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## Volume 18 - Issue 21 - Friday, April 15, 1983

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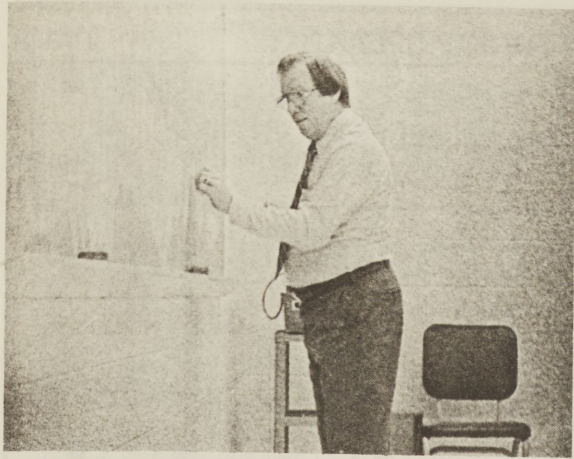
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Al Schmidt, Professor of Mathematics, has been on the local lecture circuit to drum up support for improvements in the nation's public school system. Mike Hendershot photo.

## Schmidt critiques schools

by Gary Bechman

In California, one may earn a degree in Driver's Education, not just a general degree, but a Ph.D!

In the Indianapolis Public School System, a beginning teacher with a minimum four years of college education commands a starting yearly salary of \$3,000 less than a newly hired painter for the same school system's maintenance department.

In response to these and other atrocities, Professor Al Schmidt has launched an effort to expose the "poor situation of public education with regard to science and math as well as the lackadaisical attitude toward other courses" in the social sciences and the humanities. This is not a recent problem in our educational institutions, rather it has only been exacerbated by the rapidly growing high technology element

in our society.

Professor Schmidt has spoken to many groups but his audiences are not a direct part of the educational system in disarray. What he is striving to do is to bring pressure to bear on the system through concerned citizens who were not aware of the stifling, unproductive character of most of the nation's school systems.

But, as he quickly points out, the crux of the problem lies with the attitudes of our society. Since World War II, Japan and Germany (and now the Soviet Union) have supported educational goals which support their industrial goals. Statistics indicate between one-third and one-fourth of all of their students in the higher institutions of learning are in engineering. However, the United States has continually placed greater emphasis on social programs as

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## Modulus will return

by Geoffrey Lang

Since 1968, Rose-Hulman's yearbook, the Modulus, has had very few editions completed on schedule. For instance, from 1968 to 1973 no yearbooks were published, while in 1974 concerned students overcame campus apathy towards the Modulus and published five consecutive issues (1974 to 1978). Unfortunately, a lack of enthusiasm halted its printing from 1979 until 1982. This past year the understaffed and overworked Modulus has managed to complete, publish, and distribute to both students and alumni, the yearbooks from 1979 to 1982. That is a lot of work for only eight full time and seventeen part time contributors, considering it takes five man-hours of work to complete a single page, and the Modulus is traditionally well over 100 pages.

"Is it worth all the work?" the Modulus staff wonders. Students don't care whether or not they receive a yearbook because it serves no immediate purpose (to

them). The students are so busy making grades and interviewing for jobs that they never think of the long term nostalgic value of a yearbook. What many do not realize is that a yearbook does not really serve a purpose until after graduation; years later the yearbook can be used to remind one of his college years and to show his children what college was like.

The apathy is not new or unique to the Modulus; other organizations have also been experiencing poor attendance at functions. However, the administration, particularly President Hulbert and Kent Harris, have been supporting the Modulus for its nostalgic value.

This year's Modulus, 1983, is running a little behind schedule but, says editor Pete Soller, it should not be more than one month late which would be Homecoming next fall. The Modulus staff is still looking for new members, so anyone interested should contact Pete Soller.

## E.I.T. exam tomorrow

by Marcelo Copat

Tomorrow, April 16th, a large number of seniors will take the Engineer in Training, or E.I.T., examination. Of those taking the test, twenty-four are civil engineering majors, fifty-two are chemical engineers, seventy-one are electrical engineers, and eighty-four are mechanical engineers. The exam consists of morning and afternoon sections. Both sections carry equal weight and both must be taken to receive a score.

All states and territories of the United States have compulsory registration laws covering the practice of engineering for safeguarding life, health and product quality. Registration provides the legal means of identification for engineers. It is not required that all engineers register, but many times it is a

valuable credential. For instance, engineers doing construction work must be registered. Registration is required in many technical societies to attain higher classification of membership, and also in some area of government and industry for promotion or salary determination.

Taking the E.I.T. exam is the first step toward registration. The E.I.T. is a comprehensive examination of engineering fundamentals. It is divided in subject areas which must be answered such as mathematics, engineering mechanics, electrical circuits, and engineering economics. There is also a list of subject areas from which two areas must be chosen and answered. All areas consist of multiple choice questions with five choices per question. There

# Workshop manages stress

by Matt Devitch

If you're still suffering from stress and worry here at Rose, you probably did not attend the stress management workshop presented here at Rose by I.S.U.'s clinical psychology department. Two graduate students, Randy Herrama and Sylvia Heider came to Rose for three consecutive Monday evenings and taught participants methods of evaluating and controlling stress.

In the first session, participants talked about stressful situations such as homework, tests, overcommitment, relationships, illness in the family, and many more. Randy and Sylvia then taught muscle relaxing techniques to release the tension that builds from stress.

During the second session, skills, strengths, and needs were

assessed. These included personal management and organization, how well one reacts to and manipulates his environment, and how well one controls his own attitude. Participants also filled out a personal stress assessment questionnaire for this session that dealt with sugar, alcohol, caffeine, and nicotine consumption, physical stress, amount of sleep, and stress from work.

Finally, the third session covered stress "inoculation" and time management. Stress inoculation involves preparing or "inoculating" oneself for stressful situations in advance. Preparation methods included positive thinking and imagery. For example, when preparing for an interview, past interviews that went well could be concentrated on as a model for the upcoming interview. Time

management discussion topics included defining the jobs to be done, setting priorities, and recognizing one's own ability.

Herrama and Heider did a great job by inviting much discussion from the group members and by handing out self-help sheets and other information. When asked to summarize his experience, Brian Ramey said, "The program helped me identify and evaluate stressful situations." Ralph Anderson said what he liked best about the program was that it showed him "ways to look at particular stressful school situations and assess them realistically rather than emotionally."

Overall, the workshop proved to be a positive experience. Hopefully, Herrama and Heider will come back again soon for those of you who missed out. So just relax — if you can.

# the Rose Thorn

Vol. 18, No. 21

Rose-Hulman Institute of Technology

APRIL 15, 1983

## N.M.U.N. team returns

by Al Hippleheuser

New York — Success met seven students from Rose-Hulman at the 1983 National Model United Nations (NMUN) Conference, an educational experience which was held in New York City from March 29 to April 2.

Over 1500 students from 120 different schools attended the conference this year. The men from Rose joined four women from St. Mary-of-the-Woods College in representing the Central American country of Costa Rica. Those attending from Rose were Mark Bailey (FR, EE), Laszlo Bardos (SO, EE), Alan Hippleheuser (JR, CH), Rob Jacoby (SO, CM),

Darby Keeney (FR, CH), Steve Pettit (JR, CE) and Ted Poulos (JR, EE). Dawn Cawdrey from St. Mary-of-the-Woods served as a member of the NMUN staff.

On the first day of NMUN, Keeney, Hippleheuser, and Poulos were all elected chairmen of their committees, and served the entire week moderating proceedings. This is one of the first times that one school has ever had chairmen in so many committees at the national simulation. Rose was commended by the NMUN Secretary-General for this outstanding achievement.

An exciting alternative to traditional education, NMUN provides an opportunity to learn

about the United Nations, world issues, international negotiations, and foreign affairs. The students on each delegation familiarize themselves with their assigned country's foreign policy months before the Conference.

Some of the issues covered in twenty-two committees included the threat of nuclear war, fighting in Central America and the Middle East, human rights violations, the world economic situation, the status of women, and the drafting of a convention against mercenaries. At the Conference, the student delegates actively pursue their

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## Rose-Hulman flaunts its proud past

Some of the History of Rose-Hulman  
Part I (of only II parts): 1817-1962

An eye-witness report by A. R. Schmidt, '49

Have you ever thought (or heard others say) there's nothing to do in Terre Haute? So what's new? Quoting from Chauncey Rose's own letter: "In the fall of 1817 (author's note: six years after the disappearance of New Madrid, Mo. in an earthquake) I traversed the States of Indiana, Illinois, Missouri, Kentucky, Tennessee, and Alabama, looking for a place to reside and engage in business. I spent several days at Terre Haute; it had been laid out the previous

Students not completing a 1983-84 returning student financial aid application must do so by 4:00 P.M. April 18, 1983!!!!

This includes students who want to be considered only for RHIT scholarships. Contact the Financial Aid Office.

is no penalty for wrong answers. Review sessions have been offered by Pi Tau Sigma, an honorary engineering society.

Registration is accomplished by passing a sixteen hour written examination after a specified time of engineering work experience (four years, minimum). The test consists of two parts. A person who passed the E.I.T. is exempt from the fundamentals (part 1). Part 2 covers the field of practical engineering experience. The opportunity to complete the E.I.T. (part 1 of the registration exam) while still in school is a distinct advantage.

year . . . Favorably impressed with the location and the people in and about Terre Haute. I returned and became a resident in April, 1818."

Chauncey Rose was an unusually ambitious man. Not only had he sawed lumber in Parke County, but after inheriting \$8,000 (and in 1825, that was a tidy sum!), he invested these funds in a mercantile business and in land which gradually became a part of the city. In the 1830's, Mr. Rose purchased 320 acres bounded by what became Seventh Street, Thirteenth Street, Poplar Street, and Locust Street, at a cost of slightly more than \$10/acre — \$3400. The gradual transfer of this farm land into city lots provided the

first appreciable capital with which he was later to build a fortune. He sold a large block of land to the Terre Haute & Richmond Railroad Company for \$500/acre (which showed already his instinct for business!). He built the first large hotel in Terre Haute, became one of the "Railroad kings" of the West, was interested in canals, and, as it was described by one of the ten community leaders, "the transition of Terre Haute from a village to a prosperous city was chiefly due to Chauncey Rose." Mr. Rose's interest in railroads led him to promote the Terre Haute & Indianapolis Railroad which opened in 1852. The

Cont. on page 3

## All-night Eastwood shown

by Bob Peacock

Clint Eastwood is now arriving on the stage. The long, lean, weather-worn hero rides into the Main Dining Room in the Union Building. If you're looking for adventure and intrigue, not to mention lots of fast-paced action (even so far as to be called VIOLENCE), come see the All-Night Clint Eastwood Special incorporated by the R.H.A.

This extravaganza will premier on Saturday, April 16. That's tomorrow night!!

The films to be shown are (in order of their showing) as follows:

- 1) A Fistful of Dollars
- 2) Thunderbolt and Lightfoot
- 3) Hang 'em High
- 4) The Good, the Bad,

and the Ugly

5) For a Few Dollars More

The price will be the same as the All-Night James Bond Special. That is \$2.00 for men and \$1.00 for women, these prices are for the softdrinks that are to be furnished.

Between each film will be a short intermission for 'necessities.'

Remember!! Don't forget the chairs, pillows, blankets, and female companionship as you come. Just walk in, relax, and cheer for good Ole Clint.

NOTE\*\* The Surgeon General has stated that these films are not recommended for those of poor health and heart-problems, nor should it be shown to those under 14 years of age, for fear of Eastwood-mania.



# The Big Screen

by Dana Hofheins  
**MONTY PYTHON'S THE MEANING OF LIFE**

If you are a hard core Monty Python fan then this movie is a MUST to see. The six men of Monty Python have outdone themselves in tasteless and biting satire on everything from birth to death with a few extra

subjects thrown in for laughs. Their satirical comedy ranges from a slightly entertaining ridicule of "The High Seas of Finance" to a witty ANNIE-like number entitled "Every sperm is sacred, every sperm is great" which bears down on Catholics, Protestants and Jews. If you desire a more tasteless scene

that will make you wish you had a barf bag, then be patient because Monty Python has included a restaurant scene ridiculing the rich that is just plain SICK.

If your taste is more for blood, guts and gore then the live liver transplant scene is for you, but this is certainly not everything that Monty Python has attacked in this film. They managed to burn the military, sex and education in one scene and satirize many other subjects in other scenes throughout the movie.

Many of the classic Monty Python techniques are also visible throughout the movie. We still have the interlude with a narrator at the middle and end of the film, and many of the women are played by men in drag.

The "Meaning of Life" is one of Monty Python's most satirical comedies to date and the moviegoer should be prepared for a very poignant and bizarre film.

## Daffynitions



by John Rohlfing

by John Rohlfing

Maybe one of the following job choices will aid you in your search for work.

**actor** — a man with an infinite capacity for taking praise.

**complaint clerk** — whine steward.

**disc jockey** — a person who lives on spins and needles.

**executive** — a man who talks to visitors so the other employees can get their work done.

**expert bookie** — wizard of odds.

**golf course manager** — keeper of lawn order.

**lecturer** — traveling man who expresses himself collect.

**plastic surgeon** — pan handler.

**producer** — a man who stands in the back of the theatre on opening night and wishes he were dead.

**psychologist** — a person who pulls habits out of rats.

**real estate agent** — the man who wants to put you on his wailing list.

**sales manager** — a man who earns his living by being a slave to conventions.

ΣΝ ΑΤΩ ΔΑ ΛΧΑ ΘΗ ΦΙΛΙ  
**FRATERNITY RHO**  
 by Jim Grimshaw

Alpha Tau Omega activated twenty Little Sisters on Sunday, March 27th. Activation is the culmination of weeks of fund raising projects, work sessions and a knowledge of local and national fraternity history. Also, weekly meetings are held, with Little Sister Chairman Brad Brinker presiding.

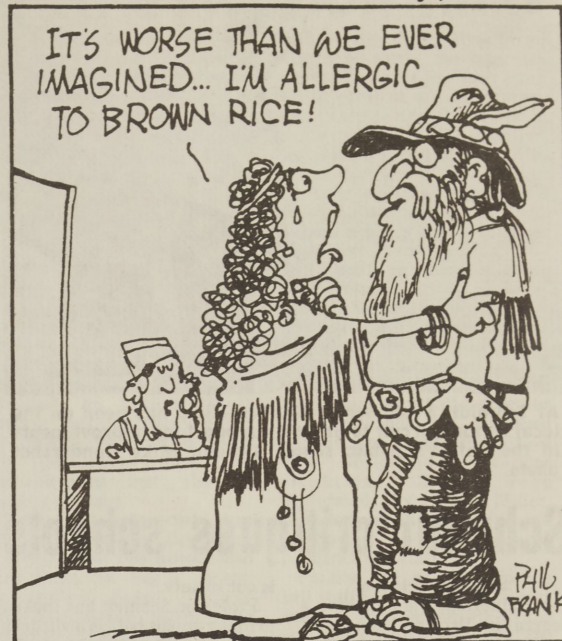
Greek Weekend pairings were set at the last Inter-Fraternity Council meeting. This year six fraternities will be competing in the games with four fraternities in the evening's Songfest. The

new cart course is different only on the first leg, which will begin behind the Hulman Memorial Union.

On Saturday, April 9th, Lambda Chi Alpha had its White Rose formal dance. Chris Flynn, Social Chairman, arranged the event.

In the annual Delta Gamma Anchor Splash, Lambda Chi Alpha placed third overall, leading the Rose fraternities. Alpha Tau Omega was fourth place overall.

## FRANKLY SPEAKING ...by phil frank



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### Page 5:

## The economic squeeze is on

by Hek O. Guy

In the economic crunch which instantly followed the hiring of a Purdue graduate as the head of the Federal Reserve Board, Rose-Hulman has fallen into hard economic times. This fact, coupled with substantial investment losses from a crop failure in Columbia, has forced President Sam Hulburp to take desperate measures to resuce the Institute's finances.

Jim Shorts, Director of Hounding Alumni, has organized a telephone marathon to raise some extra cash. All student organizations are invited to help with the telephoning, which will take place during the next three weeks from 1:00 to 4:00 a.m. every night.

Not to be outdone, the Development Office has struck a deal with the Terre Haute Motors which will at last keep the Institute in zeromobiles for a year or two. Realizing that the Union has been rented out on weekends for years, the Development Office will rent out Speed Hall as a used car showroom on weekends (see photo). The new dealership, Sam Hulburp Amalgamated Motors (S.H.A.M.) will also employ several M.E. professors in its service department.

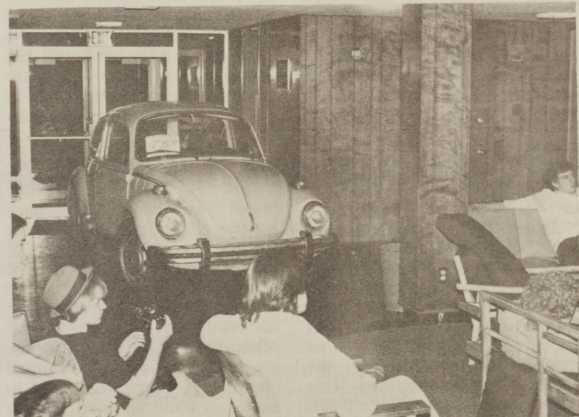
The Electrical Engineering Department will be expanding its blackmail operations with the new eavesdropping equipment developed as a senior project. In addition, graduate students will be required to do directed research in television repair.

The Computer Science Department will be sponsoring an all-night basketball marathon. Entitled "Dribble For Those Who Do," the money raised by this will go to replace that lost when the plan to install coin operated terminals fell through.

The Thorn will be helping out by running half-off coupons for

academic buildings and "Buy one cyclotron, get one free" coupons.

Even Dr. Hulburp himself has taken on a part-time job by using the Institute's Mercedes as a limo service. Commented Hulburp, "So long as I don't tell them any stories, I can usually get a pretty good tip!"



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## The THORN

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# Thorn Sports

## Tennis team takes third

by Dale Bennett

On Easter weekend, while most Rose students headed home for the three day mini-vacation, the Engineer tennis team went to Wabash College for a five team competition. The end result was a hard fought third place finish. The four points separating Rose and Butler University, who finished first, show how close the competition really was. Rose came up with one first place finisher, as senior Greg Hulbert took top honors in the number six singles spot. Don

Akers, playing number three for Rose, and Mike Smythe, playing number five, both ended up as runners-up in their respective spots. The three remaining players — number one Brian Ramey, number two Cary Stokes and number four Tim Beer — all finished third. In doubles action, the team of Akers-Smythe captured first place (third doubles), Stokes and Ramey placed second (first doubles) while Peterson and Beer (second doubles) took third place honors. Head Coach Randy Dickens

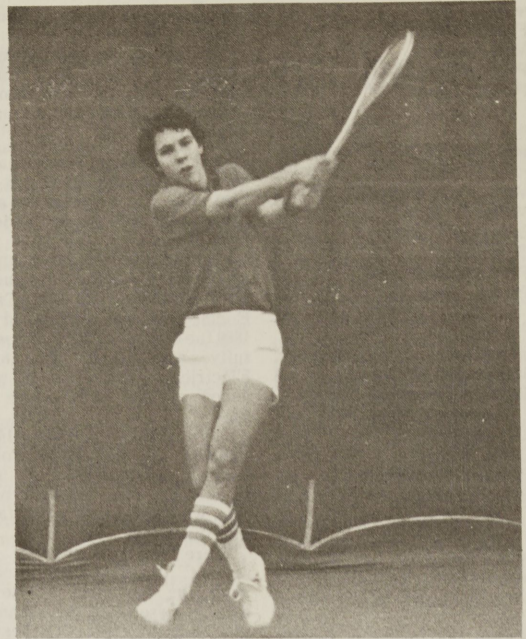
pointed out that the team is playing much more "aggressively" as the season progresses. He said that the bottom three men have been especially productive all year long and that the top three men are starting to come on strong now. This will be a definite "advantage" as the team strives to improve their 4-6 season record. Coach Dickens noted number three Akers as being the most consistent player on the team so far.

In other action, Rose whipped a surprisingly weak Indiana Central University team on Friday, April 8, by a score of 9-0. The remaining eight matches, five of which are home, all should provide a good test of the team's strength before they head into the C.A.C. Conference Tournament, being held here at Rose-Hulman this year on May 5-7.

can you consider the peaceful uses of outer space without technical aspects? But that's how it goes . . ." And so it does, perhaps even in the real UN.

In comparing the overall abilities of the political science majors from such places as Harvard, Georgetown, and Duke, delegate Rob Jacoby stated, "We as engineers are really more informed than most poly-sci people. They love rhetoric and really avoided setting into the 'sticky details'."

The Rose UN team is advised by Dr. Ann Morgan of St. Mary-of-the-Woods and sponsored by Dr. Thad Smith, Professor of Political Science.



Greg Hulbert's powerful return was not enough to keep the Rose-Hulman Tennis Team from losing to Butler 7 to 2 last Tuesday. The Engineers will be traveling to St. Louis today and tomorrow. File Photo.

## U.N. team

nation's policy goals through five days of public debate, private consultation, parliamentary maneuver, legal drafting, and group negotiation. Delegate Steve Pettit stated that NMUN showed him, "... how to negotiate with people — tell them your position, find common ground, and see what you can come up with towards common goals."

In addition, students benefitted from the opportunity to hear about and discuss current issues with experts from the United Nations community. Mr. James O. C. Jonah, Secretary-General of the Second World Conference to Combat Racism and Racial Discrimination, delivered the Keynote Address at the opening session, held in the General Assembly Hall of the UN. Also, each committee had the opportunity to hear and

question a member of the UN Secretariat who is an expert on an item the committee considered.

As far as learning about different political ideas, the students at NMUN do not usually share an "engineering viewpoint." Most students at NMUN are political science or law majors from schools that offer NMUN as a semester-long course and their performance at the conference serves as a final grade in the class. Thus, their motivation and goals were very different.

Sometimes it seemed that the "engineer's viewpoint" was really needed in discussions. According to Rose delegate Pettit, "We had some very intelligent people in committee, but most people didn't want to worry about technical details — only the political issues . . . How

## Golf team begins season

by Jim Grimshaw

The Rose-Hulman golf team was busy last weekend, despite rain and below freezing wind-chill temperatures. On Saturday, April 9, the team played in the Anderson Invitational. They finished 9th out of 13 teams in a very close race, shooting a 5-man team score of 404. Sophomore Mark Adams led the team with a 79, Rob Haynes-80, David Bramer-80, Ron Neumeyer-81 and Terry Butcher-84. Cedarville won the tournament with a 387 team score.

On Sunday, April 10, the team played in St. Louis in a Triangular meet with University of Missouri, St. Louis, and McKendree College. Rose finished third with a 4-man team score of 328. University of Missouri, St. Louis won the tournament with a 314 and McKendree College, one of the teams to play in the Rose-Hulman Invitational, had a 323. Rob Haynes led the Rose squad with a 77, which was good enough

to tie for second place. Mark Adams shot an 81, Ron Neumeyer-84, and Steve Davidson-86. Freshman Neumeyer added a little excitement to the day when he missed a hole-in-one by 6 inches.

The third annual Rose-Hulman Invitational started today, with 18 holes of play today and 18 holes tomorrow at Hulman Links Golf Course. Tee times started this morning at 8:30 a.m. and play will continue until about 3:00 p.m. The same times apply to tomorrow. Ten teams are competing for the title, one of them being last year's Conference winner Centre College. Hanover College and Millikin University, last year's first and second place winners in the tournament, are also playing. Rose has two teams entered. The first team is led by Sophomore Mark Adams who won the tournament last year with a 36-hole total of 158. Details of the tournament will be included in next week's Thorn.

## Rose history

engines had no headlights and no cow-catchers; therefore, no trains ran at night and history states that "many cattle were killed." He contributed very largely to railroads from Terre Haute to Evansville, Crawfordsville, and to Danville, Illinois.

It has been said that while traveling back and forth over the railroad between Terre Haute and Indianapolis supervising construction, the idea of an engineering college was born. Mr. Rose and his associates had great difficulty in getting men with technical training to come so far west at that time and remain until the road was completed . . . Chauncey Rose decided there should be proper opportunities in the new West for young men to study engineering. Quoting from a Mr. Condit (for whom the President's home, Condit House, at I.S.U. was named).

"It is known, possibly, to only a comparative few, that Mr. Chauncey Rose seriously contemplated founding and endowing a College for young ladies in Terre Haute . . . and, instead, substituted for it, Rose Polytechnic Institute, a school of technology for young men."

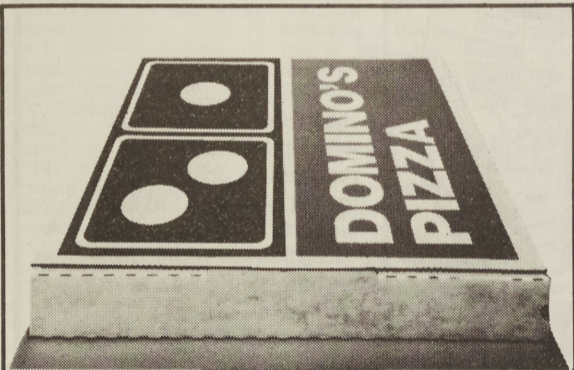
For several years prior to 1874, Chauncey Rose considered the idea of founding a school in which the students would be taught the industrial sciences. The state institutions which had been organized in the Middle West by 1870 leaned more

strongly toward agriculture than toward engineering. Mr. Rose was, therefore, a pioneer in engineering education in this region as he had been a pioneer in settlement and business more than fifty years earlier.

With a number of trusted friends and business associates, Chauncey Rose formed a corporation on September 10, 1874, known as the Terre Haute School of Industrial Science. The Board of Managers was organized in October, 1874, and in 1875 a contract was let for the construction of the academic building (at the present site of the Chauncey Rose Junior High School in Terre Haute). On September 11, 1875, the Board of Managers changed the name to Rose Polytechnic Institute, in spite of Mr. Rose's protest.

For comparison, present-day students may find it interesting to consider the original curriculum (March, 1883):

Cont. on page 4




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## Schmidt—

engineering enrollment has dwindled to six percent. Other attitudes which permeate our society are evident by the emphasis placed on the sports figures and their multi-million dollar contracts.

On the other end of the spectrum, however, are the teachers. A study was conducted which compared the SAT scores, high school standings, and other general indications of academic achievement of college graduates in their different majors.

Out of 32 majors, math, science and engineering ranked among the top 4 while education majors came in 29th. Granted, there are many proficient teachers, but they are being discouraged by the low pay, obsolete research equipment, and forced lower standards, such as those needed to accommodate the general education students who take one semester of chemistry.

And yet, between the teachers and the students lies the somewhat irrational parents striving to vindicate themselves and their offspring for the low quality of education. One such parent, in a letter in the Terre Haute newspaper, blamed the teachers: "if somebody would make them teachers do their job, students wouldn't have to do no homework."

The fundamental problem does not lie solely with the teachers, the system, the students or the parents. But the solution rests in society's attitude toward our educational system.

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Mathematics	7
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Private Study	14
	52
<b>Sophomore Year</b>	
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Mechanical Drawing	6
Mathematics	6
Language (foreign)	4
Chemistry	4
Practice/Shop work	10
Private Study	20
	52
<b>Junior Year</b>	
Mechanical Drawing	6
Mathematics & Theoretical Mech.	4
Language	4
Chem. & Phys.	4
Practice/Shop Work	10
Private Study	24
	52
<b>Senior Year</b>	
Mathematics	5
Language & Ethics	5
Physics	3
Chemistry	1
Engineering	3
Practice	10
Private Study	25
	52

The first president of Rose Polytechnic Institute was Dr. Charles O. Thompson, who was formerly the Principal of the Free Institute of Industrial Sciences at Worcester, Massachusetts. (later, Worcester Polytechnic Institute). His inaugural address, which is well worth reading in its entirety, includes the following:

"The study and mastery of the principles of physical science, the ability to express those principles in drawings and description, and to apply them to the solution of practical problems through machinery and handicraft are the essential qualities of an engineer . . .

"Engineering is the term that includes all the arts of production and construction which arise from the physical sciences. Its object is to bend the forces of nature to the service of man (emphasis added) . . .

"The engineer is distinct from the artisan or craftsman by exactly the amount of his knowledge of scientific principles which underlies the practice of his profession and his resulting ability to apply those principles to the ready and complete solution of real problems as they arise . . .

"The polytechnic school has always offered to the qualified boy (\*) a good education based on drawing, mathematics, the living languages, and the physical sciences . . . The course of study in a polytechnic school is determined by long experience, and in all countries is substantially the same . . .

"Men are born as ignorant as they ever were, and the same steps from ignorance to the elements of all knowledge must be taken by every one. This work usually occupies the first fifteen years of every human life."

(\*)

In 1883, candidates for admission were required to be at least 16 years old, and the minimum requirements for admission were equivalent to about two years of high school. In 1886, requirements were advanced to the equivalent of at least three years of high school work, and plane geometry

and more advanced algebra were added to the examination (for admission) subjects. Since 1905, the requirement for admission have graduation from a four-year high-school.

Faculty meetings were usually held on Saturday mornings at 7:30 and . . . the progress and deportment of every student were discussed.

From 1883 to 1887, Mechanical Engineering was the only course fully established. In 1887, Civil Engineering was added and in 1889 the course in Chemistry was fully established. In 1893, Electrical Engineering was added as was Architecture in 1898.

From 1883 to 1908, 1406 students attended Rose Polytechnic Institute and 526 graduated — a 36% survival rate, which held nearly constant until the 1950's!

There were a number of student organizations almost from the beginning at Rose. Among these were the Technic, the Modulus (1892), Orchestra (1889), Glee Club (1896), Mandolin Club, YMCA (1889), Camera Club, Scientific Society, the Telegraphic Assn. (1889), and Student Council (1899).

Near the end of 1918, Rose applied to be admitted to the Reserve Office Training program.

Rose Polytechnic Institute was moved to new facilities on a part of the original homestead of the Hulman family in 1922.

Herman Moench joined the Rose faculty in the fall of 1930 as an instructor in the Electrical Engineering Department, having graduated from Rose in 1929. Prof. Moench later served as Chairman of Electrical Engineering, twice as Acting President, and was, for many years, Dean of Engineering before becoming Senior Vice President. His long years of dedicated service to his profession and to Rose have made him the most influential and appreciated person in the lives of more Rose students than anyone else.

During the second semester of the 1938-39 school year, the faculty voted to put into effect a revised curriculum. This provided for a larger amount of required work in the humanities and social sciences. Fourteen (semester) credits in this field were required during the freshman and sophomore years and twelve (semester) credits were required during the junior and senior years. This new curriculum also provided for eliminating the thesis requirement for graduation.

Irvin P. Hooper joined the faculty in September, 1940, and served many years as Chairman

of Mechanical Engineering, then as Business Manager before returning to full-time teaching.

During World War II, Rose became a college associated with the Army Specialized Training Program to help train engineers for the war effort. From 1942 until 1951, Rose operated on a year-round basis with freshmen entering every quarter and seniors graduating every quarter.

Darrell E. Criss graduated from Rose in 1943, and after his military service in World War II, joined the faculty in 1946 as an instructor in electrical engineering. He then became Chairman of Electrical Engineering, the Dean of the Faculty, and then assumed his present Chairmanship of Computer Science.

In 1945, Rose ranked fifth among the institutions tested by the Carnegie Foundation study of applications examinations for freshman engineering students.

From the time Moench Hall was built until 1948, the only dormitory on-campus was Deming Hall, which also housed the Food Service in its basement. The only athletic facilities were the gymnasium (where the current Auditorium is located) and the football field with one small set of permanent bleachers and a cinder track. In 1948, a surplus B-29 hanger was

erected and became known as the Shook Field House.

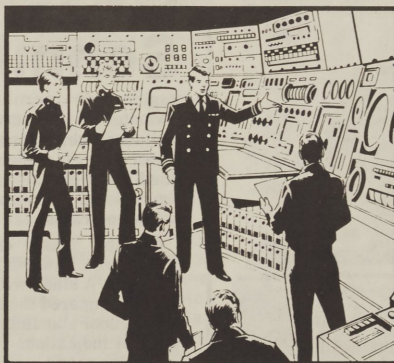
Beginning September, 1954, the faculty provided that classes were to be regularly scheduled from 8:00 a.m. to noon on Saturday.

In 1956, Rose became the second engineering college (after M.I.T.) to require differential equations of all students. At this time, the curriculum shifted away from hands-on shop and craftsman work toward an engineering-science curriculum.

Theodore P. Palmer, Chairman of Mathematics, initiated the move to grant degrees in Mathematics, Chemistry and Physics which was adopted by the Board of Managers in 1958. He also had advocated the formation of a Computing Center which came to be with the dedication of the Waters Computing Center in December, 1959.

The largest freshman class in the history of Rose — 176 — entered in September, 1961. The student enrollment for the school year 1961-62 was 475 for the first semester and 449 for the second. The faculty recommended and the Board approved that 200 freshmen be admitted to the 1962-63 year so that Rose would have a student body of about 600 students.

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