

Rose-Hulman Institute of Technology

Rose-Hulman Scholar

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Dad's
Day
Tomorrow

the Rose Thorn

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MOENCH PORTRAIT — A portrait of Herman Moench, Rose-Hulman senior vice president, was recently unveiled to honor his 56th year at the college. The portrait by noted Hoosier artist Edmund Brucker of Indianapolis (second from the left) is on display in A section of Moench Hall near the student bank. On hand for the unveiling were (left to right) Jack Ragle, chairman of the college's Board of Managers; Brucker, Rose-Hulman President Samuel Hulbert, Moench, and Dr. James Eifert, vice president for academic affairs and dean of the faculty.

National Advisory Board visits Rose

by Robert Kline

On Friday, Oct. 25, approximately 45 corporate officials invaded the Rose-Hulman campus with the sole intention of improving the school. These people were all members of the Rose National Board of Advisors and their purpose was to give Rose needed input from the corporate sector.

The advisors addressed such problems as how to keep faculty and administrators current with the latest developments in technology, how to acquire donations of needed high-tech laboratory equipment, and how to prepare students for a successful career in the engineering and science fields.

These officials represent some of the nation's largest corporations, including Rockwell International, General Motors, and Eli Lilly.

This gathering of the National Board of Advisors is held annually in an effort to keep Rose-Hulman students and faculty current in their respective fields.

In previous years, board members had expressed an opinion that current engineering and science graduates were lacking adequate communication skills. As a result Rose-Hulman has placed an increased emphasis on

teaching students written and oral communication techniques.

Recommendations coming from the advisors this year included an Asian studies program, an economics curricula, and a business management curricula.

Emmanuel Mavroleon, of General Motors, expressed his opinion on the importance of this program. "Colleges and Industry are in a producer-consumer relationship," he explained. "The graduates are a needed product, and programs like this enable schools to produce graduates that will be more marketable and of much greater use to industry."

Mr. Mavroleon also stressed the importance of the students pursuing a rounded curriculum. "Graduates from Rose will be highly qualified in the technical areas," he stated, "but it is not enough anymore to be merely technically oriented. One should also pursue a background in such areas as management, psychology, and economics."

David C. Mitchell, of the Bolivian Power Company, echoed Mr. Mavroleon's opinions, claiming that communication skills and management training were important to a graduate's success in the corporate world.

Optics program continues improvement

by Jeff Lambert

Rose-Hulman is stepping out as a leader and striving for an even better applied optics program.

The optics program started in the fall of 1983 due to a grant from the Lilly Foundation. Labs were built to accommodate the expected interest in the program, 10 to 12 students. Seventy registered for the first optics course.

Optics technology is not only attracting student interest but is also gaining very diverse support for its programs. In the last three or four months Rose-

Hulman has received grants from the government, private industry, and a private foundation.

Dr. Brij Khorana, director of the center for applied optics, tells why optics technology is "hot" now when he relates, "Optics is going to be used in a variety of areas: consumer, military, production lines . . . just about everything." Khorana expects optics technology to sweep the world like the recent semiconductor wave.

Last May, the first students with an area minor in optics graduated from Rose-Hulman.

Industry was pleased because the graduates here were multidisciplinary.

Great strides have been made but where is the applied optics program going now? Khorana answers, "The time is right for outsiders to look at it (optics program) and fine-tune it to make it the best it can be."

In order to accomplish this fine-tuning the department is inviting four experts to come to campus over the next two years. The first of these is Brian Thompson, who will be on campus November 7 and 8. Although he will be giving a lecture on the 7th, the main purpose for his visit is to act as consultant to the applied optics program. The purpose of the lecture is to increase the awareness of faculty, students, and local industry.

Currently the demand for optics graduates exceeds the supply by three to five times. This fall, Rose-Hulman is offering a Master's degree program in applied optics for the first time.

Liu settles in at Rose-Hulman

by Dan Larkin

Dr. Bing Huo-Liu, new to the Rose electrical engineering department this year, brings more than varied experience in E.E. He has lived in many very different places, each with a different lifestyle and language.

Liu was born in Taiwan and lived there the first 25 years of his life. He received his B.S. in electrical engineering at the National Taiwan University in 1968. After the completion of his undergraduate work, he was required to serve two years in the Taiwan Air Force as a radio engineering officer.

Liu left Taiwan and moved to West Germany in 1970. He received his M.S. and Ph.D. degrees at the Technical University of Berlin in 1975 and 1981 respectively. It was there that he picked up German as a second language.

English became Liu's third language when he moved to the United States. He worked at the University of Colorado as a lecturer and research associate, and later as a professor at North Dakota State University.

His attraction to Rose was based primarily on things he had heard about the quality of the

students. "The students here are eager in pursuing knowledge," said Liu. He also feels that "the school is building on a very firm basis."

Liu's most recent project is translating a two-volume graduate level book on Optical Communications Engineering from German to English. His translating work should be of much interest to Rose students currently in the Technical Trans-

lator program. Liu speaks three languages fluently — Chinese, German, and English — and can read French as well.

The Liu family primarily speaks Chinese in the home, but occasionally Liu and his wife speak German in order to emphasize an expression. His two children speak English in school and Chinese at home and Liu intends to someday teach them German.



New electrical engineering professor, Dr. Bing Huo-Liu.

— Nick Jokay photo

Dad's Day tomorrow

by Bill Bradford

Tomorrow, Saturday, November 2, will be Rose-Hulman's annual Dad's Day. Family members of Rose students are invited to spend a day on campus.

Fathers will be wearing buttons designating them as Rose-Hulman Dads. Activities throughout the day include a bunch, tours of the main buildings, a concession stand, the Rose-Sewanee football game, an Italian Buffet dinner, and the drama club's murder-mystery-musical, "Somethin's Afoot".

Jim Schwartz, director of alumni and special events, said, "Dad's Day has traditionally been an event to

honor the fathers of football players at the last home game of the season. About five or six years ago this was expanded to include all Rose-Hulman Dads."

"There's going to be a little more for the fathers this year," Schwartz continued. "We have a nicer dinner planned for the families, and this is the first year that the drama club will be performing on Dad's Day. It will be a full day."

There is one break in the agenda between the buffet dinner and the drama event for the students to spend time with their families, either touring campus or talking in their individual rooms.

DAD'S DAY 1985

NOVEMBER 2nd

11:00 a.m.-1:00 p.m. — Brunch in Student Union Building

11:00 a.m.-1:00 p.m. — Open House conducted tours of Olin, Hadley and Moench Hall.

11:00 a.m. — Concession stand will open. Italian sausages, popcorn and beverages available. (Fieldhouse)
1:30 p.m. — Football game - Rose-Hulman vs. Sewanee (Phil Brown Field)

5:00 p.m. — Italian Buffet (Student Union Building)

8:00 p.m. — Drama Club Play "Somethin's Afoot" - Auditorium in Moench Hall.

NOVEMBER 3rd

1:00 p.m. — Soccer game - Rose-Hulman vs. Centre College (Soccer Field)

FRATERNITY RHO

by Bill Bradford

Tonight from 6:00 to 9:15 p.m. and Sunday from 1:00 to 4:15 p.m., are the second set of Formal Rush Parties. Freshmen can attend up to three of the parties to which he has been invited. The list of freshmen for each party is posted on the IFC bulletin board in D section of Moech Hall. Freshmen will be picked up in their rooms by the fraternities 15 minutes before the party begins.

Following Sunday's last formal party, at 4:15, strict closed rush goes into effect through 5 p.m., Preference Monday, November 5. Strict closed rush means the fraternities cannot communicate with freshmen.

At 7 a.m. on Preference Monday freshmen should re-

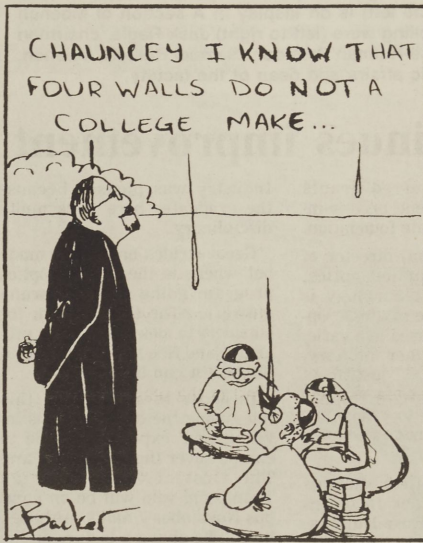
port to the auditorium where with a bid from each fraternity offering him a bid, as well as offering him a bid, as well as a no-preference card. The freshmen signs one of these cards and at 5 p.m. the fraternities are informed of their new men. The fraternities will then pick up the freshmen in their dorm rooms.

One important note: In the event that a freshman does not obtain at least a 2.00 grade point for the first quarter, his bid will be revoked.

In other fraternity news, in a ceremony at their house Sunday afternoon the men of Alpha Tau Omega formally pledged 43 new little sisters into their program.

The Gospel According to Herman

by Steve Backer



Movie Review

"Kiss" turns sour

Fall is usually a slow time for the movie industry. The theaters are caught between the summer season and the Christmas movie glut. During this period of time, the movies released are generally those that are not considered to be powerful enough to survive in a "glutted" market. "Kiss of the Spider Woman" is one such movie.

In this film, William Hurt and Raul Julia play a pair of prison inmates in a South American country. Raul portrays a political prisoner, while William Hurt assumes the role of a homosexual accused and sentenced for corrupting a minor. The majority of the movie takes place in their prison cell.

A large part of the time in the cell is spent by Hurt retelling the story of a World War II propaganda film that he viewed prior to being imprisoned. This film-within-a-film has the unfortunate effect of slowing down the movie.

There is no major action or plot development until the last 40

minutes of the movie. Only then does the first 80 minutes make a lot of sense.

The major problem with this movie is the film-within-a-film. Perhaps if the propaganda film segment were cut from 40 to 10 minutes the movie would pick up the pace enough to avoid losing the audience.

The acting within this film is better than average. Raul Julia gives a fine performance as the political prisoner, and William Hurt plays the part of the corruptor fairly well.

Unfortunately, their efforts are confined to a film that will in all likelihood be a box-office bomb. That's too bad, because they both apparently put a lot of effort into their characters.

I expect that this will be one of those films that is nominated for best actor and best supporting actor, but whose name will be forgotten by the time the awards roll around.

Grade: D+
Rating: R
Starring: William Hurt and Raul Julia

— Gary Hall

Album Review

The unchanging Jean-Luc

The new release from Jean-Luc Ponty is Fables, an album which sounds like a mixture of songs from his other albums.

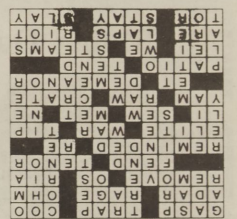
Fables, like all of his other albums, only contains instrumentals featuring Jean-Luc Ponty on electric (zeta) violin or on synthesizers, while his "friends" are reduced to playing accompaniment. The lack of instrumental and stylistic variety contributes to each of his albums sounding like a rearranged copy of another album — if a J.L.P. cut was playing, one would find it impossible to tell from which album the track came.

The music of Jean-Luc Ponty, however, is serene, peaceful, and even "meditative." He composes and orchestrates all of his own music (although his wife titles each song). But since Cosmic Messenger in 1977, he has not shown any amazing creativity in his song writing, as if he is catering exclusively to his audience.

If a listener enjoys any of Jean-Luc Ponty's previous albums, then he or she will enjoy Fables. Fables does not contain songs with strong drive or cranking guitars, but instead, more mellow, restful arrangements. As a final note, Jean-Luc Ponty can be usually heard during one of the "new music" slots on WMHD (Wednesday night from 8 p.m. to 2 a.m.).

— by Brian Evans

The Combat Zone — Adult Survival Games. It's crazy, it's sociable, it's high adventure. Experience the thrill of the greatest outdoor game of Capture the Flag! Bring your friends — Bring your enemies; so much fun... you'll just die!!! Jct. US 41 & 47 near Turkey Run State Park. Information/Reservations call 317-498-8767.



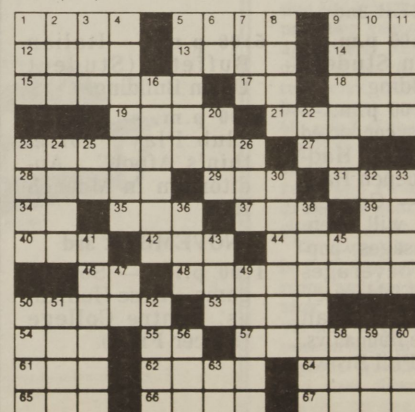
CROSS WORD PUZZLE

FROM COLLEGE PRESS SERVICE

- ACROSS**
- 1 Strain for breath
 - 5 Snare
 - 9 Cry of dove
 - 12 Hebrew month
 - 13 Rant
 - 14 Unit of electrical resistance
 - 15 Dismiss from office
 - 17 Bone
 - 18 Inlet
 - 19 Ward off
 - 21 Singing voice
 - 23 Caused to remember
 - 27 Concerning
 - 28 Choice part
 - 29 Armed conflict
 - 31 Gratuity
 - 34 Chinese distance measure
 - 35 Stitch
 - 37 Encountered
 - 39 Compass point
 - 40 Sweet potato
 - 42 Uncooked
 - 44 Box
 - 46 Latin conjunction
 - 48 Outward behavior
 - 50 Courtyard
 - 53 Care for
 - 54 Hawaiian wreath
 - 55 Pronoun
 - 57 Emits vapor
 - 61 Exist
 - 62 Turns around track
 - 64 Disturbance
 - 65 Rocky hill
 - 66 Remain
 - 67 Kill

- DOWN**
- 1 Long, slender fish
 - 2 Fruit drink
 - 3 Everybody's uncle
 - 4 Gains
 - 5 Inclination
 - 6 Sun god
 - 7 Time gone by
 - 8 Nuisance

- 9 Musical instrument
- 10 A state
- 11 Mr. Khayyam
- 16 Thin sheet of wood
- 20 Condensed moisture
- 22 Teutonic deity
- 23 Depend on
- 24 Lamb's pen name
- 25 Note of scale
- 26 Obstruct
- 30 Lately developed
- 32 Toward and within
- 33 Equal
- 36 Small lump
- 38 Merchants
- 41 One's profession
- 43 Damp
- 45 Article
- 47 Agave plant
- 49 Untidy
- 50 Real estate map
- 51 Danish island
- 52 Night birds
- 56 Consume
- 58 Be ill
- 59 Extinct flightless bird
- 60 Pigpen
- 63 Parent: colloq.



THORN STAFF

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Sports

Harriers to defend title

by Lee Beckham

Rose-Hulman's Runnin' Engineers travel to Fisk University in Nashville, Tennessee, this weekend for the College Athletic Conference Cross Country Championships. Coach Bill Welch's harriers will be defending the title they captured last year on their home course. "We're going down there with winning on our minds. The race will probably be close, no matter who wins," Welch commented.

The Engineers ran away with the title last year, relying on the depth that five seniors provided. That depth is missing this year, although Welch believes his team is capable of running a tightly packed bunch, which is often the key factor when the points are totaled. "I know these guys have the physical ability to run competitively as a group, it's just a matter of being mentally prepared," Welch said.

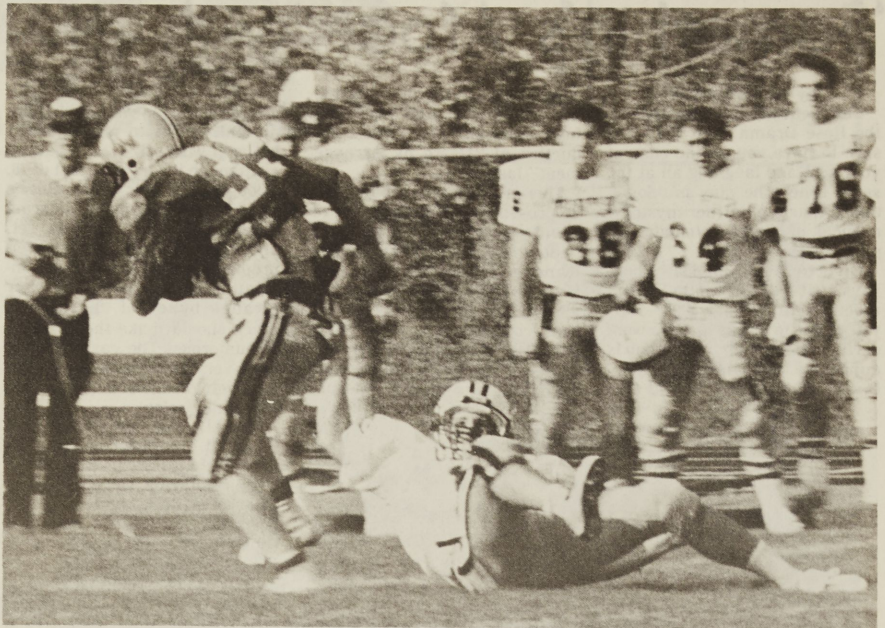
Welch's squad will have to overcome a lack of experience to win Saturday. Senior Lee Beckham and Junior Roger Hruskovich are the only two returning runners from last year's top seven at the CAC meet. In fact, the advantage of experience will probably lie with Rhodes and Sewanee. Rose's two perennial rivals in cross country. "Rhodes and Sewanee are both returning three or four of their top seven from last year," Welch noted. Welch has also heard reports that Rhodes is running stronger this year. "We haven't run

against them this year, and we don't know what their freshman situation is, so they could be bringing a strong team on Saturday."

The Runnin' Engineers will be trying to put some sparkle in a dull season. "We beat Wabash, but we were a little disappointed with our showings at Little State and our own invitational. We've had a few misfortunes, but we're not going to let them hold us back," Welch commented. Those misfortunes include the loss of senior Todd Lozier due to a collapsed lung after four meets, and the sidelining of juniors Hruskovich and Carl Czarnik with minor injuries for last week's meet.

Captains Beckham and Hruskovich will lead the team into Saturday's meet. "Roger sat out last week with a knee injury, but he will be ready to run this week, and Lee is coming off a good race this past Saturday, so he'll be looking to have another good one in Nashville," Welch noted. Czarnik, second man for much of the season, is also returning to competition this week, and is expected to help boost the team. Other possible starters for Saturday's race are junior Kurt Kelson, junior Dennis Dobbs, sophomore Mark Tebbe, sophomore D.R. Foley, and freshmen Steve Mericle and Ron Yuhas.

The Runnin' Engineers will be attempting to win their second straight championship when the gun goes off Saturday morning.



Bill "the plow" Sears carries along a Centre defender enroute to his second straight 100 yard game.

— Bryan Everly photo

Engineers offset Centre

by Steve Zeiglin

Rose-Hulman shocked CAC conference leading Centre College with a 31-6 rout this past Saturday at Phil Brown Field. The loss gives Centre a 3-1 final record in CAC play while the Engineers improve their conference record to 2-0. Rose can win the conference with victories over Sewanee at home tomorrow and Rhodes the following Saturday.

The engineer's prospects in these games will be hurt by the loss of freshman quarterback Jason Duff who has been sidelined by a knee injury for the rest of the season.

The Rose defense deserves most of the credit for this victory. Centre gained four yards on their first series and then had their punt blocked by junior defensive end Howard Scott. This gave the Engineers the ball at the Colonel 40 which led to a four-yard TD run by Jason Duff and a 7-0 lead. Then in the

second quarter leading 10-0, Gil Keller intercepted a Colonel pass and returned it 45 yards to the Colonel 20. This set up Bill Sears' first of three one-yard TD runs. Robert Fuller also intercepted a pass which set up the next Rose touchdown. This gave Rose a 24-0 halftime lead.

Centre came into the game with the best running game in the conference, but the aggressive Engineer defense totally shut down their ground game. In the first half Rose held Centre to just 30 yards on 18 carries. Then at the start of the second half the defense held the Colonels after they had a first and goal at the Rose 2. This demoralized Centre and kept them from coming back into the game. For the game Centre gained just 60 yards rushing on 38 attempts and although they gained 200 yards in the air they were intercepted four times. In fact the only points scored by the Colonels were scored by their defense on a

blocked punt in the third quarter.

"I thought the defense played outstanding," Thompson said. "I'm extremely proud of them. They hung in there really tough on that goal line stand. We frustrated a good offense today."

He also gave much of the credit to coaches Lindner, McGrath, and Clements for preparing the defense for Centre's potent offense. Other people deserving credit are Chris Szaz, Gil Keller, and Greg Kremer with 12, 11, and 10 tackles respectively and Doug Ankey who had an interception, two broken up passes and two tackles for losses.

Once again the wishbone offense worked well. The offensive line made some big holes for the backs. Bill Sears had a great day with 146 yards on just 20 carries. He had his second straight 100-yard game. Split end Todd Griffith also had an outstanding day with four receptions for 109 receiving yards.

Rose football targets Tigers

by Sports Editor Steve Ufheil

The Rose football team will entertain the University of the South tomorrow at 1:30 p.m. on Phil Brown Field for their last home football game.

The Engineers are coming off an impressive 31-6 victory last Saturday over Centre College. The victory lifted their record to 4-3 overall and 2-0 in the conference. The University of the South Tigers will be trying to get things put back together after a 36-21 defeat by Washington and Lee, which dropped their record to 3-4 overall. The Tigers conference record is 1-2.

A win for the Engineers tomorrow would clinch at least a tie for the CAC conference title with Centre. Victories in both of their remaining games would give Rose sole ownership of the conference crown.

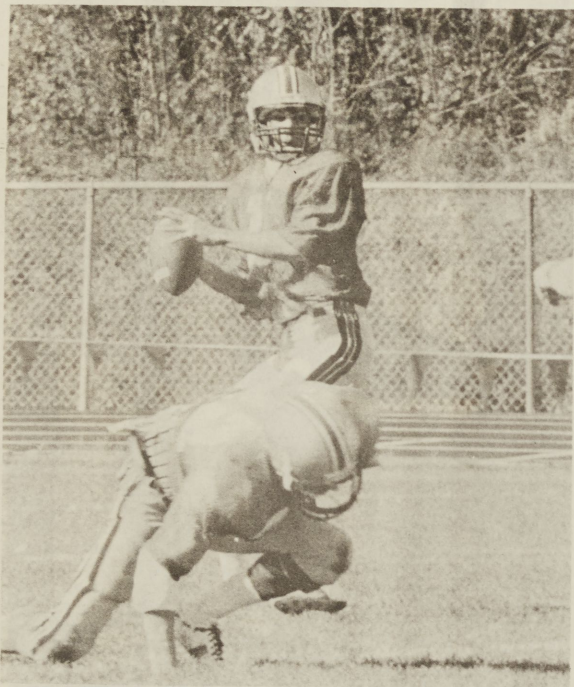
The contest will mark the 10th meeting between the two teams, with the Engineers leading the series 6-3. Last year, Rose took a 29-27 decision from the University of the South at Sewanee.

The University of the South Tigers, who finished last year with a record of 0-9, have improved greatly this year. Much of their success can be credited to junior quarterback Bobby

Morales. He has thrown for over 800 yards to rank first in the CAC. Morales is complimented on the Tigers passing attack by three of the conference's top receivers. They are juniors Mark Kent, Todd Willmore, and Steve Sullins. Each is averaging over 12 yards per catch.

Coach Thompson is well aware of the Tiger's passing attack. "They like to throw the football and we expect to see it thrown about 60 percent of the time," he states.

"The key for us will be to stop the long gain, and be able to establish the running game," he added.



Jason Duff drops back to pass prior to suffering his injury in the Centre game.

— Bryan Everly photo

Duff out for season

by Sports Editor Steve Ufheil

Jason Duff, the Engineers starting freshman quarterback, received a knee injury in last Saturday's game against Centre that will leave him watching the action from the sidelines for the remainder of the season.

The injury, which occurred in the third quarter, left Duff with a slight tear of a ligament. He will have to contend with a knee brace for at least two weeks, making it impossible for him to take the helm at quarterback for the rest of the year.

Duff was injured on a questionable play when No. 41 for Centre gave him a shot to the knee. A few plays later, No. 41 was ejected from the game for a late hit on Larry Greene, the replacement quarterback.

Duff, obviously very dis-

appointed at his bad luck, was able to look ahead to next year. "It's tough having to watch from the sideline, but I'm encouraged by the fact that I'll be back next year," he remarked. The mishap again leaves Coach Thompson scrambling to find a replacement to take control of the wishbone offense.

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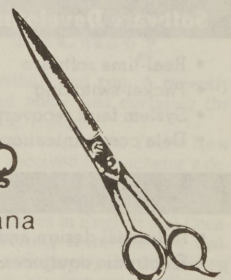
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Features

'Somethin's Afoot' with the Rose Drama Club

by Tom Vorjohan

This year's fall production by the Rose Drama Club (RDC) is sure to have you on the edge of your seat and laughing all at the same time. The play is "Somethin's Afoot", a murder-mystery-musical, and it opens tonight at 8 p.m.

Director, Penelope J. Koob, says, "It's like Monty Python meets Agatha Christie!" Now you've got to admit that's a wonderful combination. Mrs. Koob is currently working as a freelance theatre artist and has

spent the past year in Indianapolis, Cleveland, and Dubuque, Iowa after directing Rose's production of "Death by Arrangement" last fall.

This mysterious comedy is set in present day England at the country estate of a rich ego-padded old gent, Lord Dudley Rancour (played by Richard Payonk), on an island in the middle of a lake. As far as what happens from there, the president of RDC, R. Daniel Harrison, replied, "I can't tell you — what would be the mystery?" Richard

Payonk replied, "It's very entertaining and one of the more difficult shows to put together; but well worth it."

Although it's a small cast of 10, Koob stated, "It's one of Rose's biggest productions considering the lighting, special effects, set, and music." The complicated preparations promise a very intriguing play, with a rather strange bunch of characters, which should make the mystery so humorous. The cast includes some very talented people, some of which must be imported for the female roles.

Mary La Rue, who plays Lettie the maid, is a junior at ISU. This is her fourth show at Rose. Anne Geiger, playing Hope Langdon, is a newcomer to the Rose stage, but not to the theatre. Anne is a sophomore at ISU majoring in Radio-TV-Film.

Lady Grace Manley-Prowe is portrayed by Kathleen Boyle Smith. Kathleen is very active in the Terre Haute Community Theatre, but this is her first production with Rose-Hulman. She is a graduate of St. Mary-of-the-Woods.

The fourth female character is Miss Tweed played by Judith Higgins Price, who is another new actress to the Rose stage. Judy is also an active member of the Community Theatre and is currently on the Board of Directors. She graduated from SMWC with degrees in Theatre and Allied Arts as well as Business Administration.

The men of Rose make up the rest of the cast, including one new face who journeyed up from Hawaii to attend Rose, Aaron Leong. Aaron is a freshman and an experienced actor from high school. He is playing Clive, the proper English butler.

Stan DeHoff, Vice-President of RDC, is back again in his ninth production. Stan is well remem-

bered from his more than humorous role as Pharaoh in "Joseph" last spring. Stan is a senior double majoring in math and computer science.

Richard Payonk has been lighting up the Rose stage for four years now. He is a senior chemical engineering major and also the treasurer of the drama club. Richard has proven his versatile repertoire of characters, and his performance as the egotistical Nigel Rancour is certain to be entertaining.

R. Daniel Harrison is also a senior chemical engineering major, and a four year veteran of the Rose stage. Daniel is serving his second term as Rose Drama Club President. He will portray the young college student, Geoffrey.

Tommy Smith, and his rather deep voice, were very active on the Rose stage his freshman year. Now a sophomore chemical engineering major, he again graces the stage as the almost senile old army veteran, Colonel Gillweather.

Last in the cast, but certainly not least, is Dan Vujovic who will portray Dr. Grayburn. Dan is a junior also double majoring in math and computer science. Dan is currently the secretary of RDC, and a veteran of the Rose stage.

As director Koob stated, this is a complex performance, and there is a lot of credit earned by the faces that don't appear on stage. These include three student directors: Craig Coder, Mark Leonard, and Owen Strawn. The orchestra is also comprised of eight talented engineers: Mark Conrad, Karl Foos, Richard Root, Jack Fulton, Doug Sraill, Scott Anderson, Kris Hebel, and Paul Marken.

Be sure not to miss this unprecedented fall mystery-musical-comedy. There will be performances November 1, 2, 8, and 9 at 8 p.m. in the Moench Hall Auditorium. Tickets are on sale at the door or by reservations (extension 418) for \$3.00 a person. By the way, the only guarantee is that the butler didn't do it!



Somethin's up with Ann Geiger (Hope Langdon) and R. Daniel Harrison (Geoffrey).

— Joe Hargis photo



Stan DeHoff (Flint) sneaks up on Mary LaRue (Lettie) in "Somethin's Afoot."

— Joe Hargis photo

A Dynamic Engineering Environment

Our design engineering department currently includes 150 engineering professionals, both new and experienced, and it continues to grow. At Tellabs, talented engineers can find challenging opportunities to work with state-of-the-art technology in a vigorous organization that rewards creativity and innovation.

Unlike most high-technology companies, Tellabs offers a small-team work environment that encourages professional development. Our engineers aren't confined to

working on a small piece of a project — they are involved in a team effort through all phases of product development.

If leadership is your interest, Tellabs can offer you both project and group management opportunities. We're a flexible company that recognizes commitment and offers a diversity of professional development opportunities.

Current engineering opportunities at Tellabs are listed below.

Digital System Design

- Digital signal processing
- Microprocessor logic
- High-speed digital logic
- Logic simulation

Software Development

- Real-time software
- Packet-switching
- System fault recovery
- Data communication protocol

Mechanical and Industrial Design

- Industrial design and ergonomics
- Electronic equipment packaging

If you are a talented engineer, we encourage you to contact the Placement Office to schedule an interview on **November 11th** or forward a resume to: Mr. Dan

Integrated Circuit Design

- Custom devices
- Semi-custom devices
- Analog and digital devices
- Very Large Scale Integration

Analog Circuit Design

- Voice-frequency circuit development
- Active filters
- Switch capacitor filters
- Adaptive systems

- Computer-aided engineering
- Stress and deflection analysis

Barney, Tellabs, Inc., 4951 Indiana Avenue, Lisle, IL 60532. Equal Opportunity Employer M/F.

 tellabs

The Rose Drama Club presents Somethin's Afoot

November 1, 2, 8, 9
8:00 p.m.

Moench Hall Auditorium
Tickets: \$3

Reservations: 877-1511 ext. 418