

Rose-Hulman Institute of Technology

## Rose-Hulman Scholar

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The Rose Thorn Archive

Student Newspaper

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Fall 9-28-1973

### Volume 9 - Issue 3 - Friday, September 28, 1973

Rose Thorn Staff

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# the THORN



VOLUME 9, NUMBER 3

ROSE-HULMAN INSTITUTE OF TECHNOLOGY

TERRE HAUTE, IN.

FRIDAY, SEPTEMBER 28, 1973

## Fiji Olympics

The fifth annual FIJI Olympics, sponsored by the Rho Phi chapter of Phi Gamma Delta, will begin at 3:00 p.m. Sunday by the lake in front of Speed Hall. The competitors will feature ISU sororities, fraternity Little Sisters, and teams from the Woods, as well as ISU.

The Olympics are made up of several events which include "The Egghead," "Twine Tusle," Circle Plexis," and especially the famed "Kissing Contest." One event requires spectator assistance and close quarter co-operation with the girl participants, so get keyed. Everyone is invited for an afternoon of interesting and different Olympic competition.

## Roger, Wendy, and Sam

Roger, Wendy, and Sam will be at the Mind Garden this week for two eight o'clock performances on Friday and Saturday nights, Sept. 28 and 29. This group has become a very popular attraction on the coffeehouse circuit. They have been characterized as a soft version of Ike and Tina Turner. They have turned many a drab and dull coffeehouse into a lively gathering place on campuses across the country. This is something the Rose campus is in dire need of—livening!

The difference between Roger, Wendy and Sam and other coffeehouse performers is that their objective is to learn, not to become professional musicians, but to meet people and to share a few thoughts. They have very few problems in doing this because as Roger puts it, "We make friends easily."

So come down to the Mind Garden Friday and Saturday nights. Showtime is eight o'clock, but come early to get a good seat and to make some new friends—Roger, Wendy and Sam.



## Cryptogram

by A.M. Goering

We have two for you this week. The first one will yield double points if solved and the correct solution is turned in (just slide under the Thorn office door). Monday morning is the deadline.

il2e2½??a8½k5½¼e7il75½7u.  
e¼7a/ulv77½/a?v7?½/a7  
aoa7.a15½5eoi¼u45½oe7½i7  
e45ioo½7½3e7a5½kui?.eq3i?  
57¼½vk½ki8½?.107vlj72a5i  
4al3i7e4e5½3a½ia?75ia?2ikki  
?i75ie7

4a7e.u/4/9.u/79.L½oL40\*ae  
5¼eo/i½¼oe/ae2.4li/9/L4  
e/9o2oae25?/e7L9/4u?/ela/  
L79o½?/eau?.½5/46eou.iio.  
8/e8/4áu?aeo½2/4Leo3o½/4  
e?o.iL414599L4¼½/e.9

Now, for this week's message, we have the following:

MGAMWMEZEKSFHEDXLEAGFEMGEMHGAMWVG/XACEL/  
MAMA.VXMDGKEMGQFK.EHGEKFFHEFHQ/EGM5DEAGM,  
EGKEMDHEMGXHG/TMXHGXXHXWKFPTXAG/TEAAMWQFKG/  
/XACL

Good luck! You can pick up three points easily. We had a winner last week, but due to a foul up (mine) his identity will remain unknown until next week. Once again, not responsible for mis-typed letters or mis-spelled words!!

## Student Congress Meets

The 1973-74 Student Congress held its first meeting of the year last Monday. The meeting was called to order by Student Body Vice-President Bill Olah. This year's Congress is composed of the following men who were duly elected as representatives on Wednesday, September 19: Blumberg—Larry Vaughan, Jack Farr, Robert Rahke, George Cone; Mees—David Montgomery; Upperclassmen in Frosh Dorms—Vince Lambert; Scharpenberg—Leonard Overton, Tracy Walkup, Jim Ganger, Tom Chamberlain; Off Campus—Marc Modisett, Mike McInnis, Bob Corn, Paul Herbig, Robert Rossman, Eric Hand, Jerry Ehlers, Steve McCracken, Chris Krohne, Bruce Duthie, Dave Gibson, Greg Hinton, Jim Heitman, Phil Wheeler, Jim Janningsmeier, Mike Mueller, Jeff Pell, Steve Wolodkiewicz, Jay Skitt, Doug Winner, Bob Shaw, Tom Nick; Triangle—Greg Hanse, Mel Yoder; Phi Gamma Delta—Dave Meyer; Lambda Chi Alpha—Phil Quakenbush; Alpha Tau Omega—Larry Conrad, Jeff Shanks; and Sigma Nu—Neil Quellhorst. Representatives from the Thorn and Theta Xi have not been announced.

The first official act of the Congress was the approval of appointments made by Student Body President Clayton Black. Mr. Black then gave the Congress a report on the progress and status of the new library and recreation center. Factual information was provided to each representative so that he could answer clearly any questions of his constituents.

The Congress was then presented with a proposed budget for the school year governing all recognized clubs and student activities.

The final act of business was the naming of the following standing committee appointments: Vice-President of Student Congress—Steve McCracken; Secretary of Student Congress—Greg Hinton; Traffic Court—Larry Conrad, Jerry Ehlers, Jim Janningsmeier, Phil Wheeler, Bob Corn; Elections—Neil Quellhorst, Larry Vaughan. Chosen to assist the elections committee were Marc Modisett, Tom Nick, Paul Herbig, Jay Skitt, and Mike Mueller.

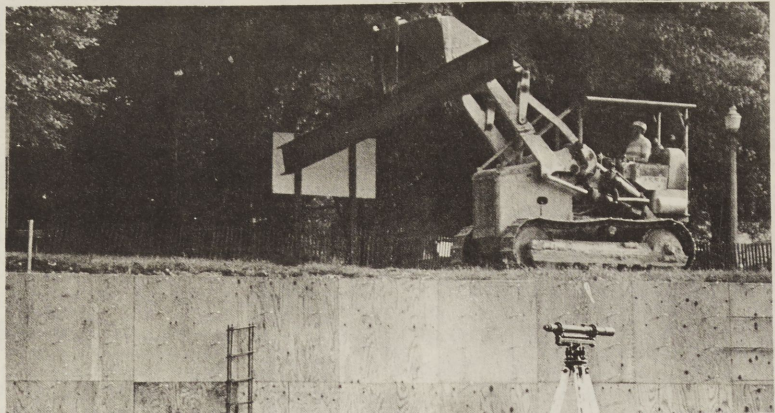


Photo by Tom Chamberlain

The New Library on its way up.

## Dr. Dyer Discusses New Library

Dr. Calvin Dyer, in a meeting with the Student Advisory Committee for Humanities and Social Sciences, answered questions concerning the status of Rose's new library. Dr. Dyer, head of the Faculty Library Committee, emphasized that his committee is open to any suggestions from students concerning the interior designs of the building. He also showed the SACHS committee the latest building plans and explained the functions of the various rooms.

The library is being built by Shelton Hannig, Inc., a Terre Haute construction firm. David Richardson, AIA, an interior decorator, has been contracted for 340 hours of work on the inside. The library is scheduled to be completed by September 1974.

The first floor has a large area planned for audio-visual equipment. There will be a darkroom, language lab, projection room, equipment repair room, and a storage. The AV study area will be for general

study at first, but will be used more extensively as more AV equipment is acquired. It can also be used for other purposes, depending on student needs at the time it opens. There will be some movable walls between seminar rooms, but not many, because of acoustical considerations.

There will be several individual study rooms, and also some larger seminar rooms. There will be individual study tables rather than large group ones, so hopefully the "socializing" can be minimized and the silence maximized. The tables can also be butted together to make large tables when they are needed. A lounge with vending machines will also be on the first floor. The area between Crapo Hall and the library will be landscaped, so we'll have a second "Mind Garden."

The second floor will contain books and periodicals. The Archives Rooms will be located on this floor, as well. It will contain works of art objects from Chauncey Rose's estate, and

other objects from Rose's past.

The top floor will consist of individual study areas, stacks, and conference rooms.

The Sachs committee hopes to post copies of the plans somewhere where they can be viewed by everyone. Students are being urged to make suggestions concerning furniture, decorations, carpeting, and the general design of the interior. Anyone with an idea should either submit it to one of Library Committee members or attend one of its meetings. The members of the committee are:

- Students:
  - John Hoppe
  - George Batta
- Faculty:
  - Dr. Dyer (chairman)
  - Dr. Wagner
  - Mr. Cole
  - Dr. Guthrie
  - Dr. Lobo
  - Dr. Parshall
  - Dr. Sherman

When an irresistible force meets the immovable object then it's the time to worry.

## ASME MEETS

by Steve McCracken

The American Society of Mechanical Engineers started the '73-74 school year Thursday and are urging responsible freshmen to join now.

If you decide to join ASME now, while a student, it will be a very important step in establishing your future. You will receive immediate benefits. And, the choice may turn out to be a key decision concerning your career.

The officers of ASME would like to invite all interested freshmen to attend the next meeting.

## HIGH FIDELITY

by Gregg Dunn

High Fidelity is perhaps the most kicked-about phrase in consumer electronics today. What does it mean? Ten different "hi-fi" owners will give you ten different definitions of what a high fidelity system is; they will say, "Oh, it has lots of bass," or "it sounds better than just a record player," or "a real solid sound." Judging from the mass of home entertainment on the market, the manufacturers themselves seem unable to decide what high fidelity is.



Photo by Tod Stansfield

In this column, I hope to define and clarify the concept of high fidelity sound reproduction, and to encourage questions and comments upon various phases of this popular hobby.

So what constitutes a sound system? Not counting program sources, a system can be divided into three major parts: 1) playback electronics, consisting of tape recorder, record player and cartridge, and FM tuner; 2) signal processing electronics such as pre-amplifier and power amplifier; and 3) output transducers of speaker systems. The most controversial of the three, speaker systems,

will be presented in the greatest detail here.

The important factors that apply to each component individually will be explained in the sections devoted to each component.

First, the notion that high fidelity equipment should "sound good." The most widely accepted definition, and one that I agree with, states that a phono cartridge, amplifier, and speakers should have no sound of their own. In other words, their purpose is to reproduce as accurately as possible the signal

(Cont. on Page 3)



Radicals Corner

Patrick MaGillicutty & Froggy the Gremlin



Where is Paul Howard? Didith not the conquering hero return? The basketball team is in for a hard year, losing many experienced players, yet replacements are few. Recruiting was a disappointment with one recruit (from Air Force) deciding at the last moment to go to Wabash after he had all but "signed" with Rose. Once again, height will be the main concern. It'll be a long season. "If" is playing at Homecoming. Not much is known except they play some jazz music. The group was picked up at the last minute when the other combo the committee had wanted changed its travelling schedule. It seems like "If" is going to be a compromise between students and alumni. No Lombardi but no Chicago either. Oh well, if everybody can't be pleased, at least nobody is going to be happy this time.

Juneau showed up a while ago for the second concert on the lake this year. That's right, two so far. Pure Funk played for the annual Frosh-Woodsie meeting. Looks like Indy has picked up Rose Fever. They tried to get a court injunction against the Bluegrass festival scheduled to be held at Victory Field. But no luck . . .

State may have a reputation for inferior intellect but the number of Rose men to be found wandering on its campus—especially the dorms—has become a tidal wave of humanity. One can almost be justified in saying that some halls—Pickerl and Blumberg especially—have become subsidiaries of Rose. You gotta go somewhere . . . Upperclassmen, when are you going to show the Frosh what it's all about? . . . Talking about Frosh, they attempted to put some life into the tombs of the upperclass dorms. A few came and raised a little hell. But the sophs have a dandy defense perimeter in the form of Mike "Tiny" Soback, who knows how to put down a revolt.

Sign at a gas station, "Meat Scarce? Don't eat your horse yet. Phase four may require you to ride him." Carpools reflect the growing concern. As it should be . . . Men living off campus. Is the meat shortage getting to you? Cost of living rising? Will you be able to beat Saga? How's the Hamburger helper—an angel in disguise? Pot pies getting to you? Soyaburgers getting monotonous? TV dinners getting sickening? Or is it just your cooking? Cheer up, only nine more months to go!

Nixon vetoed the minimum wage bill. Much to the dismay of Congress and labor. But perhaps it is a good thing. Would you rather work a 40-hour work week at a buck sixty or no work week at two-twenty? Now that is the question! . . . It is Watergate time again. TV's favorite new daytime soap opera scandal. In this sage, it is Dickie—a nice guy surrounded by incompetents and who was used by his most trusted advisors—versus Cox, the agent of the devil. In this episode, Dickie refuses to give any tapes to any court. Who will finally give in? Will Dickie even be around when a decision is made? Will the CIA go to work on Cox? Will Congress decide to beg forgiveness? Who will win? The King, Cox, or Congress? Stay tuned next week for the exciting conclusion to this adventure story . . . The IMF met last week in Nairobi to put together a new money system or at the very least to hold together the latest one. If this doesn't work out, then who knows what will happen. I suggest investing in metals. Something secure. Can you see it—Nickel in Fort Knox?

Last Thursday may have been the start of the decline of mankind. Not mankind, but man mankind. With Bonnie over Clyde and Billie Jean over Bobby, is there any hope left for ordinary men? . . . talk about ordinary things. Saga is giving seconds. At least they did once last week. Whether they continue or not is going to be a different story. So far no steak on steak night, either. But give 'em time. They're due for a break of good luck . . . The student Council has been decided. By acclamation, of course. Anyone who petitioned made it. Which is really too bad. Because now I can't run the paid political announcement I was given. Oh well. I'll keep the loot. Remember this was a paid political announcement for free.

It is ticket time on campus again. Tuesday was the last day for stickers from last year to be on. Or else fines resulted. Which is really too bad. Those stickers are a matter of pride. When one sees a car wit' the back window plastered with stickers, he knows he is looking at a veteran from Rose. And should be treated as one . . . Well, Frosh, how's Rose treating you? Anything different from high school? Is t e camp over? Working hard?

When des, rration arises, shrug off and keep fighting. When the going gets to,gh, the tough get going. Battles toughen you. It makes

THE THORN

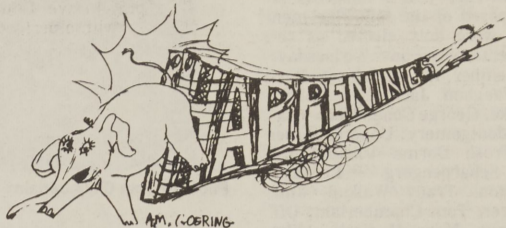
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THE ROSE THORN



Photo by Don Whitfield

REO SPEEDWAGON  
The Thorn "Group of the Month"



Happy Birthday: To Doc Logan! Sixty years and still going strong. As of this writing, the balloons are still up from your wild party on the Union patio. Good time, it must have been.

Believe in what you say: Seems one of my favorite groups, REO Speedwagon, have lost their lead singer. After six years together and finally making it so people bought their records and paid to hear their songs, money got in the way. One of their best songs, Music Man, said "All I really care about is sitting right here in my hands . . ." As long as the money is coming in, I guess.

OOPS! dept: Sorry Earl! We thought you knew your interview was front page material. It wasn't really that bad . . . honest.

Look before you leap: How did you like the frat rush parties, frosh? All the boys were sure smilin', right? Of course, they had to or it would have been bad news. Like about \$5 for each party they miss, and higher dues if nobody signs up. One warning: Watch out for ATO. They'll try to sign up the entire freshman class.

Leap before you look: Or, just sorry dept., for the 12 freshmen who signed up for Bio as their major. Shocking, wasn't it, when you arrived at Rose and were unable to find a Bio dept. Just a slight oversight by good ol' Duncan M. (or, to be official, an "administration overlook"). Bull . . . ! What is 12 times \$3,000???

Thorn: Just another plug. If you have any letters to the editor, comments, stories worth printing, etc., just slip 'em under the Thorn office door or put in Box 902. Or, if you just want to sling it for awhile, look for some freak behind a desk in the Thorn office Tuesday and Wednesday second period or at odd times 4-7th period Monday thru Friday.

Foundation: Of course, I may not know for sure since my practical engineering knowledge is zero, but offhand I'd say the foundation of the new library is pretty poor. The gravel and concrete appear to be badly mixed in sections and the crew building the library strangely covered up all the questionable places with scrap wood. Who is doing the quality control checking? Or will the library's walls crack like my room's wall has. (It's the western part of the northern footing, if you want to take a peek.)

Married?: Yes, a junior in Sharpenberg hall is married, but, of course, he hasn't told anyone yet. Does his wife know? Who knows?

Official: The St. Mary's FREE ROCK CONCERT is Oct. 7 (Sunday) at 1:00 in the afternoon at LE FER. Wherever that is. Half the woodsies I talked to didn't even know. It's somewhere around the woods, that's for sure. And it's definitely free.

Good Night: To Big Rick Keeven! Keep crackin' the books hard, Big Rick!

you age and mature. You learn from experience. And the only way you gain experience is from practice. Every lesson learned need not be a bloody battle, but every battle is a lesson learned. To err is human but to make the same mistake twice — although not unforgivable—is inexcusable. Learn from others' mistakes, you'll never live long enough to make them all yourself. Observe. Remember the past for most of the great blunders have already been committed. Study history not because of what went on, but why it went on and how it turned out. Similar patterns inevitably arise.

Humor is the mainstay of sanity for this world. If it weren't for humor then the drag of the world would soon cause sanity to cease. And humor is not limited. As it should not be. One should be able to "knock" anything and anyone, especially himself. If he is limited then the most priceless of freedoms has been eliminated. Humor simply cannot be compromised or forbidden.

Quasimodo was right.

ENTERTAINMENT

Mike Jennings

- INDIANA — Harry in Your Pocket.
- CINEMA I — The Last of Shiela.
- CINEMA II — Bloom in Love.
- NORTH DRIVE-IN — Man From Deep River, Hunting Party.
- TMUB FILM at Tilson Music Hall, I.S.U. — Sept. 28, 29, 30: Two English Girls — 8:00 p.m. — Admission \$1.00.
- HMUB in the Mind Garden — Roger, Wendy, and Sam — 8:00 p.m. Sept. 28 and 29 — Admission 2-bits.
- CROSS COUNTRY — Sat., Sept. 29, Depauw Invt., 11:00 a.m. There.
- Tues., Oct. 2, Franklin 4:00 p.m. There.
- ROSE FOOTBALL — Sat., Sept. 29, Earlham 2:00 p.m. There.

RMIHS

RMIHS stands for Rose Men In His Service. The His in the title is God. We are now three years old on campus and seek to give students the opportunity to discover Jesus Christ, to provide Christians with the opportunity of mutual fellowship, and to help everyone get the most out of life. We are affiliated with Inter-Varsity Christian Fellowship, a nationwide Christian College Organization.

Among our outside activities are weekend conferences, where we meet with other Inter-Varsity Christian Fellowship groups around the state, having a great time of study, recreation and fellowship. We also have what we refer to as "Open House" every Friday evening where we meet, with students from Inter-Varsity Christian Fellowship at Indiana State, at different homes in the area. Transportation is provided and we leave from Blumberg Hall at 6:45 p.m.

Our structure is flexible and built around Action Groups. An Action Group is a group of 3 to 5 students who meet together for Bible study, prayer, evangelistic outreach and fellowship. We hold the Bible as our basis and meet to discuss its relevance today. We also have speakers throughout the year talk on different aspects of the Christian life.

If you would be interested in getting involved, see me, Keith Anderson, in 211 Blumberg or drop a note in Campus Box 82.

Catholic Student Center

Stephen Baker

Does it look like it is going to be another one of those Rose weekends? Nothing to do but sit in your room and study? Instead of succumbing to that terrible fate, why not join us at the Catholic Student Center? On Saturday, Sept. 29, starting at 8 p.m., we are having a coffee-house, featuring lots of student talent. You can't beat the price (it's free), and all are welcome.

If you would like to come, but need a ride, or you are planning to come and can supply a ride, please get in touch with Steve Bakos, Room 204 Blumberg, or Richard Stadtmiller, Room 209 Blumberg. Come on over, enjoy the music, meet new friends at the Catholic Student Center, Fifth and Mulberry.

Baraka for Black Politics

The Watergate scandal has plunged the white leadership of the country into confusion and caused direct pressure on black people by the Nixon administration to ease up, contended Imamu Baraka. Baraka suggested that black people should take advantage of the lessening of pressure and organize before the pressure builds back up.

Baraka said, "Independent, non-partisan politics is the road for blacks to choose."

He said that politically-minded black students should study the politics of their home area.

"You should get a realistic understanding of the situation of the country in relationship with the independent black political movement," Baraka said. "The main point," he continued, "is to understand the ever changing needs of the community so you won't get grouped in the class formation of our black politicians by whites."

Baraka urged black college students not to be co-opted by the system.

The concerns of the black student change when in school, Baraka said. The student is co-opted and becomes America's defense against the masses, he said. This process can be avoided, Baraka declared, if the black student uses the skills learned in school to build up his relationship with the masses to an even level.





**Heiman Moench: No-Doze, Anyone?**



**MR. WISE: CHECKMATE!!**

**High Fidelity (cont.)**

engraved on a phonograph record, broadcast on an FM station, or committed to magnetic tape.

There are three essential qualities that all hi-fi components must have if the goal in mind is to be achieved. These properties are 1) low distortion, 2) high dynamic range, and 3) wide, flat frequency response. Distortion is determined by the accuracy with which the system's output follows its input, and dynamic range is the ratio of the system's maximum usable output to its minimum usable output. Low distortion is obviously desirable so that the output signal will resemble the input signal as closely as possible. Wide and flat frequency response is necessary for two reasons: first, the range of frequencies available on the best recordings reaches from 20-30HZ (cycles per second) for MOOG synthesizer and tympani up to more than 18,000 HZ for the highest harmonics of perhaps a cymbal or triangle; and second, all practical instruments produce waveforms containing many other frequencies besides the fundamental. A clarinet, for example, producing a note at 1,000 HZ, contains harmonics at 3,000, 5,000, and 7,000 HZ. For each instrument to be reproduced exactly, these harmonics must be present in just the same proportions that entered the system. Any emphasis or suppression in any part of the frequency spectrum will change the overall sound of any instru-

ment.

Obviously, since not all manufacturers agree on how a hi-fi system should "sound," or what steps are necessary to create a component that will sell, there are drastic differences between products of each company. Exaggerated and distorted claims are made (for speakers in particular), amplifier power specs are inflated, and ridiculous numbers are claimed for the very cheapest compact "record players." Obviously, there must be reasonable methods of comparison; and there are. This is another area where I hope to provide the interested with weapons to make decisions on equipment. You need not ever buy an inferior component, provided you know what to look for.

"But," you may say, "I can't afford the State-of-the-Art components that every audiophile wants." I can sympathize with you. The object in hi-fi should be to get the best sound equipment you can buy, but at prices fitting your budget. A future article will concern itself with the fact that you need not pay list price for most components, nor should you buy a component that is not audibly superior to the next cheapest one. On the other hand, while that top-of-the-line Sylvania FM receiver looks handsome for \$290, did you know that the far superior Acoustic Research receiver (list price \$420) is available at discount for only \$270? (Sometimes, however, discounts are prevented by the manufacturer, making his components less desir-

**ROSE-HULMAN CHESS A SUCCESS**

The 2nd Annual Rose-Hulman Institute of Technology Chess tournament was held last weekend in the campus auditorium. While other chess tournaments were losing a little of the grandeur that Fischer brought to chess, the Rose Open again became the premier event in Southwestern Indiana.

Nearly 60 persons entered the event, coming from five states and most of the major cities in the Midwest. The number of entrants was not particularly large, but the strength of the players was. Paustenbach, past Indiana College Champion and now mediocre Rose student, started out rated 9th in the event.

After five long and exhausting rounds of play, Dave Deming (Purdue) won with a perfect 5-0 score. Behind him was the St. Louis champion and a past Hungarian expert, who defeated Paustenbach in the fourth round. The Rose-Hulman team again edged I.U. and Purdue for the Top College award. The sensation for the Rose team was freshman Bill Wise of Indy. He ran through the first three rounds undefeated and faltered only slightly in the last two rounds, to finish 3-2. This was a notable accomplishment for a freshman, and much is expected of Wise and fellow freshman Tom Atwood who finished 2 1/2-2 1/2.

The steady but frighteningly risky George Cone and the Defensive Wizard Rob Ellis also made up the victorious Rose team. Advisor and Team Coach Dr. Herman Moench notched up his usual and meticulous win after a long four-hour encounter (his opponent passed out from boredom).

able from a "value" standpoint. This practice, called "fair trading," will also be discussed here later.)

In sum, there are many criteria, including price, that must be used to determine what your high-fidelity system should contain. I have my preferences, of course, but in these articles I shall attempt to present each issue as fairly as possible. Disputes and questions are, of course, quite welcome in that they may provide material for this column that everyone will be interested in. In fact, questions of sufficient general interest will be answered here every week, space permitting.

Please direct all questions, suggestions, criticisms, etc., to Box 56 or Room 410 Mees Hall.

Good Listening!

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LETTUCE

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**ROB ELLIS IN ACTION**



**DENNIS PAUSTENBACH**

**Grass Gains Class**

Recent surveys indicate that marijuana as a social entity has passed the first blush of usage, and we now swiftly approach the age of jaded cannabis acceptance.

No longer does the heart misfire when attempting to score an ounce. Now kids in the sixth grade give pharmacists prescriptions reading "Give Billy 400 hts. of spd. and 2000 kwaloods."

In the old days, marijuana usage was fraught with clear and present danger. Norman Lincoln Rockwell had documents to show the world, proving marijuana to be a prime mover in the Negro/International Jewish Banker/Homosexual Plot. Through the often unwitting use of this weed, young women weakened their resolves and young men became desiccated and subject to unwanted sex thoughts. Widespread ignoring of this threat would result in Communism and Mongrelization of the Races.

The government, for their part, had movies which they educated GI's with. One of the more colorful featured a young soldier squirting blood from his gums as he brushed his teeth, the inside of his mouth being covered with marijuana sores.

Marijuana put you in league with the devil. It made you dashing. Pick up that marijuana and join hands with Abbie Hoffman, Jean-Paul Sartre, and All Third World Peoples Everywhere. You might be a zit-faced, cull-witted slug from Milwaukee, but you had a secret.

The old marijuana claims, horrid and beatific, are going fast, or gone. No longer can you get few headaches with marijuana, or an increased sperm count.

Now maybe you can benefit from grass if you've got glaucoma, or hyperactive sinuses, and thats about it.

Unless you just want to get high.

**IEEE Corner**

by R. F. Bolt

The High Fidelity is the first of a series on audio and high

fidelity in general, sponsored by the Rose branch of the IEEE. It is intended to be educational in nature, although specific opinions may be those of the author and do not necessarily reflect those of the IEEE.

R.F. Bolt, secretary.

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Photo by Tod Stansfield  
Coach Bob Bergman watches Engineers in winning effort.

## Rose Football...Wins!!

Our record is now even at 1-1 with a tremendous win over the very talented Anderson team, 9-7. The game was marked with many exciting plays, namely our punting! For every time Mr. O'Neal punted for Rose, Anderson fumbled the ball away! Two times in the first quarter! Anderson's punting was also up to par, each punt going roughly 15 yards. The reason for such foul-ups was one—the Rose defense! Quite a talented bunch. O'Neal, Farr and Linderman led the defensive charge, forcing numerous errors. Even big "Wally" intercepted a key pass in the fourth quarter, stopping what looked like a winning Anderson drive.

The crowd was excellent. Ah, the sun, women and camera shots. Our band thrilled the crowd with an unmatchable half-time performance as our football team was psyching up. They even played Mickey Mouse as the Anderson team came out. What a burn.

For you stat freaks, the numbers went like this: 83, 2-7/168, 13/47, 3/1, (103) 1/2. Of course, the important stat was that Rose won. Tomorrow we play at Earlham college, only 300 plus miles away. Anyone going? At least be there in spirit, as we make our record 2-1. Peace, love, and blood makes the grass grow!

### By Quarters . . . . . Final

Rose	0	7	2	0	9
Anderson	0	0	0	7	7

## Liquid Crystal Calculator

Sharp has introduced a revolutionary new "ultra-mini" electronic pocket calculator, the EL-805, which operates for more than 100 hours on a single penlight battery and displays the answers in numerals approximately three times as large and bold as those in conventional calculators.

The greatly extended battery life, higher visibility and reduced size are made possible by two Sharp engineering and design breakthroughs—the Liquid Crystal display and an improved C-MOS circuit.

The Liquid Crystal display works on reflected light with virtually no battery drain. Un-

like calculators using light-emitting diodes, the brighter the light in which the 805 is being operated, the brighter the numerals appear.

The C-MOS reduces power consumption to less than 1/20th of the conventional (P-type) MOS. The older type generally requires four batteries, and has an operating life of about 10 to 20 hours.

The heart of the 805 is a unique, specially - strengthened glass substrate upon which all calculation circuits and calculating functions are integrated. This includes the display, motivator and key-joint. The liquid crystal is sealed between two glass elements.

The manufacturing process

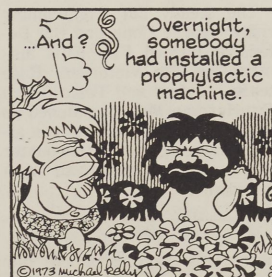
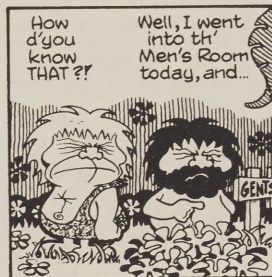


Photo by Tod Stansfield  
Rose Cross Country Team working out.

## CROSS COUNTRY TEAM IN ACTION

by Clem Clauter

Rose-Hulman's Cross Country team ran the Hokum Karem on Saturday, Sept. 15, at Wabash College. In all, five schools besides Rose participated—Indiana Central, DePauw, Wabash, Oakland City, and Hanover. The six-mile relay style race was run by two-man teams, alternating each mile. Rose's best effort was turned in by Dennis Dierckman and Alan Cassidy who finished third over all while Rose nailed down fifth place ahead of Oakland City.

Last Friday, Rose hosted Marian college. When the air finally cleared, Rose came up victorious, 18-45 (low score wins it). Team Captain Dennis Dierckman placed first in the five-mile

course with a time of 27:21. Meanwhile, freshman Alan Cassidy dusted off Marian's top man for second place honors. Also running were: junior, Clem Clauter; sophomore, Bill Goebel; and freshmen, Steve Shroka, Dave Schact, Mike Koros, Steve Decker, Dave Bauman, Jim Cottom, Paul Georgas, and Bob Kuhn.

Tomorrow, Rose goes to the DePauw Invitational for one of the hilliest races of the season. The Engineer Harriers are hoping to rebound from a disappointing 3-4 1972 season. Although a young squad, Coach Tim Carr is optimistic of 1973 performance.

## Lugar VS Bayh In '74?

If plans go according to schedule, Indianapolis Mayor Richard G. Lugar could become a serious opponent of Democratic Senator Birch Bayh in next year's election, according to Republican State Chairman Thomas Milligan.

The announcement by Milligan, the highlight of a Wednesday news conference, brought to light the possibility that Lugar may reconsider an earlier decision that he would not become directly involved in the Senate race.

Lugar made the earlier decision after talking with his friend and political advisor, National Committeeman L. Keith Bulen. Milligan said that he had asked Bulen for a re-evaluation of that advice.

Bulen later stated, "I am re-evaluating my advice (to Lugar). I realize that the Republicans may lose a great many courthouses next year if we do not have a strong candidate against Bayh."

Bulen indicated that Lugar could be that strong candidate, but the National Committeeman is awaiting some opinion from other state politicians as to

whether Lugar would be popular through the state.

Milligan himself has been one of about a half-dozen persons seeking the nomination. Milligan put down rumors, however, when he stated, "I do not anticipate being a candidate. I look forward to being the chairman of the State Central Committee."

Other possible Bayh challengers include William Conover, former prosecutor in Porter County and State Senator Phillip E. Gutman, R-Fort Wayne.

After coming back from Washington and a session with President Nixon and presidential advisors, including Nixon's former advisor John B. Connally, Milligan was asked for an evaluation of Connally.

"I think he would create a very favorable impression on voters in Indiana and throughout the country. I personally think John Connally is someone who will be very seriously considered for the 1976 presidential nomination," he stated.

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## AT THE FOOTBALL GAME



## DEBATE

Anyone interested in joining a debate team contact Rick Yeager, Box 12, or Dr. Dyer

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## FLORIDA HOMES SEMINAR

Questions and Answers Session

Mackle Bros. of Florida are sponsoring this important seminar on living in Florida. Also about qualifications for financing — living cost — and employment. Wednesday night, Oct. 3, 1973 at 7 p.m. at our office auditorium. By reservations only — please phone 232-0976 for reservations.

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