INSTITUTE INKLINGS

VOLUME 6, NUMBER 15 ROSE-HULMAN INSTITUTE OF TECHNOLOGY TERRE HAUTE, INDIANA FEBRUARY 18, 1971

“ENGINEERING DAY”

Students at Rose will join professional engineers across the nation in observance of National Engineers' Week Feb. 21-27.

You may want to know what the student engineers, in keeping with the National Society of Professional Engineers' theme "Engineering...To Improve the Quality of Life," will conduct Engineer Day at Rose Saturday, February 20.

Prospective engineers and scientists, teachers and the public are invited to attend the day-long activities coordinated by the Rose-Hulman chapter of Blue Key. Norman Klein, a junior mechanical engineering major, is chairman.

Engineer Day will begin at 10:00 a.m. with a keynote address by Rose-Hulman President Dr. John A. Logan, an internationally-known leader in the field of environmental health engineering. He will speak to the Engineers Week theme.

Tours of projects and special displays relating to the kinds of things engineers are doing to improve the quality of life are scheduled from 10:45 a.m. to noon in each of the engineering departments at the school.

Robert Ells, manager of plant engineering at the new Eli Lilly and Company plant at Clinton, will speak on “One Company's Approach to a Complex Industrial Waste Problem” when the program resumes following the break for lunch.

His talk promises to be of great interest in view of Eli Lilly’s efforts against stream pollution in the new Clinton facility.

Following a second round of tours of the projects in the afternoon, Dr. Dean Hill, associate professor of chemistry at Rose, will speak on the role of education of improving the quality of life, especially as it relates to the environment.

Kent Anderson, a senior E.E. from Russellville, Indiana, recently received word that he had passed a test to become a professional translator of Russian.

A New York company, Faraday Press, has offered Kent a part-time position translating Russian language articles on quantum electronics and optics into English. Kent has indicated that he will begin immediately to work part-time on campus while he is completing the requirements for a degree. He hopes to earn a little extra spending money, but, more importantly, he believes this is the opportunity to follow the latest Soviet developments in the field of quantum electronics and optics, which is his major field of interest.

Kent began studying Russian at Rose under Professor Priest. He took the five quarters of Russian that are currently available, during his sophomore and junior year. He carried Russian as an overload.

After being away from the formal study of Russian for ten months he took and passed a test given by a New York publishing firm which is interested in expanding its translation program. The pay is not great, he admits, but the job offers the advantage of allowing him to work in his spare time whenever he wants to. The job also offers him the opportunity of keeping abreast of the developments in a field in which he intends to do graduate work.

Professor Priest, his Russian teacher, believes, that in addition to the direct monetary and intellectual benefits from this translation there will be some valuable indirect benefits, “The experience of being a translator will increase Kent’s value to any graduate school or business he chooses to be with. With such a skill on his record, Kent should get more and better offers from industry than an ordinary student. He should also get more offers for better fellowships or assistantships from the graduate schools because of this.”

E. E. SENIOR IS PROFESSIONAL TRANSLATOR

NAME THE PAPER

You say you never won anything? Well, here is your big chance. Keeping in step with Rose-Hulman, the Institute Inklings has decided to change its name. All you have to do to win the grand prize is submit a name for the Inklings, along with your name and box number. If your entry is picked as the winning entry, you will receive one bottle of wine. (In case of a tie, you share the bottle.) Entries should be in box 605, no later than Thursday, February 25.

ROSE GETS GRANT

Rose-Hulman has been awarded a $5,300 research grant for work on a water pollution control instrument. The award was made by the Meter Manufacturing Company of Milwaukee, Wis., a leading manufacturer of water and wastewater instrumentation and controls.

The objective of the project, which will involve research by undergraduate students, is to utilize an automatic respirometer to measure the oxygen demand of wastewater. Oxygen demand is a measure of the pollutant load discharged to streams and lakes by wastewater, or more specifically a measure of the amount of oxygen needed by microorganisms to stabilize the waste.

Dr. Robert M. Arthur, professor and chairman of the biological engineering department, will be in charge of the research to be conducted at the biological engineering laboratory and at the Terre Haute Waste Treatment Plant. Local authorities will cooperate in the work.

Students selected for work on the project are Joe Utt, a sophomore from West Terre Haute, and Michael Rominger, a junior from Indianapolis.

Dr. Arthur, who drew up the curriculum for the nation’s first undergraduate program in biological engineering, has decided Rose-Hulman is the right place for a fast-track student who wants to get started in this field.

WR TR EXPANDS

Educated WRTR listeners who have been praying for better sound and reception will get their wish starting on Monday, March 15.

Mr. Paul Ford, owner and operator of WPFR-FM in West Terre Haute, has offered the Rose Broadcasting Club the use of his transmitters between the hours of 9:00 p.m. and 6:00 a.m. During this time, WPFR is normally off the air.

This set-up, which can easily be readied for use, requires only a phone line between here and the station. These combined facilities will give the Broadcasting Club 50,000 watts and a range of more than 70 miles in all directions. They will reach college students from Purdue to I.U.—a total of several hundred thousand potential listeners. The potential audience is over a million listeners, with over two hundred thousand being in the prime receiving area.

Persons interested in advertising to this audience, or desiring further information, should contact the Broadcasting Club at box 595.

Porter Speaks

Recently, we asked Professor Porter if he was satisfied with the Humanities department as it now stands and this was his reply. Basically, he felt that Rose has one of the best Humanities departments in the nation. The reasons for this are varied. First of all, the staff shows a concern for the student response to the material (Continued on Page Six)

(Continued on Page Four)
Editorial

Once again, the Asian war (remember when it used to be just the Vietnamese war) has been expanded; the reason being to expedite U.S. troop withdrawal. However, according to Dick Nixon, the Laos invasion is different from the Cambodian invasion, in that only troops from South Vietnam have invaded Laos. It would be nice to believe this. But, judging from past performances, it is difficult to accept this statement at face value. But even if there are no American ground troops in Laos, there are still Americans dying there. Last week, over 20 helicopters were shot down, each ranging in value from $100,000 to $250,000, which is incidental when compared to the human lives lost. Is it really worth the price in lives and money to be able to withdraw "honorably" from Asia?

Letter to the Editor

Dear Sir:

I would appreciate a response to an article written by our local member of the national press association. The article was written by a person who did not have the experience or knowledge to write such an article. I object to it on the grounds that it is biased and unfair. I do not object to Dr. Hill's objection to the Nick Nurd cartoon, I object, rather, to the undue influence it seemed to carry. If myself, or any other student, had objected to the cartoon, I seriously doubt if any action would have been taken. Yet, when a faculty member objects to a feature in a student newspaper, it is immediately withdrawn. All letters must be typed, and must be signed. The name will be withheld by request. Please try to make your letters brief and to the point. Letters must be in Box 605 before 3 P.M. on Mondays to be in that week's issue.

---Editor

---John Walter

If you know a girl considering an abortion

This message might even save her life!

It is no longer necessary for unfortunate girls to be ruthlessly exploited for profit by quacks and untrainedoperators. Now they can have perfectly legal abortions under strict hospital care. The new California Therapeutic Abortion Act provides that all services be performed by physicians in accredited hospitals. Last year it is estimated some 700,000 illegal abortions were performed in the United States. Almost without exception exorbitant prices were charged, hospital facilities were not available and a complete medical staff was not present to cope with emergencies. Some of those girls died unnecessarily. Others suffered severe infections. Still others will never again be able to bear a child due to incompetent treatment.

The National Abortion Council for Therapeutic Abortions and Family Planning wants to make sure that all girls receive humane and sanitary treatment. YOU CAN HELP.

If you know of a pregnant girl who is considering sneaking off to have her abortion in a germ-infected apartment or office tell her to call us. Our counseling service is free.

We recommend only the most reputable physicians; doctors offering fair and reasonable prices; services which will be completely within the law; services performed at accredited hospitals.

Physicians with a genuine and humane interest

Phone: (213) 464-4177

National Abortion Council for Therapeutic Abortions and Family Planning

1717 North Highland Avenue

Hollywood, California 90028

---Roger E. Emons

---David A. Hall

---Marshall L. Evans

(Continued on Page Five)
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.

We select our engineers and scientists carefully. Motivate them well. Give them the equipment and facilities only a leader can provide. Offer them company-paid, graduate-education opportunities. Encourage them to push into fields that have not been explored before. Keep them reaching for a little bit more responsibility than they can manage. Reward them well when they do manage it.

Your degree can be a B.S., M.S., or Ph.D. in:
- MECHANICAL ENGINEERING
- AERONAUTICAL ENGINEERING
- ENGINEERING SCIENCE
- ENGINEERING MECHANICS

If your degree is in another field, consult your college placement officer—or write Mr. Len Black, Engineering Department, Pratt & Whitney Aircraft, East Hartford, Connecticut 06108.
As a portion in Rose's continuing education series, a course on pollution is being given. The enrollees are mainly graduate engineers from local industries.

The eight hour course consists of two parts, air and water. Dr. Moore of the Chemical Engineering department is conducting the sessions on air, and Dr. Arthur, chairman of the Biological Engineering, is covering water.

The first class was general in nature and divided on both areas. The second meeting included the State Board of Health presenting the regulations and laws concerning pollution in Indiana. The sessions' topics were put to vote, and for air, control technology (study of available control devices) was chosen.

Pollution control is not a profitable endeavor and if it is, the process should have been engineered into the process earlier. As industry is a profit-making endeavor, the cost is necessarily passed on to the consumer.

I came to Rose many years ago, My engineering genius in hopes to show. At that time I had a choice, To be a ROTC gunner with Army boys,

Or be drafted when I got my degree,

An Army peon didn't appeal to me,

So a ROTC gunner I chose to be;

Then "Tricky Dick," our valiant pres.,

"We'll have a lottery," was what he sez.

"And if your name is number one,

We'll let you have a brand new gun;

And if your number is nice and high,

You'll get a chance for a long life."

So a lottery is what we had, And man was it ever bad.

Now here I sit a five year man, My golden genius has lost its tan.

The Army's waiting to send me afar

Wearing my brand new butter bars.

I chose ROTC to avoid the draft,

So now I own an Army shaft. My ROTC training will keep me alive.

With my lottery number of 255,

—The Fearless Flamer

Continuing Education Covers Pollution

Of available control devices

Wearing my brand new butter bars.

The Army's waiting to send me afar

I chose ROTC to avoid the draft,

So now I own an Army shaft. My ROTC training will keep me alive.

With my lottery number of 255,

—The Fearless Flamer

A brief capsule of each project follows:

Biological Engineering—Through use of a continuous tape and slide show and visual display, biological engineers will show engineering for the benefit of man through such topics as heart valve evaluation instrumentation; automatic water analysis equipment; an environmental chamber, and semi-closed ecological systems of communities in strenuous environments.

Chemical Engineering—Chemical engineering students will demonstrate a cyclone, electrostatic precipitator and a scrubber—all of which have commercial applications in purifying air exhausts.

Civil Engineering—Civil engineers will explain their unique Community—Academic Interaction program, and will play the "Community Land—Use Game" developed at Cornell University with the help of the Ford Foundation. Prof. Duane Sorensen of Indiana State University, who has had experience with the game, will lead the session.

Electrical Engineering—Electrical engineering will have an alphanumeric display, a device which interprets machine language of a computing circuit in terms of digits, letters or special characters as seen by led lights.

Mechanical and Aerospace Engineering—The mechanical-and-aeromechanical engineers have constructed cooling tower—nuclear reactor cooling tower—nuclear reactor system, as applied to pollution problems of industry.

ROSE GETS GRANT

(Continued from Page One)

in biological engineering (the program was launched in 1967) and is preparing a textbook for an undergraduate course in biological engineering, holds patent on the respirometer which will be central to the study.

Judge: Couldn't this case have been settled out of court? Defendant: Yes, sir—and that's exactly what we were trying to do when the police got there.

"ENGINEERING DAY"

(Continued from Page One) relates to science and engineering education.

Projects planned by the students range from one on logic circuits set to theme of neon lights in electrical engineering to what the civil engineers describe as an insight into their proposed "Terre Haute Urban Game."
It's the right time to do anything—when to sleep, when to hate. And all this for Christ, destroy the culture. Picket big business. The cities; purify the air; crude and a counter-culture. To overthrow the system. To stop the war, to start the peace; to clean up the .right time to do anything. It is the right time to start caring about people. There's nothing to laugh at. It's time to do something about how sad the world is.

It's the right time to laugh. We must laugh while we still can. To keep our sanity.

But no longer are the issues of immediate importance. The Urgency is what has become so urgent, and somehow, somewhere between the nursery rhymes and the classroom clock, we have learned well how to relate to issues, but not to people. Certainly not to ourselves. So we run, running after the hour hand as the minute hand chases us.

'Time is running out—and we're being run by the clock, rather than the clock being run by us. We are being told everything—when to sleep, when to get up, when to love, when to hate. And all this talk about honesty and kindness—that can only be achieved when we can overcome the clock, when we can overcome time as our enemy and ruler.'

Where is that medium between the innocence of youthful rhymes and the sophistication of truthful times?

There are black and white problems—the black and white of peoples' faces, the black and white of our air, the black and white of this newspaper print. But there's also a whole world of gray that desperately needs some color between those youthful rhymes and truthful times.

It's the right time to stop thinking about what it's the right time for and to start doing something.

And the hands on the clock, as they strike the hour, point to something. It helps us to keep up with the time as it flies, and it tells us the hour to sleep and rise; it's a friend that we need, as it hangs on the wall, ticking lessons of truth and good will to all.

NEXT YEAR'S FRESHMEN
(Continued from Page Two)

An Indian near the Nevada bomb testing grounds was sending smoke signals to his friend when an atomic blast sent him flying into a ditch 20 yards away. The Indian pulled himself together in time to see smoke billow out into the sky. He watched with silent awe for a moment and said: "Wow, I wish I'd said that!"
## SEASON STATISTICS

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## POLYTECHNIC BOOKSHOP

**Human Memorial Union**

**BOOKS** **SCHOOL SUPPLIES** **GIFTS** **NOVELTIES** **SUNDRIES** **CLASS RINGS** **IMPRINTED SPORTSWEAR**

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**TOMMYKNOCKERS**

*by Bill Strahle*

**ITEM:** It has been called to my attention that I made quite an error in my last column in regards to the article on medical school training. We will offer a series of courses recognized by medical schools as qualified background for submitting applications. For further information, feel free to contact Dr. Guthrie after the beginning of next quarter.

**LEST WE FORGET:** "In 1938, the State of Wyoming produced one-third of an edible dry bean for every man, woman and child in the United States."

—Varian Techtron, 1970

**ITEM:*** Yes, last week Dean Ross did order impound those copies of The Rose Thorns placed in the Mail Room for distribution. The reason being, the school should not have to foot the bill for distribution.

**ITEM:** Acquiring tenure: Academic puberty rites.

—Jack Lambert, K.S.U.

**FROM LAST WEEK:** Why doesn’t Rose offer a degree in Social Engineering? I understand that three or four years ago the Administration expressed some interest in “going co-ed” and offering a degree in the Humanities. Due to the small library holdings in the field of Humanities, it was suggested that we offer a general degree, B.S., in the Social Sciences. That’s as far as it has gone.

**ITEM:** If I am not for myself, who will be for me? But if I am only for myself—what am I?

—Author Unknown

**ITEM:** A certain beautiful, but dense, secretary took dictation from her chemist boss and got him fired when she quoted him in a report as having calculated his figures with a “dry drool.”

—Dale Hugo

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**PORTER SPEAKS**

(Continued from Page One)

presented. *Weekly* planning sessions by the department produces changes in the curriculum as a result of this. The biggest reason stated by Professor Porter, however, for the success of our program is the dedication of the Humanities staff, all have become specialists in general courses. This indicates a very big impact on the part of the staff.

When planning the curriculum, they always try to consider the classics and how they may be related to the engineer. None of these aspects takes precedence over another how ever that everyone may attend. With labs meeting for three and four hours in the afternoon it is difficult to schedule a class four days a week so that everyone may attend.

In closing, Professor Porter said that he felt that the Humanities department is making the average Rose graduate more perceptive to the world around him, his concern has been widened and deepened by his experience at Rose. However, “I don’t think we can look at evaluation in terms of what the department offers or what the student sees, everyone gets from the department what they want.”

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**Official languages of Lebanon are Arabic and French.**

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