

Rose-Hulman Institute of Technology

Rose-Hulman Scholar

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Rose in model UN program

by Don Dodson
Managing Editor

Twelve students from Rose-Hulman and St. Mary-of-the-Woods will go to New York City in early April to participate in the Model United Nations. The trip will mark the first time the two colleges have participated in the week-long national student conference.

The delegation, comprised of six students from Rose and six from St. Mary's, will represent Bulgaria in simulated sessions of the United Nations. The students will be among approximately 1200 participants from colleges and universities across the U.S.

The team's faculty advisor, Dr. Anne Morgan, adjunct professor of political science at Rose, plans to assemble the team before Monday, Jan. 18. She will then guide the delegation through a rigorous, 11-week timetable of study and discussion in preparation for the

event.

Among the items to be studied in anticipation of the Model United Nations are the structure of the U.N., parliamentary procedure, background information on Bulgaria and its voting record, and international issues that are expected to come before the 36th U.N. General Assembly.

Dr. Morgan expects each member of the delegation to devote a minimum of ten hours a week to preparation. The group will meet together for three hours each Monday. Its members will spend the remaining hours in individual research.

Morgan, who has advised St. Mary's teams that went to regional Model U.N. conferences in St. Louis and Indianapolis, said that participation in the week-long event is, in her mind, at least equal to a semester in a political science course.

"The experience is tremendous in developing communication skills, such as research, writing, debating and persuasion," Morgan said. "Delegation members will write resolutions, prepare their arguments and present them in both formal and informal settings."

"Participating also increases one's understanding of international conflict and compromise," Morgan said.

Besides participating in simulated sessions of the United States, the delegation will also meet the Bulgarian ambassador to the U.N.

While in New York, the students will stay at the Grand Hyatt Regency Hotel. Travel and accommodations expenses for the Rose contingent will be paid by the Division of Humanities, Social Sciences, and Life Sciences.



College Bowl champions Mark Kipp, John Fruth, Jim Weber, and Ed Bullerdeik confront the faculty team led by Dr. G. C. Kyker. Mike Talley photo.

Bowl season ends

by Mike Rugg
Staff Reporter

The intramural College Bowl games concluded during a noon convocation last week.

The championship game of the double-elimination tournament had division winners Delta Sigma Phi No. 1 (John Fruth, Mark Kipp, Jim Weber and Ed Bullerdeik) and DSP No. 2 (Rob Schmidlin, Pat Collins, Stu Guinther and A.J. Fossett) playing each other. A third DSP team won its division but was eliminated before the convo.

Despite DSP No. 2's A.J. Fossett, the top individual scorer this year, DSP No. 1 dominated the match, leading 120 to 30 at the half. The second period was more balanced, but DSP No. 1 won 200-95.

The winning team then went on to play a faculty squad captained by Dr. Kyker and including Drs. Moloney, Voltmer and Derry during the first half and Drs. Tom Mason, C.O. Smith and Moore

during the second. The faculty outscored DSP No. 1 in both halves, leading 125 to 70 at the midpoint and winning 255 to 120.

A varsity team will be chosen from the top team (DSP No. 1) and the top five individual scorers, which includes, in addition to Fossett, Kenny McCleary, Bryan Scott, Dan Dillon and Doug Gundlach. They will compete in the Region 9 tournament at Champaign, Illinois. Region 9 includes Indiana and Illinois except Chicago. At last year's regional in Normal, Illinois, Rose-Hulman came in seventh in a field of 12 that included several large state universities.

Twenty-four teams in three divisions entered the intramural this year, up from 16 teams last season. Sponsor Heinz Luegenbiehl thanked Drs. Kyker and Vuchinich for helping with the added workload. "It's been a very successful year and I hope next year will be even better," he said.

the Rose Thorn

Vol. 17, No. 13

Rose-Hulman Institute of Technology

January 15, 1982

Job market less brisk

by Gordon Bechtel
Staff Reporter

January has rolled around and with it has come the midpoint of the senior's job hunt. Some seniors are happy with their offers, but others are wondering about their limited success in the job market. They're beginning to question whether or not the employment opportunities for Rose graduates are all Admissions cracked them up to be. To pull things together, here's a basic overview of what is happening in the area of placement.

Bill Sisson, placement director, notes that so far this year's interview schedule has been as full as last year's. He estimates that the number of job offers made by January, 1982, are equal to those that had been made by January, 1981. He explains this with the unfortunate fact that companies seem to be making whatever job offers they are going to make this school year earlier due to economic pressures.

These "economic pressures" are likely to adversely affect a Rose grad's employment prospects. Due to what Sisson termed a "softening in the marketplace," companies are viewing the prospective employee market with "cautious optimism." Thirteen cancellations or date changes have already been made by companies originally scheduled to interview in January. Most of these companies were "second timers" who couldn't justify a second interviewing trip to Rose due to the recent economic

slowdown.

Sisson also placed part of the cause of these cancellations within the student ranks. He noted that a number of companies had cancelled due to a lack of interest from Rose students. The sign-up sheets hadn't filled up, so the companies couldn't afford to send an interviewer.

In the midst of this, various rumors have been circulating, which have only made matters worse. These rumors are generally started from within the student body. Sisson cites one such rumor about the Brown and Root Company based in Houston, which said Brown and Root was in an economic slowdown and was therefore undergoing lay-offs. After a quick phone call down south, Sisson found out the truth — that Brown and Root is in fact "healthy and strong."

In order to combat these recessionary symptoms, Sisson suggests that students become more "aggressive" and really make an effort to land a job. He suggests that students make follow-up phone calls and write post-interview letters. He invites those with questions or problems encountered while interviewing or dealing with the companies to come into the placement office so he can aid in ironing the problems out.

When asked about his perceptions of the future job market for Rose grads, Sisson described it as "good and strong." He stated, "There's a lot of technology to catch up on

and that's right down Rose's alley." Sisson also expects graduate school opportunities to grow in the future because of both the increased attention Rose has paid graduate schools and the pushing of the market on the engineer to secure advanced degrees.

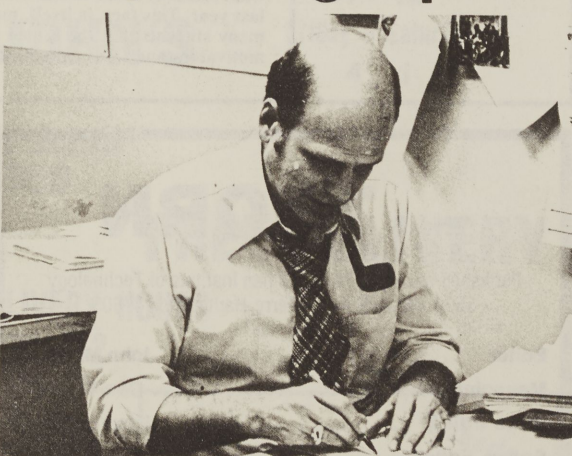
In summary, job opportunities are still out there; they're just hidden a little bit better. Therefore, the prospective employee is going to have to get going and turn over a few more rocks in hopes of finding that treasured job.

Roper issues parking report

A new roads and parking system for the Rose-Hulman campus is just one of the concerns for Dr. Alan Tom Roper, vice president of planning and data systems. Roper, who assumed the post at the beginning of the present school year, is also responsible for the Waters Computing Center, the Center for Technology Assessment (CTAPS), and any general planning needs of the Institute.

The most immediate concern of Roper is the new roads and parking modifications which will be necessitated by the construction of the new Olin Building, as well as improvements to the system which are not necessarily related to the construction.

A report recently issued by the Planning Office acknowledges that the single entrance to the



campus and the single-lane bridge to the fieldhouse may make the present system of roads somewhat inadequate. The long-range goals listed in this report include securing additional entrances to the campus, and the construction of a two-lane bridge to the fieldhouse.

The report further recommends measures to be implemented in conjunction with the construction of the new building. The first proposal involves extending the road which runs in front of BSB Hall to meet with the road which runs in front of the library. This would preserve access to the north end of the campus. Also suggested is the construction of an access road to the new parking lot north of the Moench Hall parking lot.

Finally, in order to improve truck traffic flow to the Hulman Union loading docks, the report proposes to widen and straighten the road in front of Deming Hall.

Another concern of the report is parking, which is characterized by Roper as presently being "unacceptable." The report maintains that 100 new parking spaces are needed, in addition to replacing the 150 spaces which will be lost by building and road construction.

The lot already under construction just north of Moench Hall will absorb some of the overflow. A proposed parking lot between the main entrance and the tennis courts could add another 100 spaces, while an expansion of the Speed Hall lot could accommodate the balance of needed parking spaces.

A final recommendation by Roper is a simplification of the way parking stickers are distributed. He proposes to have one sticker for faculty and staff, another for construction workers, another for students living on Fraternity Row and the campus apartments, and one for all other students.

Humanities Division seeks critique

by John Marum
Assistant Editor

Earlier this week, the Division of Humanities, Social Sciences and Life Sciences underwent a thorough examination which could significantly change and improve the education of Rose students. Dr. Steve Goldman, professor of Humanities and the Director of the Science, Technology and Society program at Lehigh University, was invited to Rose to evaluate the goals and accomplishments of the HSLS division. This is the first time that the HSLS department has been critiqued by an outside organization.

The study is the result of a "self-study" done two years ago by the HSLS department itself. Two main conclusions of this

first study were:

1) Emphasis is needed on improving awareness of good writing skills, not only in the humanities but throughout the Rose curriculum.

2) An evaluation of the division was needed from an "outside" organization.

Many here at Rose have noted the impact of conclusion 1 on many technical classes. In response to conclusion 2, the HSLS department put together a proposal to the National Endowment for the Humanities for a consultant to spend some time at Rose to form a "second opinion." The aforementioned Dr. Goldman was sent to spend three days scrutinizing the division. In his evaluation, Goldman met with President

Hulbert, HSLS chairman Tom Mason, Dean of Faculty James Eifert, the HSLS faculty, and a small group of Rose students.

The purpose of these meetings is to raise such questions as: Do HSLS electives allow greater flexibility in a Rose education or should the HSLS department have more required classes? How is Rose preparing graduates in terms of the humanities? Are the right classes being offered? Do these classes offer a true education rather than simple instruction? Should the department be more structured? What are the strengths and weaknesses of the department and how can it improve its strengths and overcome its weaknesses?

Thorn EDITORIAL

Motivation runs low

by John McHugh
Editor

One of the main problems concerning the administration of Rose-Hulman these days is the lack of motivation on the part of the student. In both academics and extracurriculars, the desire to stand out or really dedicate oneself seems to be a rare occurrence. Professors complain that any assignment that requires extra effort or a lengthy procedure is passed off as too hard or, only a token effort is made to solve them. In extracurriculars, sporadic involvement has been common for many years, but now getting people enthusiastic about anything is almost impossible. Even homecoming this year experienced a lack of manpower and attendance.

There are many circumstances which are commonly cited as the causes of the problem. These include such things as the past job market. In the last ten years, engineers were in high demand and almost any engineer could get a job if he was interested in getting one. This was despite the fact that he was carrying a 2.1 and had done little else to improve his salability. Also blamed for little participation in activities was Rose's size. The fact that there are only 1,200 students at Rose meant that a club which draws 1% of the population only draws twelve people whereas at a school of 10,000, one hundred would be attracted. Both of these situations do have an effect on the motivation and involvement level of the student body but both are basically uncontrollable. A factor must be found that is not a completely predetermined or uncontrollable entity.

I feel that the system of scholarship and honors, or lack of it at Rose-Hulman, plays a major role, and it is controllable.

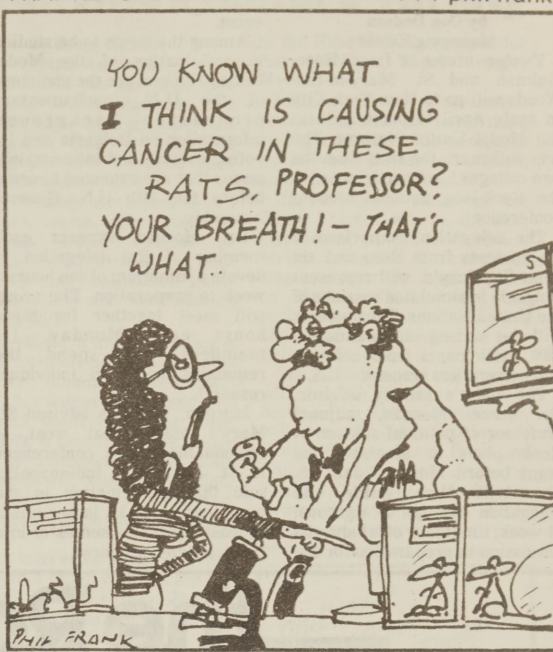
The spirit of honoring achievement is still alive but it's keeping a low profile these days. At the present time the honors system at Rose-Hulman is going through a metamorphosis. When the Honors Convos' attendance slipped year after year the awards committee decided something had to be done. This was a correct decision. They then decided to cancel the fall honors convo. This was a questionable decision. Their idea was to combine both Honors convos into one convo in the spring or possibly to have a banquet for those to be honored. This seems to be going in the wrong direction. A major effort should be made toward honoring people in front of the whole school. Although changing the Honors convos into a single event may be a good idea, a major effort should be made at the same time to increase the number of awards (school sponsored?) At present, the awards given are aimed at certain groups in the school's population. All awards are also given for academic achievement of one type or another. Very few awards, with the exception of the honor key, are made for service to the Institute in the form of scholastic service or student life service. To organize or direct a club or technical society receives no acknowledgement whatsoever.

The area of scholarships is much more difficult to alter. Economic conditions and available funds control the trend as far as Rose scholarship are concerned. Effort should be made to increase the amount of scholarship money, significantly if possible. (If Rose can't keep good students it won't be a good school.) Scholarships should also be more significantly altered for changes in performance both positively and negatively. If someone knows they'll lose \$500.00 if they play around for a quarter, they'll think twice.

For the first time in many years at Rose-Hulman, seniors are finding it hard to get jobs. Companies are backing out of offers and some just aren't looking. The market is getting competitive and what someone takes into an interview means a lot more today than last year. This fact, in itself, may increase the motivation level of many students, but the school must also help out by finding new motivators and to accentuate the old ones.

FRANKLY SPEAKING

phil frank



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Math contests continue

ROSE OLYMPIAD

Problem Set 1

Due January 29th, 10th hr.

1) Solve

$$\frac{dx}{dt} = (x - a_1)(x - a_2) \cdots (x - a_n)$$

with $x(0) = 0$.

2) Find

$$\int_0^{\infty} x^{-3/2} e^{-x} dx$$

3) Find all solutions to

$$3 - z^x = 2^{1-x}$$

4) Given

$$x + y + z + t = 4$$

$$\text{minimize } x^2 + y^2 + z^2 + t^2$$

CALCULUS COLLECTION

Problem Set 1

Due January 29th, 10th hr.

1) A hemispheric bowl of 10 inch radius is being filled with water at a rate of 25 cubic inches per minute. How fast is the depth increasing when it is six inches?

2) How much does a sphere of radius one foot weigh if it sinks four inches below the

surface when it is floating in water? (By Archimedes' principle the sphere displaces its weight in water. The density of water is 62.4 lb./ft. 3)

3) The voltage in a circuit with alternating current is $V(t) = V \max \cos(\omega t)$ volts and the current is $i(t) = I \max \cos(\omega t)$ amperes at time t seconds. The period of the current is $T = 2(\pi)/\omega$ seconds. Compute the average power of the circuit, which is the average value of $V(t)i(t)$ watts in an interval of length T .

4) The decomposition of acetaldehyde, $\text{CH}_3\text{CHO} \rightarrow \text{CH}_4 + \text{CO}$, is governed by the differential equation

$$\frac{d}{dt} [\text{CH}_4] = K [\text{CH}_3\text{CHO}]^{3/2}$$

If at $t = 0$, $[\text{CH}_3\text{CHO}] = .01$ M, what is $[\text{CH}_3\text{CHO}]$ as a function of time?

In support of the Poles

by Gary Bechman
Columnist

For President Reagan, the imposition of martial law in Poland on December 13 has provided another foreign policy test. Although numerous parallels can be drawn between the military juntas of Kabul and Warsaw, a pressing implication for the Reagan administration is found in the identification of Solidarity among the American people.

Many workers in the United States are gravely concerned with the plight of the Poles. Their battle for economic freedom and civil liberties has ignited a flame of national consciousness on Christmas Eve and, moreover, in the hearts of the over one million Poles in America who have gained strength and hope through Poland's national hero, Lech Walesa. The threat to those dreams wrought by Premier Jaruzelski's martial law has created a powerful fervor in America which President Reagan must answer. The demonstrations in Chicago over these past Christmas holidays reflect the sentiments of voting Poles in an election year.

However, as presidential aides have hinted and as Carter learned in Afghanistan, there is little that can be done short of military intervention which will bring about immediate or effective results. The suspension of over

\$100 million worth of food aid will only lend itself to Communist propaganda as the Polish government acquires food from other markets with or without the assistance of Russia. The diplomatic actions do little to protect the Polish people from their own army.

The real threat Poland faces is the outstanding loans it has with foreign creditors who will soon decide whether to renegotiate loans and payments schedules. If any of the creditors call on their loan, the Polish economy will certainly fail. This will be felt by other creditors who will not escape unscathed when their approximately \$25.5 billion in

Poland is jeopardized. Businesses can be liquidated but political entities cannot.

Reagan has done well in pursuing a cautious relationship with Poland and Russia in this acid atmosphere where solutions are scarce. What the United States and its allies can and will effectively do in concert remains to be seen. On both sides of the Atlantic, criticism will come cheaply for the handling of yet another international crisis. It will be difficult at best for Reagan, as well as his Western European counterparts, to adequately clean up this political quagmire.

RHA does "good job"

The staff of The Thorn would like to convey an appreciative note sent from the regional Salvation Army to the students of Rose-Hulman. The letter offered thanks to all those people who gave up a meal so that others could have a merrier holiday.

The give-up-a-meal was sponsored by the RHA and ARA food service. The event, which brought in over \$200 dollars, was a great success and was very important to those who received

the benefit of the program.

The letter especially praised the efforts of Daniel Robinson, the president of the RHA and organizer of this fund raiser. All who contributed to the event in any way can be proud; congratulations.

We would like to point out that this is exactly the type of event which Rose-Hulman needs to build up its image in the community and at the same time foster the spirit of giving.

The THORN

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Matriculate or START	Drink from wrong Coke can; Punch out tobacco chewer next to you.	Eat five Texas tomatoes; Spend night in washroom. Lose turn.	Get a spinner for a class; Buy goggles and an umbrella.	Get a Hoosier roommate; spread papers around the floor.	Rx Dr. Quack; Receive one box of tetra-cycline and come back later.
Get plant trip to Detroit; Turn it down.	S.A. verbal; 6000 Skip LIT. & WRIT but get laked.	HUMANITIES	Become a "Super Senior" & THORN Editor.	CHANGING MAJOR	Park in Nurse's parking place; Get tires slashed.
S.A.B. puts on a program: Audience doesn't show up.	Write a term paper, Lose two turns. GFA-GFA+2	Forget your Yang-to-English Dictionary. Lose one lecture.	Lose all technical electives applicable.	Make ten times roll on dice worth of credit non applicable. Purdue.	CHANGE MAJORS: MF, PE, CH to CE, MA, CH to Physics to Trash collector to Comp. Sci.
S.A.B. puts on a program: Performer doesn't show up.	Get Dr. Partial for a class; GFA-GFA-1 year plan.	Dr. Pickett, go back 5 spaces.	Delta House Probation	Lose laundry bag & G.P.A.-.5 turn.	Receive Modulus and go into shock; see Dr. Quack.
Computer crashes, if Comp. Sci. lose term project; If other major, have a party!	Lose to Tri Beat LXA angle in basketball, ball; move go back 11 ahead one.	R.H.A. president, Lose turn.	Double Probation	Til talks to you: Go back 3 spaces.	Understand old library set-up; Get lost in new set-up.
EXTRACURRICULAR ACTIVITIES		S.G.A. member: Do nothing.	Academic Probation NO EXIT!	Varsity Sports	
Draw the short straw, Move into Apartments.	Editorial convinces you to get involved, Enter here	Enter when GFA < 1.9		Go to an R.H.A. meeting & fall asleep Lose turn.	GET LAKED!

Waist uncovered

by Philip Space
Staff Infection

Today Page 9 reporters learned that President Saymule Hulburb received a request from the National Weather Service to turn the heat down in Speeder Hall. Totally befuddled by this, as we are by most self-evident things, we decided to look into the story, as opposed to making up a good lie. A spokesman for the National Weather Service stated that during a recent geothermal study of southern Indiana, an energy source equivalent to six atomic bombs was located on an infrared scan by a weather satellite. After some investigation by the service, the source of the heat was found to be one side of Speeder Hall at Rose-Hulman. The spokesman went on to say that all of their studies were worthless because of the intensity of the Speeder Hall source.

Our initial guess was that the weather service had its satellites up their b-s, but (hmm, two in a row) upon further investigation it was found this painful hypothesis was not the case. In fact, it was found that all of the Rose-Hulman residence halls use more energy to heat them than both of the space shuttles needed to get into orbit.

It is believed that the problems

with the heat loss stem from an error in the construction of the buildings. In Speeder Hall, for instance, all of the high quality insulation used was inadvertently put in one side of the building.

BSB, on the other hand, had all of its insulation installed below ground level around the sign press room. It is also interesting to note that the windows in BSB were designed by a heat sink company. Deming is a solid rock carved to specifications; consequently it has no insulation but experiences black-body radiation. The upperclass halls are wonders of modern technology and no more needs to be said about them.

Being the socially conscious people that we are, Page 9 reporters decided to do something about the problem. We talked to Dean Locus and we were informed that we were "flogging a dead horse." We then went over his head and after we got out of the P. Chem lab we went back to Hulburt to point out the wastefulness. We were then given the proverbial "run around" after putting up with this for several gruelling minutes we realized we were now "riding a dead horse." So we became disenchanted and went home to watch San Francisco trounce Dallas.

Gamey Rules

When nosing around in curio shops over Christmas I came across this game entitled *Strife*. The object of the game is to go around the board for four years and come out with three vital things: enough money to get started on your own, your sanity, and a reasonable degree of proficiency at engineering (just enough to get a job and to be able to look busy until you get into management.)

At the start of the game, the players are given high hopes, distorted views and a big bill. Play progresses by the players rolling the dice (called handing in homework), until they run out of money, get kicked out of school or join the ME department. This should be played with no more than 250 qualified students, but because of economics is usually played with 350

Reverb

David Dvorak

On Wednesday, January 20, the Fine Arts Series will present the Indianapolis Ballet Theatre... a group that was so well received during its previous performance at Rose-Hulman that it is back by popular demand. Ten members of this talented troupe will perform in a variety of dancing styles, set to the music of some renowned composers.

The melodic and rhythmic "Klavierquintett" by Antonin Dvorak will provide the musical inspiration for one of the dances, with choreography by the group's Dace Dindonis, who also devised their "Medieval Dances" with the following thought in mind: "The choreography is not an attempt to recreate medieval dances with historical accuracy. Inspired by visual art of the period, it utilizes contemporary dance technique, allowing the choreographer a greater range of plastic freedom in erecting a

fluid sculptural style."

Four duets are planned, using music ranging from the warmth of Max Reger to the avant-garde Arnold Schoenberg. The first American staging of SLOVANKA PAS DE DEUX, from the ballet "Kermesse in Bruges," promises to be an interesting segment, as does the ruin of Harlequin's elopement due to procrastination.

One of the Theatre's special stagings is very timely . . . Hoagy's Suite was prepared with the blessings and consent of the popular Hoosier composer. Carmichael, who was perhaps best known for his songs "Georgia On My Mind" and "Stardust," passed away a few weeks ago, but his music lives on in the hearts of many.

It has been said that dance is the purest and most natural form of artistic human expression. Let's go see!



Members of the Indianapolis Ballet Theatre, which will perform here January 20, rehearse their production of Hoagy's Suite. Performers include Robert Smith, Gregory George, and Tim Hubbard. The performance promises to be very entertaining.

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Good 1-17-1982

Blood drivers aim high

by John McHugh
Editor

On Wednesday, Feb. 3, the RHA and IFC will sponsor the second of three blood drives to be held this year at Rose. Despite trends, the organizers of this blood drive hope to exceed the number of pints of blood collected at the last blood drive in October.

On October 14, Deming One took the title of most generous blood donors with 100 percent participation. In October, 163 pints were collected, making it the third most successful drive in the five years since the start of the blood drive.

The blood drive committee would like to thank the people who made the blood drive successful. Special thanks go to ARA for the orange juice, napkins, and cups; the faculty wives for the cookies; IFC for typewriters and typists; and Alpha Phi Omega for serving refreshments. Finally, thanks are given to Donna Gustafson, Director of the Union and Student Activities, and Mike Sullivan, the field representative of the Terre Haute Haute branch of the Central Indiana Regional Blood Center.

The October drive came at a most opportune time for the hospitals, which were in one of the worst blood droughts in

25 years. The effects of that drought are still lingering and this drive may help the blood supply significantly.

In the past the blood drives have been dominated by Deming teams; for example twice last year Deming Three took the honors. Once again the RHA will give \$50 to the housing unit with the highest percentage. The policy will be changed slightly from previous drives. In an effort to give the award to the team that gives the most blood, the RHA will no longer count people who come to give and claim bad health as an excuse. They will only be counted if they go into town and give within a week. Those people taking medication, having low iron levels, or having given in the last eight weeks will be counted as has been done in the past.

February 3 will be a good chance to make some money, show spirit for your floor or fraternity, and make a major contribution to the community. Giving blood is one of the easiest and most life-giving gifts. Make it a point to give this year and see how easy it is. If you have any questions concerning the blood drive and whether you can give, call Ralph Belknap on Scharpenburg Three.

ATO wins mattress pile

by Craig Warner
Staff Reporter

One of the many highlights of Rose-Hulman's 84-86 basketball victory over Southwester at Memphis last week was the halftime show, which featured the Student Activities Board's annual Mattress Piling Contest.

Student involvement in this event was quite high, with a total of six teams competing for the coveted \$50 first prize. The objective of mattress piling is to "load" as many people as possible on a "standard-issue" twin mattress within 27 seconds, and to hold them there for a three-second period. A penalty of five people is assessed for any team member who touches the floor during this time period.

A team from ATO placed first by applying 41 of their members to the mattress at the appropriate time. An attempt to defend Deming's title (teams from Deming placed both first and second in last year's contest) was somewhat successful as the 34 members placed second, winning the \$25 prize. Speed's team squeaked into third place with 32 people on the mattress, capturing the \$10 "nice try" award.

The team from the Apartments (with assistance from a somewhat under-manned DSP team, who realized that



Mike Tally Photo

their true calling was not as a solo act) was ruthlessly knocked into fourth place, totally out of the money, when the unquestionable judgment of Dr. Glenn Baca, Lt. Col. Stephen Gibson, and Dr. Stephen Gregory ruled that two of the team's members had touched the floor during the three-second period, decreasing their 33-member score down to 23. The team from Mees had a score of 17, while an untimely topple forced BSB's score into oblivion.

Special thanks should be given

to all the teams who participated, and everyone who made this event possible, but The Thorn has a certain level of respect it has to retain.

Short Shots

There are a limited number (7) of openings for summer work as student assistants for the Catapult program for high school students. Applicants should be capable and interested in lab work, reasonably successful in academics, personable (able to meet people — students and parents — easily and communicate with them), and be interested in working with and being responsible for the students in both lab and dormitory environments.

Applications are available from Mrs. McCullough, Math Division secretary, and must be submitted not later than Friday, January 29. For further information see Professor Schmidt. (Students graduating this May are eligible as well as undergraduates.

★★★

Students may obtain copies of their tax returns or microfilm transcripts of their return information needed for basic education grants and other financial aid by contacting the Internal Revenue Service. The request should be made in writing and addressed to:

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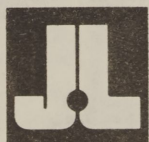
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Skis, Stooges, & Sparkettes . . .

by Craig Warner
Staff Reporter

"Spread Out" and make way for Moe, Larry and Curly this Saturday night, as a first comes to the Rose-Hulman campus.

Tomorrow night, the Student Activities Board will sponsor the All-Night Three Stooges Movies, starting at 7:00 p.m. in the WORX.

Eye poking, face slapping, and other such constructive activities will be quite prominent in this seven-hour "fiasco," which will consist of strictly Curly features (sorry — no Shemp or Joe due to popular demand). Anyone who can give a reasonable Stooges imitation, such as a decent "Nuuk-nyuk-

nyuk!," or even bear a resemblance to a certain ROTC officer, will be admitted free of charge, despite the fact that this event will be presented for free.

Need a change of scenery? On Wednesday, Jan. 20, Indiana State University's Sparkettes will be performing at halftime of the basketball game between Rose-Hulman and Wabash College in the Shook Memorial Fieldhouse. For those Rose students who have been in Terre Haute for too long, the Sparkettes are ISU's all-girl (see above picture for proof) drill team.

Going from one type of slopes to another, the weekend of February 5, 6 and 7 will feature a

joint venture between the SAB and ISU, with a trip down to Brown County State Park and Camp Palawopac. This 3-day excursion will be during the Brown County Winter Festival.

WMHD will keep going

by John G. Weis
Staff Reporter

In recent weeks, Rose's FM radio station, WMHD, has undergone further evolution toward becoming a significant part of campus life. With these changes, WMHD has all but put to rest doubts that it will survive.

Junior Chris Meyer, production manager, reported some good news and bad news about the production of non-music programming. Because WMHD is non-commercial, its programming must be at least 25% non-"light entertainment" for the station to retain its license.

Meyer stated over half of the scheduled non-music shows have been completed. Normally that would have been good news, but, with the Federal Communications Commission restrictions, the station is hard-pressed to make up the difference. The good news was that some shows were actually ahead of schedule and could be expanded to take up some of the slack. Most of the completed shows were taped during the two weeks between Thanksgiving and Christmas breaks. In the future, shows will have to be taped during weekday mornings before broadcasting begins.

Because of the incomplete programs, some schedule juggling took place. "Rose Roundtable" and "Issues of the 80s" have been indefinitely postponed due to the failure of the production crews in getting the shows done in time for broadcasting. "Literary Conversations" with Dr. Calvin Dyer will be expanded to a full hour every other week since the crew of the show is ahead in production. "Roots of Rock N Roll" with Dr. Sam Vuchinich will be aired every week instead of every other week. "Classics of Rose," hosted by Dr. Benjamin Benjaminov, may be expanded to an hour and a half on Sunday.

New program ideas were also introduced at a recent

broadcasting meeting. "Midday Madness," a noon comedy show, was considered. "Gregorian Chants" was definitely added to the programming schedule. "History of Rose" with Dr. Herman Moench will also be a future series. Also, a show about Broadway musicals is being considered. To minimize future cancellations of shows due to crew failure, Meyer appointed a staff of three assistant production managers, Richard Moore, Roland Rogers, and John Weis.

A chain of events concerning the station's legal status took place during the last two months. Before Thanksgiving break, the FCC allowed WMHD to send out a signal in order to test its strength and quality of the sound. During the break, the station's construction permit expired. While back for the two weeks between breaks, the club members concentrated on fixing the studio and viewing room up and taping shows. Before Rose students got back from Christmas break, the finalized license application was submitted to the FCC. As of January 11, the station was granted permission to begin full-time broadcasting.

In answer to complaints about a weak signal by listeners, Chief Engineer Mike Henson explained that two factors were to blame. The first is that WMHD has no compression in its signal. Although this brings about a weaker signal, a signal without compression sounds better in stereo than a signal with it. Secondly, although it could increase its wattage, WMHD is limited by the FCC to 150 watts of power. "Even if the wattage did increase," said Henson, "the signal would not be stronger, but the station's range would increase."

Greg Rousch, the program director, was enthusiastic about both the station's completion and the future of WMHD. "We've come a long way," said Rousch. Steve Bour, the station's

Chess team . . . wins?

by Greg Swinehart
Thorn Contributor

While most Rose students were enjoying a life of leisure between Christmas and New Year's Day, a small group of Engineers went to New York City to participate in the Pan-American Intercollegiate Chess Championship. Pending confirmation, the team finished first in its rating division. This would allow the team to earn \$150 and a trophy.

The winner of the event was the University of Toronto. Tied for second were the University of California at Berkeley and California State at Fulton. The event was held at the New York Statler Hotel in midtown Manhattan. The event consisted of eight matches with four players participating in each match.

Team members from Rose were Dave Trepanier, freshman EE; Ed Sammond, sophomore CH; Tony Schwaigert, sophomore CH; Tony Kirk, junior MA/PH; Greg Swinehart, junior CH; and Mark Shirley, graduate ME. With four players participating each round, the remaining two had the

opportunity to rest or explore New York.

The team scored 3.5 out of the possible 8 to earn the laurels in the 1700-1799 division. Every United States Chess Federation member who has played in a rated event has a numerical rating based on his performance against other rated players. This rating can range from about 500 to 2800 with few players at the extremes.

The average rating of the Rose team was 1731 which was 48th out of 72 teams. One-and-one-half of the team's points were the result of major upsets. In the first round, Rose defeated UCLA which was rated 2155 and seeded 13th in the event. UCLA ended the tournament tied for fourth place with six points. The second upset was a draw with MIT which was rated over 2000 also. Other victories came at the expense of slightly-favored Vanderbilt and lower rated Columbia University "C" team.

This year's small school honors went to the unusually strong team from Swarthmore College. An international grand-master and two experts were members of that team.

general manager, pointed out several advantages to having a radio station broadcast out of Rose. "By reaching the surrounding community twelve hours a day, the station gives Rose a lot of positive publicity," Bour explained. Just keeping the station running shows a commitment by students simply because it requires more than a weekly meeting to stay on the air.

Bour also emphasized the advantage of being on the radio staff for the student. Bour, a senior, gave a personal experience as an example. While being interviewed for a job, Steve spent half the time talking about his involvement at the station.

To ensure professional broadcasting, the station has initiated a series of requirements for prospective DJs. Every student wanting to be a broadcaster must have an FCC broadcasting permit, be a member of the club, complete a training program and fill out a "DJ profile" describing his taste in music. On the equipment side, Henson recently created an engineering staff to continue work on the station and ensure the upkeep of equipment.

The club has almost used up the last of its annual SGA allocation. Besides buying and setting up the actual transmitting equipment, the studio and viewing room had to be built and much equipment had to be purchased to protect the records, tapes, and sound equipment. Also administration costs added to the bills. Foreseeing these costs, the Executive Board initiated a nominal dues fee for members to supplement their funds.

Being strapped for funds brought about two major problems. The purchase of additional recording equipment to enable crews to produce taped shows without interrupting live shows had to be postponed, along with the purchase of a "cart" machine. Also, a shortage of funds forced the station to cancel one of the station's purchased programs, "Forces of the Universe." The inability to buy non-music programs puts further pressure on the production staff to come up with the 25% non-music programming by themselves.

The Executive Board expressed a desire for more people willing to work on jobs other than just being a DJ. This call for new members was directed toward both students and faculty members.



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Thorn Sports

Engineers Trounce SAM, 84-66; Remain Unbeaten in CAC Play

by Don Corson
Sports Editor

Arctic winds may have been blowing outside, but the action inside Shook Fieldhouse was as hot as a firecracker last Saturday night when Rose defeated Southwestern, 84-66.

The Engineers provided most of the heat, exploding for fifty points in the second half after leading by ten, 34-24, at the intermission. SAM trailed by only eleven, 43-32, with less than

fifteen minutes to play, but Rose reeled off 12 unanswered points (six by Keith Kemp) to break it wide open.

Southwestern coach Herb Hilgeman went to a 1-2-1-1 trapping press in an attempt to force turnovers, but the Engineers' backcourt ace Bobby Ewing had little trouble finding the ten-second line. SAM never came closer than 15 points the rest of the way.

Five players scored in double

figures for Rose. Senior Paul Wagner skied over the SAM defense for 21 points to lead the Engineers. Sophomores Jeff Chandler and Dean Stanley each tallied 12 points, Ewing pumped in 11 counters, and senior Keith Oehlman added 10, including a crowd-pleasing first-half stuff shot.

Southwestern's Scott Patterson, a talented 6-4 freshman from Memphis, Tenn., led all scorers with 25 points, most of those coming on jump shots from the outer limits.

The Engineers connected on 74 percent of their free throws, canning 28 of 38 charity tosses, while SAM could manage just 60 percent, hitting 12 of 20 attempts.

The Engineers travel to Memphis tomorrow to face the same Southwestern team.

The biggest test of the year for Rose will come next Wednesday when the Engineers face intra-state rival Wabash College at Wabash. The Little Giants (as this is being written) are 5-1 and ranked ninth in the nation in NCAA Division III.

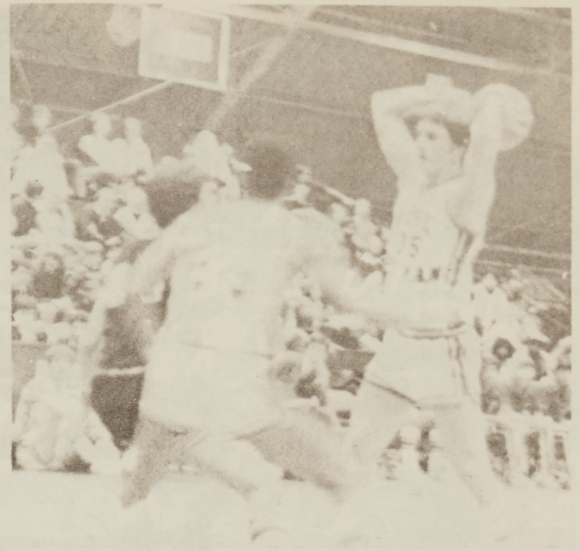
Wabash will be led by All-American Pete Metzelaars. Metzelaars, a 6-8 senior, has been in the top three in field goal accuracy for the past three seasons. As a freshman, he hit 71.8 percent from the field (third in the nation); as a sophomore he hit 69.3 percent of his shots (second in the nation); and last year he connected on 204 of 283 field goal tries (72.1 percent), good for second in the nation in Division III.

Last year, the Engineers stunned Wabash at Shook Fieldhouse in a thriller when Paul Wagner hit a prayer at the buzzer to beat the Little Giants. Let's do it again this year, Rose!

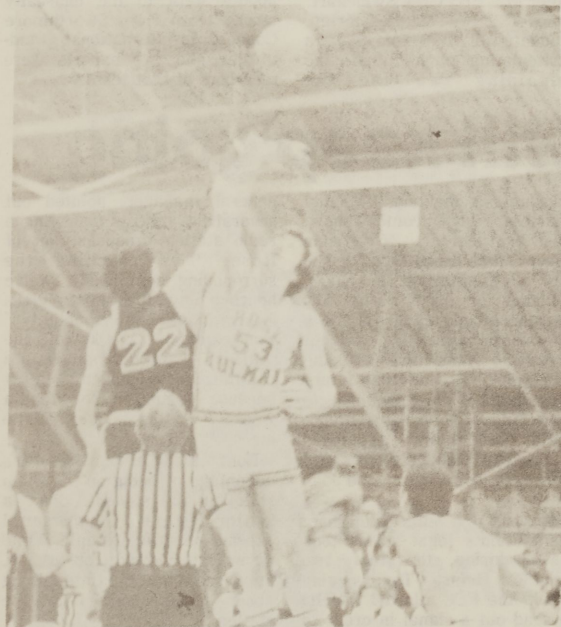
WMHD to Broadcast Sports Programming

WMHD-FM radio is now broadcasting its official program schedule. Included with this will be a three- to four-minute sports segment to be aired with the news every two hours.

Anyone with suggestions as to



Mike Tally Photo



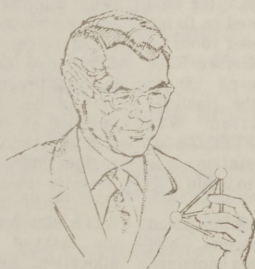
Mike Tally Photo

IM Sports Round-Up

by Dale Arand

MAJOR BASKETBALL		MINOR A VOLLEYBALL	
Lambda Chi	2-0	WBS	4-0
Fiji	1-0	Blumberg B	3-1
ATO	1-0	Faculty	3-1
Indep. 9	0-1	BSB 2A	3-1
RCF	0-1	Deming B	2-2
Sigma Nu	0-2	Deming 2C	2-2
DOUBLE A-I		Apt. 4	2-2
Deming Attic	2-0	Speed 2B	1-3
Faculty	1-0	Speed 3B	0-4
BSB 1A	1-0	Mees	0-4
Indep. 2	1-1	MINOR B VOLLEYBALL	
Apt. A	0-0	Apt. 1	3-0
Indep. 3	0-2	Indep. 1	2-1
Sigma Nu	0-2	Speed 1A	2-1
DOUBLE A-II		BSB 1A	2-1
WBS	1-0	Speed 3C	1-1
Deming 2	1-0	OC 1	1-2
Apt. 2B	1-0	Deming 2A	1-2
LCA 1	1-1	BSB 2B	0-2
Speed 3	0-1	Apt. 5	0-2
ATO	0-1	MINOR C VOLLEYBALL	
BSB 2A	0-1	DSP 1	2-0
MAJOR VOLLEYBALL		Indep. 7	2-0
Indep. No. 3	2-0	LCA 1	1-0
Apt.	1-1	Speed 3D	1-1
Fiji	1-1	Theta Xi	0-1
Lambda Chi	1-1	LCA 5	0-1
ATO	0-1	BSB 1B	0-1
Sigma Nu	0-1	MINOR D VOLLEYBALL	
the content of this sports segment or anyone who has suggestions for other types of sports programming should contact Don Corson (Box 335) or any of the WMHD news production staff.		Triangle 1	2-0
		Apt. 2	1-0
		LCA 2	1-0
		Theta Xi 2	1-0
		ATO 1	0-1
		BSB 1C	0-1
		Deming 2B	0-1
		APO	0-2
		MINOR E VOLLEYBALL	
		Sigma Nu	2-0
		BSB 3A	1-0
		Speed 2A	1-1
		Speed 1C	1-1
		Apt. 3	0-0
		Deming 1	0-1
		Sharp	0-1
		LCA 3	0-1
		MINOR G VOLLEYBALL	
		Speed A	1-0
		DSP 2	1-0
		BSB 2C	1-0
		LCA 4	0-0
		Fiji 1	0-0
		BSB 3C	0-1
		Speed 3A	0-1
		Blumberg A	0-1
		MINOR A BASKETBALL	
		Speed	3-0
		Sigma Nu 1	3-0
		LCA	1-0
		DSP 69	1-1
		Townies	1-1
		DHM	1-2
		BSB 3B	1-2
		Fiji M	0-2
		BSB	0-3

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Keith Oehlman soars above his defenders to score two of his ten points Saturday night. Mike Talley photo.

Rose Hits Century Mark Blasting Principia, 101-49

by Kim Borgman
Staff Reporter

Rose-Hulman opened its conference season against Principia last Wednesday by more than doubling the score on the Indians. The game was decided early and the Engineers cruised to a 101-49 win with everyone playing and getting into the scoring column.

The Principia Indians were 5-3 going into the game and were supposed to be vastly improved over last year's team which didn't win a single conference game. The game started slow with neither team sure of themselves, probably due to the long Christmas layoff.

The Engineers' defense also contributed to Principia's slow start and the defense got better as the game went on. They got 22 steals and forced more than 30 turnovers. They blocked 16 shots with Dean Stanley getting 10 in an impressive display.

This strong defense sparked the offense. When Rose ran off 10

straight points about 11 minutes into the game, the rout was on. Keith Oehlman led the way with 23 points on 11 of 14 from the field. Shooting mainly lay-ups as the result of all the steals, he didn't take a shot outside of eight feet. Wagner was the only other starter in double figures with 12 points, including a two-handed jam on a breakaway.

The starters played about half the game as Coach John Mutchner cleared the bench with six minutes gone in the second half. Leading the reserves was Jeff Chandler with 18 points. Behind him was Dean Stanley with 13. Stanley also led the team with nine rebounds.

The win evens Rose's record to 4-4. The Engineers didn't allow the Indians to get any players in double figures and held them to 35 percent field goal shooting. After last Saturday's home game, Rose will play six games in three weeks on the road, before coming back to Shook Fieldhouse on Feb. 2.

Board of Managers elects three Rose alumni to posts

Three alumni who have distinguished themselves in engineering-related positions in industry were elected to the Rose-Hulman Board of Managers during a meeting conducted during homecoming. Their election brings the board to its full complement of 35 members — 23 of whom are graduates of Rose-Hulman. Five others have elected emeritus status on the board.

Elected to serve five-year terms were J.T. "Tom" Norman, senior vice president of the B. F. Goodrich Company, Akron, Ohio; Harold D. Brown, Jr., vice president of administration for AA Development Corporation, Dallas, Texas; and Vern W. Fellows, vice president and secretary of B & A Electric/Electronic, Terre Haute.

Born in Chicago and reared in Indianapolis, Norman was graduated from Rose-Hulman Institute of Technology with a B.S. in chemical engineering in 1952. He since has done graduate work at the University of Louisville and completed the

construction, start-up and operation of a petrochemical center in Teheran, Iran, and three years as Area Director-Europe for B.F. Goodrich in Den Haag, Holland.

Elevated to president of the B.F. Goodrich International Division in 1975, Norman was named senior vice president in 1979 and since earlier this year has been senior vice president of the B.F. Goodrich Company and also group vice president of the Engineered Products Group.

In 1978 he was awarded an Honorary Doctor of Engineering degree from Rose-Hulman. He is married to the former Delores Voges of Terre Haute. The couple has a son, John, and a daughter, Sarah.

Brown, who grew up in Indianapolis, graduated with a B.S. in chemical engineering in 1957. His late father, Harold D. Brown, Sr., preceded him at Rose, graduating in 1922.

Brown, who continued his education in chemical engineering at Purdue where he earned an M.S. in 1961, recently was named vice president-administration for AA Development Corporation and AA Energy Corporation, wholly-owned subsidiaries of American Airlines engaged in the oil and gas business. His primary duties include administrative functions of the companies, particularly the budgeting process.

From 1979 through 1981 he was president and chief executive

Haute. The Browns are the parents of three daughters, Karen Sue, Janet Kay, and Rebecca Lee.

A native of Terre Haute, Fellows was graduated from Rose-Hulman with a B.S. in electrical engineering in 1962.

Having joined the Visqueen Division of Ethyl Corporation upon graduation, he has been associated with the B. & A. Electric Group since 1967.

Fellows has been active in the National Electrical Contractors Association and is a member of the labor/management committee for the Terre Haute Division.

He also has been active in the Indiana Society of Professional Engineers and the work of the Rose-Tech Alumni Association. A past president of the Wabash Valley RoseTech Club, he has served the standing committees on awards and recognition and RoseTech Clubs, as well as chairman of the homecoming golf tournament.

Fellows presently is serving as chairman of the Terre Haute community sector of the "Blueprint for Excellence" campaign, a major thrust of the program.

He is a state director of the professional engineering group, a member of the board of the Francis Vigo Chapter of the ISPE. A member of the executive board of the ISPE, he also serves as its scholarship chairman.

His work on behalf of higher education also includes being an ambassador for Associated Colleges of Indiana, thus teaming with an independent college or university president



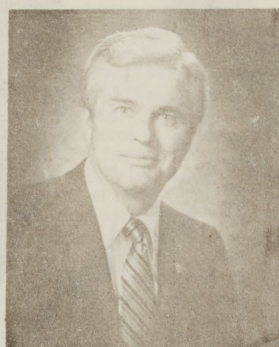
J. T. "Tom" Norman

advanced management program of Harvard University.

Norman joined the B.F. Goodrich Chemical Company upon graduation from Rose, serving first as a shift foreman for the PVC plant in Louisville. Following a two-year tour with the U.S. Army Chemical Corps (1953-1955), he returned to the Louisville facility with increased responsibilities to include production and technical support.

From 1958 to 1960 he worked at his first of three foreign assignments for B.F. Goodrich Chemical. Assigned to a Japanese subsidiary, he was responsible for engineering, construction and initial operation of a synthetic rubber plant in Kawasaki, Japan.

Following six years with the parent company's International Department in Cleveland, Ohio, Norman spent five years as deputy general managing director during the engineering,



Harold D. Brown

officer of Amcar, Inc., and Dixie Lime and Stone Co., both in Sumterville, Fla., and Tonk Products, Inc., Crawford, Texas. Amcar is a holding company of which Dixie Lime and Stone and Tonk are assets. Brown had been associated with Round Rock Lime Company, Dallas, and the AA group since 1974.

He earlier had been general manager of American Magnesium Company, Snyder, Texas, from 1972 and 1974, and from 1961 to 1972 was area superintendent for Dow Chemical Company in Freeport, Texas. Prior to working with Dow he spent two years on active duty as an officer in the Corps of Engineers.

Brown is married to the former Linda Thornton of Terre



Vern W. Fellows

outside the local area in the solicitation of the Terre Haute area on behalf of the state's private colleges.

Fellows is married to the former Janice Sawyers of Terre Haute. The Fellowses are the parents of two daughters, Karen and Elizabeth.

The newest board members will be seated at the winter meeting of the Board of Managers in February.

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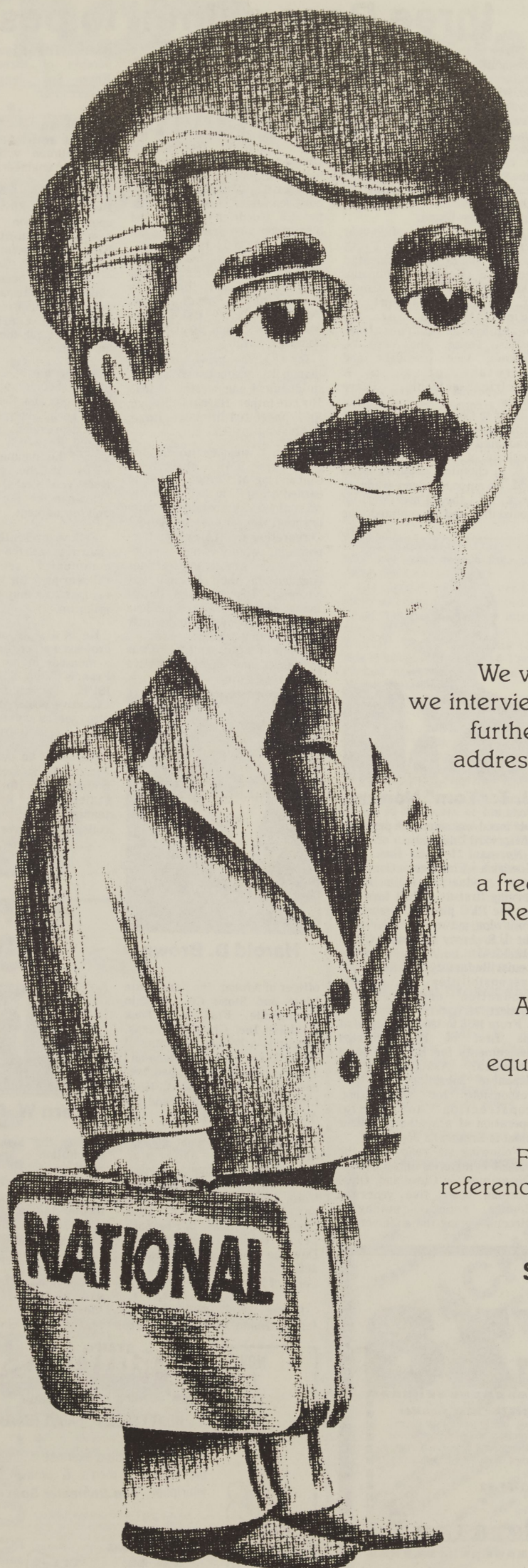
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