

Rose-Hulman Institute of Technology

## Rose-Hulman Scholar

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The Rose Thorn Archive

Student Newspaper

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Fall 9-21-1984

### Volume 20 - Issue 4 - Friday, September 21, 1984

Rose Thorn Staff

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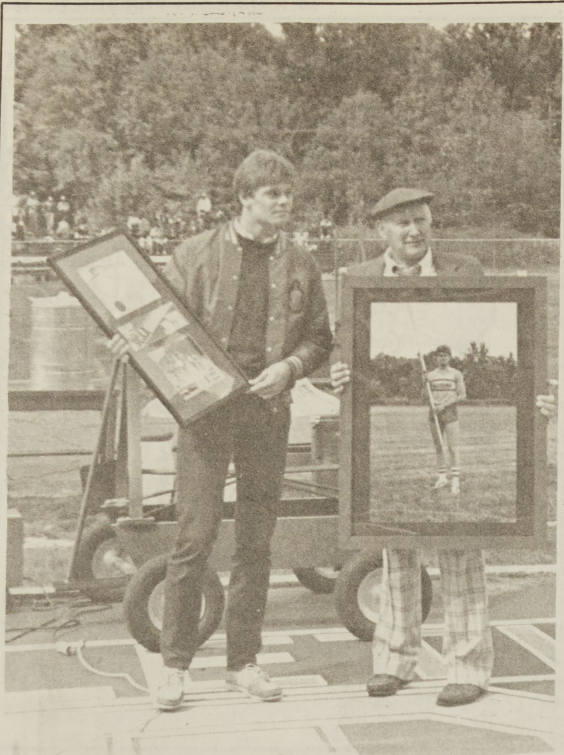
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Chris Trapp received his All-American certificate at the Taylor football game for his outstanding performance in the NCAA javelin competition. President Hulbert presented the award to Trapp. See related story on page 7. Bruce Mueller photo

# the Rose Thorn

Vol. 20, No. 4

Rose-Hulman Institute of Technology

SEPTEMBER 21, 1984

## Rose among best buys

by Bill Bradford

According to President Hulbert, Rose-Hulman will presumably be among the ten best buys of college education in a new book by Edward B. Fiske.

"Fiske is a writer on education for the New York Times," said Hulbert. "He recently had a book published that rated colleges' total quality of life on campus. This created a great deal of stir among higher educational institutions."

"Not only did he look at the quality of faculty, number of student publications, students in the 'Who's Who,' educational grants and success of graduates, but Fiske also looked at the quality of student life on campus."

Rose-Hulman was not men-

tioned in his first book, entitled *Selective Guide To Colleges*, something that dean of admissions Chuck Howard was not very pleased with. "We don't even have a copy of Fiske's first book," said Howard. "I wrote him to voice my displeasure at not having been mentioned."

But, according to Hulbert, unless Fiske changes his mind, Rose-Hulman will be among his top ten in a new book to be out next spring.

Six weeks ago Hulbert met with Fiske in New York to give him information on Rose-Hulman for an article, featuring Rose on marketing of colleges. (See the Sept. 7 issue of the *Thorn*.)

Fiske was impressed with Rose-Hulman's luxurious endowments and good students, but

recognized our image problems," said Hulbert. "After reviewing the data I presented him, Fiske felt, that for the cost, Rose-Hulman was a real bargain."

Before the book is on the shelf, Rose Hulman should be mentioned in a major *Times* article by Fiske concerning the cost of higher education. Hulbert is elated with the prospects of this publicity.

"This could be the best national publicity Rose-Hulman Institute of Technology has ever had," said Hulbert. "His status, his fame, saying that we're the best buy for the dollar . . . it's tremendous. And his word spreads like gospel; he is widely quoted."

## Corporate seminar held Monday

The Corporate Awareness Seminar for seniors will be Monday, Sept. 24, from 4:15 to 6:00 p.m. in the auditorium. All seniors are urged to attend this important meeting.

"We'll have a pretty heavy crew," said Bill Sisson, director of corporate relations and placement. Representatives from DuPont, Westinghouse, General Motors, and Proctor and Gambel

will all be in attendance.

"The seminar is to give seniors an opportunity to hear from some old pros and find out what engineering is really like," Sisson pointed out. Seniors can discuss what to expect after they accept an offer and what to prepare for. The importance of extracurricular activities, the ability to communicate, and ethics will also be discussed.

Sisson added that the seminar is only the first in a series, with upcoming events to include how to make travel arrangements, how to get the most out of a plant trip, and the Graduate School Dean's seminar Sept. 28.

He also extended an open invitation to all seniors to drop by his office if they have any questions.

## Circle K hosts conference

The Rose-Hulman Circle K club will be hosting the Fall Leadership Training Conference known as the FORUM Conference.

Circle K, the college level of Kiwanis, is the world's largest collegiate service organization with nearly 800 clubs in North America and the Caribbean. By the way, if you are interested in lasting friendships with members of the opposite sex, Circle K is a co-ed organization.

The conference this weekend is held for the purpose of training the officers of the 18 Indiana clubs. It is also a chance for members to exchange project and fundraising ideas, and for socializing and fellowship.

The opening session and a social

event will be held Friday evening with more sessions on Saturday. The conference will conclude with a banquet and hayride Saturday night.

The Rose-Hulman club is active in the community by working with the Gibault School for Boys, Christmas caroling at local nursing homes, and collecting money for MDA. Circle K served the Rose-Hulman community last year by selling Finals Survival Kits and washing car windows on Parents Day. This year they plan on installing a fountain in the small pond. They work closely with the St. Mary's Club on some joint projects.

If Circle K sounds like it's for you, contact club president Chuck Smith, Box 857, Ph. 877-2940.

The first recipient of Rose-Hulman's Distinguished Young Alumnus Award in 1982, Schindel is a member of the board of directors of Aleph Park and the Indiana Center for Telecommunications Technology, Inc. ICTT is a for-profit venture between Rose-Hulman and ACD. He is also a member of the Academic-Business Partnership Council of the local Chamber of Commerce. Schindel served as a member of the Department of Mathematics faculty at Rose and was director of the college's Edward G. Waters Computing Center.

Gibson, in addition to his duties as president of Gibson Coal Co., is a member of the board of directors of Gibson Trucking Co.,

M & G Maintenance Co., Gibco Motor Express, Victory Disposal Corp., Jamax Corp., Terre Haute First National Bank, Terre Haute Boys' Club, and the Indiana State University Foundation.

Gibson has also been active in Indiana business, serving as president of the Indiana Coal Association and the Indiana Motor Truck Association.

A graduate of Indiana State University, Gibson has also served as a member of the board of trustees at St. Mary-of-the-Woods College.

Both men attended their first board meeting during the regular fall session of the Board of Managers.

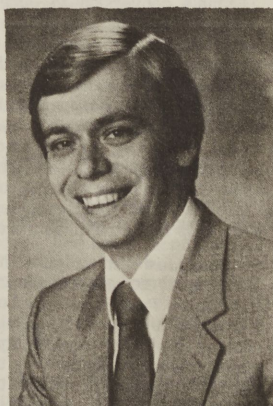
## Taylor hired on relations staff

Bryan W. Taylor has assumed the post of assistant director of college relations at Rose-Hulman.

Taylor, formerly director of information services at Indiana University at Kokomo, is responsible for media and public relations duties including the communication of campus news, student features and sports information.

A native of Terre Haute, Taylor is a graduate of Indiana State University and a former reporter for the Terre Haute Tribune-Star. He has also served as advertising manager for the Sullivan Daily Times.

He has won first and second place awards from the Hoosier State Press Association for his writing ability. In 1983, IU-Kokomo presented Taylor with the college's Outstanding Administrator Award.



Bryan Taylor

His professional memberships include Sigma Delta Chi, a national journalism society, and the Council for the Advancement and Support of Education.

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## CBS and Sony hold luncheon and press conference

Rose-Hulman is hosting a luncheon and press conference for the new Digital Audio Disk Corporation's official opening today.

Terre Haute's new Digital Audio Disk Corporation has invited 200 guests, including Indiana officials, Governor Orr, Lt. Governor Mutz, Senators Lugar and Quayle, and Seventh District Representative Myers. The presidents of CBS and Sony, the two corporations which have jointly formed this new enterprise, will also be in attendance. Mayor Chalos will represent

Terre Haute and Dr. Hulbert will represent Rose-Hulman.

The luncheon starts at 1:30 p.m. in the Union Dining Room with the press conference following in the Performing Arts Room at 3:30 p.m. After this a tour of the new plant will be given. Indianapolis and Terre Haute media will be covering the event.

Due to the proportions of this event, students will be unable to attend lunch in the Union Dining Room. ARA will distribute box lunches from beneath the Hadley overhang from 11:00 a.m. until 1:45 p.m. Included in the lunch

are two sandwiches, chips, fruit, cookies, and drink.

In view of the inconvenience to the students, Sony has offered to donate a compact disk player to the radio station, WMHD, and CBS will supply a collection of disks.

In addition to the Digital Audio Disk Corporation announcement, Sony will release their plans for the construction of a new digital video disk plant to be located near campus. According to Ron Reeves, vice president of development and external affairs, "Sony told the governor of

Indiana that Terre Haute was chosen because of the proximity of Rose-Hulman to the plant."

President Hulbert said, "Rose-Hulman's location in Terre Haute was a significant factor for building the plant because of the possible exchange of laser technology between the school and the corporation."

Doug Byrer, student government president, okayed the use of the facilities and issued this statement:

"I feel the benefits of this luncheon outweigh the small in-

conveniences for the students. I am glad the students could take an interest in this special occasion and donate their facilities.

"I believe having these corporations here will give us the opportunity to show our fine institute and students," concluded Byrer.

"Bringing the presidents of CBS and Sony to Rose for the luncheon symbolizes new advances in technology for the future. What a better place to have their start up but in one of the greatest technological institutions," Hulbert said.



# EDITORIAL

This is the first of a series of editorials dealing with various facets of Rose-Hulman tradition.

I will address subjects ranging from Rosie and the bonfire, to the purpose of homecoming, to senior privileges and freshman hazing.

I would like to thank Professor Al Schmidt for his assistance on these topics.

Rosie has existed for years and years, and her care has become a very strong freshman tradition at Rose-Hulman.

But what purpose does she serve?

In general, traditions perform two main functions: First, to link successive generations of people through a common experience, thus providing continuity not otherwise achieved over a long time span; and second, to act as a guide or compass for people to follow to avoid losing touch with the past.

In addition to these main functions, Rosie, our elephant mascot, performs two other functions — she helps to acquaint freshmen with each other and she serves as a rallying symbol at the home football games.

As the freshmen prepare Rosie for the home football games they are forced to work together and become friends. They become even closer as they attempt to

retrieve the kidnapped elephant from opposing sophomores.

Once the freshmen win Rosie back from the sophomores, they repair and prepare her for the home football games. Each time the football team scores a touchdown, the freshmen wheel her around the field in triumph rallying the fans and team to victory. Rosie's appearance is climactic during the homecoming game as alumni join in the cheering.

This tradition is wonderful and good clean fun for everyone. However, I am concerned about the rivalry between the freshmen and sophomore classes. Each year the sophomores kidnap the elephant from the freshmen. The sophomores keep Rosie as long as they deem "necessary" showing the underclassmen who's in charge.

But a chain of sophomore classes trying to "out do" the previous class may lead to more than hurt feelings and poor grades — some may be injured while executing an elaborate scheme to win Rosie back or tease the other class. Let us not venture beyond the realm of common sense, lest administration conceives unnecessary restrictions.

— G.J.L.

## Album review

# Back in the spotlight

Since his debut in 1962, Bob Dylan has been the voice of the youth in the 1960s and the voice of the aging youth in the 1970s. He has transformed folk music and inspired many of today's and yesterday's artists, especially Bruce Springsteen and The Byrds. In 1979, however, the release of *Slow Train Coming* caused him to drop out of the spotlight. After five years of virtual obscurity, Bob Dylan has returned with *Infidels*, an album that has already gone platinum despite limited radio play.

Dylan's conversion to Judeo-Christianity in the late 1970s explains the Biblical orientation of his last four albums and thus the period of virtual obscurity — his fans just were not expecting the gospel-swathed rock of *Slow Train Coming*. This once arrogant superstar is now a firm believer in the Bible who can converse with and find agreement with Jews and Christians alike.

*Infidels* differs from his previous three gospel albums, like *Slow Train Coming*, both musically and lyrically. Dylan returns to playing the folk style which made him famous — the singing of verse after verse to the accompaniment of at least an acoustical guitar. He varies the backbeat from track to track and

adds an occasional solo, either from his harmonica or from an acoustical guitar. Even though each song is still either Biblically oriented or influenced, Dylan concentrates on the End Times and on the evil of politics. "Jokerman," whose apocalyptic nature will be analyzed in a following article, comments on the evil of politics and Dylan's belief that only false peace can exist.

Black sticks and water cannons, tear gas, padlocks, Molotov cocktails, and rocks, behind every curtain

False-hearted judges dying in the webs that they spin  
Only a matter of time 'til night comes stepping in.

The refrain of "Man of Peace" more strongly states Dylan's views: "You know sometimes Satan comes as a man of peace."

Social comment has also returned to Dylan's lyrics. For example, in "Union Sundown," after Dylan observes that just about everything he owns is not made in the U.S.A., he says the following:

You know capitalism is a federal law

It says it don't come unless it sells

When it costs too much to build at home

You just build it cheaper

someplace else . . .

Why the Unions have Big Businessmen

And they're going down like a dinosaur.

Although *Infidels* does have more contemporary relevance than the previous three albums, *Infidels* went platinum for other reasons as well. Dylan made a rare appearance on "Late Night with David Letterman" and was the June 21 cover story in *Rolling Stone*. He also released videos for "Sweetheart Like You" and "Jokerman," whose juxtaposition of classic art prints and Dylan's poetry makes most rock videos look like a waste of video tape.

Through his work in the 1960s alone, Bob Dylan has achieved permanence in both folk and rock circles. He, however, has no intention of retiring from music, and he is constantly breaking new ground by synthesizing his Judeo-Christian beliefs with his socio-political awareness. Concerning his latest musical developments, he said the following in the aforementioned *Rolling Stone* interview: "I don't think I've found any new chords or new progressions, or any new words that haven't been said before. I think they're pretty much all the same old thing, just kinda reworked."

— Brian Evans

## Movie review

# All of Me is wild and crazy

"All of Me" is another crazy Steve Martin film, complete with a hilarious, bizarre, twisting plot, that shows Martin at his best since "The Jerk."

The story revolves around an up-and-coming lawyer and part-time musician, Roger, played by Martin, who is looking to make it big in his law practice, and a terminally-ill-since-birth rich lady named Edwina, played by Lily Tomlin. Edwina hopes to overcome death by having her soul return in another woman's body. Her plan, while obviously ridiculous, has been worked out in extensive detail with arrangements for a volunteer to give up her body and a Maharishi

to make sure everything goes well. But somehow the whole plan gets goofed up and when Edwina dies, her soul ends up in Roger's body. The real crazy events begin with Roger-Edwina attempting to straighten out the whole mess.

Steve Martin, as the lawyer and later as Roger-Edwina, is terrific. Unlike his previous performances, the comical side of his acting is almost entirely visual rather than verbal, but he's hilarious just the same. His best scene in the whole film occurs when he first realizes that he has become both Roger and Edwina and he struggles to deal with the new situation.

The movie did suffer from an abundance of stupidity, but this seems to be somewhat characteristic of Martin's movies. "All of Me" was definitely better than some of Martin's previous efforts, like "The Man With Two Brains" and "Pennies From Heaven." Overall, "All of Me" was a good comedy. While it won't set you rolling in the aisles with laughter, it does have some very funny scenes, with Steve Martin at his "wild 'n crazy" best.

Starring — Steve Martin, Lily Tomlin

Rated — PG  
Honey Creek Square Theater  
— Joel Schneider

## Study abroad

The 1985-86 competition for grants for graduate study abroad offered under the Fulbright Program and by foreign governments, universities, and private donors will close on October 31, 1984. Only two more weeks remain in which qualified graduate students may apply for one of the approximately 700 awards to over 70 countries.

Most of the grants offered provide round-trip transportation, tuition and maintenance for one academic year; a few provide international travel only, or a stipend intended as a partial grant-in-aid.

Applicants must be U.S. citizens at the time of application, and must generally hold a bachelor's degree or its equivalent before the beginning date of the grant, and in most cases, should be proficient in the language of the host country. Except for certain specific awards, candidates may not hold a Ph.D. at the time of application. Candidates for the 1985-86 competition are ineligible for a grant to a country if they have been doing graduate work or conducting research in that country for six months or more during academic year 1984-85.

Application forms and further information for students currently enrolled at Rose-Hulman may be obtained from the Fulbright Program Adviser, Dr. Terry Kent, who is located in A-213. The deadline for filing an application on this campus is Oct. 1.

## FRANKLY SPEAKING . . . by phil frank

DUE TO OVERENROLLMENT,  
IT WILL BE NECESSARY  
TO ELIMINATE SOME  
STUDENTS..



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## S.G.A. News

by Doug Byrer

The Audio Digital Disk reception is being held today in the Union building. I want to remind students on the meal plan that lunch is being served under the Hadley overhang from 11 a.m. to 1:45 p.m. Thank you for your assistance on this project.

Also, today is the deadline for student congress petitions. Please return

these to box 785. Elections are on Monday. The following deadlines are for freshman class officers:

Thursday, Oct. 4: Petitions available at switchboard;

Thursday, Oct. 11: Petitions due to box 785;

Tuesday, Oct. 16: Elections. Positions available are president, vice president and secretary-treasurer.

## Decent Chick outcome

Although the response to the "Decent Chick of the Week" survey was 100% unanimous in favor of reinstating the feature, only 34 students

responded.

Unless we have numerous personal inquiries, the feature will remain dormant.

## THORN STAFF

The Thorn is published weekly at Rose-Hulman Institute of Technology, Box 130, 5500 Wabash Ave., Terre Haute, IN 47803. Phone 812 877-1511 ext. 255.

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Editor .....	Geoffrey Lange
News Editor .....	R. Scott Haney
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The THORN welcomes letters or comments from readers. Articles, ideas, and announcements are also desired. In view of length constraints, we reserve the right to limit the lengths of comments and use excerpts from letters. All submitted material must be signed. We will withhold names in special cases only. All material should be submitted at least one week prior to publication.



## Fatic joins electrical engineering faculty

by Susan Niezgodski

Rose-Hulman's Electrical Engineering Department welcomes Dr. Vuk Fatic to its teaching staff.

Fatic, a native of Yugoslavia, begins his associate professorship at Rose this quarter. The energetic, extremely motivated 52-year-old earned his Dipl. Ing. (Diploma of Engineering) in 1960 from Belgrade University, Yu. Dipl. Ing. consists of five years of strictly engineering and science, no humanities. He obtained his MS in 1973, and his Ph.D. in 1976. Both of these degrees were in electrical engineering and both through Virginia Polytechnic

Institute and State University (VPI&SU).

Fatic brings to Rose many years of experience in industry as an instructor in industry, he worked for seven years as a research engineer for "Elektroinstitut" and "INTDI" in Belgrade, Yu. His research was in areas of Power Sources, Control Systems, Applications of Lasers and IR-systems.

He has extensive teaching experience in the field of electrical engineering: Two years as an assistant in control engineering (ME Dept.) at Novi Sad University, Yu; one year as a visiting scholar, two years as a teaching and research assistant,

and two years as an instructor at VPI&SU; one year as visiting assistant professor at Union College, Schenectady, NY, and the past eight years as an instructor at Tri-State University, Angola, IN (four as assistant professor and four as associate prof.).

Dr. Fatic is used to teaching. He has taught power systems, electric machines, transmission lines, field theory, control systems, electric networks and energy conversions. His research specialty is variational principles for dissipative systems and networks.

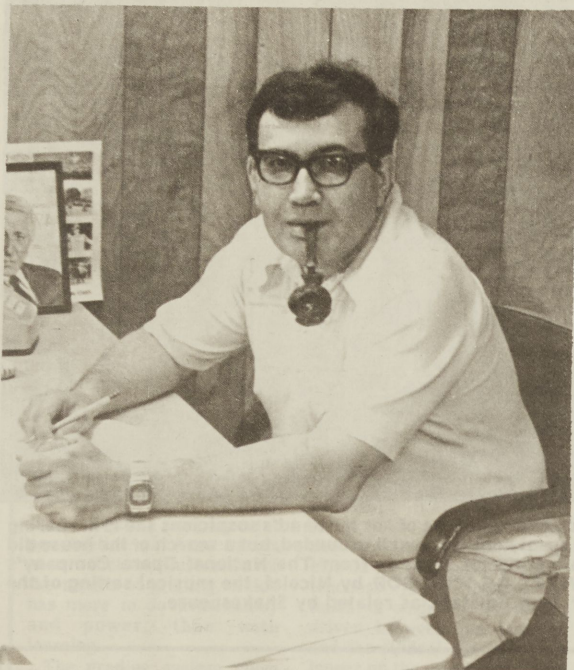
"It is a better school with better pay and better opportunity for research. My first impression is very positive. I like the way students react in class," responded Fatic when asked why he chose Rose as the site for continuing his career as an instructor.

There are many interests which occupy Fatic outside of the classroom. He is mad about jazz music, especially Stan Kenton; enjoys science fiction when it is not "written junk," likes to view contemporary movies from all over the world and is pleased with surrealist and impressionistic painting.

In addition, he enjoys a good cigar, is an incessant pipe smoker and loves a good wine and gourmet food (to eat not to make!). His wife is the "great" cook of the family.

His disinterests are sports, rock and roll music, and computers. He is in the process of painfully revising his attitudes to computers, as Fatic says, "I now must be interested in computers willy-nilly. I must use them in my teaching."

Although he has been here just a few weeks, Dr. Fatic appears to be settling down, in Terre Haute, the classroom and his office.



## Kraft signs on with electrical engineering dept.

by Mike Daniel

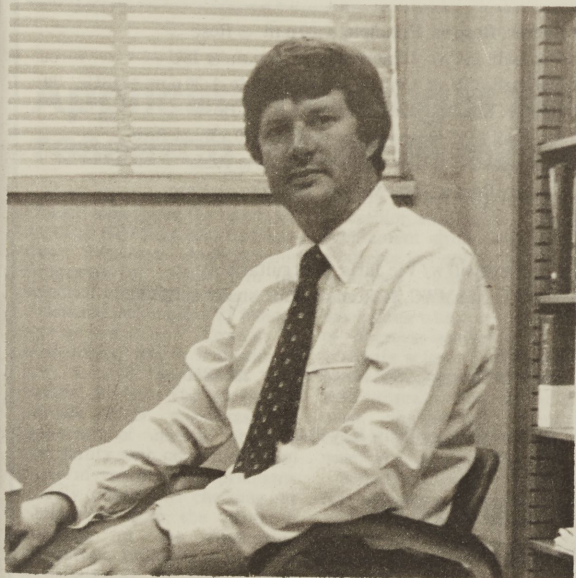
The EE department has several new faculty members this year, including Dr. Alan Kraft. Beginning this quarter, Dr. Kraft is teaching courses in Digital Electronics and Electronic Circuits.

Dr. Kraft is a Purdue graduate (BS '70, MS '72, Ph.D. '84) whose major interest is in power systems, particularly power systems harmonics, the subject of his doctoral work. He is a registered professional engineer in Indiana, and is a senior member of the IEEE.

This is the first full-time teaching position for Dr. Kraft, although he did some substitute work at Purdue. He said he was attracted to Rose because he would "be able to do a lot of teaching, and because of the close contact with students."

Originally from Portage, Indiana, Dr. Kraft has only been in Terre Haute since early September, along with his wife, Renee, and dog, Penny. He says that his impressions of Terre Haute so far have been generally favorable.

He has interests in ham radio, photography, and flying, and may get involved with the ham radio club. In addition, he has been a high school basketball and football official for the last 12 years, and would like to continue this here in Terre Haute. He has been working with the football team here at Rose, mainly to advise them on rules. He is also a Cubs fan, although he doesn't have pennant fever to quite the same degree as most — he hasn't given up on them blowing the National League East. Once a Cub fan, always...



Dr. Alan Kraft

Bruce Mueller photo



by John Weis and John Rumberg

Alpha Tau Omega is proud to announce that it recently won a community service award. In addition to that award, ATO placed second among all chapters nationally for their service projects.

Triangle's Bruce Fritz attended a convention at Iowa State in August.

Fiji is currently renovating their house.

The Delt Sigs held a work party to improve their house.

Informal rush parties will begin September 21 and 23.

Welcome back everyone. One more year of too much homework and not enough sleep.

## NEWS BRIEFS

### Pickett selected for symposium

Dr. William Pickett, professor of history at Rose-Hulman, has been selected to attend a National Endowment for the Humanities funded symposium entitled "new Modes of Historical Inquiry."

The seminars, presented at Indiana University-Purdue University at Indianapolis, will provide a select group of history teachers with an opportunity to learn about recent developments in historical scholarship.

The two-year program,

which begins this month, will deal with such topics as historical demography, environmental history, material culture, the history of sport, urban history and new political history.

Pickett, who in addition to his teaching is currently writing a short biography on former President Dwight D. Eisenhower, will contribute ideas during the symposium about how new historical scholarship can be adapted for classroom use.

### Lambda Chi sponsors 10K run

by Mitch Day

Lambda Chi Alpha is pleased to announce their first annual "Run For Those Who Can't" 10K race. The race will take place in Deming Park on Sept. 29 and is open to the Terre Haute community. Registration will be at 7:30 a.m. on the day of the race with the race starting at 9:00 a.m. Registration fee is \$5.

There will be six different age groups competing with

the top three in each group receiving prizes from local merchants. Trophies will also be awarded to the top male and female finishers.

In addition to the 10K race, a one-mile fun run will take place immediately following the start of the 10K race. Cost of the fun run is \$2. The proceeds from the races go to Big Brothers/Big Sisters of Vigo County.

### Auditions to be held for play

Auditions for the Drama Club production "Death by Arrangement" will be held in the Moench Hall auditorium Sunday at 6 p.m.

The play, written by David Alberts, is a murder mystery written in the classical Agatha Christie style with a house full of suspects, each outfitted with an opportunity and a motive. The plot twists and turns several times so that only at the end is the real murderer revealed.

Speaking parts vary in size with both large and small roles distributed among the

seven man/four woman cast.

Rehearsals will be 2 to 2½ hours per night, Sunday through Thursday each week with performances Oct. 26 and 27 and again Nov. 2 and 3.

Anyone interested in auditioning is welcome and should be prepared to have fun.

Also, the Rose Drama Club is looking for a responsible PR man. Anyone interested in helping the Drama Club go more public with its productions should get in touch with R. Daniel Harrison, Ext. 264 or Box 645.

### Radio Club announces events

Last Thursday, Sept. 13, the Rose Tech Radio club held its first meeting of the 1984-85 academic year. After an interesting talk by Dr. Hoover on the subject of radio direction-finding, the club made plans for its Fall Foxhunt and Picnic to be held Saturday, Oct. 27.

There was also a discussion of when to start the code classes which the club offers to assist interested persons in

obtaining Amateur Radio licenses. Classes will be offered Thursday night and Saturday mornings starting in the coming week.

The club's next meeting was set for Sept. 27. Anyone interested in joining the Hunt for hidden transmitters or other foxes, taking part in the code classes, or in joining the Club may contact either Bill Allsopp, Box 657, or Loren Cook, Box 949.

### IEEE sponsors annual picnic

The Institute of Electronic and Electrical Engineers' annual picnic will be held Thursday, Sept. 27, at 4:30 p.m. south of the fieldhouse. The event is open to all student IEEE members and pending IEEE members having paid their local dues. Also all EE and CS faculty are welcomed.

The meal will consist of chili, grilled hamburgers, hot dogs, and other picnic foods. The fieldhouse will be open during the event for recreation. In case of rain the picnic will be held in the fieldhouse.

Local dues of \$1 may be paid to Dr. Barry Farbrother.

### Caucus internships available

INDIANAPOLIS — The Indiana House Democratic Caucus is accepting applications for internships during the 1985 session of the Indiana General Assembly, according to State Representative Vern Tischer (D-Terre Haute).

The legislative internship program is open to nine students who are currently enrolled in an Indiana college or university as juniors, seniors, or graduate students. The internship program begins in January, 1985, and will end approximately April, 1985.

A Democratic Caucus intern will directly assist approximately six or seven members of the Indiana House Democratic Caucus by researching legislation and issues, and answering

requests and correspondence from constituents. The interns for the Press Secretary of the Indiana House Democratic Caucus will assist by writing news releases, newsletters, setting up news conferences, and photography.

"The internship program is a fantastic hands-on experience for students who want to learn how the laws in Indiana are made and how state government functions," Rep. Tischer said. "I highly recommend college students to apply for the legislative internship program because it is a valuable experience."

Persons interested in applying for the internship program should contact Mr. William Schreiber at 1-800-382-9842 before Oct. 1, 1984.



## Fine Arts Series

# National Opera Company Returns

Entertaining, exciting and easy-to-understand opera in English will be heard again this year in Moench Hall Auditorium on Oct. 2 at 7:30 p.m.

The offering is "The Merry Wives of Windsor" and will be presented by the National Opera Company, a highly professional troupe, dedicated to the presentation of opera in the language of the audience. They believe that, through these efforts, opera will achieve its rightful popularity in American culture.

This amazing troupe of young singing artists have been proving the validity of this belief since 1948 in tours covering some 36 states. Through colorful productions of well-known operas in English, they have, in many instances, created audiences where none previously existed. This troupe believes that it is noteworthy that in European countries, where opera has always been an outstanding popular art form, the audiences demand that the operas be presented in vernacular. For instance, the works of Wagner (a German composer) in German in

Germany. American opera lovers are delighted at the ease with which they can follow the subtleties of the plot, the humor of the comedies, and the sadness of the tragedies when they are exposed to good English translations. Familiar arias such as "The Toreador Song" from CARMEN and "Figaro's Aria" from THE BARBER OF SEVILLE reach new heights of delight and meaning when every word can be understood.

Other opera companies, also recognizing this needed development, are presenting more and more of the standard repertoire in English; as a result, good English translations are more readily available. Realizing the advantage of opera in English, television and radio stations are now programming a good percentage of their operatic selections in English.

This new interest in both old favorites and new works sung in the language of the audience has assured American composers that their work will be heard, as the number of opera workshops and local opera groups continue to grow.



Mistress Ford threatens drastic action because of her husband's suspicions she is harboring Sir John Falstaff. Actually, the suspicions were well-grounded, but a search of the house did not reveal the Fat Knight. This amusing scene is from The National Opera Company's production of THE MERRY WIVES OF WINDSOR by Nicolai, the musical setting of the romantic misadventures of Sir John Falstaff, as related by Shakespeare.

## Music Awards

# Broadcast Music, Inc. Opens Student Composers' Competition

New York, N.Y. — The 33rd annual BMI Awards to Student Composers competition will award \$15,000 to young composers, James G. Roy, Jr., BMI vice president, Concert Music Administration, announced today. He added that the deadline for entering the 1984-85 competition is Feb. 15, 1985.

BMI established the awards program in 1951 in cooperation with music educators and composers. The contest is designed to encourage young composers in the creation of concert music and, through cash prizes, to aid in continuing their musical education. The prizes, which vary from \$500 to \$2,500, are awarded at the discretion of the final judging panel. To date, 297 students, ranging in age from eight to twenty-five have received BMI Awards.

The 1984-85 competition is open to students who are citizens or permanent residents of the Western Hemisphere (including North, Central and South American and the Caribbean Island nations) and who are enrolled in accredited secondary schools, colleges or conservatories or are engaged in private study with recognized and established teachers anywhere in the world. Contestants must be under 26 years of age on December 31, 1984. There are no limitations as to instrumentation, stylistic consideration or length of work submitted. Students may enter only one composition, which need not have been composed during the year of entry. Compositions, which are entered under pseudonyms, are considered by a preliminary panel of judges before going to a final panel. Last year's Preliminary Judges were

Gheorghe Costinescu, Gerald Warfield and Frank Wigglesworth, with Ulysses Kay serving as Consultant. The Final Judges were T. J. Anderson, George Crumb, Paul Dunkel, Max Lifchitz, Richard Moryl, Kirby Pines, Robert Pollock, Christopher Rouse, William Sisson, Pril Smiley, Bruce J. Taub and Noel B. Zahler, with Ulysses Kay as Presiding Judge. William Schuman is Permanent Chairman of the judging panel. In the 1983-84 competition, 22 winners ranging in age from nine to twenty-five were presented awards at a reception at the St. Regis-Sheraton Hotel in New York City on May 10, 1984.

Five previous winners of BMI Awards to Student Composers have gone on to win the coveted Pulitzer Prize in Music. They are George Crumb, Mario Davidovsky, Donald Martino, Joseph Schwanter, and Charles Wuorinen.

BMI is the largest music licensing organization in the world, representing over 72,000 writers and publishers. More than 50 percent of the music played on American radio stations in the past year is licensed by BMI. It also has reciprocal agreements with 37 foreign performing rights licensing organizations around the world, making its music available there and representing foreign music in this country. Each year BMI sponsors a variety of workshops and seminars designed to encourage participation in all areas of music.

Official rules and entry blanks for the 1984-85 competition are available from James G. Roy, Jr., Director, BMI Awards to Student Composers, 320 West 57th St., New York, NY 10019.

## Upcoming Area Entertainment

### COLLEGIATE EVENTS ATHLETICS

- September 21 — Soccer, Rose vs. Principia, 4:00 p.m. @ Rose
- 22 — Football, ISU vs. Illinois State, 1:30 p.m. @ ISU
- 29 — Football, ISU vs. Central Missouri State, 1:30 p.m. @ ISU
- Soccer, Rose vs. Wabash, 11:00 a.m. @ Rose
- October 1 — Football (JV) Rose vs. Evansville, 1:30 a.m. @ Rose
- 5 — Women's CC, ISU vs. EIU/Ball State @ Rose
- 7 — Soccer, Rose vs. MacMurray, 2:00 p.m. @ Rose

### FINE ARTS

- September 22 — Larry Coryell w/ Vic Juris (jazz guitarists), 8:00 p.m. @ SMWC, \$4.50 adult; \$2.25 students, 535-5151

### THEATRE

- September 25-28 — Beyond Therapy, ISU, New Theater, 232-6311

### ROSE SAB

- September 28 — SAB presents guitarist Ray Fogg
- October 6 — SAB-FB Activity

### COMMUNITY EVENTS COMMUNITY THEATRE

- September 28-30 —
- October 5, 6 — Crimes of the Heart (play), 1431 S. 25th, 232-7172

### SHELDON SWOPE ART GALLERY

- September 23 —
- October 21 — Opening at 2 p.m. exhibition "The Seasonal Holiday Trade: Gift and Greeting Cards"
- October 7 — Film - "The Importance of Being Earnest," 2 p.m.

### TERRE HAUTE SYMPHONY ORCHESTRA

- September 24 — Indianapolis Symphony Orchestra - Opening of ISU Contemporary Music Festival, 232-6311, Ext. 2450

### GENERAL

- September 24-27 — Contemporary Music Festival, IAU, Dr. Cowden, 232-6311
- September 27 — Theaterfest 1984, ISU
- October 6, 7 — PIONEER DAYS - Fowler Park, 238-8391



## This Learning World

by Dr. Richard Meisler

### The Problem of Grades

The function of grades is revealed by using a little imagination. Imagine that the grading system was abolished today. If you are a teacher, are you sure that the students would come to class, laugh at your jokes and treat you with respect? If you are a student, would you do what the teachers want?

I recently talked about education with a group of college students. They felt that the pressures of term papers and examinations left them no time to really absorb their subjects or even think about them. There was one exception. He was a young Vietnam veteran who was badly injured in combat. He received a government disability pension. He lived frugally, and his pension met his foreseeable financial needs.

The veteran handled college very differently from the other students. He concentrated on the classes from which he learned and didn't worry about the others. He got some low grades, but didn't let them bother him. He went to school to learn, not to get good grades.

The other students in the group wished they could follow his example. None of them dared. They feared that low grades might damage their future employment possibilities. I have never seen a better illustration of the nature of grading, which has more to do with money and power, than with learning.

The grading system gives power to teachers over students. The main function of grades is to punish the student for not doing what their teachers want them to do. Students and parents are terrorized by the way a

teacher can harm a student's future prospects.

Grades teach people to rely on the judgements of others about their learning. Students do not learn to evaluate their own learning, a skill they will need in almost anything they do. Students are taught by the grading system to obey instead of learning to learn. Years later they find that they don't know where to begin the process of learning something new unless there is a teacher to tell them.

Teachers believe that grades are necessary to help students learn. Grades tell students how well or poorly they are doing. If this is their function, why do they have to be recorded on permanent records where they can cause so much damage? Most students, however, will tell you that their grades don't reflect their learning. Students receive good grades when they give teachers what they want, which means they usually learn less.

Learning needs to be evaluated in many settings and for many purposes. Graduate and professional schools need to assess a student's previous learning. Employers and licensing agencies need to do the same. Let them do it. It is not necessary that the lower-level schools and the teachers do it for them. Let somebody else do the judging. For when teachers judge instead of teach, a wedge of power is driven between the teacher and the student. They are no longer on the same side. That gap has been there for most of us for so long we don't even notice it. The pursuit of learning has been replaced by the pursuit of grades. The solution is simply to end grades.

## Applications sought for research associateships

The National Research Council announced the 1985 Postdoctoral Resident, and Cooperative Research Associateship Programs for research in the sciences and engineering to be conducted on behalf of 21 federal agencies or research institutions, whose laboratories are located throughout the United States. The programs provide Ph.D. scientists and engineers of unusual promise and ability with opportunities to perform research on problems largely of their own choosing yet compatible with the research interests of the supporting laboratory. Initiated in 1954, the Associateship Programs have contributed to the career development of over 4,000 scientists ranging from recent Ph.D. recipients to distinguished senior scientists.

Approximately 250 new full-time associateships will be awarded on a competitive basis in 1985 for research in chemistry, engineering and mathematics, and in earth, environmental, physical, space and life sciences. Most of the programs are open to both U.S. and non-U.S. nationals, and to both recent Ph.D. degree holders and senior investigators.

Awards are made for one or two years; senior applicants who have held the doctorate at least five years may request shorter tenures. Stipends for the 1985 program year will begin at \$25,350 a year for recent Ph.D.s

and be individually determined for senior associates. A stipend supplement up to \$5,000 may be available to regular (not senior) awardees holding recognized doctoral degrees in those disciplines where in the number of degrees conferred by U.S. graduate schools is significantly below the current demand. In the 1984 program these areas have been engineering, computer science and space-related biomedical science.

Reimbursement is provided for allowable relocation costs and for limited professional travel during tenure. The host laboratory provides the associate with programmatic assistance including facilities, support services, necessary equipment and travel necessary for the conduct of the approved research program.

Applications to the National Research Council must be postmarked no later than January 15, 1985. Initial awards will be announced in March and April followed by awards to alternates later.

Information on specific research opportunities and federal laboratories, as well as application materials may be obtained from Associateship Programs, Office of Scientific and Engineering Personnel, JH 608-D3, National Research Council, 2101 Constitution Avenue, N.W., Washington, D.C. 20418, (202) 334-2760.

# TV GUIDE'S TV GAME

TRIANGLE PUBLICATIONS, INC.

## OVER 6,000 TV TRIVIA QUESTIONS

NEW YORK — To whom did Mork report at the end of each episode of Mork & Mindy?

Answer: He reported to Orson.

This is one of the questions in a new trivia game based on America's primary pastime, television viewing. Called TV GUIDE'S TV GAME, the board game for two to 20 players contains more than 6,000 TV trivia questions and answers prepared and authenticated by the editors of TV GUIDE magazine.

"Nothing mirrors our life and times like the electronic eye of television. For more than 30 years, TV GUIDE has been writing the book on television every week," states David Sandler, TV GUIDE's national section editor. "The TV GAME is both a nostalgic trip through the days of Lucy and Uncle Miltie, and an exciting journey through today's video environment... its people, its programs, and the world we all experience."

The questions for TV GUIDE'S TV GAME are provided in four 68-page books containing 1,500-plus questions and answers in each.

Dealing with the earliest days of TV through early 1984, questions are divided into seven categories of programming: drama (dramatic series, miniseries, dramatic specials, Westerns, prime-time soaps), sports (professional and amateur), comedy (situation comedies), news (documen-

taries and special events), kids (children's shows, educational programs), movies (theatrical films, made-for-TV), and other TV (talk shows, daytime soaps, game shows, quiz programs).

The objective of TV GUIDE'S TV GAME is to acquire cards representing each category of programming and as many points as possible by answering questions correctly. The player or team with the most points at the end of the game is the winner.

TV GUIDE'S TV GAME was developed by Bob Reiss of Trivia, Inc. "One strength of the game is its versatility," says Reiss. "It can be played with two people, as a family game, or a party game with up to four teams with six or more players on a team. It can also be enjoyed without the board by using the question and answer books to ask questions just for the fun of it."

Here are some sample questions from TV GUIDE'S TV GAME:

1. "Is it bigger than a breadbox?" was a classic question on this show.
2. He followed Ronald Reagan as host of *Death Valley Days*.
3. He was the first to bring to life the character of Hawkeye in the 1970 movie *M\*A\*S\*H*.
4. Who was the only other person who knew the real identity of Batman and Robin?
5. What "diplomat" brought Menahem Begin and Anwar Sadat together for the first time

in 1977?

6. Howdy Doody had a twin brother. What was his name?

7. What country did the U.S. defeat to win the ice hockey gold medal in the 1980 winter Olympics?

(ANSWERS: 1. What's My Line 2. Robert Taylor 3. Donald Sutherland 4. Alfred, the butler 5. Walter Cronkite 6. Double Doody 7. Finland)

TV GUIDE'S TV GAME includes one playing board, four question and answer books, pad of game points, 28 program cards, four network cards, eight bonus cards, four markers, and a pair of dice.

The flip side of each of the cards used in playing the board game contains interesting information related to the card's face. Bonus cards feature trivia about TV GUIDE itself. For example, the personality who has appeared most frequently on the cover of TV GUIDE is Lucille Ball with 24 appearances. She is followed by Michael Landon (17), Arthur Godfrey and Mary Tyler Moore (16) and Johnny Carson (14).

Since the inception in April, 1953, TV GUIDE has sold more than 20 billion copies.

With over 100 editions published throughout the U.S., TV GUIDE uses 4,000 tons of paper per week. The annual use of 208,000 tons outweighs two nuclear aircraft carriers or five Missouri-class battleships.

## Study: Frosh stand to gain nine pounds by graduation

STATE COLLEGE, PA (CPS) — If you're a college freshman, arm yourself for a four-year battle of the bulge.

A just-released study of Penn State students by nutritionist Jean Harvey and two other researchers reveals men gain an average of 9.1 pounds during their first year of college. Women average a nine-pound gain.

And the extra pounds sneak up each year. Sophomores gain 7.3 pounds while juniors put on 7.8 pounds and seniors 6.5 pounds the study found.

Many students blame fattening dorm food, but Harvey says the study exonerates it.

"Residence (on or off campus) wasn't a factor in weight change," she states. "So students' claims that dorm cafeteria food caused the gains aren't accurate."

The questionnaire, sent to 2400 Penn State undergraduates, drew about 1000 responses to 36 questions about weight, eating and exercise. Results show 67 percent of the men questioned

and 62 percent of the women admitted gaining weight.

Only senior respondents lost weight, apparently thanks to exercise, Harvey says.

Emotional and psychological factors, such as living away from home, weren't surveyed, but Harvey has "a feeling people at Penn State are planning a study to determine the influence of these factors on student weight gain."

No one knows if all students put on pounds at the same clip Penn State students do.

The American College Health Association shows no record of any national surveys similar to the Penn State study, though a 1978 federal study determined college students were an average of six pounds heavier than the students of 1968.

Yet overweight students and health and nutritional concerns have prompted many colleges to implement diet and exercise programs.

Wayne State University in Detroit bases weight control on

behavioral methods to improve eating habits.

Many student health clinics publish diet tips in campus newspapers, especially during the spring "get in shape" rush.

In 1982, Stanford developed a dorm nutrition program, posting nutritional information for cafeteria food. It listed the calorie, fat and cholesterol contents of each item it sold.

A similar program exists at the University of the Pacific in Stockton, Calif.

Dietician Joan Nikirk calls it an "educational program, mostly presented through posters and pamphlets to make students aware of basic food groups and nutrition."

But the program has done little so far to change students' eating habits, Nikirk admits, although a survey shows 80 percent of the students are aware of it.

"There's only so much you can do in the dining halls," she says. "Maybe next year we'll take a different approach."

## College Republicans involved

Involvement in College Republicans is the very best "course" in practical politics available to the college student.

This organization is comprised of young, aggressive conservatives on college campuses who are ready to become future and present party leaders.

We are intrinsically involved

in the behind-the-scenes organization of exciting campaigns from the presidential race to county contests.

We meet regularly, conduct fundraisers, have many social events, do polling, help staff party headquarters — anything and everything relating to campaign efforts. Of course, our main objective is to get Republicans elected and provide

good government for our country.

For more information about College Republicans or the chapter at your school, feel free to contact the State Federation. Operators are available 24 hours a day to accept your inquiries. Contact Gregg Humphrey, Parliamentarian, Indiana College Republican Federation, 420 S. 5th, Terre Haute, IN 47807 (812)-235-0818.



## Campus NewsNotes

### NEW MEXICO'S ENBATTLED PRESIDENTIAL NOMINEE STEPS DOWN

John Elac, the Washington, D.C. bank official whose controversial selection as university president sparked vehement protest from U. New Mexico students and faculty, has announced he won't accept the job.

Protestors argued they'd been excluded from the search process, that Elac's qualifications were inadequate, and that Elac's ties to an official of the search firm employed by the university were inappropriate.

Henry Jaramillo, regents' president, called Elac's withdrawal "unfortunate."

### SPORTS ELIGIBILITY RULES WILL HURT BLACKS MOST, THE NCAA SAYS

In a study of the effects of new rules proposed to insure that athletes actually get an education, the National Collegiate Athletic Association found that 80 percent of the blacks playing for colleges in 1977 would have been ineligible under the new rules.

The proposals would require freshman athletes to have had a C average in high school, to score at least 700 on the S.A.T. or 15 on the A.C.T., and take certain math, science and language courses.

### COLORADO STATE RESTOCKS PLAYBOY, PENTHOUSE AND PLAYGIRL MAGAZINES

Two weeks after the nearby U. of Colorado banned "skin magazines" from its bookstores in reaction to the publication of racy photos of former Miss America Vanessa Williams, Colorado State's bookstores will restock the magazines.

Bookstore manager James Banning said he worried that keeping the magazines off campus smacked of censorship.

### GAY GAMES PROMPT IOWA FRAT TO DROP OUT OF RUSH

Two members of the U. of Iowa's Phi Delta Theta house reportedly posed as homosexuals to discourage a student from joining the house.

Iowa administrators "encouraged" the house to drop out of rush until the incident could be investigated thoroughly.

### LSU DUMPS 'GIRLS OF LSU' CALENDAR

Lynn Pesson, Vice Chancellor for Student Affairs, forced the Louisiana State bookstore to drop the calendar, which features photos of 13 female LSU students, because it was "too risqué."

A number of women who posed say the photographer had pressured them "to show more skin," Pesson reports.

### GROUP SUES U. WISCONSIN OVER RELIGION QUESTIONS

The Freedom From Religion Foundation has sued to stop Wisconsin from asking students their religious preference on registration forms, and then giving students' names to campus religious groups.

### JOB MARKET FOR TEACHING GRADS 'THE BEST IN 10 YEARS'

Declining numbers of teaching grads and increasing numbers of retiring teachers have improved opportunities greatly, says Richard J. McArdle, dean of Cleveland State U.'s education college.

### NOTES FROM ALL OVER:

Four of 10 college men say they prefer dating blonde women, according to U. Wyoming researcher George Gill.

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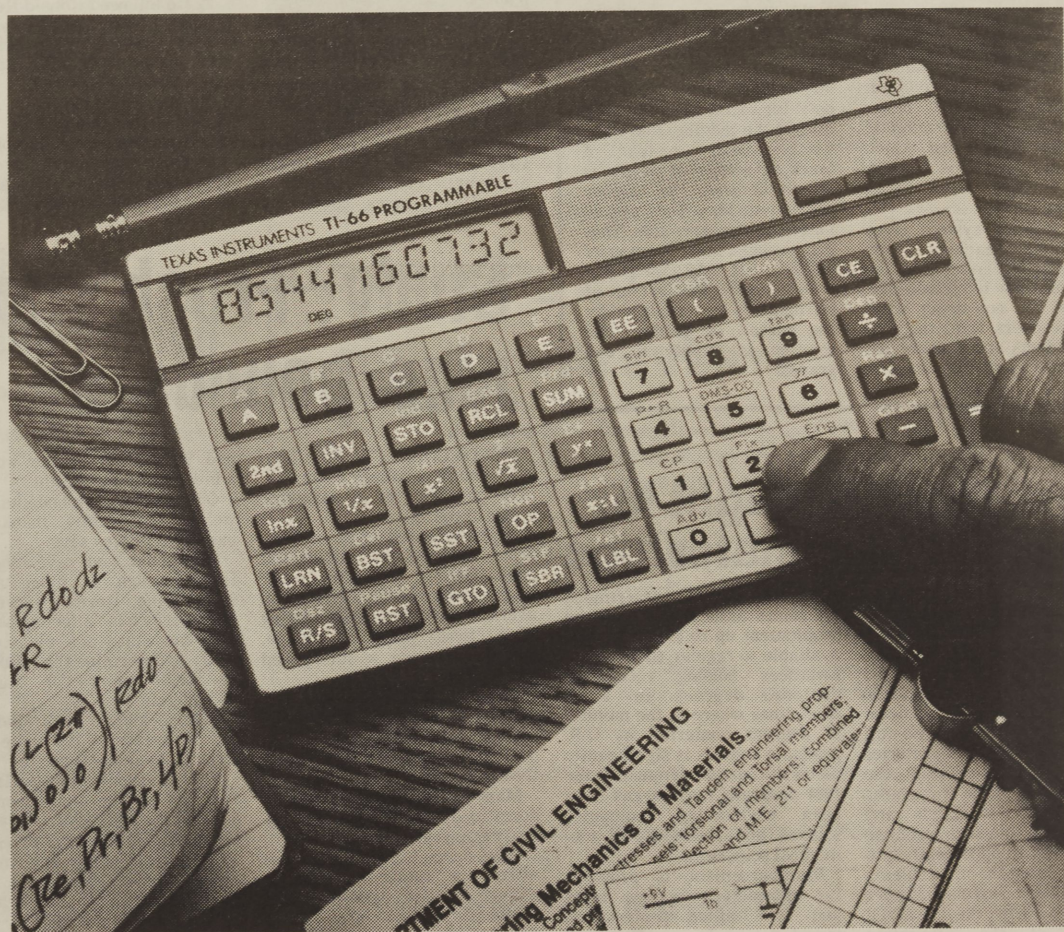
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# Thorn Sports



Adam Dixon (left) and Mike Radomsky (right) look on as Mark Jensen (center) battles for possession. The Engineers lost to Sewanee 3-1 last Sunday.

Nick Jokay photo

## Engineers fall short of first victory

by Steve Feglin

The Engineer football team fell just a little short Saturday afternoon in losing their home opener to Taylor University 14-13.

Taylor did all of their scoring early. In the first half, the Taylor squad rushed for 77 yards with touchdown runs of 13 and 34

yards. The second half was a different ballgame as the Rose defense shut out Taylor and allowed a mere seven yards rushing.

The Rose offense was in Taylor territory three times in the first half, but had only a field goal to show for the effort. The Engineer

offense played aggressively in the second half led by Mike Patterson who scored the Rose touchdown and gained 108 yards rushing.

"I was pleased with the effort, but frustrated with the results," said coach Bob Thompson.

## Trapp wins NCAA javelin

by Bert Stone

On Saturday, May 27, 1984, Chris Trapp became Rose-Hulman's first track and field national champion. Chris achieved this on his third of six throws with a toss of 245 feet 6 inches. This is a great feat in itself, but an even greater feat considering that Trapp had never touched the javelin a year before.

"I started throwing the javelin last summer with a friend who taught me the basics. Then when I got to school I decided to give it a try." This Chris did. He started slowly and improved gradually throughout the season. He began with tosses of 180-190 feet and increased his distance to 200 feet. However Chris says, "It wasn't until three weeks before nationals when my timing started getting better and I

started using a longer rated javelin which gave me some more distance."

After qualifying for the national meet with a toss of 208 feet, Chris went to Northfield, Minnesota. The meet was held the weekend after spring quarter finals. Chris felt the relief of no more school work allowed him to concentrate on his throwing. "I felt really good at the national meet. There were no classes to think about and the setting and weather at Northfield were both quiet and peaceful. That helped me very much."

## CC runs to a strong finish

by Erik Schneckloth

The Rose-Hulman cross country team competed in the 23rd annual Wabash College Hokum-Karen meet on Sept. 8. The Hokum-Karen is different from typical cross country races in that each team consists of two runners. Each competitor runs three 1-mile segments and the total time is the sum of the six. Rose finished third behind Anderson and Butler.

The Engineer squad ran well with three teams under 30 minutes (compared to just one team last year). Six Engineers ran their three 1-miles under 15 minutes and three more finished just slightly above 15 minutes. Rose had nine runners within 23

seconds of each other. The effort allowed five teams to finish faster than their second place team last year.

Coach Bill Welch commented, "We found out what was expected — we have numbers, stronger overall team strength. We have nine or ten people to call upon when things go wrong, which is good."

### Team Scores

1. Anderson	12
2. Butler	20
3. Rose-Hulman	23
4. Wabash	41
5. Taylor	51
6. Manchester	70
7. IPFW	79
8. DePauw	94

## Oops! Sorry fans

The following article was first printed in the April 13, 1984, issue of the THORN. By now it is obvious that there was a slight "misprint" in this issue. The "misprint" was pointed out by several avid THORN readers who recommended that several excerpts from the article be reprinted.

### CHICAGO

The Cubs will win the National League East if an atomic bomb is dropped in the middle of May. Otherwise, the Cubs are still the Cubs and will once again face reality in the middle of June. Sorry, Cub fans.

### NEW YORK

It seems that the Mets have been rebuilding since 1969. New York has a new manager again this year, Davey Johnson. Johnson is the Mets' fourth manager in four years. Although the Mets have an excellent trio of players in Keith Hernandez, George Foster, and Mookie Wilson, the team is lacking a real leader. Maybe this year Johnson will become the needed leader and lead the Mets to a fifth place

### finish. MONTREAL

This is the team to beat in the NL East. The Expos have been in the thick of the race for the last few years, but have never been able to put it together in the last weeks of the season. With the addition of Pete Rose, the Expos will have the spark that they need down the homestretch. Pitchers Steve Rogers, Bill Gullickson, and Charlie Lea combined for 50 victories last year and the staff will be better this year. The Expos acquired pitchers Fred Breining from San Francisco and Gary Lucas from San Diego. In the past three years, Lucas has earned more saves than any NL lefthander. Montreal's fine pitching staff and the addition of Charley Hustle will lead them to the NL East title.

### PREDICTED FINISHES

- 1) MONTREAL
- 2) PITTSBURGH
- 3) ST. LOUIS
- 4) PHILADELPHIA
- 5) NEW YORK
- 6) CHICAGO

— Sports Editor

### 10% DISCOUNT

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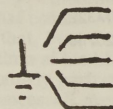
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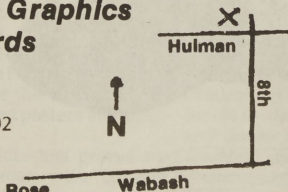
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## Page 9 remembers

After shuffling through many old boxes, books, attics, trunks and trash cans, Page 9 investigative reporters have assembled a list of nostalgic questions, sure to resurrect some old memories (if not raise some old eyebrows).

Each question begins quite simply:

- Remember when . . .
- ... the speed limit on the highway was 70 mph?
- ... there were red M. & M's?
- ... the top pop singers was Donny Osmond? Frank Sinatra? Bing Crosby? Rudy Vallee?
- ... calculators only performed simple arithmetic and cost several hundred dollars?
- ... the "in-thing" was to own a pet rock?
- ... candy bars were only a nickel?
- ... girls who talked about "the pill" were referring to their teacher?
- ... Dr. Grimaldi had to curve the Calc III final?
- ... Rosie was at every home football game?
- ... wide ties were in? (Did some of you know that they went out?)
- ... Page 5 "went political"?
- ... you had never even heard of Rose-Hulman? Or even Rose-Poly?
- ... The *Thorn* wasn't the *Thorn*?
- ... you were convinced that your dad could do anything? (Do you still think so?)
- ... all the schools in Indiana were closed due to snow except for Rose-Hulman because we were having finals?
- ... over half of the incoming freshmen weren't CS or EE majors?
- ... ARA served bagels at every breakfast?
- ... you last wet the bed?
- ... when the *Thorn* was always only four pages long every week?
- ... someone got an "A" in Dr. Parshall's Lit & Writ class? (Or any of his classes?)
- ... Lambda Chi didn't win the Greek Games?
- ... you thought girls were "icky"? (Or for you girls, when boys were "icky"?)
- ... page 9 productions were a lot longer?

## Exclusive Page 9 photos reveal latest sophomoric abduction



Bruce Mueller photos

## ALL PRO CAREER OPPORTUNITIES

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**ELECTRONIC ENGINEERING** There are opportunities in a variety of research and development projects ranging from individual equipments to very complex interactive systems involving large numbers of micro-processors, minicomputers and computer graphics. Professional growth is enhanced through interaction with highly experienced NSA professionals and through contacts in the industrial and academic worlds. Facilities for engineering analysis and design automation are among the best available.

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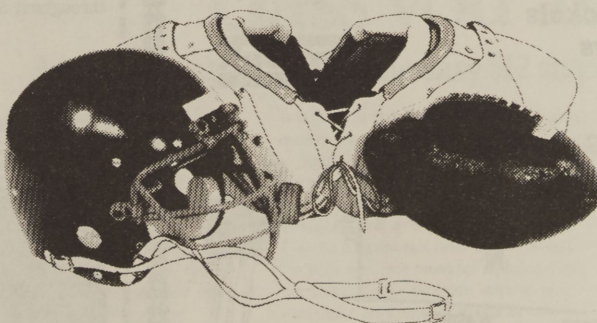
discover one of the largest computer installations in the world with almost every major vendor of computer equipment represented. NSA careers provide mixtures of such disciplines as systems analysis and design, scientific applications programming, data base management systems, operating systems, computer networking/security, and graphics.

**MATHEMATICS** You'll work on diverse agency problems applying a variety of mathematical disciplines. Specific assignments might include solving communications-related problems, performing long-range mathematical research or evaluating new techniques for communications security.

**THE REWARDS AT NSA** NSA offers a salary and benefit program that's truly competitive with private industry. There are assignments for those who wish to travel and abundant good living in the Baltimore-Washington area for those who wish to stay close to home. Countless cultural, historical, recreational and educational opportunities are just minutes away from NSA's convenient suburban location.

To find out more about NSA career opportunities, schedule an interview through your college placement office. For additional information on the National Security Agency, write to National Security Agency, Attn: M322, Fort George G. Meade, Maryland 20755.

**On Campus Recruiting Date:  
Oct. 12, 1984**



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