

Rose-Hulman Institute of Technology

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Student Newspaper

Winter 3-15-1985

Volume 20 - Issue 21 - Friday, March 15, 1985

Rose Thorn Staff

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Rose Thorn Staff, "Volume 20 - Issue 21 - Friday, March 15, 1985" (1985). *The Rose Thorn Archive*. 681.
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Et Tu,
Brute?

the Rose Thorn

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Happy St. Patrick's Day!

Sunday will be March 17. Thousands of people will wear green, talk about the Blarney Stone, shamrocks and leprechauns, and maybe see a parade, eat Mulligan stew, or even toss some Irish bulls. Why? Because it will be St. Patrick's Day — the national holiday of Ireland.

St. Patrick was born in Roman Britain about 389. When he was 16, he was sold into slavery in Ireland. After spending six years as a shepherd, he escaped back to Britain. Patrick was compelled by a "voice within" to enter the priesthood and return to Ireland as a missionary. He is still revered for his work among the tribes and clans and for founding many churches and schools.

Lilly awards two grants

The Lilly Endowment, Inc., has awarded two grants to faculty at Rose-Hulman for the development of new courses on physics and humanities.

The \$5,000 awards will be used to implement an optics instrumentation course which will be part of the applied optics program in the Department of Physics and a language class entitled, "Natural Language and LISP," offered by the Department of Humanities, Social and Life Science.

The support will enable Drs. Brij M. Khorana, professor and chairman of the Department of Physics, and Robert M. Bunch, assistant professor of physics, to develop experiments for use in the laboratory-oriented optics course. The class will be offered next year as part of the college's undergraduate minor in applied optics. Beginning in September, Rose-Hulman will become one of the few engineering colleges on the nation to offer a masters program in applied optics.

This is the second consecutive year that the Lilly Endowment has awarded funds to the Department of Physics for course development.

According to Professor Khor-

ana, the demand for engineers and scientists in the optics field far exceeds the supply. He says the new course will emphasize communication and computer skills as well as educate students about topics such as optical detectors and optical systems and sources.

Teaching students how to communicate with a computer by using English language sentences rather than a computer language is the purpose of a course being developed by Dr. Samuel Vuchinich, associate professor of sociology, which also receives support from the Lilly Endowment.

"Natural language processing provides a new, easier way for engineers and scientists to use computers to convey information and instruction," Vuchinich explained.

"With these methods more people can use a computer because they can communicate in their own words, not in a computer language," he said.

The course, which will be offered for the first time next spring, will also expand the student's understanding and uses for the English language, according to Vuchinich.

Financial aid deadline approaches

Deadlines are quickly approaching for summer and all financial aid, according to The Scholarship Bank.

Students with financial needs should begin now to investigate some of the more than 25,000 private aid sources, according to Steve Danz, director. These funds are available to students with interests in a number of fields, and many do not depend on demonstrated financial need, as do state and federal funds. For example, students with an interest in business, law and accounting can receive a stipend from the Exceptional Student Fellowship Fund, and apply to the parent corporation for full time work following graduation.

The Scholarship Bank is the largest private scholarship bank in the country for undergraduate and for graduate grants and loans. The computer can help you find sources designed just for you, based on your major, occupational goal, geographic

desires, type of aid requested (scholarships, loans, summer work), and special skills and hobbies. According to the director, the computer guarantees each student at least 50 sources of aid.

It has been estimated that each package of aid represents approximately \$20,000 in potential money for college. Private aid comes from America's largest foundations, corporations, unions and private donors and total approximately 500 million dollars, or one fourth of all available aid. Thus, it is an extremely valuable addition to the private and state monies available. As an example of the depth of the search, the bank reports one student found 36 sources for the most unusual major of "deep sea diver." Students wishing to use the search should send a stamped, self addressed envelope to The Scholarship Bank, 10100 Santa Monica, No. 2600, LA, CA 90067.

AFROTC will discuss opportunities

Attention: Freshmen

We're betting **FREE PIZZA AND POP** that Air Force ROTC is for you. On Tuesday, March 19, 1985, from 7:00-9:00 p.m., we will be in the Performing Arts Room in the Union Building. Free pizza and pop will be served and we will show films about engineering and flying to today's Air Force.

We will also be talking about

the Air Force ROTC program at Rose-Hulman and how you can apply for an AFROTC scholarship. The scholarships pay full tuition, books, lab fees and \$100.00 per month.

Come and find out about the opportunities available to you through AFROTC and have free pizza while you're at it! This event is only for freshmen, so bring your student ID.

Encore Presentation

Linda's fifth appearance

by David Strelow

Linda Black is back. The Student Activities Board brings the most requested Encore Presentation performer back to Rose tomorrow night, Saturday March 16, at 8:00 in the WORX.

Linda Black has performed at over 100 colleges and clubs over the past few years. Her show last year was one of Rose's best Encore Presentations ever. (The show was still going strong at midnight with the audience begging for more.)

Her stage personality combines an off-the-wall sense of humor with musical skill and stories to give a well-timed show. And her display of genuine affection usually earns great applause and audience appreciation.

Linda's show is certainly one-of-a-kind. One minute, the audience enjoys remarkable renditions of Stevie Nicks' "Landslide" and the Eagles' "Desperado." The next minute, audiences see truly bizarre versions of "Shine on Harvest Moon," "Puff the Magic Dragon," and "The 12 Days of Christmas." She even presents an original poem called "The Spidey" along the way. The tone of her show is as sweet as her exceptional lyrical voice, and as fun as her version of the "Gilligan's Island" theme, sung with an accompaniment of music from "Stairway to Heaven," which she wrote for deposit in a time capsule.

Besides guitar, piano, ukelele and a Japanese folk instrument



(a combination calculator-keyboard by Casio), Linda plays a lovely dulcimer, singing, "I could drink a case of you and still be on my feet."

Linda Black began studying at the Art Institute of Chicago, Illinois. After receiving her degree in music at the School of Art, she attended the conservatory, majoring in composition. Linda then enrolled in DePaul Univer-

sity and obtained her bachelors degree in classical piano.

There is no admission charge to Linda's fifth annual Encore Presentations performance. Come and see a show that you must experience to fully comprehend.

Other Encore Presentations coming in the future include Bob Garner, magician and illusionist March 22 and Tom DeLuca, hypnotist and comedian April 19.

Job market lags recovery

by Robert Kline

The news of the recovering economy has raised many students' hopes for the job market this year. Although the economic news is good, Bill Sisson, placement director, warns students to keep their expectations realistic. He states, "We have to remember it's a buyer's market out there. For all that the news media tells us about the economy being better, you have to be careful what they're comparing it to."

He continues, "It's frustrating for students to read and know that people are saying the economy's on the rebound, only to find out it has to improve for quite a while before a company can actually justify new hiring."

According to Sisson, the main difference between current and past corporate recruiting is the mechanics of it. In the past, a company would make a certain number of job offers, aware that the past had indicated that they

would have only a certain percentage of acceptances. Two or three years ago, when the economy tightened up, almost all the offers were accepted and it took industry by surprise.

Sisson explains, "Industry had difficulty in working with that. What has happened is that this year we're seeing that a limited number of offers are being made and then industry is waiting to see whether or not they'll be accepted. Further offers would then be made depending on the results of the previous ones. Consequently, it is taking longer for the wheel to turn and the lower quartile students to get placed."

One thing that has remained constant is that the top of the class is being highly sought after. "The student, regardless of his discipline, that has a good grade point and an ability to communicate is being highly sought after," states Sisson.

The difference that is being felt is that a large number of students are still waiting to receive something. Sisson isn't worried, though. He comments, "I'm optimistic. I think it's going to happen. I just think it's going to take longer to happen."

The summer job market appears to have shown some improvement, as Sisson states, "We have had as many, if not more companies on campus seeking summer students than we've had in recent years."

"The key to student success," stresses Sisson, "is to be aggressive and to follow up on interviews in a stronger way than in the past." He also urges students to pursue jobs at companies that don't recruit at Rose.

The placement office should soon be distributing a survey to seniors. It would greatly aid the placement office if seniors would promptly fill it out and return the survey.

Record number of applications received

Despite a decline in the number of high school graduates and intense competition among colleges, Rose-Hulman Institute of Technology has received a record number of applications for its 1985 freshman class, according to Charles G. Howard, dean of admissions.

Thus far, 2,852 high school seniors have submitted applications to Rose-Hulman which tops last year's record figure of 2,809. The freshman class is limited to 350 students.

Howard says that only about five percent of the nation's high school seniors qualify academi-

cally for admission to Rose-Hulman and the competition for those students is intense.

"The student who has been admitted to Rose-Hulman has heard from more than 200 other colleges. There are simply fewer students and that translates into fewer academically talented students and less students who are interested in engineering," he explained.

Howard emphasized that Rose-Hulman has not lessened its admissions requirements in an effort to seek more applications. In fact, he notes that with the rise in student interest has

come an increase in the academic quality of Rose's student body.

"During the past 10 years the applications for our freshman class have increased from 457 to nearly 2,900. At the same time we have seen an increase in the number of students who were ranked in the top five percent of their graduating class and a rise in the number of students who are the winners of prestigious national scholarships," Howard stated.

In the current freshman class, 96 percent were ranked in the top

See Applications on pg. 3

Letter to the Editor

Dear Editor,

In the past two days several students, staff members, and faculty members have asked questions about our policy regarding the closing of the school for weather-related reasons. Those of us who have been here for several years probably have a fairly good "feel" for the policy. For most of the students and many employees, however, this was the first experience with the situation. I would like to articulate my views of the situation for you and, perhaps, provide some insight into the decision-making process which surrounds the possible closing of the school because of inclement weather.

First of all, the fundamental premise of the "argument" is that we want to keep the school open, i.e., we are not looking for a reason to close. With that starting point, we must consider the following questions:

1) Can the students get here?
2) Can faculty and staff members get here?

3) If students, faculty members, and staff members can get to the campus, can we assure relatively clear roadways, parking areas, and walkways for their use?

4) Is the wind-chill factor such that a student or employee would be in serious jeopardy in the event he or she becomes "stranded" while attempting to get to Rose-Hulman?

I will provide the answers to these questions as I saw them on Monday night and Tuesday morning, February 11 and 12.

The question of whether or not the students can get here is a fairly easy one to answer for Rose-Hulman. The fact that approximately 60% of our students live on the campus provides a nearly immediate affirmative answer to this question. The question of the other 40% must be considered, of course, but the large resident population here essentially assures that a sufficient number of the students will be able to attend classes to make the effort worthwhile. The question of whether or not employees can get here helps to answer the question about whether or not off-campus students can get here.

At midnight on Monday night Poplar Street, Route 46, and Wabash Avenue were all relatively clear and "navigable" as long as you took your time. Those same streets were examined again at 6:45 a.m. on Tuesday and were found to still be in suitable condition. Therefore, I concluded that a sizeable portion of the off-campus students and faculty and staff members would be able to get to the campus on Tuesday.

The groundskeeping crew and the security staff were doing an excellent job of keeping ahead of the storm late on Monday night and it appeared that they would have the parking lots and the roads cleared by 7:30 a.m. on Tuesday. The early morning check on Tuesday confirmed the Monday night indications.

The last question on the list concerned the safety of students, faculty members, and staff members as they tried to get to the campus. Temperatures were in the low twenties both Monday night and Tuesday. The wind velocity was such that the wind-chill factor was at or below zero. Nonetheless, in my judgement, the severity of the weather was not such that it posed a clear threat to the safety of anyone caught out in the storm.

In summary, I could see no convincing reason to close the school on Tuesday. In my opinion, all of the major situations that would indicate that we should close, were being adequately addressed.

I think some comments are in order about the fundamental assumption that we should try to operate. I don't think we should "get all puffed up about it" but I do believe the things that we do here are important. Therefore, the reason that causes us not to do them should be fairly compelling.

At Rose-Hulman we expect employees to have some commitment to the goals and purposes of the school; in turn, those of us who make up the collective "institution" are concerned with the goals and aspirations of each of the individuals who work here. In this kind of an environment, employees "owe it" to the place they work to make some effort to be on the job, even if it is somewhat inconvenient. People should not take unreasonable risks with their life, personal safety, or the safety of their property to be here, but inconvenience or a modest amount of discomfort is not too much to expect.

Students should also be anxious to have classes continue uninterrupted. After all, the primary reason that students enroll at a school and a major reason why students pay tuition is so that they can be provided with classroom and laboratory instruction. I must admit, of course, that I saw this a little differently when I was a student. However, it seems a little illogical that I would prefer to not get something that I had paid for and which was the major focus of my life at the time.

Many people in the Terre Haute community and in the campus community seem to feel that we simply stay open in nearly any kind of weather because it is the "macho" thing to do or that we think that the thing we do is more important than what anyone else does. People have also indicated that they feel we do not even consider closing when the weather is bad.

I hope the foregoing discussion will answer some of the questions people had about the matter. We do think we do something important: it should not be done at all costs; neither should it be abandoned without serious reason. We do consider closing every time the weather is bad. Our constraints are such, however, that we can remain open even when good judgement dictates that others must close.

In the future, I can assure you that someone (usually Dr. Hulbert) will be considering all of the factors involved when heavy snow begins to fall. We will not ask you to come to the campus unless it seems prudent to do so. In any case, the final judgement in the matter is always left to the individual employee or student. Each of us must decide for ourselves the advisability of trying to reach the campus when the weather is bad. Only I know the condition of my health, my car, my driveway, etc. No one will be criticized for saying that their best judgement was that they should not venture out. When Rose-Hulman remains "open," what we are saying is that we believe that conditions are not intolerable and that when you arrive on the campus we will be able to accommodate you and the important activities you had scheduled for that day.

I will be pleased to discuss the matter further with anyone who has suggestions about how this decision-making process might be improved; I feel certain the President will honor that same offer.

Sincerely,
James R. Eifert
Vice President for Academic Affairs and Dean of the Faculty

The Gospel According to Herman

by Steve Backer



Album Review

Cockburn hits America

The music of Bruce Cockburn has finally reached an American audience with the single "If I Had a Rocket Launcher" off his 12th and latest release, *Stealing Fire*. *Stealing Fire* is mellow, rhythmic and continuous, containing lyrics especially challenging to Americans.

In his lyrics on a previous album, Cockburn reflects an influence of contemporary poets and a strong belief in Christianity. The songs on *Stealing Fire*, however, only reflect the former. Side One concentrates on the state of modern relationships and comments on the function of the poet:

when you're lovers in a dangerous time
sometimes you're made to feel as if your love's a crime —
but nothing worth having comes without some kind of fight —
got to kick at the darkness til it bleeds daylight

wet limbs striped with silver light
locked together at the centre of the night
and your hair tumbles down like Sahara gold

maybe the poet is drugged but he won't stay under the rug
maybe you and he will not agree
but you'll need him to show you new ways to see

On Side Two, Cockburn angrily criticizes the corruption and poverty in Mexico ("If I Had a

Rocket Launcher") but strongly applauds the government of Nicaragua ("Nicaragua" and "Dust and Diesel"). "If I Had a Rocket Launcher," however, does not suggest any solutions to Mexico's plight except vengeance against imaginary antagonists. Where this song is weak and vague, "Nicaragua" and "Dust and Diesel" are vehement and precise:

at age fifteen he's a veteran of four years of war
proud to pay his dues he knows who turns the screws
baby face and old man's eyes in the flash of this moment you're the best of what we are —

don't let them stop you now Nicaragua
sandino of the shining dream who stood up to the u.s. marines
now washington panics at U2 shots of "cuban-style" latrines

Cockburn's musical style reflects his Latin American and rock 'n' roll influences, the resulting fusion being a mellow but rhythmic sound. To achieve this effect, he synthesized traditional rock 'n' roll instruments (like electrical guitar) with Caribbean percussion instruments (like steel drums). The lack of versatility of Cockburn's voice, however, detracts from the harmony and superb quality of the accompaniment.

— by Brian Evans

1984 GREEK GAMES PHOTOS WANTED

The Thorn will pay \$2 per photo printed. Submit photos to Box 130 as soon as possible.

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Around the World on a Shoestring

Free '85 Student Travel Catalogue from CIEE

Free '85 Student Travel Catalog from CIEE

The Council on International Educational Exchange (CIEE), the largest student travel organization in the United States, announces the publication of the 1985 Student Travel Catalog. Now in its twelfth edition, the 64-page Catalog is one of the most comprehensive, free budget travel guides available. It is an invaluable source of information on the basics of traveling, studying and working abroad.

International Student I.D. Card

The Catalog contains details on worldwide discounts, benefits and travel bargains available to holders of the International Student I.D. Card - the only internationally recognized proof of student status, and an absolute must for any student traveler. Eligible students are offered substantial airfare savings over regular prices on major international routes, automatic accident and sickness insurance as well as a free 64-page guide listing discounts in over 50 countries. The Council is the official U.S. sponsor of the I.D. Card.

Work Abroad Program

The Council's Work Abroad program, the only one of its kind available to U.S. stu-

dents, provides an opportunity to work abroad on a temporary basis. By cutting through red tape, the Council has helped tens of thousands of students to obtain work in Great Britain, Ireland, France, Germany and New Zealand. Participants find that salaries more than cover the cost of room and board and many save enough to finance their post-work travel too.

International Volunteer Projects (Work Camps)

International work camp summer programs, open to both students and non-students, place volunteers in community service projects throughout Western Europe, Scandinavia and Eastern Europe. Participants are drawn from every corner of the world and free room and board help to keep participation costs minimal.

Statue of Liberty/Ellis Island Volunteer Project

After successfully launching a pilot program last summer, the Council will again in 1985 sponsor its Statue of Liberty and Ellis Island volunteer project. Using grant support from the United States Information agency, and in cooperation with the National Park Service, the project will focus on the restoration of these two important monuments.

Free Travel Planner

A travel planning service, offered absolutely free of charge and without obligation is available to all Catalog readers. The Council will re-



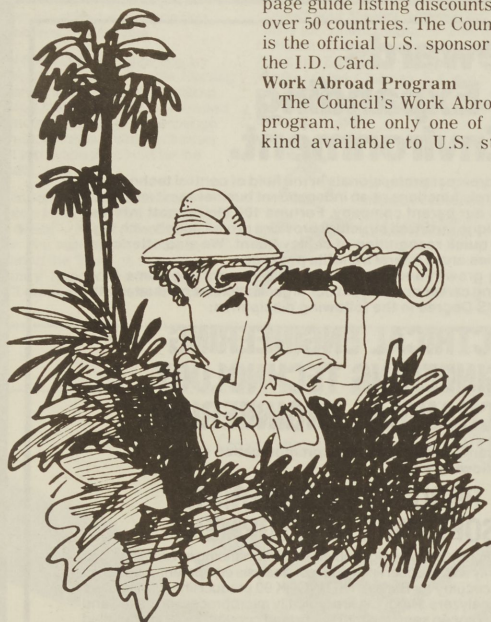
search the lowest possible airfare for any given journey and will suggest travel packages and options that fit the individual's interests and budget. More than 10,000 Travel Planners were processed by the Council in 1984.

General Travel Information

The Catalog also provides information on study abroad programs, up-to-the-minute information on international railpasses, language courses in Europe, low-cost tours, car plans, budget accommodations, trip insurance and budget travel guides. The easy-to-read Catalog comes

complete with handy applications and order forms for all the programs and services listed. Although some services are available to students only, most are open to all.

The 1985 Student Travel Catalog may be obtained by writing to CIEE, Dept. STC '85, 205 East 42nd Street, New York, NY 10017, (212) 661-1414; or by visiting any of the Council Travel Services offices in New York, San Francisco, Berkeley, Los Angeles, San Diego, Long Beach, Portland, Seattle, Boston, Amherst or Providence.



Rose prepares for a decade of change

The Board of Managers has approved a long-range plan that is critical to Rose's ability to maintain its standard of excellence during a time of dynamic change in education and industry.

College officials also announced the successful completion of the five-year Blueprint for Excellence campaign which surpassed its \$19.2 million goal by more than \$1 million with \$20.3 million received.

Regarding the long-range plan, Hulbert said, "It will guide Rose-Hulman through the next ten years when engineering and science education will change more than we have ever seen."

"The way scientists and engineers practice their professions is fundamentally changing. Therefore, a quality education for students who will enter those professions must also change if that education is to be adequate," Hulbert added.

The plan, "Decade of Challenge: Excellence in a Changing Environment," was developed by the college's Long Range Planning Commission under the direction of Dr. A. T. Roper, vice president for planning and data systems. It identifies four goals that Hulbert says must be accomplished if Rose-Hulman is to preserve the excellence of its programs.

The goals are the completion of a multi-million dollar renovation of the college's largest academic building, Moench Hall, the integration and expansion of computer use in the various curricula, increased professional development of the faculty and the continued recruitment of academically talented students.

According to the plan, by the start of the 1986-87 school year, every academic department will have completed a comprehensive review and begun revision of its curriculum to assure the appropriate use of personal and Institute main-

frame computers to reflect current professional practice.

The completion of the Moench Hall renovation would result in new classroom and laboratory facilities for the departments of mechanical and electrical engineering; chemistry and physics. The improvement project also includes re-equipping of remodeled laboratories. Completing the renovation of Moench Hall will be the primary goal in regard to facilities.

A third area, according to Hulbert, is the professional development of faculty. Noting that the most critical capital investment of any educational institution is the professional expertise of its faculty, Hulbert said, "changes in the practice of engineering and science have eroded the professional expertise of faculty at an accelerated rate."

The study calls for the creation of a plan to examine the specific role that professional development will play to foster faculty expertise. It recommends re-

duced teaching loads to allow faculty to participate in professional development programs, increased funds for professional development activities, including course and delivery system development, in the science and engineering disciplines. The plan says special efforts should be made to hire future faculty who have recent laboratory or industrial experience with computer-based design, manufacturing and computation systems.

The long-range study includes several recommendations to assure that Rose-Hulman will be able to recruit the nation's best students at a time when the number of high school graduates continues to decline.

According to the plan, the Institute should maintain its high standards for admission, increase the geographic extent of its recruiting efforts, increase the resources available for financial aid, continue to accelerate efforts in the area of public relations and hire additional admissions staff.

Applications cont. from pg. 1

five percent of their high school graduation class. That compares to 84 percent 10 years ago. The number of current Rose freshmen who were National Merit Scholarship winners is five times the number in the freshman class of 1974. Nearly 25 percent of Rose's freshmen were ranked either first, second or third in their high school graduation class.

According to Howard, students are becoming more aware that an engineering education presents them with increased career options.

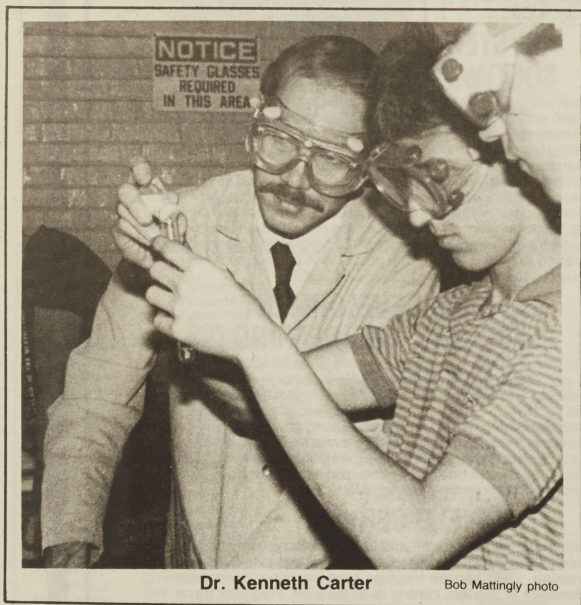
"In addition to the job opportunities in a technical field, students see engineering as a good background for admission

into medical or law school as well as corporate management," he explained.

Howard pointed out that the average starting salary for 184 Rose graduates was \$26,800.

"It is interesting to note that more than 50 percent of the Fortune 500 companies are led by managers who have engineering degrees," he said.

Howard says the competition among colleges will mean a decrease in the use of traditional student recruiting methods and an increase in sophisticated marketing techniques. He pointed out that the decline in the number of high school graduates will continue for another three or four years.



Dr. Kenneth Carter

Bob Mattingly photo

Faculty Spotlight

Physical Chemist joins faculty

By Robert Kline

Dr. Kenneth N. Carter is a new member of the Rose-Hulman chemistry faculty.

Dr. Carter's position at Rose is his first faculty teaching position. He was brought to Rose by the fact that he was looking for a school with a strong academic program and an undergraduate emphasis.

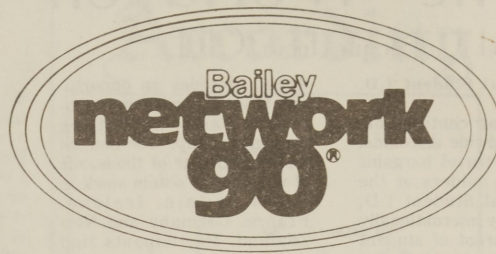
Dr. Carter has been pleased with his choice of Rose. He states that he has found a cohesiveness of purpose all through the institute that permeates from the students, to the faculty, to the administration.

Being a first-year professor, Dr. Carter has found that he and his freshmen students face a similar challenge. While the freshmen are learning to be Rose students, Dr. Carter is learning the ins and outs of being a Rose

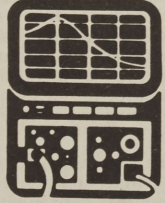
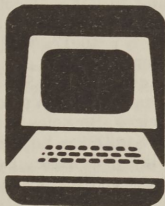
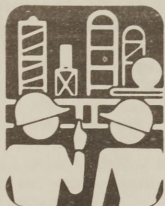
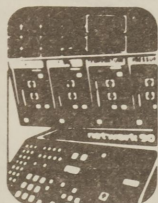
professor. Dr. Carter states, "A lot of what you have to deal with as a professor in your first year is the time crunch. You have to order your priorities." This similarity of challenge helps Dr. Carter to relate to his students.

Dr. Carter is unmarried and has numerous hobbies. He enjoys playing classical guitar, singing and reading, including German Classical Poetry. As for outdoor recreation, he actively enjoys hiking, swimming and tennis. He is also active in church work.

Dr. Carter received his Ph.D. in physical chemistry from Vanderbilt University. While there, he was awarded a National Science Foundation Graduate Fellowship. He is a member of both the American Chemical Society and the Tennessee Academy of Science.



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PROCESS MANAGEMENT SYSTEMS

As a member of a project team, engineers and programmers participate in development and application of standard software products and one-of-a-kind contract software in the fields of industrial process control and data acquisition systems. Assignments typically involve problem definition, customer interface, field installation and testing, and troubleshooting. Work is typically done in a standard high level language such as FORTRAN, BASIC, C and PASCAL. The hardware environment includes mainframe, minicomputer and personal computers manufactured by IBM, DEC, HP and MODCOMP, as well as microprocessor-based Bailey products. Foreign assignments are available if desired. Can progress to project engineer or project manager. BS or MS in CS/ChE/EE.

CHEMICAL AND PROCESS INDUSTRY CONTRACT ENGINEERING

Engineers apply Bailey instrumentation products to solve industrial problems, translating customer requirements into control and instrumentation systems for a variety of processes. Calls for excellent interpersonal skills and salesmanship in dealing with associates and customer personnel. Courses in Electronics and Computer Technology are a plus. Can advance to Control and Instrumentation system strategist for a wide range of chemical and industrial processes. BS or MS in ChE/EE.

TECHNICAL PUBLICATIONS

Write and prepare specifications and instructions for Bailey's NETWORK 90 product line, incorporating hardware and software changes. Using information gathered from engineers, documents, schematics and drawings, as well as from working with equipment, develop text and provide direction on supporting illustrations describing personal computer-based work stations. Will work with Marketing Communications for photography, artwork and typesetting/paste-up. Some technical writing experience is a plus. Can progress to overall responsibility for publication preparation. BA or BS in ET/CS/ChE.

PRODUCT DEVELOPMENT MECHANICAL ENGINEERING

As a member of a project team, engineers develop control products suitable for effective manufacturing. Includes analysis, testing and design enhancement of various mechanical, pneumatic or electro-mechanical control instruments, as well as documenting designs and participating in initial production of new mechanical products. Computer aided design tools will be used exclusively and there will be immediate training to operate a state-of-the-art Computervision system. Can quickly progress to project team leader. BS or MS in ME.

PRODUCT DEVELOPMENT & SUPPORT ELECTRONIC ENGINEERING

Assist other engineers in analog/digital circuit design using OP Amps, transistors, digital IC's including CMOS. Includes creating new electronic circuits for products which may include microprocessors. Will also make variations on existing designs to meet contract specifications or because of component obsolescence, and solve problems that arise in the factory or field. Will set up and run lab tests, possibly supervising technician. Calls for problem solvers able to design circuits. Can quickly progress to project engineer. BS in EE/ET or other with major in Electronics.

See us and learn how you can begin a rewarding career. Qualified candidates are also invited to write to:

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Bailey Controls Company
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PRODUCT ENGINEERING SOFTWARE DEVELOPMENT

After initial assignments solving problems and enhancing existing designs to gain familiarity with product lines and test/analysis equipment, will design digital/analog circuitry for Bailey's NETWORK 90 product line, transmitters and process analyzers. Products are typically microprocessor-based and incorporate advanced semi-custom integrated circuits. Includes detailed design, stress analysis, timing analysis, prototype testing and validation. Some microprocessor experience is essential, co-op experience and a senior project are strongly preferred. Can advance to project engineer. BS or MS in CS/CE.

SYSTEMS ENGINEERING SOFTWARE DEVELOPMENT

As a member of a project team, will design, implement and test software for sophisticated process control equipment. Hardware is microprocessor-based and modular. Software functions include processing digital/analog I/O, regulating high-speed data communications networks and interfacing to large mainframe computer systems. Also helps introduce products to manufacturing and assists in initial field installation. Requires training or experience in microprocessor/minicomputer assembly language programming, real-time operating systems, data base management and computer networking. Some familiarity with digital/analog circuit design and computer system hardware is desirable, exposure to "C" programming language and UNIX operating system is a plus. Can progress to project leader or group supervisor, or to staff engineering. BS in CS/CE/EE.

SYSTEMS DEVELOPMENT ELECTRICAL ENGINEERING

Will initially investigate and resolve problems on existing designs to gain familiarity with product lines and test/analysis equipment, also enhance existing designs. Basic assignment is to design digital/analog circuitry for Bailey's NETWORK 90 product line, transmitters or process analyzers, typically microprocessor-based and incorporating advanced semi-custom integrated circuits. Includes detailed design, stress analysis, timing analysis, prototype testing and validation. Some experience with microprocessors is essential, co-op experience and a senior project are strongly preferred. Can advance to project engineer. BS or MS in EE.

FIELD SERVICE

Engineers join our Field Service Internship Program and learn process control and state-of-the-art microprocessor technology. Includes classroom and in-plant training. Field service involves start-up, initial commissioning and maintenance of process control in all markets. Requires travel and includes functions such as installation consultation, initial calibration, process analysis, testing and tuning. Maintenance and system performance evaluation skills are important. Must have good customer relations skills, technical ability, enthusiasm and desire to work independently. Can progress in Service Management, Sales, Marketing, Contract Engineering and Application Development. BS in ChE/EE.

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Wednesday, March 20**

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And federal deficit spending is getting all of us into trouble. Starting a career is tough enough without having to struggle with a wounded economy. If the deficit catches up with us, inflation, failing industries and job shortages could be the results.

It's important that our decision makers know how you feel about the deficit — to get them to act now. You can let them know by entering the "You Can Save Your Country" National Essay Contest. We'll make sure that the President

and Congress receive a copy of your essay PLUS, you can win a \$10,000 scholarship, or one of three \$2,500 scholarships.

Contact your Student Government Office for contest details, or write to National Essay Contest, Institute of Financial Education, 111 East Wacker Drive, Chicago, IL 60601.

But hurry! Entries must be received by April 29, 1985.



the INSTITUTE of financial education
111 EAST WACKER DRIVE
CHICAGO, ILLINOIS 60601

\$10,000 Scholarship Save Your Country Essay Contest

A national essay contest offering a \$10,000 scholarship and three \$2,500 honorable mentions has been announced by the Institute of Financial Education.

The contest, based on the theme "You Can Save Your Country," is open to all full-time students at four-year colleges and universities, community colleges, and vocational and technical schools. Full-time high school seniors also are eligible.

Essays are limited to 1,500 words. They will be judged on the basis of documentation, originality, clarity, logic and persuasiveness in their presentation of how federal deficit spending affects the country's and the writer's future. Entry deadline is Tuesday, April 23, 1985.

IFE President Dale Bottom said The Institute is conducting the essay contest "to help alert our young people to the problems they will face because the federal government is building up the national debt — and to generate some thinking that could help lead to possible solutions." Bottom noted that the federal government has amassed \$1.6 trillion in debt and currently spends \$4.00 for every \$3.00 it collects from taxes and other re-

venues.

"We must tell our elected officials in Washington, D.C., that we don't want to saddle ourselves and future generations with a crushing debt burden," said Bottom in a letter to college presidents.

Essays entered in the IFE contest will be forwarded to Congress.

The contest is being run in conjunction with a nationwide "You Can Save Your Country" campaign backed by the United States League of Savings Institutions.

Essays should be sent to "You Can Save Your Country" national essay contest, Institute of Financial Education, 111 East Wacker Drive, Chicago, IL 60601. The essays must be typed, double-spaced on plain white letter-size (8 1/2 x 11) paper and include the home address and home telephone number of the contestant — plus the name and address of the school. The writer's name must appear on each page of the essay.

Entries must be postmarked no later than April 23, 1985 and received no later than the close of business April 29, 1985.



U.S. Department of Transportation

Ad Council



DRINKING AND DRIVING CAN KILL A FRIENDSHIP.

Movie Review

Breakfast Club serves entertainment

Breakfast Club is a masterpiece of human interaction and emotion that combines comedy, sorrow, drama, boredom, suspense, fear and triumph into a terrific film.

The story is about five high school students brought together for eight hours on a Saturday to serve detention for some misbehavior at school. A more diverse group of students could probably not have been chosen. There are three guys — the first is "Joe Drugs," an obvious troublemaker. The second is "Joe Jock," the school's wrestling star and the third is "Joe Nerd," who is Mr. four-point and also a member of the physics and math clubs. There are also two girls. One is "Susie prom-queen," who is the school's holier-than-thou rich girl. The other is "Susie Weirdness," one of the school's outcasts who hides behind a mop of black hair except for when she is thinking

up terrific, shocking lies.

These five students all meet in the school library at 7 a.m. on a Saturday (hence the name *Breakfast Club*) and the teacher monitoring them lays down the rules. No talking, no sleeping, no getting up from the seat and the only work to be done is a 1,000-word essay on who the students think they are.

While the eight hours in detention sound painfully boring, the students eventually break the rule of silence and share with each other their past experiences, dreams, their relationships with their parents and their opinions of each other. Through this they gain a broader understanding of how the other parts of the human race live.

The *Breakfast Club* is not an action-packed film. In fact, it is often very slow-moving (I think intentionally) so that the viewer gets some feel for an eight hour detention. The movie instead fo-

cuses on human interaction especially in a group of strangers.

But the *Breakfast Club* does have its dramatic and comical moments. Like when the students decide to go sneaking around the school instead of staying in the library. Or when the detention monitor hears a noise and runs into the library to find nothing wrong. Before he leaves he says, "I will not be made a fool of," and then turns to reveal a toilet seat liner partially tucked into his pants.

Overall the *Breakfast Club* was very good. I wouldn't recommend it for the thrill-seeker. But for someone looking for an intellectual, well-done and entertaining movie, the *Breakfast Club* is the one you want to see.

Starring — Anthony Hall, Molly Ringwald, Emilia Estevez, Ally Sheedy and Judd Nelson

Rated — R

— Joel Schneider

ACROSS

- 1 Tap
- 4 Toss
- 8 Greenland settlement
- 12 Beverage
- 13 City in Russia
- 14 Isinglass
- 15 Lair
- 16 Bandages
- 18 Chalet
- 20 River in Asia
- 21 Again: prefix
- 22 By way of
- 23 In addition
- 27 Towel inscription
- 29 Pale
- 30 Narrow openings
- 31 Forenoon
- 32 Follows Fri.
- 33 Brick-carrying device

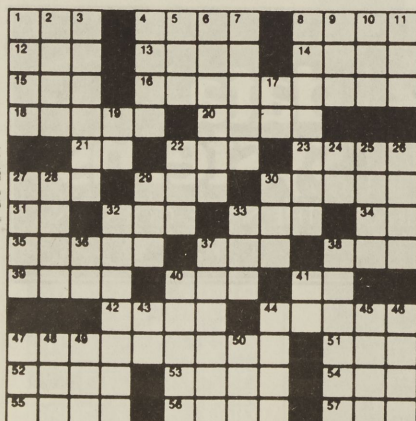
- 34 Island: abbr.
- 35 Pounds down
- 37 Electrified particle
- 38 Baseball stat.
- 39 Pintail duck
- 40 Plasmid
- 41 Teutonic deity
- 42 Containers
- 44 Fruit cakes
- 47 Dash men
- 51 Metric measure
- 52 Solo
- 53 Silkworm
- 54 Born
- 55 Unruffled: sl.
- 56 Headliner
- 57 Spread for drying

DOWN

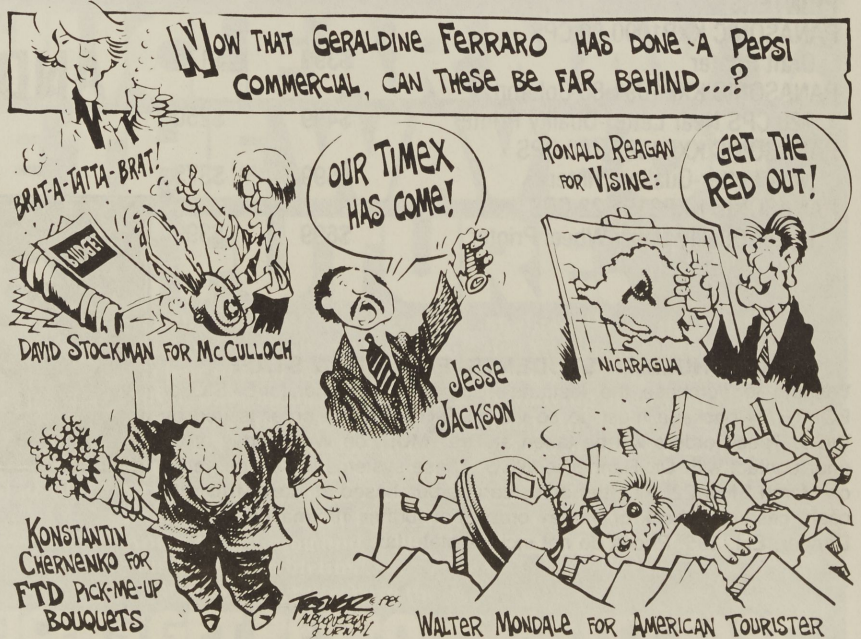
- 1 Cushions
- 2 Fish sauce
- 3 Choir voices
- 4 Contain

- 5 Swiss canton
- 6 Recover
- 7 South American animal
- 8 Precious stone

- 9 Metal
- 10 Perform
- 11 Possesses
- 17 Greek letter
- 19 French article
- 22 Large tub
- 24 Behold!
- 25 Mix
- 26 Mountain on Crete
- 27 Chapeau
- 28 Mohammedan prayer leader
- 29 Existed
- 30 Offspring
- 32 Particular
- 33 Torrid
- 36 Coroner: abbr.
- 37 Introduce
- 38 Wandering
- 40 Poker stakes
- 41 Babylonian deity
- 43 Article
- 44 Former Russian ruler
- 45 Woody plant
- 46 Sow
- 47 Algonquian Indian
- 48 In favor of
- 49 Spanish for "river"
- 50 Inlet



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ROSE-HULMAN STUDENTS, FACULTY & STAFF

Wishing to purchase the Institute's standard micromonitor BASIC or FORTRAN package must do so via an R-H purchase order issued by WCC. These orders will be taken at Tirey MUB, on Wednesday or by prior contact with Dr. Danner in WCC. These systems will be delivered on March 21 or 22. All other items can be purchased at Tirey MUB with cash, cashier's check or money order. For further information, call Dr. Danner, Ext. 295. Prices do not include state tax.

SOFTWARE

WordStar Professional, includes: Wordstar 3.3, MailMerge 3.31, CorrectStar, StarIndex and WordStar Tutor	\$495	\$225
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dBASE III	\$695	\$425

MODEMS

Novation Modem, Hayes-Compatible, includes: MITE Software, 300/1200 Baud, Stand-alone or Internal	\$499	\$275
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Dysan DD/DS, 48TPI	\$49.99	\$22
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THE QUALITY GOES IN BEFORE THE NAME GOES ON

Thorn Sports

Rough break for Rose baseball

For the past month, the Rose-Hulman baseball team has been tuning up inside Shook Fieldhouse. The initial results of that work was tested over Spring Break when the team went on a 12 game trip to Georgia for competition with five different colleges.

The Engineers went 1-11 down south with the lone win coming against Georgia College 4-3. Freshmen Dennis Kelley and Joe Witulski pitched in this game and junior Andy Curosh had two hits for 3 RBI's.

Commenting on the upcoming season, Coach Jim Rendel, in his ninth season at Rose, had this to say, "We will be basically young without much experience outside of our pitching."

The Engineers' strength will be found in their pitching-catching combination, according to Rendel. Five potential starting pitchers for Rose are: Dan White, Sr., Covington; Shawn Kendinger, Sr., Trotwood, Ohio; Andy Butner, Jr., Kennett Square, Pa.; Andy Curosh, Jr., Whiting; and Bruce Cluskey, So., Peoria, Ill.

Bringing experience behind the plate will be starting catcher Bruce Fenimore, So., Rushville. Also looking strong at the catcher's position are Mark Mayfield, So., and John Collett, Fr. both of North Vigo High School in Terre Haute.

Our pitchers are strong in that they all have good experience," Rendel said. "Our catchers don't have the collegiate experience; they are just three good, all-around catchers, both on offense and defense." This was verified in Georgia where Collett threw out two batters in one inning against Georgia College, including one runner who had yet to be thrown out in 16 attempts.

Offensively, the Rose-Hulman hitting game could be lacking this year as the result of losing three top hitters from last year's 12-16 squad. "We're going to have to revamp our batting order," Rendel said. "People who were batting seventh and eighth positions last year will be moving up to the three and four spots."

Two players who could provide some swing sting for Rose-Hulman are starters Mitch Cain, Sr., left field, Liberty, and Dennis Wallen, Jr., right field, Clayton.

Other probable starters early in the season will be: Rob Wilson, Sr., first base, Pontiac, Mich.; Jim Short, Jr., third base, Wapakoneta, Ohio; Alan Snedeker, Jr., shortstop, Mattoon, Ill.; Grant Sharp, So., second base, Cincinnati, Ohio; and Chip Ray, Jr., center field, Logansport.

The Rose-Hulman schedule carries 50 games in regular season. Twenty different colleges are on the schedule. "Basically it is the same tough schedule we have played in recent years, and we added Hope College and Calvin College, two fine (NCAA) Division III schools," Rendel said. Calvin made it to the Division III national playoffs last year.

In the College Athletic Conference, Rendel said it is tough to tell who will be the 1985 power, but Centre College and Rhodes College usually are the teams to beat. The strongest CAC baseball team will be decided in May at the CAC Spring Sports Festival in Sewanee, Tenn.

Rose-Hulman will open its home baseball season at Art Nehf Field on Saturday against Indiana Central. A double-header is scheduled to begin at 1 p.m. that day.

1985 Rose-Hulman Baseball Schedule

Sat., Mar. 16	INDIANA CENTRAL	(2) 1:00 HOME
Sat., Mar. 23	Marian College	(2) 1:00 There
Sun., Mar. 24	Butler University	(2) 1:00 There
Wed., Mar. 27	EARLHAM COLLEGE	(2) 1:00 HOME
Sat., Mar. 30	FRANKLIN COLLEGE	(2) 1:00 HOME
Sun., Mar. 31	MARIAN COLLEGE	(2) 1:00 HOME
Fri., Apr. 5	WABASH COLLEGE	(2) 1:00 HOME
Sat., Apr. 6	Principia College	(2) 1:00 There
Tue., Apr. 9	Indiana University	(2) 1:00 There
Sun., Apr. 14	DePauw University	(2) 1:00 There
Mon., Apr. 15	Taylor University	(2) 1:00 There
Fri., Apr. 19	Hope College	(2) 1:00 There
Sat., Apr. 20	Calvin College	(2) 1:00 There
Tue., Apr. 23	Wabash College	(2) 2:00 There
Sat., Apr. 27	WASHINGTON (ST. LOUIS)	(2) 2:00 HOME
Mon., Apr. 29	Indiana State University	(2) 1:00 There
Sat., May 4	L.U.P.U.I.	(2) 1:00 HOME
Sun., May 5	DePAUW UNIVERSITY	(2) 1:00 HOME
Thu., Fri., Sat., May 9, 10 & 11	CAC Spring Sports Festival	at Sewanee



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Campus NewsNotes

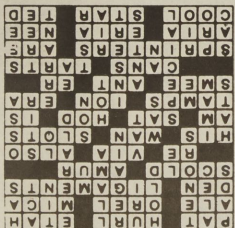
COMPUTER-ASSISTED GRADE TAMPERING MAKES FAKE DIPLOMA SCAMS OBSOLETE

No one knows the extent of electronic grade tampering, but Rep. William Hughes, D-N.J., sponsor of a computer crime measure passed by the last Congress, says schools could lose credibility if the problem is documented.

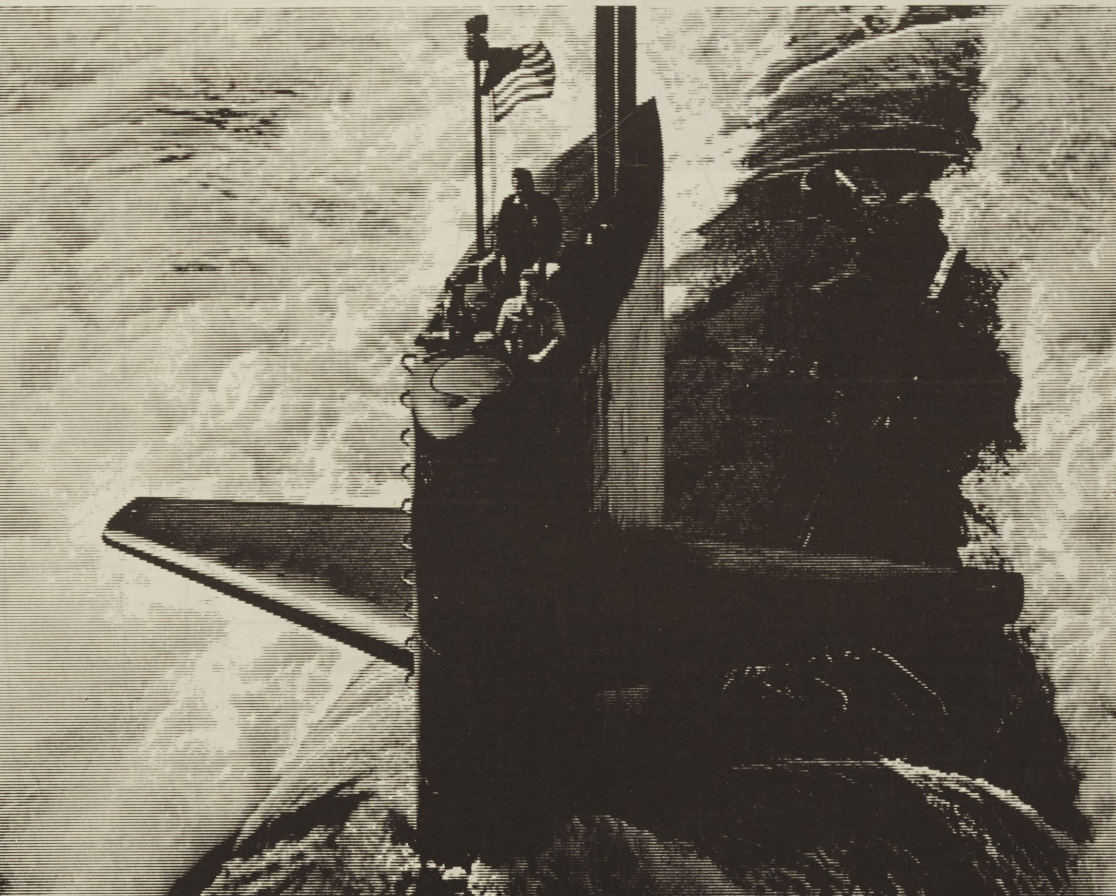
A spokesman for the Los Angeles County district attorney's office warned schools to increase security measures to avoid such recent incidents as faked transcripts planted in the U. of Southern Cal's computer, and the attempted access to Stanford's computer by a high school sophomore.

CLASSIFIED:

Lost: Black one-fold wallet in area of Moench and Crapo. Friday before winter finals. Contact Scott Ross at 533-1264.



Puzzle Answer



THE NUCLEAR NAVY. RIDE THE WAVE OF THE FUTURE.

You're deep under the sea. There are 4600 tons of nuclear-powered submarine around you. Your mission - to preserve the peace.

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Upon matriculation, the stu-

sponds to the hours of sleep re-

When one lands on a space where a screw head appears, he gets the shaft which he must then follow down to the tip of the

The game ends for each player when he either reaches the space

Good luck on this, yet another thrilling game in the Page 9 Production Game Series.

