the bounds of decency, offended Americans do have some legitimate comebacks. For instance, many people say that Japanese workers are loaded down with an excessive amount of work, elevating the stress level to an almost intolerable status. In contrast, American companies recognize this problem, and they try to deal with the problem accordingly.

Moreover, the Japanese educa-

tion system, which seems to continually surpass the American educational system in virtually every area, does have its faults. Although they may lead the way in the areas of math and science, creativity and imagination is something that doesn't seem to be stressed quite as much in Japanese society as it is in the American classroom.

Hopefully this can be done without a drastic change in the number of suicides in the U.S. Nevertheless, Americans can capitalize on their superior creativity if they can only improve their technological efficiency.

Letter to the Editor

Editor:

I live in Blumberg Hall. The night of Saturday, September 26, I trotted over to Sharpenberg to get some ice because we don't have an ice machine.

To my horror, I found that Delta Sigma Phi had raided the ice machine. A friend of mine reported to have seen students with Delta Sig letters loading trash cans full of ice into a truck and pull away.

I pay to live in the residence hall, and I plan to use the facilities that I pay for. I don't pay to keep Delta Sig's beer cold.

Joseph T. Batt

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Election '92 Bush vs. Clinton: Foreign Policy

Until the November election, Thorn columnist Robert Wallace will cover the Presidential candidates' views and positions on different, major issues. Some of these issues will include the economy, foreign affairs, and domestic policies. This column is written with the hopes of making you a more informed voter in November.

One of the things that will be remembered most about this election year, compared to most others in the last fifty years, is the fact that foreign policy will most likely not be greatly discussed. This is unusual since the United States is entering a new period in international relations, one which is most uncertain.

Foreign policy is one of Clinton's weak points since governors of small states rarely meet with foreign ambassadors or diplomats. In fact, in Clinton's hour long acceptance speech at the Democratic National Convention, not more than two minutes were devoted to foreign policy. Despite this, Clinton has been trying to flex his muscle on foreign policy a bit just to show that he is capable of being the country's leading diplomat.

But this has sometimes led to disaster for Clinton. This summer, Clinton tried to attack

Bush's record on Yugoslavia. He said that Bush ought to be doing more to help end the bloody civil war, including bombing raids over Serbia. The Bush administration counter-attacked, saying that such a plan would be reckless and would almost certainly lead to disaster, a view most voters agree with.

Clinton later attacked Bush on the Gulf War, one of Bush's biggest foreign policy achievements. Clinton stated that the war should have been continued until Saddam Hussein and more of his military were destroyed. President Bush once again rebuked this statement in his speech at the Republican National Convention. Bush quoted Clinton, "I guess I would have voted in the majority, but I agree with the arguments the minority made." Clinton said this shortly after Congress gave President Bush authorization to use force in the Persian Gulf.

President Bush has been absolutely astonishing when it comes to foreign affairs, even to the extent of overshadowing Reagan's record. Under Bush, the world has changed quickly and has seen such developments as the emergence of democracy in Eastern Europe, the reunification of Germany, the end of the Soviet Union, the Gulf War, peace in Cambodia, and the Middle East Peace Talks.

Despite these huge successes, many critics insist that Bush has made some errors in his foreign policy. They mainly point to Bush's policy toward China after the Tinnamon Square massacre, the ongoing civil war in Yugoslavia, and the fact that Saddam Hussein still remains in power in Iraq.

The Clinton campaign must remember that a large majority of voters largely approve of Bush's foreign policy and see George Bush as one of the most important and successful international leaders in the world today. Clinton must continue to concentrate on domestic affairs, such as the economy, and avoid foreign policy issues.

George Bush, on the other hand, shouldn't forget about foreign policy as many of his advisers and polls are urging him to do. It is a fact that most voters are more concerned with the economy rather than foreign affairs, but most don't understand how the two are greatly connected. Bush needs to remind voters that a strong economy here at home greatly depends on trade agreements with other countries, such as Mexico. He also needs to constantly remind voters that a weak America in the international arena is almost always a weak America at home.

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The Rose Thorn welcomes letters or comments from readers. Articles, ideas, and announcements are also desired. In view of length constraints, we reserve the right to limit the lengths of comments and use excerpts from letters. All submitted material must be signed. All material should be submitted the Monday prior to publication.

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**DON'T
DRINK
AND DRIVE**

Opinions

Abortion doesn't liberate women

by Christina Diaz

CPS — No matter how the justices said it, the result was clear and unmistakable. In a stunning five to four decision, the justices clearly and completely reaffirmed Roe vs. Wade as a positive judicial decision for our country. Any willingness that the Court had shown in the past few years to rectify the damage done to our nation by the tragic 1973 Roe vs. Wade decision was completely eradicated.

The pro-abortion forces of the country wailed that they were dealt a loss because the court upheld the moderate regulations of the Pennsylvania Abortion Control Act (the Supreme Court upheld regulations supported by a vast majority of Americans, including parental consent, 24-hour waiting period and informed consent.) But the second half of their decision was the strong and vehement reaffirmation of Roe.

Roe has been hailed as a landmark decision. It is also a decision that has cost our generation dearly. Since 1973, abortion, cloaked in the euphemistic terms of "choice," "reproductive freedom," and "a woman's right," has taken the lives of 26 million unborn children. That's roughly the equivalent of one-third of our generation.

Beneath the patriotic and emotion-filled slogans of "a woman's right to control her own body," and "every child a wanted child," lie the cold, hard realities of abortion. The reality of abortion is that with every single abortion, an innocent unborn child loses its life. The abortion not only takes the life of the unborn child, but it forever changes the life of the woman. These are the truths that you won't hear from the abortion advocates. Consider these additional facts:

*The majority of abortions are performed before the twelfth week. By that time all body systems are present and functioning, brain waves are detectable, and the unborn child's heart is beating.

*There are 1.6 million abortions performed every single year. That's 4,320 a day, 180 per hour, three per minute, and one every twenty seconds.

*Abortion poses serious risks to women, both psychological and physical. Some of the physical complications of abortions may be: excessive bleeding and cramping, fever/cold sweats, intense pain, infections, and vomiting. An abortion may also result in a woman's inability later on in life to conceive a child, miscarriages, scarring of the uterus, or even stillbirths.

Aside from the physical complications, abortion can also inflict severe emotional trauma to the woman. Studies have shown that the emotional reactions might include: guilt and extreme depression, anger, rage, suicidal urges, uncontrollable crying and feelings of intense grief, especially when seeing other babies or young children.

These are only a few of the facts that you won't hear at the local abortion clinic. Why aren't women given this basic information before making a life or death decision and undergoing an abortion? Pro-abortion organizations, like Planned Parenthood and the National Abortion Rights Action League, have continually opposed any "right-to-know" bills that would ensure that a doctor be required to give women all the information they need to make an informed decision.

How can the decision to abort, to willfully end the life of an unborn child, be considered a woman's "right" when she is denied full and complete information about the developing unborn child, the alternatives to abortion, and the physical and emotional risks that accompany abortion? True feminism and honest respect for women does not make women feel compelled to kill her own child in order to survive in this society.

The abortion issue tears at the very fabric and heart of what it means to be a society. It affects the very core of what it means to establish a common understand-

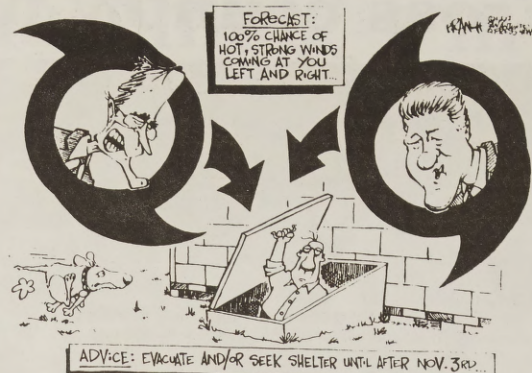
ing and mutual respect for all members of a society. If society is unwilling to respect and protect the most defenseless and innocent of all its members, how can the rights of any member be guaranteed?

Martin Luther King, Jr., one of the greatest dreamers and fighters for equality of all time, one said, "Injustice anywhere is a threat to justice everywhere." That is no less true today than when Dr. King spoke those words. The horrible injustices experienced by the unborn threaten the rights of all people through the erosion of a simple respect for life. If one person's life, that of an unborn child, is indispensable, how can we guarantee that anyone's right to life will be respected?

Abortion advocates tell us that abortion is necessary to improve the quality and status of women. Look at society now. What has improved for women? Percentage of single mothers living in poverty? Increased. Rate of child abuse? Increased. Teen-age pregnancy? Increased. Is this the utopia that the abortion advocates promise us? In my assessment as a feminist, it falls dreadfully short of true equality for women. Abortion has been handed to women as a "quick fix," allowing society to escape its true responsibility to women.

As college students, we are the dreamers. We are the ones who are constantly looking and searching for a way to make this a better world. As pro-life activists, we seek to improve this world by ending the violence and destruction inflicted on our nation through the practice of abortion. We fight to see that this reign of violence ends. We work to provide women facing crisis pregnancies with real choices that are life-affirming for both the mother and child.

We are the ones who have survived this reign of destruction; we are the ones who can make the change necessary so that all human rights are respected, regardless of age, sex, race, religion, or state development.



Enough already

by Chad Zigler
Thorn Features Editor

It's only the first week of October and I'm already sick of hearing about the upcoming election. Why can't politicians follow the saying, "If you don't have something nice to say, don't say anything at all."

I'll tell you why. Politicians are nasty by nature. If there's not enough to keep them busy with the "real" issues, they'll have no trouble with digging in the dirt to get a growl out of the opponent. But why???

Why ask why? This type of campaigning has been around for years. The problem is, the American people seem to pay more attention to the filth than they do to the vital issues that will ultimately shape the course of the nation.

Can't the candidates find anything else to debate about besides the faults of each other? And Vice-President Dan Quayle has taken enough battering. Leave the poor guy alone. Likewise, the issue of Clinton's use of drugs has been driven into the ground. I'm tired of seeing these stupid jokes about inhaling. I would be thrilled if they would just leave each other alone for a month and let the American people get out their shovels and clear a path to the polls in time for the November elections.

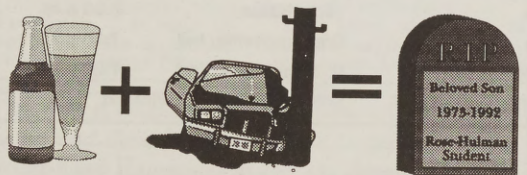
But this is very unlikely. Therefore, voters better "roll 'em up." It's not just mud they're slinging anymore!

Maybe I shouldn't be so sympathetic toward the candidates. They're the ones who chose to be politicians. I just get frustrated seeing nothing but scum in the political arena.

By the way-what ever happened to a good old-fashioned debate? Could the American people benefit from such an event? Not likely. It would just turn into another mud-slinging match. But this time it would be from close range.

I give up! Tell me when it's over.

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RE-ELECT BUSH IN 92
DON'T PULL OUT
IN THE MIDDLE OF A SCREW

Sports

Cross country places third at Beloit

by Marty Malberg
Sports Reporter



Upperclass runners Clayton Duncun, Chris Wilson, Brett Mazany, Mark Stremier, Brady Neukam.

The Rose cross country team placed third in a field of 21 teams at the 30th annual Beloit College Cross Country Invitational on Saturday. They were beaten only by Wheaton College and defending champion Grinnell College. Coach Bill Welch said, "We need some consistency out of our experienced runners though before we can be a contender. We have some experienced runners who are not up in there yet with consistency."

The running surface has always proved interesting at Beloit. But in addition to the usual log and creek jumps that the runners

traditionally confront, there was an additional hazard on the course; hard rains on Friday left the course soggy and muddy.

Top finishers were senior Chris Wilson, who finished 3rd overall at 26:46, just eight seconds behind the leaders, and freshman Bruce Bender, who finished 16th at 27:35. According to Welch, "Chris had another good race and was more competitive than previous meets. Bruce bounced back from the last meet with a much better performance. He gets a couple more 8k races under his belt and he'll have more confidence in himself."

The Engineers will be running at home at 11:00 a.m. against Vincennes University on Saturday.

Research works.

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American Heart
Association



Soccer team returns from Tennessee

The soccer team participated in the first-annual Kyle Rote Jr. Invitational in Sewanee, Tennessee last weekend. The tournament held two more disappointing losses for the team, 2-1 to the University of the South on Saturday, and 3-2 to Ogelthorpe University on Sunday.

But these losses shouldn't be automatically frowned upon. Rose scored more goals this weekend than they had in all their previous matches combined. Freshman forward Gabe Ferland had two of the goals, earning him all-tournament honors. Freshman Robb McGhie and sophomore Roland Pangan also received all tournament honors. Sophomore Clint Smith picked up Rose's other goal.

"WE've played a tough pre-ICAC season," said Coach Greg Ruark. "Our players know we're playing well. We're just not winning matches. Hopefully, the challenges we've had so far have toughened us for the ICAC season. We can still salvage a good season by winning the conference. That's got to be our goal now."

Rose has been playing teams like Denison University and Albion College, both among the best in the Great Lakes Region, enroute to their current 1-7 record. Their only win has been a technical decision against Webster University.

Rose's first ICAC game was Thursday at Anderson University.

Basketball team plans trip to Florida, exhibition vs. Russian squad in '92-93

by Dale Long
Sports Information Director

Rose-Hulman Institute of Technology's Fighting Engineers basketball team might want to change their nickname to Traveling Engineers for the 1992-93 season.

The basketball team is scheduled to play games in five different states this winter, including contests against the University of Tampa and Eckerd College in Florida during an eight-day trip during the Christmas-New Year's holidays.

The 25-game schedule also includes games at Albion College (Mich.), Centre College (Ky.), Rhodes College (Tenn.), and Principia College (Ill.).

Home games are scheduled against Warner-Southern University (Fla.), Centre and Blackburn College (Ill.), Upper Iowa University, MacMurray College (Ill.) and Marion College (Ind.) will join the Engineers in the annual Rose-Hulman Invitational on Dec. 4-5.

An exhibition game is planned Nov. 14 against Belorussia, a traveling team from a province in the former Soviet Union.

Then, there's the Indiana Collegiate Athletic Conference sea-

son, and its first-ever postseason tournament on Feb. 25-27.

The first home league game will be Jan. 13 against DePauw University, coached by former Rose-Hulman Coach Bill Fenlon.

"This is a challenging schedule against quality teams that will, hopefully, get us properly prepared for the demanding ICAC season," said Coach Bill Perkins, who enters his second season with the Engineers. "We were 8-3 in our pre-ICAC schedule last year and won just five games in the conference. I didn't think we were properly prepared for the type of competition in the ICAC, which is one of the nation's top Division III leagues."

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BASKETBALL SCHEDULE

Date	Opponent	Location	Time
Sat., Nov. 14	Belorussia Exhibition	Terre Haute	7:30 p.m.
Sat., Nov. 21	Albion College	Albion, Mich.	3:00 p.m.
Mon., Nov. 23	Warner-Southern Univ.	Terre Haute	7:30 p.m.
Tues., Nov. 24	Centre College	Danville, Ky.	7:30 p.m.
Sun., Nov. 29	Rhodes College	Memphis, Tenn.	4:00 p.m.
Fri., Dec. 4	RHIT Invitational (Rose-Hulman, Marian, MacMurray, Upper Iowa)	Terre Haute	6:30/9:00 p.m.
Sat., Dec. 5	RHIT Invitational	Terre Haute	2/4:30 p.m.
Mon., Dec. 7	Principia College	Elsah, Ill.	8:00 p.m.
Sat., Dec. 12	Blackburn College	Terre Haute	3:30 p.m.
Mon., Dec. 14	Centre College	Terre Haute	7:30 p.m.
Mon., Dec. 28	University of Tampa	Tampa, Fla.	7:30 p.m.
Sat., Jan. 2	Eckerd College	St. Petersburg, Fla.	7:30 p.m.
Wed., Jan. 6	Franklin College	Franklin, Ind.	7:30 p.m.
Wed., Jan. 13	DePauw University	Terre Haute	7:30 p.m.
Sat., Jan. 16	Anderson University	Anderson, Ind.	3:00 p.m.
*Mon., Jan. 18	Concordia University (Wisc.)	Terre Haute	7:30 p.m.
Wed., Jan. 20	Wabash College	Terre Haute	7:30 p.m.
Sat., Jan. 23	Hanover College	Hanover	2:00 p.m.
*Wed., Jan. 27	Manchester College	Terre Haute	7:30 p.m.
Wed., Feb. 3	Franklin College	Terre Haute	7:30 p.m.
Sat., Feb. 6	Anderson University	Terre Haute	3:00 p.m.
Wed., Feb. 10	DePauw University	Greencastle, Ind.	7:30 p.m.
Sat., Feb. 13	Hanover College	Terre Haute	3:00 p.m.
Wed., Feb. 17	Wabash College	Crawfordsville, Ind.	7:30 p.m.
*Sat., Feb. 20	Manchester College	N. Manchester, Ind.	7:30 p.m.
Feb. 25-27	ICAC Tournament	Schedule to be determined	

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Association



Engineers look for Homecoming win

by Jim Broskow
Sports Editor

Just because Taylor isn't in the ICAC doesn't mean that this won't be a competitive game. The last time the Trojans came to Phil Brown Field was Homecoming 1989, when they beat the Engineers by an embarrassing 35-0. In the Hoosier Dome the following year Rosie stomped Taylor 42-13. Last year, in their first-ever non-conference confrontation, the Trojans topped Rose 24-7 in Upland. Both teams finished last season at 3-7, and both teams will take two losses into Saturday's game. Coach Duncan is wary of the Trojans' abilities.

"You've got to look past Taylor's 0-2-1 record. Much like us, they could easily bring a winning record into the game. In my past six years, the Rose-Taylor game has always been a battle that was won by the team that best executes its game plan."

Coach Duncan is preparing the defense for Taylor coach Dave Carlson's Run-and-Shoot offense. "We need to be ready for plays without huddles. We need to communicate on defense." The heart of Taylor's offense is Freshman QB Kenny Locke, who has already completed 66 passes for over 900 yards this season, and senior FB Matt Widdoes, who rushed for 83 yards against Rose last year. Jun-

ior DT Matt Leach will be on the field again, trying to beat the eight tackles that earned senior LB Brian Poole defensive player of the week for the Evansville game.

On the other side of the line, Rose is still refining some of the flaws that can be associated with such a young backfield. "We're getting better. Offensively, our inexperience is showing. The challenge is to eliminate those flaws that seem to crop up and prevent us from scoring." Nonetheless, several underclassmen continue to excel. Freshman TB Jason Wibbels, who was injured in last week's game, is 11th in NCAA Div. III kickoff returns and sophomore

FB Anthony Hammack caught six passes for 44 yards to earn Rose's offensive player of the week.

Of major concern to Coach Duncan are the distractions associated with homecoming week. The activities during the week, the pep rally, and the large crowds at the game are going to

affect the players. "It's like when you really want to excel on a test. You tense up. I don't want the guys to be too tight out there. They play better when they're more relaxed." Duncan hopes the team will react positively with the large home crowds behind them.

The game begins Saturday at Brown Field at 1:30 p.m.



Doug Childers leads by example on line

by Dale Long
Sports Information Director

Rose-Hulman Institute of Technology football player Doug Childers thinks it's time that offensive linemen got some respect.

There's a belief that offensive linemen are dumb, overweight and not the greatest athletes on the team. That might have been true in the 1950s and '60s, but not today.

Just look at Childers.

Dumb? The Lafayette native maintains a 3.4 grade point average (out of 4.0) while majoring in applied optics. He is a candidate for Academic All-American honors this year in NCAA Division III.

Overweight? At 6-foot and 220 pounds, Childers may be small to play center and confront 6-foot-4, 285-pound nose tackles from Wabash College, DePauw University and Hanover College.

Non-athletic? Childers has earned seven varsity letters in football and track at Rose-Hulman, a 1,300-student private college specializing in engineering and science education. He won the hammer throw title at the 1992 Indiana Collegiate Athletic Conference track meet and has started 23 straight football games.

And, to top it all off, Childers was chosen the Engineers' offensive co-captain — an honor bestowed by his fellow teammates. The other co-captain? Offensive

tackle Kevin Ehrenreich.

So there.

"Linemen have got to be alert at all times. They've got to expect the unexpected, because of all the complex defenses we face throughout the season," Childers said. "I love the competitiveness, the physical and mental challenges and the satisfaction of winning."

Rose-Hulman will play Taylor University this Saturday in the Engineers' annual Homecoming game at 1:30 p.m.

A standout on the football field, collegiate track and in the classroom, Childers refers to himself as "the total package." He believes he's a better student because of his athletic successes. Conversely, he's a better athlete because of his academic work.

"The two (athletics and academics) go hand-in-hand," he said. "It takes several elements of a good team to win the football game: offense, defense and special teams. All of the players have to be focused on accomplishing the team's goals. It also takes a good team of quality students to finish a research project. Everyone has to do their job, like on the offensive line." That hard work is appreciated, according to Robert Bunch, associate professor of physics and applied optics.

"Doug knows what has to be done. He's very focused and committed to whatever he sets his

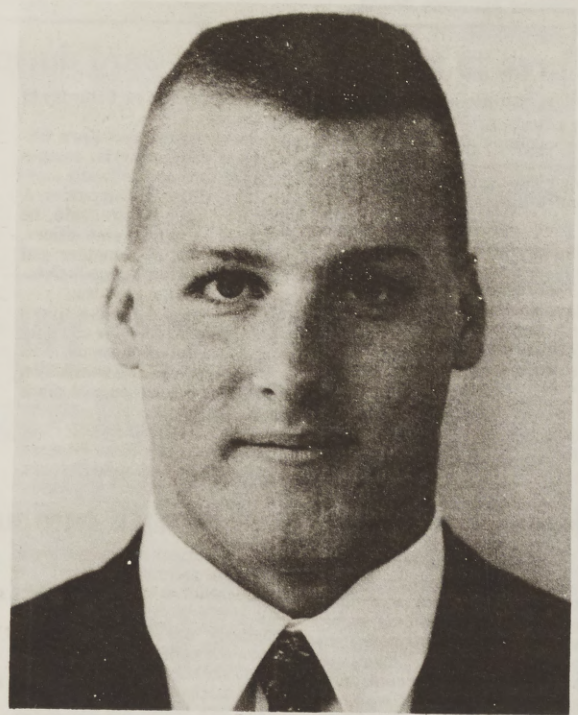
mind to do," said Bunch, who has worked with Childers in research projects involving fiber optics.

Applied optics is why Childers is at Rose-Hulman in the first place. He could have attended Harvard or the U.S. Air Force Academy, but chose Rose-Hulman due to its applied optics curriculum. He is interested in embedded fiber optics and spent this past summer working on secretive military research projects at Battelle Corporation's Pacific Northwest Laboratory in Richland, Wash. He may attend graduate school next year to expand his knowledge in the area.

Back to football, Childers is partially responsible for the success of Rose-Hulman's offense on every play. He has a long checklist of duties: everything from recognizing the opponents' defensive alignment, calling out Rose-Hulman's blocking plans and listening for audibles from the quarterback. Then Childers hikes the football to the quarterback.

That's when things really get interesting.

"Fans don't get to see the good stuff," Childers said. "I've been poked in the eye, had a finger



Doug Childers

shoved into my mouth and had my head banged around quite a bit. And, the language. My mother wouldn't like some of the things I've been called over the years.

"But I love the confrontation," he said. "We're fortunate to have

five engineering students on the offensive line. They're all bright and talented. I'm confident we'll make the proper adjustments and get the job done." Talking like a proud, smart and athletic offensive lineman.

ROSE-HULMAN FALL SPORTS SCHEDULE

SATURDAY, OCT. 3

FOOTBALL — TAYLOR UNIV., PHIL BROWN FIELD, 1:30 P.M. (HOMECOMING)
CROSS COUNTRY — VINCENNES UNIV., ROSE-HULMAN COURSE, 11 A.M.
SOCCER — ALUMNI GAME, JIM RENDEL FIELD, 11 A.M.

THURSDAY, OCT. 8

SOCCER — AT MacMURRAY COLLEGE, JACKSONVILLE, ILL., 4 P.M.

SATURDAY, OCT. 10

FOOTBALL — AT DePAUW UNIV., GREENCASTLE, 1:30 P.M. (ICAC)

TUESDAY, OCT. 13

SOCCER — DePAUW UNIV., JIM RENDEL FIELD, 3 P.M. (ICAC)

WEDNESDAY, OCT. 14

JV SOCCER — VINCENNES UNIV., JIM RENDEL FIELD, 4 P.M.

FRIDAY, OCT. 16

CROSS COUNTRY — AT INDIANA INTERCOLLEGIATE MEET, WEST LAFAYETTE, 3 P.M.

SATURDAY, OCT. 17

FOOTBALL — AT FRANKLIN COLLEGE, FRANKLIN, 1:30 P.M. (ICAC)
SOCCER — HANOVER COLLEGE, JIM RENDEL FIELD, 11 A.M. (ICAC)

SATURDAY, OCT. 24

FOOTBALL — AT HANOVER COLLEGE, HANOVER, 1:30 P.M. (ICAC)
SOCCER — WABASH COLLEGE, JIM RENDEL FIELD, 11 A.M. (ICAC)

TUESDAY, OCT. 27

SOCCER — AT FRANKLIN COLLEGE, FRANKLIN, 3 P.M. (ICAC)

SATURDAY, OCT. 31

FOOTBALL — AT WABASH COLLEGE, CRAWFORDSVILLE, 1:30 P.M. (ICAC)
CROSS COUNTRY — AT ICAC CHAMPIONSHIPS, HANOVER, 11 A.M.
SOCCER — AT MANCHESTER COLLEGE, NORTH MANCHESTER, 2 P.M. (ICAC)

SATURDAY, NOV. 7

FOOTBALL — ANDERSON COLLEGE, PHIL BROWN FIELD, 1:30 P.M. (ICAC)

SATURDAY, NOV. 14

FOOTBALL — AT MANCHESTER COLLEGE, NORTH MANCHESTER, 1:30 P.M. (ICAC)

SATURDAY, NOV. 21

CROSS COUNTRY — NCAA DIV. II FINALS, NEW YORK, 11 A.M.

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"What Ever Happened to the 1st Amendment?"

WED., OCT. 7 at NOON ★ **Open Discussion**

Speaker: JAMES DUNN *Executive Director, Baptist Social Committee on Public Affairs, Washington, D.C.*

United Ministries Center, 321 N. 7th St., Terre Haute, IN

PROGRAMS ON SUCCESSIVE WEDNESDAYS WILL BE:

- Church, State & Culture in the Schools
- From Coercion to Persuasion to 'Majoritarianism': Continued Problems of Minority Religious Freedom in America
- Public Religion and the Presidential Election Campaign
- Civil Religion & Internationalism
- The Mean Season: The Attack on Welfare

Each session lasts an hour. Bring a brown bag lunch.

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Campus News

Saturday's Homecoming Show Performers



Comedian Carlo Alazraqui and country music band Big Guitars from Memphis will be featured during the annual Homecoming Show, 8 p.m., Saturday, in Shook Fieldhouse. Alazraqui is a California comedian who specializes in vocal and physical impressions. Big Guitars from Memphis plays a variety of country and rock music. The Homecoming Show is sponsored by the Student Activities Board.

Three to receive Alumni Award during Homecoming

Rose-Hulman will honor three graduates Saturday during homecoming activities for their service to the college and their contributions to the engineering profession.

Recipients of the 1992 Honor Alumni Award will be Ray Frischkorn, president of Korn Enterprises, Cedar Rapids, Ia; Louis Kelley, retired AT&T systems engineer, Lewisville N.C.; and William Serban, retired vice president and treasurer, Wabash Products, Terre Haute.

The award is the highest honored bestowed by the Rose-Hulman Alumni Association. It will be presented during an alum-

ni brunch at 9:15 a.m. Saturday in the Hulman Union.

Frischkorn founded Korn Enterprises which provides computer hardware and software services to 30 different companies. A 1965 Rose-Hulman graduate, he has been an alumni club officer, Centennial Fund volunteer and class agent for the college's alumni association for 19 years.

Kelley, a 1949 Rose-Hulman graduate, created voice and data communications systems, economic analysis of communication systems and maintenance plans for data systems during a 36-year career with AT&T. His volunteer efforts with the Rose-Hulman alumni association span 23 years.

He was president of the RoseTech Alumni Association in 1987 and has served as a class agent, alumni club officer and reunion chairman.

Serban is a retired vice president, treasurer and director of Wabash Products. He retired in 1985 after a 46-year career with the local manufacturer of industrial coatings and specialized finishings.

The 1938 Rose-Hulman graduate has been a volunteer leader for the college's alumni association for 17 years. He has served as a class agent, reunion co-chairman and volunteer during capital gifts and Centennial Fund campaigns.

Rose-Hulman progresses with campus improvements

by Phil Stolz
Staff Reporter

Every summer Rose-Hulman spends considerable time, money and effort in order to make campus improvements. This past summer was no exception. A great deal of effort was concentrated on the residence halls and the Union area.

For example, in Speed Hall, all of the doors were replaced for a cost of around \$30,000. New beds and mattresses were also purchased for Speed for a cost of about \$23,000. The rooms in BSB Hall were all carpeted for \$22,000. The school also purchased lounge furniture and oak desks for \$20,000.

It was also necessary to have all of the upper classmen halls re-roofed this summer. This venture brought on a cost of about \$36,000. New steam lines were also put in between the Union and the upper classmen halls. This operation cost over \$200,000. The school also repainted about 40 or 50 of the

rooms in various halls which were in need of painting.

The school also keeps busy during the school year by continuously making efforts to improve the campus in various aspects. The school has ordered new round tables for the dining room. These new tables will seat seven or eight people and should arrive sometime this month. The school is also awaiting arrival of 100 new chairs for the Union. These are expected to be here sometime next month and were purchased for about \$15,000.

The school is also planning to replace the showers in Mees within the next few weeks for a cost of around \$32,000. The showers in Sharpenberg are also up for replacement sometime in the near future.

The progress of the computer networking system here on campus has been substantial. The fiber optics link ups are all in place. It is now only a matter of installing the final hardware. This is a very expensive process, however,

and a completion date has not yet been set. It is more likely to be regarded as on-going process.

The decisions pertaining to what gets done and when are generally made by Mr. Pete Gustafson. Mr. Gustafson, with the student affairs office, listens to recommendations and requests from all persons involved and then considers budgetary constraints before a final solution is proposed. Some of Mr. Gustafson's future hopeful projects deal with replacing one half of the present fire alarm system in the residence halls and hooking it up with Rose's present Security. Total cost is estimated to be about \$70,000. Also up for consideration is the replacement of the dishwasher in the Union for an estimated cost of about \$40,000. The school would also like to see the carpeting of Speed Hall and the replacement of the desk chairs in BSB Hall. Also up for consideration is the placing of full length mirrors in all of the residence hall rooms.

Freshman class president and SGA senate election results

by Michael Payne
SGA Executive Director

The list of class presidents is now complete. On Tuesday, September 29, the class of 1996 elected Clayton Epps as their president with a total of 47 votes. The election was close, with only a three vote margin separating the first and second places. Voter turnout was

moderate with 43.9 percent of the freshman class getting out to vote for their class president.

The SGA student senate for 1992-93 has also been elected. This year's student senate will have 40 senators from the various districts on and off campus.

A complete listing and breakdown of the freshman class president and SGA student senate election results will be posted outside the SGA office (D232) for the next couple of weeks. All Rose students are invited to stop by and view the results to determine who their student senators will be for 1992-93.

1992 HOMECOMING SCHEDULE

Friday, October 2

- 8:15 a.m. Registration, Alumni Golf Tourney, Hulman Links
- 9:00 a.m. Golf Tourney Begins
- 6:00 p.m. 50+ Club Dinner - Hulman Union Reunion dinners (throughout the city) for classes of '41, '47, '52, '62, '67, '72, '77, '82' and '87.
- 8:30 p.m. Pep Rally and Homecoming Queen Coronation Shook Fieldhouse
- 9:15 p.m. Homecoming Bonfire - west of Phil Brown Field

Saturday, October 3

- 8:30 a.m. Annual Alumni Meeting - GM Room Moench Hall
- 9:15 a.m. Honor Alumni Awards Brunch - Hulman Union
- 11:00 a.m. Departmental Open House Cross Country meet - vs. Vincennes University Alumni Soccer game - Jim Rendel Field
- Noon Fraternal Luncheons
- 1:30 p.m. Football vs. Taylor University
- 6:00 p.m. Homecoming Buffet - Hulman Union
- 8:00 p.m. Homecoming Concert - Comedian Carlos Alazraqui and music by country band Big Guitars from Memphis - Shook Fieldhouse.

Sunday, October 4

- Noon Alumni Baseball game - Art Nehf Field

News Wire . . . ISU to coordinate World Food Day teleconference

Indiana State University will be coordinating World Food Day activities focused on the National Teleconference Saturday, October 3.

The teleconference will feature a panel of experts in the area of nutrition and the links between food, health, and economic development. Viewers from the U.S. and other countries will be able to interact with this panel.

The program is divided into 3 parts. From 11:00 a.m.-12:00 p.m. the national program will be televised. The local program is being organized by the graduate students form the Community Nutrition class, HE 622 and will be from 12:00-1:00 p.m., followed by a question and answer period from 1:00-2:00 p.m., between the local participants and the national panel which includes: James Grant, Executive Director of UNICEF; Fernando Monckeberg, President of the Chilean Infant Nutrition

Foundation; Wynante Patterson, Director of the Caribbean Food and Nutrition Institute; and Per Pinstrup-Anderson, Faculty of Nutritional Science at Cornell University. CNN correspondent Deborah Potter will act as moderator of this national panel.

This unique opportunity to interact with experts in the area of nutrition is being organized by Dr. Rao Iraturi and the students of World Hunger and Nutrition and the Community Nutrition classes. This event is co-sponsored by the Department of Home Economics and the Department of International Studies.

The location for the teleconference is Cunningham Memorial Library, Room B-45. Check in is at 10:45 a.m. Continuing Education Credits are available through ADA, AHEA, Clergy, and Social Work. For further information contact Dr. Rao Iraturi at (812) 237-3312.

Christmas at the Woods tickets available

Tickets for Christmas at the Woods, the annual Saint Mary-of-the-Woods College (SMWC) holiday dinner theater, are now on sale in the SMWC Public Relations office in Guerin Hall.

The music-filled event is scheduled for 7:30 p.m. Wednesday, December 2 through Saturday, December 5 in O'Shaughnessy Dining Hall. Guests will enjoy traditional

holiday treats during a multi-course meal and are invited to join as the College Chorale and Madrigal Singers perform Christmas carols.

Tickets for Christmas at the Woods are priced at \$25 per person and may be reserved by telephone.

For more information or to make reservations, call the SMWC Public Relations office at 535-5212.

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Democrats, Republicans take off the gloves

by John Williams and Karen Neustadt

(CPS) - The fight for the presidency has moved from the convention halls to the towns, cities and campuses across the United States, particularly key states in the Midwest. And the 1992 campaign is shaping up as a bruising battle on issues of the economy, trust and family values.

President Bush and Vice President Dan Quayle received the official go-ahead from the party faithful at the Aug. 17-20 Republican convention in Houston. Bush and Quayle want four more years to push their agenda of less government and lower taxes.

Democratic presidential candidate Arkansas Gov. Bill Clinton and his running mate, U.S. Sen. Al Gore of Tennessee, maintain that after 12 years of Republican presidential leadership, a change of party and philosophy is needed at 1600 Pennsylvania Ave.

The race for the White house includes winning the hearts-and-votes of college and university students. While historically the 18-24 age group has had the lowest voter turnout of all age groups, both parties have made it clear the youth vote is important.

And that fight is being held on college campuses across the United States. College Republicans were out in force at the Republican convention in Houston, as was the Republican Youth Coalition, controlled by college Republicans.

About 500 College Republicans helped run the show at the convention, said Mandy Innis, national first vice-chairman of the College Republicans. She said many of them got on the convention floor each night and were active in helping out with logistics.

Innis, who graduated this year from the University of Texas-Austin with a degree in international business, said two main issues that face students are the economy and jobs. Like many other Republicans, she blamed Congress, not Bush, for the stagnant economy and other social problems.

She doesn't have a job yet, but is hopeful she will find one. And what impresses her most is that "I feel strongly that the world is free now, and policies both President Bush and (former president) Reagan helped with that," she said. "The president is committed to a safe world."

While such phrases as "family values" and "lower taxes" were bandied about the Astrodome in Houston, neither Bush nor Quayle made direct mention of any higher education issue during their keynote speeches. However, prior to the convention Bush had said he intended to make education one of his highest priorities.

During his acceptance speech

in Houston, Bush said: "Improve our schools so our kids can get the education they need to succeed. Let's help these kids."

Tony Zagotta, chairman of the College Republican National Committee, said it is the Democratically controlled Congress, not President Bush, that's responsible for the current economic woes.

While the job market has not improved for college students, "I don't put the blame on Bush, but on the Congress. Young people feel that way. The president's polling numbers for this age group are the best he has. Young people appreciated the Republicans' approach to free trade," he said. "Of course there are problems, but there is a lot of opportunity out there."

What concerns college students, Republican student leaders say, are the economy, jobs and foreign policy.

Democratic student leaders said students are interested in the environment, abortion, student loans and the economy.

"Republicans aren't addressing the concerns of young people," said Jamie Harmon, president of the College Democrats. "Republicans don't have a message that speaks for the young people. Democrats have a plank for change. Young people know George Bush has failed."

A major issue that divides the Democratic and Republican planks is abortion. The Democratic platform supports the right of women to choose, while the Republican platform supports a constitutional amendment banning abortion.

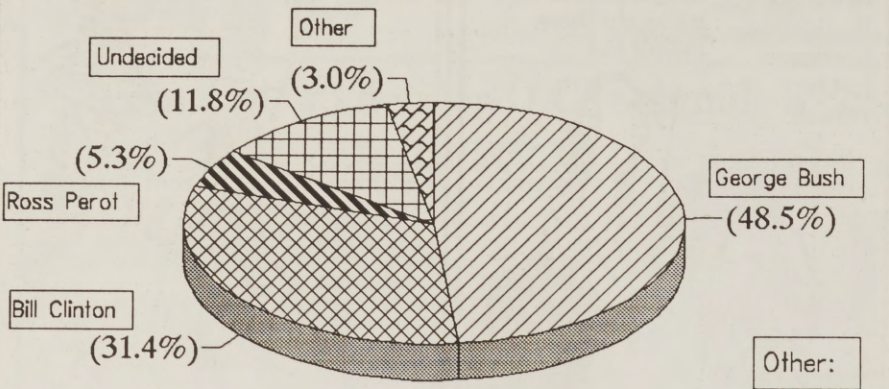
Another area is the economy. Democrats blame Bush for not using his office or his personal popularity to do anything constructive for the economy, aside from supporting tax cuts for the wealthy. Bush blames the Democratic majority in Congress for blocking various proposals that he believes would get the economy moving again.

"I think that the Republicans have been giving young people the one-two punch," Harmon said. "We have the largest student loan debt in history and the worst job market in 20 years."

The campaign promises to be a rough one, with both sides attacking and counter-attacking on the economy, family values, social issues and even spouses. And the jabbing, some analysts said, could turn off college students to the election process.

"It's going to be ugly. I wonder how it's going to affect young people," said Evan McKenzie, a professor of political science at Albright College in Reading, Pa. "I don't think young people like this."

ELECTION '92: Pre Election Results



Rose-Hulman pre-election poll results. The poll is based on a 33 percent response of the student body. The poll was conducted by the Rose Thorn staff.

- Other:
- Bill Bradley
 - Bill the Cat
 - Jon Anderson
 - Snoopy
 - Mickey Mouse
 - T. Songus
 - Neither
 - "I don't care"

Get them on the rolls, get them to the polls

by John Williams

(CPS) Democrats want you. Republicans want you. Rock stars and celebrities want you. Public affairs organizations want you. Politicians want you.

What those want from you is simple: If you are 18 or older, you can vote. But to vote, you must first be registered. And if you are a typical college, between the ages of 18 and 24, you represent a segment of American culture that is perceived as being not likely to vote or to participate in the political process.

"Students tend to feel left out. Candidates don't appear to be addressing the issues that are of concern to students," said Becky Cain, president of the National League of Women Voters. "On the 20th anniversary of the right for 18-year-olds to vote, this group has the least percentage voter turnout than any other age group."

"Get them on the rolls, get them to the polls," said Mike Dolan, field director for the California-based Rock the Vote, a non-profit, non-partisan organization that has organized student voter registration drives nationwide.

Top issue that appear to be of concern to college students on the national level include the economy, the environment and abortion rights, activists say.

If students want to address these concerns, they must first register to vote, registration organizers say. That way, they can vote for candidates who most closely represent their ideals and ideas of what government should be and what issues the representatives should address.

According to the Census Bureau, 26 million men and women in the 18-24 age group are eligible to vote, and approximately 40 percent of this group is registered. Among college students who are registered, 80 percent vote, said Jamie Harmon, president of the College Democrats of America.

"Many students don't feel they are a part of the American community. They don't have families yet, they don't have sunk-in roots, so they are not as politically active," Harmon said. "Political participation increases with age. We want to show students today that the political and government system isn't a joke."

The College Democrats are

organizing a Victory Vote program on campuses nationwide, with the goal of registering 50,000 students this fall — ideally as Democrats. Having targeted about 500 colleges and universities in 15 states, the College Democrats plan to hold rallies, get publicity and have politicians from the local and national levels speak

with abortion. Dolan, field director of Rock the Vote, said his organization is also working at the grassroots level to get students to register. Rock the Vote was founded in 1990 by leading record labels and musicians in response to perceived threats to artistic expression. It has since been broadened to include voter



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to students.

Harmon said national polls show students identifying with the Democratic Party, and said the main concerns on campuses include educational issues and student loans, abortion and the environment.

Tony Zagotta, national chairman of the College Republicans, said polls indicate the 18-24 age group favors Republican views toward government, society and the economy. His group will be working at the grassroots level on campuses, and won't be using celebrities or rock stars to attract potential Republican registrants.

College Republicans will be going door to door to get students to register or vote by absentee ballot, Zagotta said. He called the Republican's one-on-one approach a "tremendous opportunity" to get students to register in his party. The Republicans, he said, see students' concerns as being the economy, foreign policy and abortion. He said polls have shown the 18-24 age group is "not comfortable"

registration, especially for young adults, Dolan said.

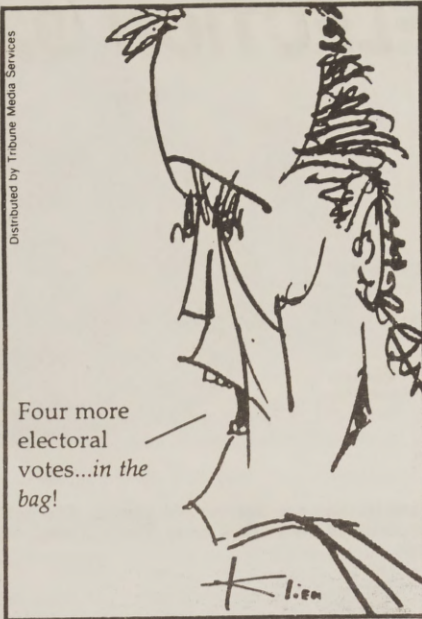
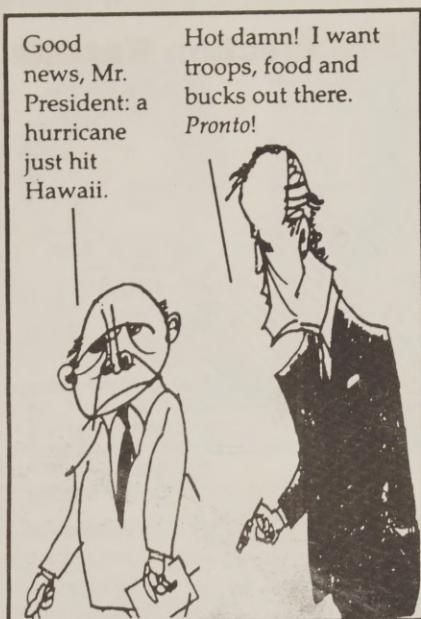
Musicians and movie celebrities will go to campuses and hold rallies to make students aware of the political process and urge them to register.

"Having stars and musicians involved is intensive. It makes voter registration sexier," he said. "Celebrities want to get involved, and when they do, it makes political participation a little cooler."

Rock the Vote has registered approximately 100,000 young people in the past two years, he said, and many college and university students are included in the numbers. What concerns young people, he said, is having access to "the system," or being heard by politicians.

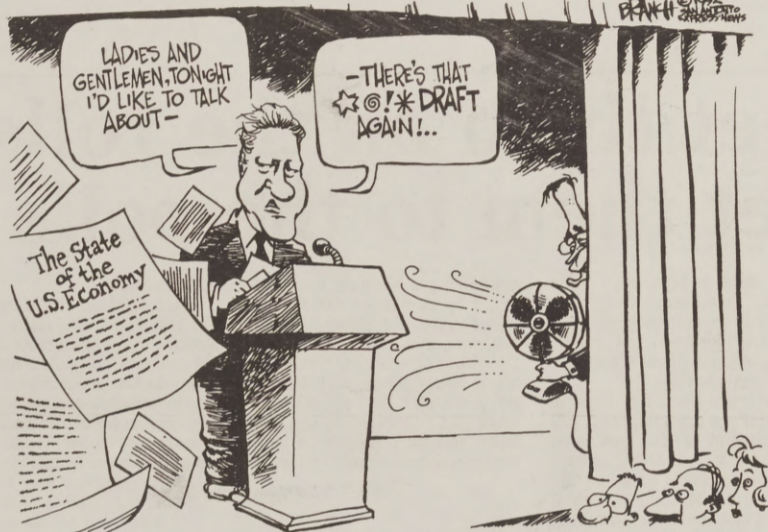
"We have seen the basic issue, and that is empowerment and access to the system," Dolan said. "Many politicians don't want young people voting, since young voters have no patterns of voting and are unpredictable. That makes politicians nervous."

Comics



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The September Problem

Nacer E. Abrouk, Department of Mathematics
Rose-Hulman Institute of Technology,
Terre Haute, IN 47803 USA

There are many situations in which an attempt is made to place something at a specific point in space or in a plane.

For example, an electron beam is focused on a phosphor screen, a robot positions a chip on a PC board, or an astronomer measures the location of star. Let O represent the point to be located. If there are no errors, the point O is found every time.

However, errors occur randomly, and a different location is selected instead of the point O .

Consider the electron beam problem. We are interested in describing the probability that observations occur within a circle of radius r centered at O (this is the 2 dimensional problem).

A solution of the 2 dimensional problem is worth 5 dollars (paid to the first person who comes up with the solution).

