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GO ROSE BASKETBALL BEAT RHODES

the Rose Thorn

Impact of Change Symposium Jan. 21

News Briefs

CE project involves creation of expert systems

by Jeff Valput

The Civil Engineering Department is currently undertaking a project dealing with the creating of expert systems.

Problems in civil engineering aren't always quantifiable, such as oil exploration. Many factors are involved such as the choice of a good sight, the interest of the oil companies, and entrepreneurship. There are also political issues to be tackled. Finding the solutions to these types of problems requires experts in these various areas.

Expert systems will reduce or eliminate the need for actual experts. An expert system is basically an interactive computer program which will allow a non-expert to operate like an expert.

These systems are created using the knowledge of several experts in whatever field the expert system will be used. Along with the experts' knowledge, rules of thumb are also utilized. The running program is basically an information gathering process which can aid in solving various engineering problems.

First versions of the program will be given to the experts to play with and to aid in debugging.

One civil engineering student will be building a small expert system to aid in implementing aspects of the campus Master Plan. This student will be talking with several experts to gather information about the design and planning processes involved. The program will ask for information such as types of soil, details of ground water, and nature of vegetation when it aids in performing the design process.

Expert systems can not provide a definite answer to any particular engineering problem because there are no hard and fast rules which can be followed. It, as an expert would, will most likely suggest the most probable actions to perform, and maybe give a percentage estimate of the feasibility of each action.

Robert Houghtalen of the Civil Engineering Department has done much research on expert systems and has recently attended a conference on the subject.

Air Force ROTC selects new Cadet Wing Commander

Cadet Daniel J. Klein, a senior electrical engineering student at Rose was selected to be the Spring 1989 Cadet Wing Commander for Detachment 218, Air Force ROTC.

Klein will oversee the 165 member cadet corps at Indiana State University and Rose-Hulman.

He is a scholarship student and the winner of numerous awards; Outstanding Professional Officer Course stu-

dent, Distinctive General Military Course student and Field Training Vice-Commandant Award winner. He is also past president of Lambda Chi Alpha fraternity and secretary/treasurer of Rose-Hulman's chapter of Blue Key honor fraternity.

Cadet Klein will be graduating from Rose-Hulman in May of 1989 and will receive his commission as a Second Lieutenant in the United States Air Force.

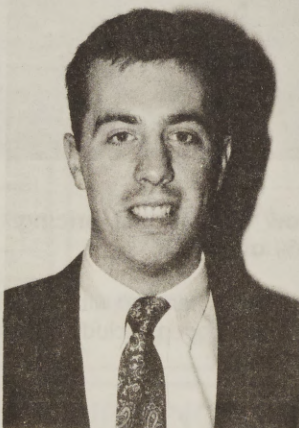
Klug receives scholarship

Mark Klug, a senior at Rose-Hulman from New London, Wis., was recently selected as the recipient of a \$1,000 scholarship from the International Gas Turbine Institute.

Klug was nominated for the scholarship by fellow student members of Rose's chapter of the American Society of Mechanical Engineers.

Klug, who is majoring in mechanical engineering, is treasurer of the Student Government Association.

The scholarships are presented by the International Gas Turbine Institute to support colleges and universities that teach gas turbine courses. During the year, \$70,000 in scholarships were awarded to encourage students to achieve academic success.



Mark Klug

**LOOK FOR A
SPECIAL 8-PAGE
ISSUE NEXT WEEK**

Rose adds biotech education with help of Eli Lilly grant

Because biotechnology is considered to be a growth area in the chemical engineering field, Rose-Hulman is using a grant from the Lilly Endowment, Inc. of Indianapolis to expand its educational programs in biotechnology.

The \$48,449 grant is making it possible to integrate biotechnology education into basic lecture and laboratory courses offered by the Department of Chemical Engineering.

"Our goal is to demonstrate to students how they can apply the basic principles of chemical engineering to problems encountered in the biotechnology area," explained Ronald Artigue, professor of chemical engineering and coordinator of the grant.

Five faculty teaching 13 different courses are involved in the development of new laboratory demonstrations and experiments, homework, examina-

tions and design problems that will help students learn the principles of biotechnology.

"Because biotechnology is being integrated into almost all of our required courses in chemical engineering, students will receive exposure to this area of technology even without taking new elective, biotechnology-related courses that have been developed," he said.

According to Artigue, adding biotechnology to the curriculum was done after considerable consultation with industry and education officials.

"The department formed an advisory panel of local scientists and engineers to discuss, formulate and help direct our activities in biotechnology," he noted.

"From discussions with this panel and with other educators nationwide, we decided to create new course offerings and labora-

tory instruction but rejected the idea of establishing a separate option or program in biotechnology at the undergraduate level."

The grant has provided the funds to create new course material and it has enabled faculty to develop new experiments using recently purchased laboratory equipment.

"These experiments are designed to give students experience and direct exposure to the special conditions, operating requirements and problems involved in biological reactors and bioseparations," Artigue explained.

Students are not the only ones expanding their knowledge of biotechnology as a result of the grant, according to Artigue.

"We have also been able to build faculty expertise in such areas as fermentation and bioseparation methods," he added.

USA Today poll shows Rose-Hulman among nation's most selective colleges

Rose-Hulman is among the nation's 70 most selective colleges, according to a national survey by USA Today which was published in the newspaper's Dec. 12 issue.

The 70 were chosen from the nation's 3,300 colleges or universities.

Data for the listing were collected through a survey of college admissions officers.

Rose-Hulman and the University of Notre Dame were the only Indiana institutions cited in the newspaper's listings which in-

cluded only nine colleges located in the Midwest.

The national newspaper cited 50 colleges which accepted less than half of their applicants and whose freshmen averaged at least 1200 on the Scholastic Aptitude Test. In addition, it listed 20 other colleges, including Rose-Hulman, which just missed meeting one of the two rigid standards.

Rose-Hulman exceeded the newspaper's requirement of a freshman class who had an average SAT score of 1200. However,

despite the fact that the college accepted only 51.2 percent of the applicants desiring admission, the percentage fell just short of the newspaper's requirement of fewer than 50 percent acceptance in order to be listed among the top 50.

Rose-Hulman freshmen had the highest average SAT score, 1220, of the colleges listed from 50th to 70th. It exceeded the SAT scores of freshmen at universities such as Lehigh, Bucknell, Villanova and the University of California at Berkeley.

Three alumni named to board of managers

David Mitchell, Sam Hart and Niles Noblitt all have something in common.

They're all Rose-Hulman graduates who in February will be attending their first meeting as new members of the college's Board of Managers.

Hart and Noblitt have been elected to five-year terms and Mitchell will serve until 1992 as the alumni representative to the board.

Mitchell replaces Fred Goetsch, Jr., who completed his tenure as alumni representative at last year's October board meeting.

A 1948 Rose electrical engineering graduate, Mitchell is a board member and consultant for the Bolivian Power Co. Ltd., and president of the mining sub-

siary, AuBol Minerals Co. AuBol was recently formed to search for, mine and commercialize Bolivian gold. The mineral company is headquartered in Salt Lake City, Utah and has a regional office in Cincinnati, Ohio. Mitchell had previously served as president, chairman of the board and chief operating officer for the Bolivian power company.

In 1983, Rose-Hulman presented Mitchell with an honorary Doctor of Engineering degree.

Hart is vice president of total quality systems management for the Cummins Engine Co., located in Columbus, Ind. He received a mechanical engineering degree in 1955 from Rose and has served in numerous

engineering and management positions with Cummins for the past 26 years. Hart has been vice president for engineering, product performance, and research and development operations before assuming his current post in 1985.

Noblitt is president of Electrobiology, Inc., and chairman of the board of Biomet, Inc. Both businesses are involved with the manufacture and selling of medicated products.

A 1973 biological engineering graduate of Rose-Hulman, Noblitt helped create Biomet which is headquartered in Warsaw, Ind. Biomet and its subsidiaries design, manufacture and market surgical implants, orthopedic support devices and various hospital supply products worldwide.

Rose-Hulman faculty and staff honored

Rose-Hulman recently honored 12 members of its faculty or staff who have worked at the college for at least 20 years.

Among those cited for their years of service was Alfred Schmidt who has been a member of the Department of Mathematics faculty for 35 years.

Honored for 25 years of service were Cecil Lobo, pro-

fessor of civil engineering; James Pellum, Department of Chemistry; and John Ying, professor of economics.

Recognized for their 20 years as a member of the Rose-Hulman faculty or staff were Bruce Danner, director of the Waters Computing Center and associate professor of physics; Bettie Evinger, assistant director of alumni affairs; Charles Howard,

dean of admissions; Hannelore Lehr, professor of German; Jess Lucas, vice president for student affairs; Noel Moore, professor and chairman, Department of Chemical Engineering; Evelyn Muston, residence hall housekeeping staff; and William Sisson, director of corporate relations and placement. The service awards were presented during the college's annual family Christmas banquet.



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Sports

Disappointing Christmas Break leaves basketball 7-4



Jeff Harrison (23) puts the ball up for two points.

by Mike Lindsey

Following an impressive 5-1 start, Rose headed into the three-week vacation with high hopes and expectations. With two very competitive four team tourneys on the slate, the Engineers had a great opportunity to make a name for themselves.

The first chance came in the DePauw invitational. A good performance against the host Tigers would allow the Rose program to emerge from behind the shadows cast by the recent success of DePauw teams. But, to gain that opportunity Rose would first have to get by a very good team from Kalamazoo College. In that game both teams were able to control the other with great man-to-man defense. The lead would see-saw back and forth throughout the battle before the experience and depth of Kalamazoo would outlast the Engineers by a six point margin.

In the consolation game Rose would return to the win column with a hard fought victory over Illinois Benedictine. In that game Rose was never able to pull away, but the Engineers did

open up the lead behind some good play from junior guard Phil Eckert and senior swingman Jeff Harrison. Eckert made the most of his first substantial amount of playing time by scoring 15 points and handing out 8 assists. Harrison chipped in with his season high of 14 points.

Next was an opportunity to redeem the Kalamazoo defeat by spoiling their own invitational. To get that chance Rose had to get past Nazareth College. This time Rose would answer their appointment by breezing past the road block in convincing fashion.

This set up the rematch with the host school that the team had been looking for. This time the intensity of the game was much like the first contest, but the offense was more effective for each team. With ten minutes left Rose was still in the hunt, and only trailing by two. At that point Kalamazoo seemed to take the game to the limits and wear down the Engineers. The host team would gradually pull away and end up with a misleading 20 point advantage, 80-60. Sopho-

more forward Britt Petty was named to the all-tourney team for his fine play.

Next up for the team was a road game with Manchester College. The frustration of not getting over the top hit a peak when Rose lost the host Spartans 70-53 in by far their worst showing of the season. The game started out okay for the team until Petty got marred with foul trouble only five minutes into the game. From that point on nothing would seem to go right for the team as Manchester would build a nine point halftime advantage. Early in the second half Rose was able to rally and pull to within five after Manchester had built a 15 point cushion to start the half. From there it was all down hill as the Engineers moved to 0-3 on the road.

This weekend marks the beginning of the big part of the season as Rose travels to Memphis Saturday for their conference opener against Rhodes College. Then Tuesday, January 17 the team will travel to Richmond to face Earlham College in another CAC affair.

Wrestlers on path to success

by Hyrum D. Lunt

This past weekend, Dec. 9-10, Rose-Hulman's wrestlers competed in the 14th Annual Oliven Nazarene Invitational in Kankakee, Illinois. They fought hard and earned a placing in the top half of those teams competing. Of the team, Coach McGrath said, "We had some good performances, but . . . We can get better".

Sophomore Jim Winkley continued his winning ways by finishing in second place at the tournament with a 3-1 record. He

dominated most of his opponents and scored 21 points to their eight. Unfortunately, the championship score was 6-7. Despite this setback, he furthered his season record to 6-4.

Last year's Indiana high school 145-pound state champion, Matt Morin improved his record to 7-2 and moved up to a second place standing at the ON Invitational. He pinned his first opponent and beat the next two by a combined total of eight points. In the championship round, the match score was 2-2 and the winner was determined by ride-time. Matt came out a few

seconds short and first place was awarded to Jeff Estes.

One other team member had a special reason to feel proud. Todo Midkiff beat the top seeded wrestler in the 142-pound weight class in the second round. Other team members who competed were Brian Engle at 126-pounds, Matt Murphy at 134-pounds, Terry Towe at 150-pounds, Dave Koehl at 158-pounds, and Spiro Megremis at 167-pounds.

Tonight and tomorrow the grapplers are traveling to take part in the Elmhurst Tournament.

Hopkins named Engineers' tennis coach

Having performed his winning touch at Terre Haute South High School, Dan Hopkins is ready to jump into the collegiate ranks as tennis coach at Rose-Hulman Institute of Technology.

Hopkins, a high school coach for the past 10 years, succeeds Gene Mitz, Rose-Hulman's athletic director who has served as tennis coach for the past two spring seasons. The spring commitment will mean Hopkins

has to relinquish coaching Terre Haute South's girls' tennis team. He'll still be in charge of the boys' program next fall.

"Just like in high school, I've got a tremendous challenge ahead of me and a great opportunity to coach some outstanding student-athletes at Rose-Hulman," Hopkins said.

Terre Haute South's boys' teams advanced to the Final

Four of the state tournament in 1980 and '83. The Braves have won five sectional and regional titles over the past 10 seasons. The girls' team placed second in the 1981 state finals and has won seven of the past nine sectional and regional championships.

"Rose-Hulman is very fortunate to have such a good player, coach and teacher heading up our tennis program," Mitz said.

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