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## Volume 5, Issue 12 - January 23, 1970

Institute Inklings Staff  
*Rose-Hulman Institute of Technology*

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# INSTITUTE INKLINGS

VOLUME 5, NUMBER 12

ROSE POLYTECHNIC INSTITUTE

TERRE HAUTE, INDIANA

JANUARY 23, 1970

## What's This? New Dorm Regulations

In an effort to make dorm living at Rose more possible, the Interdormitory Council and the administration have come up with the following revisions in dormitory living policy:

1) Residents of dorms may revise their rooms in any manner they wish with two provisions, first, that the room cannot be painted, and second, that the room should be left in the same condition that it was when entered.

2) Portable televisions, able to be carried by one man and not over 21" diagonal, will be allowed.

3) Compact refrigerators will be permitted. See the Jan. 16 *Inklings* for rules regarding refrigerators.

4) If you wish to do your  
*(Continued on Page Eight)*

## SNACK BAR PROPOSAL

If you would walk into the Snack Bar of Rose Polytechnic Institute, you might see a handful of students, very seldom any girls, and if you're lucky, a faculty member or two. "Why," you say, "isn't there any of the activity you'd find in the snack bars or grills of other colleges? This room is much more beautiful than any of theirs." Yes, it's beautiful, if you have a certain affection for hospital operating rooms. It is this sterile atmosphere which the Hulman Memorial Union Advisory Board is trying to change.

It seems that it is a fact accepted by most members of the Institute that the Snack Bar does not have a relaxed atmosphere. Since there is no place in the Snack Bar to be alone with a girl, few students bring their dates there. There is no place on campus where musi-

*(Continued on Page Two)*

## MUSIC MEN

After the shock of fall finals, after the relief of two restful weeks of vacation, the Rose campus came to life last week, and with this new life, one small group lifted their sights and voices to ambitious goals. You guessed it, the Rose Glee Club, more affectionately known as the "Forty Vibrating Vocal Chords," is preparing for a wonderful season of melody-making.

Some of the events scheduled for the rest of the year include singing at the first day of time trials at the Indianapolis "500" and in a joint concert with the choral group from Saint Mary-of-the-Woods. The spotlight of the year, however, comes the second week in May, when the Glee Club is planning a tour of several high schools in the Chicago area—two days of excused absence and lots of fun!

That's quite an ambitious schedule for a group which has grown from under twenty in membership last year, to include over forty active members, and membership is still open for anyone interested in joining. In fact, according to director Jack

*(Continued on Page Eight)*

## COL. STEINBORN IMPRESSED

Col. Steinborn, new professor of military science, has been here at Rose for two months now and has had a chance to look around and get his feet on the ground. Col. Steinborn said that he is impressed with the school as a whole and with the students he has had an opportunity to meet, having talked with approximately 150 sophomores.

As might be expected, Col. Steinborn feels that the ROTC program is a good one. It prepares the young Lieutenant to take a responsible position as a leader, for he must assume responsibility and authority and is thus able to gain valuable experience in a relatively short

*(Continued from Page One)*

## SURVIVAL OF THE FITTEST

Having completed one full quarter at Rose Polytechnic Institute, most freshmen have learned a few lessons necessary to their survival. Due to the hectic social life on the campus, the typical freshman quickly learns the value of heading for town to enjoy the multitude of social wonders of Terre Haute. Methods of transportation range from a strong right thumb and two sore feet to the newly-instituted Rose-St. Mary's bus; and, of course, there are a few who can always manage to get the keys to another freshman's car.

Once in town, the enterprising freshman can enjoy the refreshing atmosphere and the scenic marvels of Terre Haute. If he tires of these outdoor wonders, he (and his date) can take in a movie (take your pick: "de Sade," "Battle of

*(Continued on Page Six)*

## PI TAU SIGMA ELECTS NEW MEMBERS

The Rose chapter of Pi Tau Sigma, the national Mechanical Engineering honorary, has selected the following men for membership: Dennis Banks, Chuck Boesenberg, Jack Fuson, Gary Goodwine, John Hulka, Larry Loudermilk, Rick Pace, George Pope, Joe Sibrava, Arthorn Sirishinha, Bob Stormont (all seniors) and Jack Arney, Tom Gland, Winston Fowler, Roger LaCosse and Jack Parks (all juniors).

The Sigma Lambda chapter which was organized in 1967, now has a membership of 26 outstanding junior and senior mechanical engineers.

Some scientist has come up with the observation that a high alcoholic content in the body is good protection against A-bomb radiation. If this is true, it might be a good idea to have a bar in your bomb shelter.

## Tau Beta Pi Teacher Evaluation

The opportunity to become involved in the determination of the quality of education is being fought on many American campuses. Fortunately, at Rose we do not have to fight for the opportunity, though we must take advantage of the opportunity if this avenue of student voice is to remain open to us.

The teacher evaluation poll provides Rose students with one means of effecting an improved program. There are three main functions of the poll's results. One is to aid the instructor in evaluation of the material covered. This includes the textbooks used, the sequence of instruction, and related areas. A second function is to present the individual professors with objective and constructive comment on their teaching success. Criticism in this area should be given with very serious consideration as it is often difficult for a person to look at himself as he relates his teaching topic from his actual to his teaching. A final important function is the use by the administration in its examination of the academic quality of the school. The poll will provide the administration with a direct means of evaluating this academic quality. President Logan and his assistants will then be better able to strive toward the degree of undergraduate excellence desired.

The poll itself will be evaluated by Tau Beta Pi. Copies will be given to the faculty and administration. From there they must act in the direction which will develop the maximum quality Rose is capable of.

You received your polls earlier in the week and you have had time to consider your completion of the poll. This is your opportunity to express your concern for the quality of

*(Continued on Page Three)*

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LETTERS  
TO THE EDITOR

Dear Intellectual:

As a member of a college community you have been enduring the punishment of grades for at least twelve years. Did you ever question the usefulness of grades? Are they good for anything at all? According to the powers that be there are several major reasons for going through the tribal custom of handing out grades every five weeks (one week more often than the local kindergarten — compliments to WJB). The primary reason, they say, is that grades motivate learning. Furthermore, grades give employers and graduate schools a basis for determining student potential, initiative and conscientiousness.

Exactly what do they accomplish? For the "good" student grades are an ego builder. What does a 4.0 grade report say? It says: YOU ARE NEAT; you are superior; you are terrific; you are God.

For the "poorer" student grades have a different effect. Society tells this student that he must succeed according to the values of a technological world. For the Rose Poly student it means if you're not an engineer or a scientist then you're a failure; a second class citizen. This set of values is usually sufficient to motivate the student to cram and or

cheat his way through the educational machine.

Yes, grades definitely motivate, but what is motivated? A nervous breakdown, an ulcer, or an improved xerox technique? I don't know. Do you?

Let's now investigate the effectiveness of a grade in describing how much a student learns in a course. (Remember, our employers want to know this). Consider the following example: A mechanical engineering major has taken Electrical Science I and he received a B in the course by studying only three hours a week. Being rather "motivated" the guy takes Electrical Science II. This time, however, he's competing with only electrical engineering majors, the guys who are supposed to be really interested in this material. Consequently our poor M.E. has to study 12 hours a week and only makes a C. What went wrong? He probably learned four times as much as he did in Electrical Science I, but his grades certainly didn't indicate that.

O.K. If a grade doesn't say

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anything about what one learns then what does it say? Let's take an analytic approach. (R.P.I. agrees with this approach by the definition of R.P.I.) Grades are at least a function of the following:

1. Professor: Some professors teach a lot and give crummy grades. Others are soft on grades and teach very little.
2. Other students in the class: Remember how you made straight A's in high school.
3. Subject: Boolean Algebra is simpler than Topology.
4. Weather: Sunshine is inversely proportional to G.P.A.
5. Morality of your girl:
6. How much you learn: A grade is obviously a function of *at least* six variables and therefore we must give at least six grades for each course in order to be able to describe the event properly. In this light what does a good grade mean in our present system? Does it mean you took an Easy Ed course or does it mean your girl is frigid?

I would now like to congratulate you, Rose Poly, for your excellence in displaying this dubious data in a more refined and precise grading system. It reflects the sterling intellectual values associated with this fine institution.

Sincerely,

—JOHN L. HELLER

## SNACK BAR

(Continued from Page One)

cally talented students can share their talents with other students. There is no place where contemporary art and sculpture can be displayed in

the proper atmosphere. We feel that the Snack Bar can fulfill all of these needs with only minor remodeling.


In view of these conditions, we propose the following remodeling ideas:

1. Curtains on all outside windows: Curtains would cut down on the amount of light entering the Snack Bar. With curtains, students wouldn't feel as though they were on display, yet if anyone wished to look at the view, they could easily be opened.
2. Carpeting in the east end (lounge area): Carpeting would add to the relaxed atmosphere and would be comfortable enough for students to sit on if they wished to sit on the floor.
3. Booths in the west end: Booths would allow students to feel alone if they wished to bring dates on campus or just sit and talk with friends over a Coke.
4. Fireplace in southeast cor-

(Continued on Page Four)

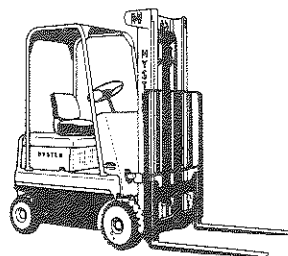
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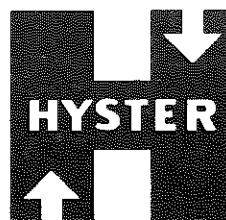
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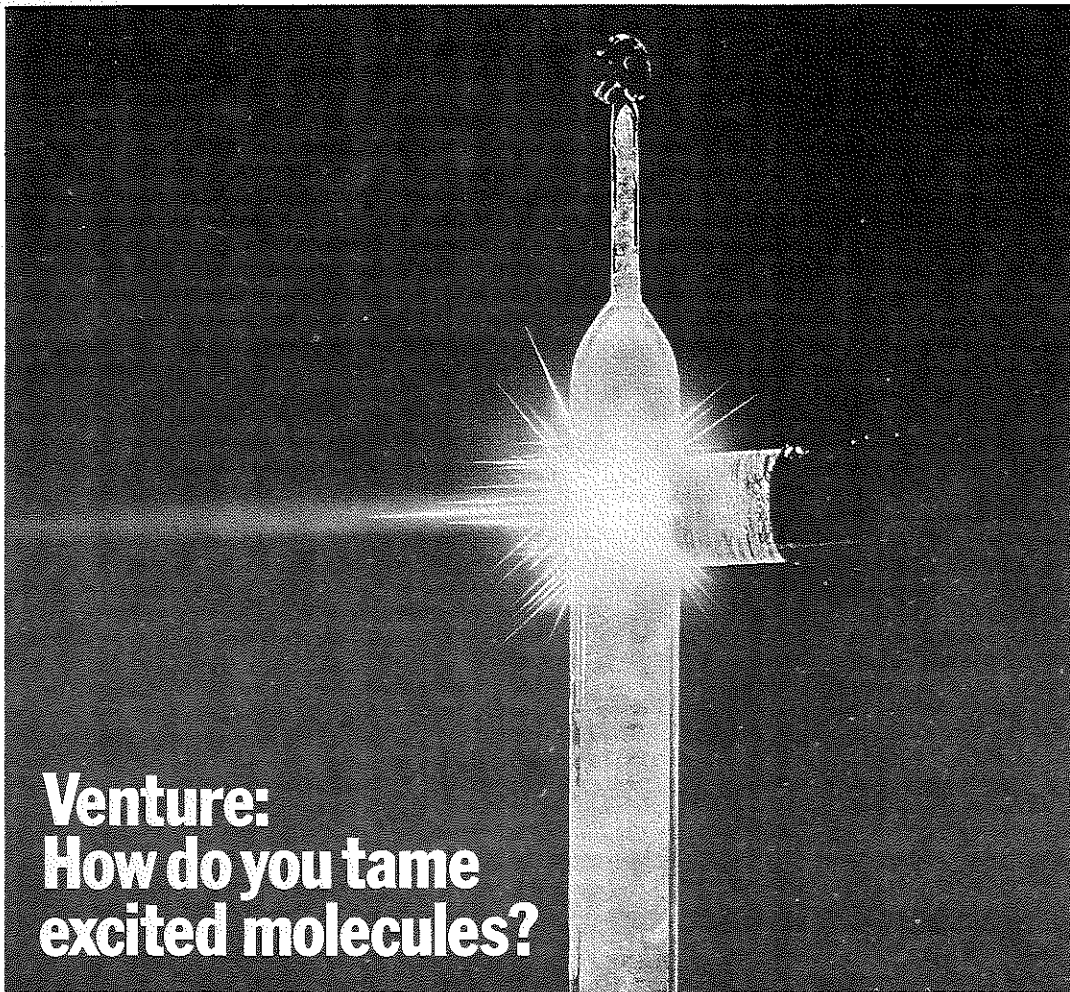


Our representative will be on campus

JANUARY 27, 1970

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## Venture: How do you tame excited molecules?

Answer that one and you'll open up a whole new field of solid state physics that just might come to be called "excitonics." Because the most exciting thing about excited molecules in solids, right now, is that no one knows what to do with them.

This intriguing state of affairs came about after physicists began firing photons into molecular crystals and observing the results. Which were: "excitons."

An exciton is a conceptual entity that has more "stateness" than "thingness" about it. When a photon strikes a molecule in an organic crystal with sufficient energy, it bumps an electron to a higher energy level, leaving a "hole" in the molecule. In the brief interval before it falls back into its hole, the electron releases the energy it received from the photon, which propagates another hole-electron pair in a neighboring molecule, and thus on

through the crystal.

This phenomenon is called the "singlet" excited state: or the singlet exciton. Du Pont scientists have produced it with a 150-watt bulb. In the singlet, an electron is excited without any change in direction of its spin or magnetic moment. It dies quickly, and a blue light emerges from the crystal. But with an intense light source, such as the laser, an even more interesting excited state has been produced: the "triplet."

In the triplet, the spin of the excited electron is reversed, a magnetic field is produced, and the excited state lasts a million times as long—about a hundredth of a second. Du Pont researchers have also found that two triplets can combine, producing a singlet exciton with greatly increased energy and a life span of a hundred millionth of a second. Of promising interest is that this tendency of triplets to merge can

be sensitively controlled by applying a magnetic field to the crystal.

Perhaps the next step will be the engineering of devices that manipulate light signals directly, bypassing the present need to convert them first into electrical signals and then back into light. Perhaps too this line of research will lead to greater understanding of the mechanisms of light-energy transfer itself, such as those involved in photosynthesis by living plants. The possibilities are many.

Innovation—applying the known to discover the unknown, inventing new materials and putting them to work, using research and engineering to create the ideas and products of the future—this is the venture Du Pont people are engaged in.

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## NEW CAMPUS RULES ADOPTED

In a meeting of on-campus residents last week, Dan Lawther outlined some rules changes which have been adopted this quarter. All of them attempt to make life just a little more enjoyable on campus.

Two of the best changes were in permission to have TVs and refrigerators in the dorm rooms. TVs are allowed if they have a picture of less than 21" diagonal, and are portable. Portable refrigerators are allowed if their capacity is under 3 cubic feet, and they draw less than one amp. These may be privately owned, or rented from the Student Government for \$10.00 per quarter.

As far as dorm rooms themselves, a resident can now do anything to his room that he desires as long as it is returned to the original condition when he leaves. This includes additions such as carpeting, which were not allowed previously. A dorm resident can also have any kind of empty bottles in his room that he desires. Empty beer bottles and liquor bottles will not be considered to be proof of drinking in the room anymore.

Another change announced was new Saturday brunch hours. The new hours are from 10:30 to noon, instead of from 9:30 to 11 as they have been in the past. The switch was made to allow students with Saturday labs to make lunch.

Mr. Lawther disclosed that plans were also being made to gain expansion of open dorm hours and premission to have hot plates and popcorn poppers in the room.

Finally, it was announced that a committee under the direction of Henry Balough, IDC president, is in the process of rewriting the student handbook. They are attempting to weed out obsolete rules and replace them with newer ones.

All of these changes have been adopted to benefit everyone living on campus. If you approve them, perhaps a word of thanks to Mr. Lawther would be in order in appreciation of his continuing interest in student well being.

## TEACHER EVALUATION

*(Continued from Page One)*  
education at Rose. In the past, Rose students have been accused of apathy. Your full participation will provide an argument against student apathy. Do your part so that Rose can do its part and do it better.

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**SNACK BAR**

*(Continued from Page Two)*

ner: A free standing fireplace would help to give the Snack Bar a warm, friendly atmosphere.

5. Stage in the north-east corner: A stage equipped with a P.A. system would enable students to offer spontaneous entertainment. Small groups could also be booked at regular intervals.

6. Wall to cut off serving line: This would make our Snack Bar similar to the grill at ISU. It would cut down on the amount of noise and light coming from the kitchen area. Additional ventilation equipment could be added to the kitchen if it is needed. This wall could be used as a notice board and graffiti for all Rose students.

7. Partition to separate the east end (lounge area) from the rest of the room: This partition would create an area, coffeehouse area, in which students could enjoy entertainment without interference from the rest of the room. This partition would be removable so that the entire Snack Bar could

Finance Facts tells us that it cost the consumer \$111.20, in June 1969 to buy what \$100 would have bought at the end of 1966.

Middle age is the time in life when your narrow waist and broad mind start to change places.

**WALL-TO-WALL  
MUSIC**

is just part  
of

**THE BIG CHANGE**

Tune in!

be used for dances or other affairs. Like the serving line wall, this wall would also serve as a notice and graffiti board.

8. Change in lighting: Fresnels would be used to light the stage area and any exhibitions which may be displayed. Ultraviolet lights would be used for atmosphere lighting throughout the entire Snack Bar but particularly in the coffeehouse area. Some of the fluorescent fixtures could easily be converted to incandescent fixtures

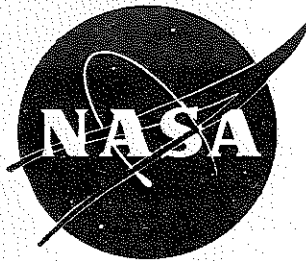
to soften the light in the Snack Bar and make it more natural. A dimmer could be used to set the right atmosphere for whatever the occasion may require. There is a dimmer in the Snack Bar when it is not in use upstairs. Rewiring, where required, would not affect the normal operation of the Snack Bar.

The ideas mentioned above are not interdependent. Any-

one of them could be eliminated without affecting the rest. It is advised, though, that all remodeling be done at the same time. We also recommend that all of these proposals be accepted.

We feel sure that all members of the Institute see a definite need for improvement in the Snack Bar. We hope that our proposals are approved so that the remodeling can begin as soon as possible.

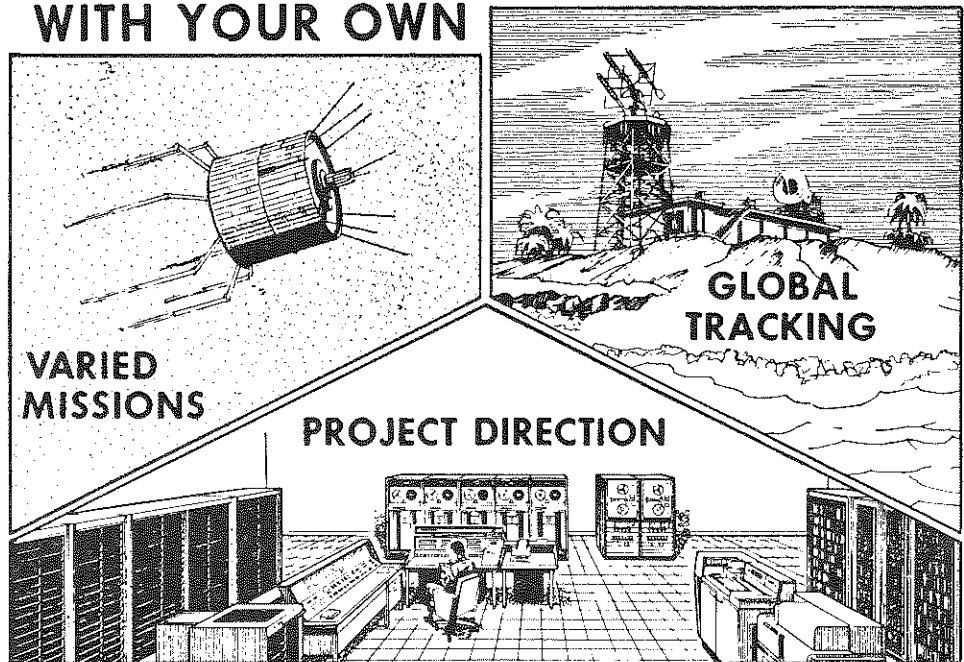
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**COL. STEINBORN**

*(Continued on Page Five)*

amount of time. It would take many years working for private industry to gain the same management experience gained in a few short years through association with the Army. The basic ROTC program at Rose has primarily an academic background and Rose is one of

only 12 schools in the country to take this approach.

The ROTC program at Rose is going to have to undergo a change though, because the basic M.S. I and M.S. II courses do not meet the minimum requirements set by the Department of the Army. This fact has been brought to the attention of the administration and an Ad Hoc committee consist-

ing of three faculty members and three students has been appointed to study the matter. The number of hours of the World Military History course for Freshmen is below the minimum, the academic portion of M.S. II will be expanded and uniforms, with some drill, may have to be reinstated next year for all classes. The ROTC program is flexible with five

**FULL CAMPUS COVERAGE**

is just part of

**THE BIG CHANGE**

Starts February 1

different options available. Here at Rose, we have the option which stresses the academic approach. This approach will continue.

**STEPPENWOLF IN CONCERT**

To all of you music lovers, Steppenwolf and the Byrds are appearing in Indianapolis, according to last Sunday's Indianapolis Star. The concert is scheduled for 8:00 P.M. Friday, February 13, at the Fairgrounds Coliseum.

The ticket prices are \$3.50, \$4.50 and \$5.50 and can be obtained from Ross and Babcock, 109 S. Illinois Street, Indianapolis, Indiana 46204. Mail orders will be accepted but it is requested that you send only cashier's checks or money orders.

Donald Laird, the psychologist, once said, "Always help people increase their own self-esteem." Develop your skill in making other people feel important. There is hardly a higher compliment you can pay an individual than helping him to be useful and to find satisfaction from this usefulness.

When Adam and Eve were expelled from the Garden of Eden did they alibi the whole thing by saying, "Oh, well, the neighborhood isn't what it used to be anyway?"

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of the

**BIG CHANGE**

on WRTR

February 1

# Dr. Logan Addresses Asian Conference

Dr. John A. Logan delivered the keynote address at a 15-nation Asian conference on water resource development in Bangkok, Thailand, early this week.

Sponsored jointly by the U.S. State Department and the U.S. Department of Commerce, the conference was attended by engineers, planners and public officials throughout all of Asia for the purpose of discussing the role of water resources in social and economic development.

Dr. Logan, an internationally-known leader in the field of environmental health engineering, opened the conference with the address on Jan. 19, and has been asked to serve as confer-

ence summarizer for the four-day meeting.

Key points in his address to the Asian leaders was urging them not to make the mistakes other nations have made in water resource development.

"If Asia is to avoid the mistakes which have been made in the growth of the industrialized nations of the world, its material resources (water, air, land and minerals) must be developed in a rational way," according to Dr. Logan in the text of the keynote address.

"Water, for example, has a variety of uses: water supply, irrigation, waste disposal, transportation, recreation, fishing, aesthetics, industry, power and conservation of birds and wild animals; many of these uses are compatible, but in other cases a choice must be made as to the ultimate social and economic benefits.

"In the United States, because of an original failure to recognize water as a resource and a concomitant failure to plan its utilization on a multi-purpose basis, we have glaring examples of gross pollution and the inability to develop important aspects of water use because of irreversible decision made before priorities could be established," he continued.

Moving to the economic aspects of water resource development, Dr. Logan added that "capital investment in public water supplies, like those for malaria eradication or public health in general, should be considered as a part of the social-overhead capital needed to develop and maintain a technologically-based society."

In conclusion, his message underscored the fact that "the improvement of a man's health is an achievement that will neither create a new need, nor in turn depend upon another capital investment for its success. It is unique in that it is a successful end in itself, economically basic, politically unquestionable, and in most cases technically negotiable. Sometimes, as in the eradication of a disease, it is a single investment, ended forever, a paid-up endowment for the infinite future. We (in the United States) are living on such an endowment; the underdeveloped areas are not, and this most acute difference is reflected in every facet of economic and cultural contrast."

The trip to Thailand is the second such environmental-relat-

ed assignment of international significance for Dr. Logan within a six-month period.

In August, Dr. Logan was called on by the World Bank to participate in an eight-day consulting trip to Uganda, Africa, for the purpose of scrutinizing proposed water supply and sewage facilities from a technical and economic point of view.

Dr. Logan, who has been president of Rose since 1962, continues to stay current in environmental health engineering through work with the World Health Organization and the National Academy of Engineers, the highest distinction which can be bestowed on an American engineer. The National Academy is the chief consulting agency to the Federal Government and is comprised of leaders of every field of engineering.

## SURVIVAL OF THE FITTEST

(Continued from Page One)

Britain," "101 Dalmations," or the Village Cinema) or try a bowling alley. However, he quickly learns the futility of finding an open lane in any of the numerous ten-lane bowling alleys. If he is without a date and has a car, the freshman can cruise around the houses just off the ISU campus (don't forget your flashlight) or even ask for a guided police tour of them (the police department will supply the flashlights). Finally, a visit to the Woods can

always top off the night's activities with just the sour note necessary for the student to prepare himself for studying.

Despite the many obvious advantages of a tour of Terre Haute, many students find it easy to discover a variety of entertaining activities on campus. For the athletically-inclined freshman, the winter months make intradormitory snowball competition possible (don't throw at the windows in Speed). If instead he prefers the summer sports, the ingenious freshman can try surfing in the halls, but knee pads are advised as standard equipment for this sport. Also, to provide a challenge to the more daring, the freshman can try riding motorcycles on the lake. For the less athletic (or those who were scared away from athletics by intramural touch (?) football), there are all-night card games of all kinds, and of course, Channel 4 stays on until 3:00 A.M. on Saturday morning. Finally, the more intellectual freshman can play Blackjack with the Bendix or enter into intramural chess competition. To break the monotony of these activities, a few freshmen even try studying on the weekend, but with such a variety of activities to choose from, few will go so far as to resort to studying except in extreme cases.

However, most freshmen will look back on their freshman year favorably. After all, what better way is there to be introduced to the teeming metropolis of Hulman, I mean, Terre Haute, Indiana.

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## WIN AND LOSE

Free throws are usually one of Rose's strong points, but they haven't been during the last couple of games. Last week against Principia the Engineers connected on 33 field goals to 21 for the Indians, but were only 11 of 27 from the charity stripe in the 77-62 victory. Rose had to come from behind to win. Both teams started out slow, but Rose stayed cold in the first half, as Principia built a 30-23 lead. The Engineers got hot in the second stanza and tied the score at 31, then took over the lead for good at 42-40. Tom Butwin and Barry Jenkins led Rose, with Butwin scoring 16 of his 18 points in the second half and Jenkins getting all 14 of his points in that period. Dimitri Cordero added 11 and Jim Eppen 10.

Last Saturday night free throws hurt as Rose lost to Centre College 76-73 in the closing seconds. In that game the Engineers were only 11-22 from the line. Rose jumped off to a 12 point lead in the first half but Centre came back to tie the score at halftime. Then Centre went into the lead, and it was Rose's turn to come back. The Engineers got the ball with about half a minute to go and the score tied at 73. They tried to hold the ball for the last shot, but a palming violation gave the ball to Centre. A three point play with one second on the clock gave the Colonels the game. Don Ings was high for both teams with 27, and Jim Eppen had 20.

The next contest for the Engineers is a home game tomorrow night against Washington University.

## PROGRESSION IN SPORTS

The sports facilities at Rose have in the past had to suffer because of the lack of funds due to the expansion of the educational facilities and housing. Due to increased enrollment and interest in sports activities, as one in six students at Rose are in varsity competition and four out of every five at least participate in intramurals, expansion of recreational not only becomes desirable, but necessary. Sports at the college level draws students to certain colleges over others, and so to gain the well-rounded individuals interested in education of the mind as well as physical development a high level of sport functions should be maintained and increased. Along with this is the necessity to provide a broad basis of orientation in all areas, including recreational. To keep a comprehensive program plans for augmentation of the sports facilities have been and are being laid.

Rose has eight varsity sports, football, cross country, basketball, tennis, baseball, track, rifle and golf. In these one out of every six students participates, and while the number who do participate is great, there is interest in other sports such as soccer, wrestling and swimming. General details are being mapped out for a new addition in the future which will include not only expanded locker rooms but handball courts, a swimming pool, wrestling room and weight-lifting room, as well as three new intramural basketball floors. When the proposals can be initiated has not been set as funds are not yet available, but plans are continu-

ing. Also the stands around the football field are to be replaced by elevated stands on both sides, the seats being raised three feet so that there will be a greater view of the playing field.

Looking forward to sports over the next ten years, prospects have never appeared better for the athletic-minded men of Rose as far as quality and quantity of recreation to be offered, whether in varsity or intramural competition.

## WHAT'S THIS? NEW DORM REGULATIONS!

(Continued from Page One)

own housekeeping, you may by notifying the union office and leaving a note for your housekeepers.

5) If the time your housekeeper comes conflicts with the "day you get to sleep in," please leave a note for the housekeeper and state a time during the day your room will be ready for her to clean. Please make your bed accessible for changing.

We anticipate that further revisions will be forthcoming in the near future and all of these revisions will be presented in the new student handbook which is due to be published in about three weeks.

## MUSIC MEN

(Continued from Page One)

Burd, a graduate student at ISU, the Glee Club desperately needs tenors, especially first tenors.

So why not come join the Glee Club? All it takes is two hours a week, from 4:00 to 5:00 o'clock on Tuesdays and Thursdays in room E104. So just come by and meet the Glee Club, and see for yourself the fun you'll have. You'll be singing with glee in no time!

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