THE ENGINEER -- A TRANSFER POINT
IN OUR MODERN SOCIETY

The following is the first place Tau Beta Pi essay written by Steve Duncan, Senior Math Major.

Reminiscing, I suddenly recalled a moment of my past that at first glance seemed innocent. My father had given me a picture of a rather comical character who appeared befuddled and lacking in normal intelligence. Beneath this humorous fellow were printed weird scratchings of seemingly foreign origin. But to my amazement when the strange script was held before a mirror it became most clear. The caption read: "4 years ago I dint know whatta inguner was, now i are one!!!" After reflection upon this comical thought from the past, it seemed that several important and serious contemporary dilemmas of the engineering profession were expressed implicitly in the passage.

The "inguner," a rather profound creature, has probably done more through his technological influence to change society than any other single element of modern civilization. But as our friend might suggest, the engineer has contributed from a backward, isolated and somewhat oblique part of our society. The engineering student in four years of well-planned education will undergo metamorphosis. Then he will be quickly placed in a position of responsibility, a place of initiating technical and, of course, economic, social, and political change. He will find a place of isolation protected by technical jargon, walled heavily by a status quo attitude, and fortified by professional organizations and corporations that discourage social debate and professional response about the effects of technical decisions on society. From within these fortresses the engineer makes the decisions that immediately affect the present and future state of civilization.

Many of the problems that we face today are in part the result of such a system of technical discipline. It would appear, as our friend's backward caption suggests, that the engineer has reflected back into the era of the feudal system.

But as the mirror has been able to rectify the comical note, so can a sharp reflection upon the engineer's role in the civic concerns of our society suggest the way for the Renaissance of the engineering profession. The engineer is placed by accident, but possibly by plan, into a very exceptional position in relation to the two worlds of society and technology. Endowed with the ability to comprehend problems and trained to solve them, able to work in the tech-

GRAB A FREE MEAL

The Rose-Hulman Student Government, in conjunction with the Terre Haute Chamber of Commerce, is sponsoring a "Student in the Home" dinner on Sunday, February 21.

Interested students from Rose-Hulman, St. Mary's and I.S.U. will spend this Sunday evening with a family in Terre Haute, consuming not only a delicious meal but the benefit of discussing the ideas and goals concerning the Terre Haute college student relationship. Find out what Terre Haute has done for the college student. Are there any plans to provide "hang-outs" for college students (18 years and older)? Get the answers to these and other questions by participation in this program.

Complete and cut out the blank section below and return the completed form to BOX 1162-3 before February 6. You will be matched with a family and will receive their names via campus mail.

This project is limited to students not living in Vigo County and it would be greatly appreciated if you would not reply unless you plan on attending the evening meal and discussion.

NAME ____________________________

CAN PROVIDE OWN TRANSPORTATION ___ YES ___ NO ___

DATE RETURNED ___________________
studying "p-diatic 2-manifolds" should not be forced to learn how to open and shut valves. Also a student who will only use theorems perhaps should be spared the proofs of these theorems.

A committee of Professors (Schmidt, Oexmann and Hane) has been appointed to consider requirements for majors and to suggest changes. I am sure they would welcome suggestions from existing and potential majors.

Since the days of Zeno (500 B.C.) mathematicians have been competing to show who is best at solving a problem by proving a theorem. In this tradition the Rose Math Department is active in three contests each year. In November we sponsor with St. Mary-of-the-Woods College a high school math contest. This year we had a record turnout of about 500 contestants.

Rose students are participants in two contests each year. On December 5 four students (Tom Dehne, Steve Duncan, Bill Lipp, and Dennis Anto line) returned early from vacation to take the six-hour Putnam Examination. They were competing with the top math students from all over the U.S. The results will be known in about six weeks.

The third contest is among Indiana colleges and is held in the spring. We have been second in the last few years and the goal is first this year.

Finally in closing let me quote that famous philosopher (whose name I have forgotten but whose quote I remember)

"One who is ignorant of the calculus cannot call himself a humanist."

—Dr. Herbert Bailey

THE BIOLOGICAL ENGINEERING DEPARTMENT

A Department of Biological Engineering granting both B.S. and M.S. degrees in Biological Engineering was established by the Board of Managers of Rose Polytechnic Institute in September, 1967. It is believed to be one of the first separate departments of biological engineering in the nation.

The formation of this new department is recognition by Rose Polytechnic Institute of the engineer's responsibility to assist in solving problems related to biology. Some engineers, namely fermentation, agricultural and sanitary, have for a long time combined engineering with specific areas of biology. Recently, special fields including medical engineering, human factors engineering and bionics, have developed to fill various needs of industry and government. These fields are populated with people who have been engineers first and have pursued education in biology at the graduate level.

At Rose Polytechnic Institute the philosophy of educating engineers in biology is somewhat different than at other schools. First, we are firmly convinced that there is a need for an engineer having basic knowledge of biology. Without this con-
If you are a senior...

1971 could be the most important year of your life.

As you contemplate one of the most important decisions of your life, you will want to remember this: it is not just "a job" you are seeking—it should be the beginning of a career. And if it is to be successful, both you and your employer must need and want each other.

To help you with your decision, we invite you to consider the opportunities at Pratt & Whitney Aircraft. Currently, our engineers and scientists are exploring the ever-broadening avenues of energy conversion for every environment... all opening up new avenues of exploration in every field of aerospace, marine and industrial power application. The technical staff working on these programs, backed by Management's determination to provide the best and most advanced facilities and scientific apparatus, has already given the Company a firm foothold in the current land, sea, air and space programs so vital to our country's future.

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- ENGINEERING MECHANICS

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A woman and her daughter hurried to the airline terminal. The woman asked an agent for a ticket for Magnolia.

The agent turned to his timetables and looked all through them to see where the town of Magnolia was located. After a fruitless search, he turned to the woman and said: I'm sorry, madam, but I don't seem to be able to find Magnolia anywhere. Can you tell me where it is?

"Why, she's sitting right over there," the woman said, pointing to her daughter.

And if I take the job, I'm going to get a raise every year?"

"Yes," answered the boss to a shaggy-haired character in tennis sneakers, "provided of course that your work is satisfactory."

"Aha! I though there was a catch somewhere!"

"Good news! I've saved enough money for us to go to Europe," she said excitedly.

"Wonderful," said her husband. "When do we leave?"

"As soon as I've saved enough for us to come back."

THE 1970-1971 ENGINEERS:

Unknown, student manager; Jim Hammon, Clay Black, Terry Eades, Tom Butwin, Mike Kilpatrick, Denny Radecki, Dallas Canfield and Dan McEwcn, student manager. Standing:

Bob Kaufman, assistant coach; Randy Wadsworth, Tom Hans, Mike Bennett, Jim Eppen, D. J. Cordero, Gary Dougan, Larry Erwin, Joe Snyder and Coach John Mutchner.

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On Campus Interviews

February 4, 1971

RCA
REACTION
(Continued from Page One)

The far reaching effects of it, the students presently attending the Institute cannot be expected to exhibit the enthusiasm which the administration has every reason to show. It does not lower tuition, lessen class crowding, or anything comparable to it at the moment.

What ought the reaction by the student body be expected to be? Certainly, the student at Rose-Hulman who believes that the Institute that nothing has really changed in any way has missed the worth of the foundation completely, that of providing a large block in the financial footing for development of the Institute in the future. Yet, wild jubilation would certainly be unexpected. The student at R.H.I.T. has not been affected directly by it, and until this does occur, the feeling will probably remain one of reserved enthusiasm.

—Cecil Whitager

Two duffers were enjoying their liquid refreshment at the 19th hole one day.

"My wife says she'll leave me if I don't stop playing golf."

"Gee, that's too bad," said his friend.

"Yeah, I'll really miss her."

A marriage counselor began to ask a woman some questions concerning her disposition: Did you wake up grumpy this morning?

"No," she said. "I let him sleep."

THE ENGINEER—A TRANSFER POINT

(Continued from Page One)

In the technical world, be it in the community, the engineer is placed between society and technology as a transfer point. A transfer point of ideas, understanding, and compromise between two often conflicting but mutually dependent concerns. If the engineer is able to become as active in civil, political, and social interests as he is in technology, it is possible, or better, inevitable that he will be a potentially powerful social tool. By being educated and concerned with the issues and problems that face the community on all levels, (local, state, national), the engineer will be able to make the considerations and decisions that are socially relevant and are so desperately needed in our changing environment. Conversely, also by being effective and expert in the technical world, he will be able to relate his technology to the social community by making people aware of the social effects of technological developments. Thus we have a new transfer point, a balance point for social change and understanding. Only social development matched with technical competence can equip the engineer for the future ahead.
BMOC

This week's Big Man On Campus is none other than Darwin W. Lovelass. Darwin is a super-senior from Nurd Valley, North Dakota, and his major is Arithmetic. He is a member of Delta Dil Dee Fraternity.

Dorrie, as he is affectionately called by his friends, is one of the leading users of our computing center. You can see him and his friends using the computer almost every hour that it's open. Recently, he made Rose history by being the first student to organize STGI (Students To Get In Your Way At The Computing Center). His favorite pastime is hanging around the field house and waiting until one of the lights burn out in the scoreboard. He then runs like a bullet up to the administration building and uses the rest room.

Friday nights, for Dorrie, are spent hurling insults at the toilet facilities at Rose-Hulman. He claims that when you sit on a stool it's like sitting on a coke cup perched high atop a telephone pole. Nevertheless, he does have a good time on Saturdays. He gets up at six, puts on his Rose sweatshirt and with his slide rule on his belt, goes to town. Make that Pride City. Dorrie fondly remembers one of the times he was hitchhiking back to Rose. Six girls came by and asked if he needed a ride. Darwin, bewildered, says that when he approached the car they bolted away laughing, and threw something like a balloon at him.

Some scandal recently involved Darwin and campus notable, Stu Baerley. Stu claims that Darwin started AS (Arithmetic Service Society) just so that Darwin could be president and get some points toward an honor key. When asked for a comment on the accusation, Darwin said that he could have gotten the honor key by only being vice president.

Let's hear it for Rose-Hulman's BMOC of the week, Darwin W. Lovelass.

TOMMYKNOCKERS

by Bill Strahle

ITEM: The first edition of Rose Thorns left a bad taste in my mouth. An underground paper is a good idea if it is well done. By this I mean well thought out, properly developed and appropriately presented. The first issue was sadly lacking in all three. Perhaps the author will find these general objections valid, and not just a put down. There certainly is a place for an underground paper here at Rose.

ITEM: Has anyone read a recent copy of The Seed? Make amends with Big Brother and bust your friends!

ITEM: Any truth to the rumor that the Terre Haute Tribune will be renamed The Inklings?

ITEM: Why doesn't this paper have cartoons? Surely one student knows how to trace frames from Zapp Comics!

ITEM: Will the Rose Racers be able to go to the Spring Nationals? As the club does a lot to enhance the image of Rose-Hulman, will P.R. funds be allotted to help the club?

ITEM: If The Inklings has such a large staff—look at the "credits" in this issue—then why is it so difficult to put out an issue?

Tillie: Your fiancé is a charming man. He has a certain something.

Millie: Yes, but I would rather he had something certain.

THE BIOLOGICAL ENGINEERING DEPARTMENT

(CONTINUED FROM PAGE TWO)

The philosophy of education in biological engineering has not changed greatly since the department was formed. Our education in engineering and biology is designed to solve problems of man. The phrase "For the benefit of man" has been used extensively to define engineering yet few engineers know what man is, how he functions and what truly benefits him. It is out intent to train undergraduates for work in fields which combine biology and engineering, including medicine, agriculture, safety, fermentation, marine biology, and pollution control. They will bring engineering capability and a knowledge of biology to these fields which are so closely related to the "benefit of man."

—Dr. Robert M. Arthur

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INSTITUTE INKLINGS—PAGE SEVEN JANUARY'71
GOOD PARTICIPATION IN WINTER IM PROGRAM

Winter Intramurals have set another record for participation as some 42 basketball teams, 30 volleyball squads, and 23 bowling teams are entered in the various leagues. Already some fine battles for division championships are shaping up in basketball and both bowling leagues are quite close at this time.

In Major basketball, two head to head battles between Sigma Nu and Off Campus should decide Division A while Triangle and Blumberg - Scharpenberg will vie for Division B honors. In Major bowling, Triangle holds a 9-0 mark including a win over a strong SN squad. They are closely followed by Off Campus, 8-1, who dropped its only point to ATO. LXA, 7-2, with star Geoff Germain rounds out the top three.

Current standings in basketball include:

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Next Friday and Saturday the Engineers will host the Rose-Hulman Invitational Tournament with Centre College from Danville, Ky., Pace College, New York, and MacMurray from Jacksonville, Ill., as guests. First round games will match Rose with Pace and Centre with MacMurray. Many may remember that MacMurray displayed a fine club here last season and should provide stiff competition for the Rose-Pace winner in the Championship tilt.

The Engineers record now stands even at 6-6 after splitting their road trip to Kentucky this past weekend. Friday evening they easily disposed of a relatively weak Centre team by an 82-64 margin, but Saturday 13th ranked NCAA College Division Transylvania outclassed the Engineers 105-73.

The loss of center Jim Eppen has hurt the Engineers' rebounding and inside scoring in recent games, but the return to form of forward Larry Erwin as evidenced by his 13 of 18 from the floor and 29 point performance at Transylvania has been a bright spot. This Saturday, the Engineers travel to Earlham to battle the always tough Quakers led by center Dave Gray and guard Jerry Banks.

NEW CLUB DRAWS ATTENTION

This week the Institute Inklings pays its tribute to another worthwhile campus organization. The Student Government after prolonged debate has ratified the constitution of the official Rose-Hulman Bridge and Mambo Society. Boasting a membership of three students and one dummy the club has scheduled bridge tourneys and mambo contests with almost every D.A.R. chapter in the Midwest. Taking a moment from its busy schedule, the society has invited all interested students to its first formal rush party and strip poker game next Tuesday during convo hour in the student lounge. The society guarantees a gay time for all its guests.

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Wednesday, January 20, 1971

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