

Newspeak

student newspaper of Worcester Polytechnic Institute

Volume 5, Number 11

Tuesday, April 26, 1977

Student input needed

Committee positions open

In an effort to promote more student involvement in the decision making process the faculty has opened some of its most important committees to student members. Student will have the responsibility to initiate, consider and make recommendations on questions of institutional policy and problems arising in these committees.

As a student representative to a committee of the faculty you would automatically become a member of the Academic Committee of Student Government. It is essential that any student interested in serving on a faculty committee understands the duties and responsibilities that would be assumed as a member of the Academic Committee.

Descriptions of the committees with student members follow. Students interested in serving on a committee should

New energy source

Tower of power

by Ken Mandile
The yellow tower surrounded by scaffolding on top of Daniels Hall has been making people wonder lately. Theories range from "it's a weather station" to "it's a yellow tower." But by this Friday these theories will be laid to rest when it becomes obvious that it is a windmill. Bryce Granger, a Mechanical Engineering major, designed and built the windmill as part of his Major Qualifying Project. He has been working on the windmill since last Christmas. By the end of the week, if everything goes as planned, the windmill will light fifty automobile headlights shining down on the Quad. This windmill is only for preliminary testing leading to an eventual solar and power research site in Paxton,

submit to John Zimmerman (Box 1794) no later than May 7 a letter indicating the committee the student is interested in and explaining qualifications. A short recommendation from a faculty member should also be included.

The executive council will interview candidates for positions on Sunday, May 8 in the office of Student Affairs at 6 p.m. After which each position will be voted on.

Description

I. The Committee on Academic Policy consists of six members of the faculty-at-large, two students, and ex-officio the Dean of Faculty and the Director of Admissions. The committee continuously reviews existing academic and admission policies, standards, and goals. The committee recommends changes in policy as appropriate.

II. The Curriculum Committee includes one faculty member from each academic

discipline, three students, and the Dean for Undergraduate Studies ex-officio. Responsible primarily for the development of undergraduate programs of study, this committee continuously reviews existing curricula and makes recommendations on new curricular structures, particularly with respect to the development of interdisciplinary courses and programs.

III. The Committee on Student Life consists of four faculty members-at-large, four student members, and the Dean of Student Affairs. This committee evaluates current practices in the areas of student environment, discipline, extracurricular activities, financial aid, scholarship, athletics, and employment placement. The committee also makes recommendations with regard to the nature, extent, and operation of student non-academic counselling services.

IV. The Committee on Academic Advising consists of six elected faculty

members, two student members, and ex-officio the Dean of Undergraduate Studies and the Dean of Academic Advising. This committee is charged with defining the extent of the role of the academic advisor, and with arranging for administrative support to assist the advisor in fulfilling that role.

V. The Financial Aid Committee is comprised of students, faculty, and administrative persons who recommend to the Financial Aid Office and the Office of Student Affairs policies in relation to student financial aid.

These policies include philosophy of student financial assistance, administrative decisions, and procedure of distribution.

Two students will be appointed by the Executive Committee of the Student Government for the academic year of 1977-78.

Eatin' for Epilepsy

Comedian George Gobel has said that by the time he became well known, other celebrities had already taken all of the "epilepsy" diseases. Thus, for many years, old George wasn't affiliated with any of the major health causes like heart disease, cancer, diabetes, etc.

According to Henry Winkler, star of the popular "Happy Days" TV series, George just didn't look carefully enough. George has already found the good cause that turns him on. He's now the first National Honorary Youth Chairman for the Epilepsy Foundation of America, the organization that will benefit from the 1st Annual ATO Eatin' for Epilepsy to be held on the WPI campus Saturday, May 14th.

Actually, George Gobel and Henry Winkler, like most major celebrities, are plagued with requests from charitable agencies to lend their names for the benefit of humanity. But today, more than ever celebrities are reluctant to be identified with a cause; unless it is something they feel is really important and offers them an opportunity for genuine personal involvement and satisfaction. Why did Henry respond to the appeal of the Epilepsy Foundation? "Well,"

Massachusetts. It will put out two kilowatts at maximum output. The generator being used is from a Worcester Bus Company diesel bus. The yellow base tower stands twenty feet off of the roof of Daniels. The blades, which will be made of styrofoam coated with fiberglass, will be 18 feet in diameter.

Bryce designed and built the windmill with the help of project advisors Professors Price and Borden and the Washburn and Higgins machine shop crew.

About windpower, Bryce said "it is important that it be researched and developed so rapidly." With all the talk in the past two weeks about President Carter's Energy Proposals, the completion of the windmill comes at an appropriate time.

says Winkler, "it's the only major health problem that has yet to be fully recognized by the public at large. There are a lot of weird ideas that people have about epilepsy, and it's a personal challenge for me to see what I can contribute toward public understanding of this complicated disorder."

But there's more to it than that. Winkler feels he has a special responsibility. In a recent *Newsweek* magazine article, he has said, "When you have as large an effect as I find myself having, you have new responsibilities... Now, when I think back on my cozy college dream, my fantasy of fame, I'm reminded of the truth of the poet's line 'in dreams begin responsibilities.' I hope I can recognize mine, and meet them. That, to me, is maturity."

The reason ATO has gotten behind the epilepsy cause is that it is a problem for which there are many solutions that can be put into effect right now. One is greater public education on what to do during a seizure.

Well-meaning spectators can cause physical harm to the teeth and gums of a seizure victim by forcing hard objects into the mouth. This results in dental expenses



The windmill rises

Photo by Tom Daniels

for someone who is more likely among those least able to pay. Or, it is uncommon for someone to call an ambulance during a seizure, which, except for extremely rare occasions, is unnecessary. While this does no physical harm to the person, it may result in an ambulance fee of \$50 and sometimes more.

The best advice for someone who doesn't know what to do during a seizure is probably to do nothing. However, first aid guidelines for grand mal seizures — there are many seizure types — are available by contacting the Epilepsy Society of Worcester County Inc., located at 25 Winthrop St., Tel. 798-6243.

There are without doubt some people on campus with epilepsy. Their condition is more than likely controlled through medications, which are taken daily. According to the Epilepsy Foundation of America, some 50 to 60 per cent of people with epilepsy are able to achieve full control. Another 20 to 30 per cent can achieve partial control, while the remainder are virtually unaffected by medication.

Thus, there is a need for a wide range of programs and services — from helping some people with epilepsy in their battle against discrimination in the job market, to appropriate residential care for the more serious and intractable cases.

Part of the funds raised at the 1st Annual ATO Eatin' for Epilepsy will be used in the local community for direct service to persons with epilepsy, while the remainder will go to the Epilepsy Foundation of America for the broader national attack on the problem.

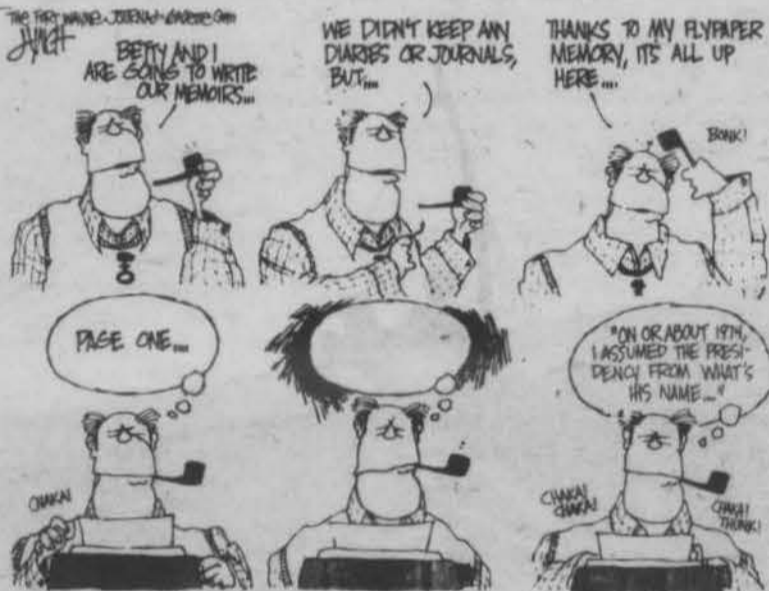
So, for some fun with a purpose, be sure to participate, either by sponsoring someone or getting people to sponsor you (money will be pledged per pancake eaten.) There will be prizes and awards given away for most pancakes eaten, most money pledged, etc. Again, the 1st Annual ATO Eatin' for Epilepsy will be held in Alden Hall on Saturday May 14th, (for more information call 756-5656.) It's a good chance for all of us to show our responsibility to others for whom college attendance may be a physical or economic impossibility.

Editorials: Dangerous revisions

This week, we have been presented with some very dangerous revisions to the student body constitution concerning the Social Committee. The power of the student body to decide the fate of its money intended for social purposes is being challenged by the Executive Council of the Student Government. The first major change mentioned in the amendment is that the position of Social Committee chairman become an appointed one rather than an elected one. While there has been sparse turnout in campus elections, placing the decision into the hands of the Executive Council is like taking the smoke-filled room and legalizing it. In addition, the Executive Council would have to approve any major expenditures of the social committee. Not only is this placing control in the wrong hands, but will probably mean delays that would better be done without. While it is true that there have been some questionable large expenditures in the past, it is a mistake to grant veto power to anyone but the student body.

There are some good points in the amendments, particularly those involving a prerequisite experience on the social committee for the chairman, but these hardly outweigh the bad points that would be voted in as part of the package. Before we vote in favor of these amendments, extensive revision is necessary to remove those parts that would take the vote away from the student body at large, and place the power of approval in the hands of a dozen people. It is the right of every student to have a vote in how his or her money is spent, and thus their right to approve the person who will decide how to spend it. Regardless of voter turnout, it is dangerous to remove the voice of the student body from these decisions. We firmly oppose the passage of these amendments.

Rory J. O'Connor
SBF
TAD



Letters: Social committee amendments

To the Editors:

Be careful how you vote in the campus elections May 12. The first proposed amendment to the student government constitution takes voting power away from the student body and places it in the hands of an elite 15-member executive council. It gives student government the power to appoint the social committee chairmen — one of the most important positions on campus.

The social committee is responsible for all campus wide social and cultural functions and controls \$30.00 from each undergraduate's tuition bill. It's only fair to the students and to Student Affairs that the Chairmen have had some experience as active members of the Social Committee, Pub Entertainment Committee or Coffee House Committee. It should be Student Government's function to screen candidates for these basic qualifications, but the final decision as to who gets elected should be up to the student body.

Some members of Student Government are afraid that Social Chairmen elections are turning into popularity contests. R.A.'s and fraternity officers fare well simply because their names are well known, not

because they are the most capable qualified people. If some prerequisites written into the constitution then we can be assured that all candidates were minimally competent to take over the and the biggest question at election would be one of taste.

This is where the proposed amendment is unfair to the student body. The people who control your campus should not necessarily control your activities. Student Government has been accused of being a cliquy organization. Whether this is true or not, it is probable that the executive council do not have the same taste in music or in affairs as you do. It's awfully hard to spend your tuition dollars on a season of Harry Chapin or Beach Boys when you're into Jeff Beck or progressive jazz.

The Social Committee Chairmen have vast influence on what concerts are scheduled during the year. It should be your right to vote for the style of music you like. Vote "no" on the referendum question and stand up for your rights.

Marianne P.

IFC Corner: SAE

There are sixteen new Brothers of SAE after six long months of pledging. They are Ted Kiehar, Bob Grant, John Apostolou, Steve Korb, Phill Spillman, Scott Wade, Ron Dutton, Herb Dunnington, Brian Huntley, Jeff Carter, Curt Dudley, Dan Huky, Mike Yebak, Fred Wanat, Ed Kurdziel, and Ed Johnson. Also recently initiated but as Little Sisters were Farrah Fawcett-Majors, Kate Jackson, and Jaclyn Smith.

Zeta Psi

Zeta Psi is proud to announce the pledging of Mike Sharon, Mark Klizas, and Andy Pelletier to the brotherhood and the pledging of Linda Landry, Donna Philbrook, Lisa Krauss, and Mary Ellen McLaughlin to the sisterhood. A joint brother and sister pledging ceremony was held on Sunday, April 17.

Our Brothers at USC were the lucky ones. We're hoping to get a chance to see them at the National Convention in Philadelphia this summer.

This past weekend was Spring Weekend at WPI and JP Co-Chairmen Frank and Toby Gouker did a really good job. Next weekend is the SAE Car Rallye to United Way. For info, call 757-9689 for Steve.

On Saturday, April 23, brothers Loeb and Dave Weiss and pledge Klizas attended a leadership workshop at Boston University.

We would also like to let everyone know that we will be sponsoring a Kilt Contest in the near future and to be look out for more information on this.

Upsilon Pi Epsilon

The Massachusetts Alpha Chapter of Upsilon Pi Epsilon, the national Computer Science honor society, is proud to announce the following candidates for induction into its ranks:

John Wallace	CS	'78
Stephen Wolff	CS	'78
Eric Northrop	CS	'78
Ed Menard	CS	'78
Ralph Chapman	CS	'78
Richard Clayton	CS	'78
Mike Kenniston	MA	'78
John McGee	EE	'78

Upsilon Pi Epsilon is an honorary society whose membership consist of outstanding undergraduate and graduate students. Members are chosen not only for their scholastic achievement in a Computer Science degree program, but also for distinguishing themselves as true professionals by meeting the standards of the Society. Membership is limited to those who can effectively achieve the original goals of the society as it was first organized in 1967. These goals include: The recognition of outstanding talent in the field of Computer Science; The promotion of high scholarship and the establishment

and maintenance of high standards in Computer Science; and the encouragement of individual contributions to mankind through Computer Science.

UPE is the first, and only, existing society in Computer Science. The Massachusetts Alpha Chapter, located at WPI, is the only chapter of UPE in Massachusetts. The Association for Computer Machinery has endorsed the UPE and has agreed to encourage its spread to other universities through student chapters of ACM.

As part of the induction process a candidate is asked to present a short talk on a Computer Science topic of his choice. These talks are always varied and interesting, and will be open to the public. Presentments will be served before the talks and all interested persons are urged to attend. The talks will be on Wednesday, April 17 at 4 p.m. in the Higgins Conference Room (HL 101).

Once again we wish to congratulate these new candidates and hope they will maintain the high standards which lead them to their current position of honor.

David B. ... President

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Newspeak

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The DNA dilemma: part three

Shrewsbury's citizens speak

by Tom Daniels

I had the opportunity last week to pick up one of the many free issues of *Worcester Magazine* that are left, each month, in the Wedge. As I was walking back to the *Newspeak* office, I happened to turn to a small story, on the Worcester Scenes pages, entitled — "Shrewsbury DNA controversy: the show has only just begun." I immediately sat down on the Quad and began to read, for this story was on the same topic that I had intended to write about that night. After finishing the story, I did something which I had never done before: I sat down and wrote a letter of protest to the editors of the magazine.

What I objected to, basically, was the same thing that I faulted *Time* for in my last story on recombinant DNA, a lack of objectivity. The *Worcester Magazine* story, which was written as if it were a theater review, made the Shrewsbury town meeting sound as if it had been a mockery, with the citizens not believing a single word that the scientists from the Worcester Foundation for Experimental Biology told them. It accused Dr. Mahlon Hoagland of "lecturing" for two and one half hours, and ended by saying, "The voters had opted for a smash Cambridge closing." Hopefully, our account of the meeting will reflect the facts in a slightly more objective manner.

We decided to attend the open meeting, which was held on the night of March 23, the last day of C term, because we wanted to find out how the public in Shrewsbury was going to react to this touchy issue. The meeting opened at 7:30, with between 250 and 300 people, including many representatives of the local press, in attendance. Dr. Hoagland, the founder and President of the Foundation, was the principle speaker of the evening. He began by explaining just what was meant by recombinant DNA. "A biologist wants to obtain certain genes in large quantities," he said, "since this allows him to conduct his experiments in a more realistic environment." To obtain these particular genes, he experimentally takes apart certain strands of DNA, and recombines the pieces in the desired arrangement. A host bacteria, most often *E. coli*, is then used to "grow" these new genes.

Moving on to the question of safety, Dr. Hoagland said that there were three types of recombinant DNA experiments that would not, under any circumstances, be carried out at the Foundation, because of the hazards involved. The first type involved placing the new genes in a virus dangerous to humans, such as a cancer virus. This type of research has been banned by the scientists themselves, without waiting for governmental regulation. Using genes responsible for toxins, such as diphtheria, has also been banned. A third category of restricted research involves tampering with genes that control drug resistance. Obviously, it would be extremely dangerous to create a gene which made a drug such as penicillin useless.

It was noted that the experiments which brought on the controversy in Cambridge involved using genes from human or animal-like cells, something which would produce an unwanted organism. The Worcester Foundation proposes to use only those genes which are unrelated in any way with human-like structures. These experiments would be classified as P2, as opposed to P3 and P4 research described above. P2 experiments have been going on for years throughout the country, without serious problems. Since 1971, the National Institute of Health, an "independent" government agency, has been

enforcing a set of guidelines to control recombinant DNA research. These guidelines, however, apply only to those receiving NIH fundings.

"Many of the actions taken by society," he added, involve taking some sort of risk. Nuclear power, for example, has a certain risk associated with it, but we take the risk because of the potential benefits." He also said that almost every industry in the country pollutes the environment each and every hour of the day, but we allow them to go on because it has become socially acceptable. One of the biggest risks taken is the producing and marketing of common drugs. "When we developed the contraceptive pill," Dr. Hoagland said, "we knew almost nothing about the possible side effects it might produce, yet millions of women used it. Polio vaccine was found to contain a cancer virus, but there has never been one reported case of cancer that could be traced to it."

Many people had voiced the opinion that the *E. coli* bacteria used in the DNA experiments could possibly be turned into a man killing organism. "This, to my knowledge, would be just about impossible," Dr. Hoagland said. "When a bacteria such as *E. coli* is changed through this type of experimentation, the end result is, almost universally, a weaker organism than the one you started with. As an added precaution, however, a "crippled" *E. coli* is used. This bacteria must have so many different nutrients to live, that it can't survive outside of the laboratory."

"You may ask why some scientists are against recombinant DNA research," he continued. "Although this group is small, but vocal, they do represent a valid side of the matter. They see that it's important for us to take precautions, so we won't be blamed for another Legionnaire's Disease later."

Dr. Hoagland said that there were many misconceptions among laymen about recombinant DNA experiments that had been spread through the press. "The so-called claims of 'genetic engineering' made by the press are largely garbage," he said.

"Many of the actions taken by society involve taking some sort of risk. Nuclear power, for example, has a certain risk associated with it, but we take the risk because of the potential benefits."

"Cambridge looked bad at first, but it came out good, because scientists and laymen communicated. They were able to evaluate the situation without letting hysterics get in the way."

At this point, Thomas Foley, Vice-Chairman of the Shrewsbury Board of Selectmen, opened the meeting to anyone wishing to make a statement concerning the DNA issue. Dr. David Marsh, a research associate at the Foundation said that some restrictions should be placed on the work before it begins: All P4 level experiments should be banned immediately; any major changes in the type of experiments being done at the Foundation should require that a letter of explanation be sent to the selectman beforehand; the Shrewsbury Health Department should have the right to inspect the labs; and finally, the Massachusetts Department of Public Health should be required to inspect the laboratories once a year.

Robert Cates, a scientist who specializes in hazard assessment, said that people



Photo by Rory O'Connor
Foley [L] and Hoagland [R] address meeting.

should be informed of the possible risks. "This controversy hasn't arisen because of what's been said by the press, but, rather, because of a past record of people doing things against their better judgement." He endorsed Dr. Marsh's extra precaution, and added one of his own, an independent resident's committee such as the one formed in Cambridge. After assessing the situation, however, he said that, in his opinion as an expert at hazards assessment, he felt that the P2 level experiments should be allowed to proceed.

A resident asked if it was wise for the Foundation to begin their research now, before new federal regulation controlling recombinant DNA experiments had been enacted. Dr. Fredrico Walsh, also from the WFEB, said that, since they were being

views." Vice-Chairman Foley said that the meeting had been well advertised in all the local media outlets, and that opposition groups had been invited. He asked if there were groups present that wished to speak against the proposed research. When there was no response, he asked the woman she thought there was some reason why had prevented opposition groups from attending the meeting. She replied that the groups probably hadn't thought that the meeting was important enough to warrant the trip up from Boston.

Another resident asked Dr. Hoagland if it were possible for a mutation to be spread outside of the laboratory. He restated his belief that it was virtually impossible for a dangerous mutant to result from the proposed experiments. If such a mutant were formed, however, he said that the chances for it escaping the laboratory were very, very small. "It would be about as possible for the 'crippled' *E. coli* to live in the researcher's stomach or intestines, as alone raw sewage," he said.

Most of the people at the meeting wanted to know the exact meanings of "P2," "P3" and "P4" containment levels. Dr. Crane, the person who will be conducting the research, explained that the WFEB started working with viruses some time ago, under P1 conditions, which, along with P2 through P4 procedures, were discussed in the first article of this series. The recombinant DNA work now being proposed comes under P2 guidelines, and could be done in facilities already constructed for the virus work. Among other things, a P2 lab is kept under negative pressure, so that air may flow in, but not out, until it has been passed through special biological filters. The Foundation proposes, however, to upgrade the facilities to P3 levels, to add an extra margin of safety. For security reasons, there will be double doors which will be kept locked all times. Only authorized researchers and their assistants will be able to gain entrance to the lab area.

Other questions asked were: —Will the new federal guidelines be stricter than the NIH rules? "Congress will decide for stricter rules," said Dr. Hoagland, "but, in my opinion, even the NIH guidelines are in excess of what we need."

—Is the Defense Department providing any funding for recombinant DNA experiments? "No!" was Dr. Hoagland's emphatic reply. "WFEB never, as a principle, accepts any type of classified work."

—Are there any local or state funds involved? "Nobody will exercise control over our goals by funding," Dr. Hoagland said, trying to reassure

funded by the National Institute of Health, the Foundation's experiments will have to comply with NIH guidelines. "This meeting tonight, is proof that we're complying with the NIH guidelines," he said. Among these rules are statutes requiring that the researchers establish a "bio-hazards" committee, and submit a "Memorandum of Agreement and Understanding," describing, in detail, each experiment that is to be carried out. The Worcester Foundation for Experimental Biology received full NIH approval as of January 6, 1977, to begin experimentation. "We felt, however, that the taxpayers of Shrewsbury had a right to know what we planned," said Dr. Walsh, "so we requested this meeting, to give us a chance to educate the town."

A Worcester resident said that a citizen's panel was an absolute necessity, so that there could be a fuller understanding between researchers and the public. To this, Dr. Hoagland said that Americans are not, on the whole, known for their patience. He felt that there should be communication between the two groups,

but that the researchers should maintain a flexibility to conduct the experimentation as they saw fit.

A member of the Regional Environmental Council stated that she was disappointed at the lack of a balance at the meeting. "There should be another meeting," she said, "so that opposition groups may defend their

WPI Faculty Women's Club is sponsoring PEDLARS' PACK or flea market for THE JANET EARLE STUDENT LOAN FUND on Saturday, April 30, at Alden Hall, 10 to 4.

Donations appreciated. Please sort items. Send donations to Alden Hall on Friday, April 29, from 9 to 4 or Saturday before 10. No clothing, except children's clothing.

COME TO BUY. Snack bar. Baked goods. Plants, toys, jewelry, books, dishes, jams and jellies, crafts, collectibles, and a little bit of everything.

Call Linda Pavlik 853-3313 or Betty Scott 853-1488 for pick-up, if necessary.

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ALFRED HITCHCOCK'S

"THE BIRDS"

Wednesday, April 27, Kinnicutt Hall

Two shows: 7 and 9 p.m. — FREE AND

"SEX MADNESS"

the adventures of innocent young Millicent. TWO Betty Boop Cartoons plus... "High on the Range"

Sunday, May 1, Alden Hall

7 and 9 p.m.

\$1.00

questionnaire. Only private donations and federal grants that have no strings attached are accepted. "The NIH is one of the government's greatest achievements," he added, "in that it isn't under direct control of the bureaucracy. It can award grants to supporting institutions without fear of interfering politics."

How many scientists are involved? Dr. Crane and his team of assistants.

Dr. Crane said that this laboratory will meet P3 requirements. Will it be used for P3 work? No P3 work is being planned at the Foundation, according to Dr. Walsh.

Betty Hoskins of WPI, addressed the meeting on the possible ways of looking at proposed research. "Much depends on the benefits vs. the risks. Often, we look at the short term, instead of the long term. Even if our basic knowledge advances, can we control the potential risks? We hope that they will outweigh the risks. We could cause the risk of damage. Damage could be done to the environment, such as displacing or destroying some species. Also, by creating something artificial, we are breaking an barrier. If this work proceeds, will it respect our respect for human beings?"

Will the WFEB work foster the start of desirable work elsewhere? It could become a matter of professional pride to try and do each other in our research.

The community should be involved, especially those research workers not working at the top scientific levels."

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notified in advance, if the proposed work changed in the least bit. When asked if he would be willing to put that statement in writing, he replied with an emphatic "Absolutely!"

The two final questions dealt with liability and timetables. Dr. Walsh said that the Worcester Foundation for Experimental Biology was insured under a policy which would cover up to one million dollars in liability, in the event of a biological disaster. When asked how soon experiments could start, Dr. Hoagland said, "We're ready to start work at any time." Selectman Foley clarified the situation by telling the meeting that the Board of Selectmen did not, in fact, have to give the WFEB permission to

shouts of, "That's no way to ask the question!" and "What does he mean by safe?" were heard throughout the room. Vice-Chairman Foley, quite wisely, decided to adjourn the meeting, after almost three hours of questions and answers.

After most of the crowd filtered out, we interviewed several of the key speakers. Selectman Foley said he was pleasantly surprised at the size of the turnout, saying "There are usually two or three people at a selectmen's meeting, and then only when we're talking about garbage pickup." He added that his goal was to see an effective bio-hazards committee formed. Several townspeople had responded to his call, just

the research beginning "right now", as he had told the meeting.

By far, the majority of the citizens we interviewed who were against the experiments, opposed them on moral grounds. These people told us that even if much of what Dr. Hoagland had told them about the safety of the experiments was true, they could not approve of any work in which the basic structure of a gene would be artificially altered.

A staff research assistant at the Foundation, who asked not to be identified, said that there was "definitely a fear that some of the researchers at the Foundation may not be qualified to do the work. There is no guarantee that the person working with the cancer virus (and the best autoclave in the world wouldn't clean his lab) won't do something wrong, and mix the virus with the E. coli. What Dr. Crane is doing is perfectly fine work, but we're afraid that the administration won't fully disclose everything that's going on. They've found ways of going around the bio-hazards committee before."

This person added that other people from the foundation object to the safety of the experiments, but "they feared for their jobs here tonight." This person was quick to add that "the objections are to the environment, not to the actual DNA research." On the question of the possible starting date for the work, the research assistant told us, "I haven't seen the room they say is ready, and I have to conduct some of my tests in that building."

Obviously, not all of the possible questions on this subject have been asked and answered but this meeting did provide us with what seemed to be a fair cross section of public opinion. Next week, we'll be taking a look at another set of opinions: namely, those belonging to the WPI community.

"This controversy hasn't arisen because of what's been said by the press, but, rather, because of a past record of people doing things against their better judgement."

go ahead with the research, since they had authority to stop it only if the experiments were found to be an immediate threat to the welfare of the citizens of Shrewsbury. "No decision will be made, since none is called for," he said.

At this point, the meeting, which had been proceeding in an extremely orderly manner, broke down. Several residents made emotional statements, evidently angered by the news that the selectmen weren't going to exercise any veto power over the research. One of the other selectmen, whose name, unfortunately, was lost in the noise, asked for a show of hands, saying, "How many of you were totally convinced tonight that this type of experiment is perfectly safe?" The crowd was somewhat bewildered by this, and

before he closed the meeting, to serve on such a panel.

Doctors Hoagland and Walsh discussed the nature of the experiments that Dr. Crane would be conducting, adding that, due to the diversity among researchers at the Foundation, they often had trouble discussing such work among themselves. They said that, basically, Dr. Crane will be trying to join certain fragments of DNA, and not conducting the less-acceptable "shotgun" experiments, where a researcher just tries to get as many new combinations as he can. Dr. Hoagland did contradict something he had said earlier in the evening, when he told us that the Foundation could begin construction of the P3 equipment in about four weeks. This would seem to discount any possibilities of

Student letter writers needed

Currently, there is a bill coming up in the Massachusetts State Legislature that provides matching state aid to private colleges (e.g. WPI) for financial aid those colleges give to Massachusetts students. In order for the bill to pass the Massachusetts Legislature, it must first receive the green light from the Ways and Means Committee. The list of the members of this committee appears along with their districts and their home addresses. *The best way for the bill to pass is if these representatives receive a large number of favorable letters.* For this reason, I am urging students, faculty, and administration to write letters to this committee indicating support for this bill. It is better if the letters are from Massachusetts residents to their own representatives but it is still better than nothing for them to receive any letter. The bill should just indicate support for House Bill H4414 and ask him (her) for the amount of that bill. Please help - it is to your benefit.

- Waltham, 14th Middlesex: Waltham.
- McCarthy, Peter C. (D), 16 Lenox Rd., Peabody, 5th Essex: Peabody.
- McKenna, Arthur J. (D), 652 Chestnut St., Springfield, 12th Hampden: Springfield.
- Peck, Raymond S. (D), 25 Summit Ave., Dartmouth, 5th Bristol: Dartmouth, Freetown.
- Ruane, J. Michael (D), 19 Nursery St., Salem, 9th Essex: Salem, Swampscott.
- Scibelli, Anthony M. (D), 200 Maple St., Springfield, 15th Hampden: Springfield.
- Shea, Philip L. (D), 130 West View Rd., Lowell, 45th Middlesex: Lowell, Chelmsford.
- Jordan, Raymond A. (D), 51 Goldenrod Rd., Springfield, 13th Hampden: Springfield.

No one in his right mind wants to eliminate the tax-supported colleges and universities. They provide college education to thousands who could not get it otherwise. Of the 165,000 students enrolled in the tax-supported system, more than 130,000 come from Massachusetts homes.

But a strong case can be made that the tax-supported college system has been overbuilt. More than \$600 million has been spent in the past 10 years in constructing school plants at the three state universities, 10 state colleges and 15 community colleges.

And a case can be made that the commonwealth should channel some of its tax money to the independent colleges and universities to keep them from being pushed over the edge, thereby saddling the state with future increased costs of higher education.

A bill to do that has been filed in the legislature by the Association of Independent Colleges and Universities in Massachusetts (AI-CUM). *The concept is simple. It would provide matching state grants to private colleges for financial aid those colleges give to Massachusetts students.*

That is, if Clark University, say, provides \$600,000 a year in scholarships to Massachusetts students, the state would give Clark another \$600,000. Half of it would be given directly to the student, the other half would go into the general college budget.

It is easy to think of objections to this plan. We have never been enthusiastic

The following editorial is reprinted by permission of the Worcester Telegram and Gazette.

Last year, Garland Junior College in Boston folded its doors for good. Graham Junior College seems about to follow suit. Leicester Junior College has avoided bankruptcy and collapse only by merging with Becker Junior College at the last minute.

These are prime examples of the deadly squeeze put upon the independent colleges and universities of Massachusetts by the tax-supported universities, state colleges and community colleges.

And once again the question is raised about how far the state should be allowed to go in pushing private higher education to the wall. Graham, Garland and Leicester are early warning signals.

Massachusetts is unique among the states in respect to higher education. It has more than 60 private universities, colleges and junior colleges, some of them world renowned. One-tenth of the more than one million high school seniors in the country who tried to get into private colleges last year applied to private colleges in this state. The independent colleges and universities currently enroll 218,000 students, 95,000 from Massachusetts.

Private higher education in this state is a \$1.5 billion industry. That is roughly the amount taken in and spent every year at virtually no cost to the taxpayer. The private colleges and universities employ thousands of people of all sorts, and provide hundreds of millions of dollars in ancillary benefits to their communities.

Yet, for all their prestige, tradition and excellence, the private colleges, with tuition costs ranging up to more than \$3,500 per student, cannot compete with the University of Massachusetts, where tuition is less than \$500, or with the state and community colleges, where costs are even lower.

about channeling public funds to private institutions of any sort.

But, given the unequal race that the independent colleges are in, there is much to be said for a program to help redress the balance, provided the government funds do not impose harmful restrictions.

The program, which would be phased in gradually beginning with the freshman class next year, would cost about \$4 million initially, and about \$18 million when fully applied.

By way of comparison, direct state expenditures for administering its system of tax-supported higher education is about \$240 million a year. That sum does not include capital expenditures nor pension obligations.

There is no easy answer to the dilemma. There is no answer that will satisfy everyone. Dollars diverted to the independent colleges will not be available for the state supported colleges.

But those dollars may well reap enormous cost benefits for state taxpayers if they help stabilize the precarious financial situation facing so many private colleges.


Somehow, the state must get its priorities for higher education in order. It would be the utmost folly to blindly pursue a policy that would gravely weaken the finest independent system of higher education in the country, if not the world, just as it would be folly to sacrifice the state colleges to save the independents.

We need both. Sensible planning is in order. Our children deserve the right to a choice.

House Bill 4414, among other things, should help preserve that choice.

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Chariot races on Quad

Photo by Mark He...

Long wait, second rate

Melanie, Orleans — slow show

by Rory O'Connor

It was a long wait for most of the crowd who came to see Melanie and Orleans last Saturday, and it was partially worth the wait — and partially not.

Roger Saloom, a local folk singer best known for his almost-hit "Gotta Get Out of Worcester", was the opening act. Despite his being ushered in and out quickly, he provided twenty minutes of music to calm the audience and prepare them for Melanie.

Melanie arrived on the scene about ten minutes before she got onstage, which threw most of the JP committee into a fit, but she showed good control of the audience despite the forty-five minute break between Saloom's set and hers. She opened her set with "Beautiful People", which merited a good round of applause from the crowd. The highlight of her set was a ten-minute number entitled "Glory, Glory, Psychotherapy", sung appropriately enough to the tune of the Battle Hymn of the Republic. The mock tribute to Freud and analysts had most of the audience on its feet clapping and dancing. Melanie's screaming vocals thrilled the crowd, who demanded and got an encore.

It was after eleven by the time Orleans made their appearance, and the yawns seemed to overpower the applause. Most of the material they performed was from albums already released, but a new number was interjected into the set from their album presently in production. It did not differ appreciably in style from the rest of their music, which seemed rather boring except for some excellent guitar work. A good number of people left before the end of the set, probably owing to the lateness of the show. Despite the lateness of her arrival, Melanie stole the show before Orleans had a chance, and she pushed it so far that their chance was worthless.

It seemed apparent all along, that the things most lacking from the evening was the Pousett-Dart Band, whose management cancelled the signed contract in order to help sagging ticket sales for the America concert at Boston's Music Hall. Orleans, while a name act, doesn't have the audience appeal in this area the Pousett-Dart does. A second-rate show, at best, but it wasn't the fault of the JP committee, who should be congratulated for a valiant effort that failed.



Orleans

Photo by Ann-Marie Robinson



Melanie

Photo by Ann-Marie Robinson

Social Committee amendments — May 12

The following amendment replaces Article VII, Section 1, 2, and 3 of the Student Government Constitution originally passed on 9-24-74.

Article VIII — The Social Committee
Section I
Membership

A. This committee shall consist of a Chairman—Co-Chairman, the Junior Prom Committee Chairman—Co-Chairman and the Chairmen of the following committees: Fine Arts Committee, Film Committee, Pub Entertainment Committee, and Coffee House Committee.

Section II:
Qualifications

A. The Chairman—Co-Chairman shall be a full-time sophomore or junior at the time

of his—her appointment and in academic residence three out of four terms of his—her term of office (excluding term E).

Section III:

Method of Nomination and Election

A. Two weeks after the beginning of Term B, any qualified sophomore or junior who wishes to be considered as a candidate for the office of Social Chairman—Co-Chairman shall submit to the Executive Council of the Student Government a petition signed by at least 50 full-time WPI undergraduate students.

B. All candidates must have served actively at least one full year on the Social Committee, Pub Entertainment Committee, or Coffee House Committee.

C. One week following the receipt of petitions all candidates must present to the Executive Council a description of his—her participation in Social Committee activities. Specific responsibilities and duties should be described and at least two Social Committee members must speak on his—her behalf.

D. Each candidate may also bring two students from the student body to speak on his—her behalf at this Executive Committee meeting.

E. The following week a meeting of the Student Government Executive Committee will be held after discussion of the candidates the Social Chairman—Co-Chairman will be elected by a two-thirds vote of the entire Executive Council.

F. If none of the candidates receive two-thirds vote from the Executive Council the two candidates with the highest number of votes shall be selected to run the next ballot. A two-thirds vote of the Executive Council shall determine the Social Chairman—Co-Chairman.

The following amendment will be added to Article VIII, Section 4 of the Student Government Constitution passed originally on 9-24-74.

F. For all non-concert expenditures major capital purchases that exceed \$500.00, the Social Committee Chairman—Co-Chairman are required to receive approval from the Executive Council of the Student Government.

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David Nairne contó con nosotros.

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Por eso necesitamos más gente como usted. Acuda a La Cruz Roja o a cualquier Banco Voluntario de Sangre ¡Por favor!



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Civils make sacrifice

by Jim Leary

Many misguided persons are still possessed with the misconception that a Civil Engineer, just because he attended WPI, is by some act of Providence assured of immediate employment upon graduation. Not only that, but parents generally anticipate an annual salary of at least one dollar more than their friends' son or daughter who graduated from Holy Cross is making so that they will have something to brag, I mean talk about when they call up every person that they've ever met since they were born, to chat.

This is not always the case, however, as many parents who have since exiled themselves from the country and are living under assumed names in Peru, can testify. But, there is really no need for all of this shame. You can cry and stomp your feet 'till the cows come home (unless you are a housewife, in which case you'd wait for the milkman to come home) but it will all be in vain. For, in spite of all the career planning efforts of the Placement Office, unemployment among Civils is governed by a force which is greater even than the Plan.

Yes, it seems that God, upon creating WPI had become angered at a certain group of students who had displeased Him. So, through His divine wisdom, the Lord used these students as scapegoats ex-

posing them to all the unnatural forces and pressures of the earth in order that their faith may be tested. And in this way these Civil Engineers became martyrs for all engineering students for all time.

I will quote Genesis 4.21-27:
 "...and on the day before those of whom had pre-registered in March of the same year were to enter the institution of wisdom-breeding to be known as the Polytechnic Institute of Worcester (PI of W), the Lord made the hill of Boynton. And upon this hill he erected all department buildings be they Chemical Engineering, Mechanical Engineering, Electrical Engineering, Mathematics, Physics, or Ark Engineering (this was later dropped when Noah, the only instructor took off on a world cruise). And at the foot of this hill he placed the building known as Kaven, the hall of Civil Engineering.

...and upon enrollment day the students came and witnessed what the Lord had done. And those who were enthusiastic, seemingly possessed by a divine thrust to consume knowledge, quickly occupied the buildings on the hill, while those who were not so eager came late, for they had been frolicking and playing in the fields which the Lord had provided. And when they finally arrived on the hill, all the seats had been taken and the hearts of those who

had waited too long became heavy. And the Lord, who had observed all of this, became angry and in His anger opened up the heavens from which poured forth a terrible rain, lasting forty minutes, and washing those misplaced students from the hill to the hall called Kaven.

Then the Lord spoke in a consoling voice. "Fear not, for education has not been denied you. You will become my chosen ones and occupy this hall known as Kaven. And you will study the interaction of the forces of nature and the shaping of civilizations in order that you may satisfactorily shelter My people, make provisions for their employment, and allow them to live in harmony with My world. And sports and games, too, will you play in conjunction with your studies in order to

keep thy Lord amused, and no complaining will thou do, if you know what's good for you, even if you do not finish thy projects on time. And no complaining will thou do, too, if no jobs are available to you in this civilization which you have accomplished, but you are to remain on call at all times in the event that urban renewal be desired by Me, whether it be in the shape of a civic center, housing for the elderly, or a four-lane, limited-access highway. And discouragement will never be seen upon thy faces, for you will have reaped the goods of the land and avoided the sin of material wealth, and content will be with your own lot (10,000 sq. ft., zoned for Residential-1). Are there any questions?"

And there were no questions and the Lord's deed was carried out.

Student Government minutes

The Executive Council meeting of April 20, 1977 was called to order by President Tom Panek at 4:15 p.m. in the Student Affairs Office. The minutes of 4-14-77 were read, corrected, and accepted.

Attendance: Tom Panek, President; Paul Wrabel, Secretary; John Zimmerman, Academic Committee; Cindy Bouvier, IRHC; Anthony Weiner, CCS; Bill Potter, Class of '79 Rep.; Ray Dunn, Class of '78 Rep.; Jim Lunney, Class of '77 Rep.; Eric Hertz, CHB; Maryellen Doherty, Commuter Rep.; Brian Huff, SAB; Chris Corpuz, proxy for Social Committee; Pete Gibbons, proxy for IFC; Marianne Pinigis, Independent Rep. Absent: Mark Lewis, Class of '80 Rep. Committee Reports: SAB - There is a meeting tomorrow (4-21-77).

Class of '77 - The Senior Dinner-Dance will be May 11, 1977.

Acad. Com. - An article will appear in *Newspeak* next week explaining the functions of the Academic Committee. The Executive Council will then set a date to interview prospective members.

IRHC - The Room Lottery will be held Thursday (4-21-77).

Announcements: Tom Panek stated that there will be a letter in *Newspeak* explaining the bill on matching funds next week.

We may hold a social affair with the Student Governments of Clark and Holy Cross.

Old Business: A motion was made that we accept the proposed IRHC amendments.

Discussion centered on whether the amendment will cut the representation of the Freshmen and how it will bring better attendance to meetings.

The motion passed unanimously and will be on the May 12 ballot.

A motion was made that we accept the Social Committee Referendum as stated. It was seconded.

An amendment was made that we strike the word opened from Section III, Paragraph E. It was seconded. It passed.

Discussion with the amended referendum dealt with whether the requirements should be kept and the final say be left to the students by way of a vote.

The motion was passed. It will be included on May 12's ballot.

New Business: A motion was made and seconded that we amend the Social Committee Referendum with an amendment to Article VIII, Section IV, paragraph F. See Social Referendum. It passed unanimously.

The next meeting of the Executive Council will be at 6:00 p.m. Sunday, May 1, 1977. The place will be announced later. The meeting was adjourned at 5:00 p.m.

Who really runs the school?

by S. B. Fine

The week of April 24 to April 30 is National Secretary Week. Secretaries are the intermediates that make WPI operate efficiently. Secretaries are a common fixture at most businesses and many of WPI's secretaries have worked in industry. They say working for WPI has many advantages. Secretaries, as staff members, may use all of WPI's facilities including the library, swimming pool, gym, and all the other facilities on campus. People working in industry do not usually have these facilities to use.

The pace is slower at WPI for a secretary than in industry. They enjoy the interaction with the student. (The interaction with the students) "Keeps us young," said Marilyn Wimmergren. Sue Alto noted, "Engineers are weird."

Secretaries handle most of the paperwork that is created at WPI. They do everything from taking dictation and typing letters to compiling competency exam

statistics. During the school year they work from 8:30 a.m. to 5 p.m. and in the summer they work from 8 a.m. to 4 p.m. The pace is much slower in the summer. The only organized way the secretaries have to get together is through the WPI's Business Women's Club. It was easier for the administrative secretaries to get together when they were all in Boynton Hall.

Melanie Lajoie worked for an insurance company before she was hired by WPI. She said that she was sick of doing insurance. She called the insurance business, "a negative job. Here (at WPI) it's positive. CERD is very positive." Melanie who works in the CERD office said that it is a lot of fun working for Karen Cohen. She said many aspects of her job are very interesting. But there are frequently a lot of people working out of the CERD office. Melanie said, "Sometimes I have a lot of bosses."

Dean Grogan summed up what most of the administration thinks of secretaries with the comment, "Oh, they're marvelous."



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WICN HIGHLIGHTS

TUESDAY: 9:00 p.m. The Maiden Voyage — Two hours of contemporary jazz — smooth and mellow!
 11:00 p.m. The Rocking Chair — Join host Jim DeCarlo for three hours of progressive music; featuring musicians whose birthday's fall this week.
WEDNESDAY: 9:00 p.m. Swingin' Pearls — Al Robbins brings you an hour of big band jazz.
 10:00 p.m. Toe Tappin' Trad Trip — Dixie land jazz with Vance.
 11:00 p.m. The Rocking Chair — Progressive music at its best.
 12:00 a.m. The Psychic Journal — Mark Lynch presents 10 minutes of eccentric thought.
 12:10 a.m. 'Con Sabor' — 50 minutes of contemporary Latin Jazz with host Phil Jeffrey — Hot and Spicy; as it should be.
 1:00 a.m. The Rocking Chair (continued)
THURSDAY: 8:00 p.m. Radio's Golden Days — Old time radio for the young at heart.
 8:30 p.m. The Charlie Glodas goodtime Third Hour Plus 10 — Charlie revives radio comedy once again...
 10:00 p.m. Just Plain Pickin' — Bluegrass at its finest.
 11:00 p.m. The Rocking Chair — Progressive rock 'till the wee hours of the morn.
FRIDAY: 8:00 p.m. Softer Sounds — Laid back sounds with Paul Chouinard.
 9:00 p.m. Journeys Into Jazzland — Contemporary jazz with Jon Smell.
 11:00 p.m. The Rocking Chair — Join Mark for what could be the best in alternative rock... Anywhere!
SATURDAY: 6:00 a.m. Rock Reveille — with Paul Stevens.
 9:30 p.m. The Rocking Chair — An extra one and one-half hours of progressive music with Pat 'till two.
SUNDAY: 11:00 p.m. The Rocking Chair — Alan Jones and great music — a winning combination!
MONDAY: 9:00 p.m. Open Hoot — two hours of blues and traditional folk music.
 11:00 p.m. The Rocking Chair — Join Dave Fox for a different aspect of progressive music.

FOR SALE: 1 Smith and Wesson M-19 .357 mag Revolver
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The freshmen are coming!

by Dave Thompson

While many of us slept through the morning of April 20 (project planning day), 400 prospective freshmen arrived here for their first guided tour of the WPI campus. Easily distinguished by the yellow folders they carried, and the parents who accompanied them, the potential class of '81 members kept closely together as they inspected the Tech grounds. A few of them asked where the "rock-climbing place" was that they had seen in the catalogue. Of course, the only climbing most of us do around here is to Daniels fourth, but I am sure there are some rocks around here somewhere.

Despite many hopeful rumors, the freshmen class next year will probably not contain a great number of females. Out of 1390 applications received only 158 have been from young women. The admissions office estimates that 80 to 130 women will choose to enter under negotiated admissions. However, only a total of about 600 freshmen is projected, so the male to female ratio may change significantly. Exact statistics will not be available until

May 2, and will be reported by *Newspeak* in the May 10 issue.

According to Linda Pettit of the admissions office, "Many of the students will have been involved in a lot of project work in high school." The freshmen who I spoke to were very impressed with the project work they had seen at WPI, so it seems that next year's freshman class is a promising one.

The number of transfer applicants for the coming year is double that of this year. Roy Seaberg, Director of Admissions, said "This older group, mainly about 21-22 years of age, is a mix of excellent people mostly attracted by the flexibility of the program here; the Plan itself."

There is also a group in the 24-27 year age bracket expected to arrive in September. This increase in older students, combined with the small freshmen class projected, should change the social and demographic WPI profile. However, there is no guarantee that only 600 freshmen will choose to enter, unless the admissions office has taken steps to screen out 780 applicants.



Photo by Steve Kimotek

Conference students back

by Robert J. Hyland

Once again students from WPI have participated in the annual Eastern College Science Conference, and once again it was a complete success, both academically and socially. Not only did we get to meet and make new friends, but we were afforded the invaluable experience of presenting our work and receiving recognition for it. For some of us who submitted papers on our research in competition the experience was even more rewarding. Of the 18 WPI students attending, 12 entered their written papers, and of these four were honored; in Category no. 1, *Inorganic Chemistry and Earth Sciences*, honorable mention went to George Whitwell — H. Beall, advisor; in Category no. 2, *Organic Chemistry and Biochemistry*, first prize went to Catherine A. Seymour, — J. W. Pavlik, advisor; in Category no. 3, *Engineering, Computer Science and Mathematics*, first prize went to Domenic Grasso, George W. Harding, and John J. Osowski — H. Kharajjian, advisor; and in Category no. 4, *Physics*, second prize went to Stephen B. Kovner — R. Goloskie, advisor. The awards were made at a banquet for which the guest

speaker was Nobel Laureate Dr. Stanford Moore of Rockefeller University. It is worth noting that of the 57 participating institutions only one received more awards than WPI.

At a business meeting held on Friday afternoon, April 15, two amendments to the ECSC Constitution were proposed and voted on. WPI's amendment seeking to ensure the financial accountability of future host institutions was passed unanimously. The amendment proposed by SUNY, New Platz dealing with the creation of a special fund for needy students passed by a closer margin. Also, the five colleges wishing to host the 1978 ECSC made their bids and, after a vote, Union College in Schenectady, New York was selected.

We thank Fairleigh Dickinson University for the very professional manner in which this conference was run and the cordiality with which we were received. Also, a special thanks to all the WPI faculty who have encouraged and supported our participation in this event. And finally, to those students who have the opportunity to go next year I have only one thing to say: DON'T MISS IT!

TO: ALL STUDENTS

RE: INCOMING MAIL DURING THE SUMMER VACATION

In order for you to continue to receive your mail during the summer vacation, it will be necessary for you to fill out the POST OFFICE CHANGE OF ADDRESS CARD NO. 3575 or 3576.

This card will be available at the Central Mail Facility Office, located in Daniels Hall. Miss Hester or any of the mail room personnel will be glad to assist you. Please make sure that you fill the card accurately and clearly.

The Worcester Post Office does not recommend forwarding magazines, or advertising material since most of these are not first class mail and therefore, the return postage can be costly to you.

DEADLINE, MAY 16, 1977.

COMMENCEMENT 1977

SATURDAY, JUNE 4

2 p.m.

REHEARSAL FOR COMMENCEMENT

TUESDAY, MAY 17, 11 a.m.

HARRINGTON

(Pub Open at Noon — Special Senior Day)

Pick up cap & gown in bookstore. Available as of May 2. BS — \$7.50.

Pay diploma fee at accounting office by Wed., May 25 — BS \$10.00.

Be sure all obligations to the institute are paid. Diplomas can be pulled and you could be not allowed to march otherwise.

Seniors must notify Registrar's Office if they are not planning to attend graduation.

Tickets are not required for admission to graduation.

Graduation invitations are available but not necessary for admission.

Invitations may be picked up in the office of Graduate and Career Plans (Washburn-3rd floor) as of May 2. Each senior is allotted 6 free invitations — each additional group of 6 is \$1.00.

Graduate students may purchase six invitations for \$1.00 or additional invitations in lots of six.

Please be prompt for graduation rehearsal.

Line up at 1:00 p.m. in front of Boynton Hall — Saturday, June 4th. In case of rain — line up in Alumni Gym — Basketball Court — be on time.

Pub open after graduation for a while depending on business.

If you have any further questions, contact William F. Trask, OGCP, Washburn-3rd floor.

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SPORTS

Crew wins three vs Harvard

The crew team raced last Saturday, against Harvard, for the Davenport Cup. Harvard got the cup, but Tech's light eight, third eight, and woman's four won their races. Not too thrilling you say? You should have been there.

The music that spills from my roommate's clock-radio slowly stirs me into consciousness. I raise myself up onto my elbow and struggle to focus the numerals on the clock. 7:45 a.m. Why would someone be getting up 7:45 Saturday morning J.P. weekend? My roommate, Skip Merrell, rows in the light eight boat. He dresses quickly but carefully and heads downstairs for breakfast. I follow a few minutes later and after an English muffin and a Pepsi Skip and I are headed up to Alumni.

The steps of Alumni are already crowded with rowers. Skip exchanges a few short greetings and blends in with the other members of the team. I stand under my umbrella and listen to the rower's quiet, nervous talk. They stand in the rain, seeming not to mind the wait.

The ride to the boat house is slightly fast with an occasional joke. Once there, the team goes to work, automatically unloading boats, filing oar handles. After much waiting the team's coach, David Ploss, calls out, "Third eight, get on the water."

I get in the car of another spectator and we drive over to Regatta Point, which is where the race will finish.

Once at Regatta Point I wait for an hour. Impatient, I ask around to find out what has happened. The Manhattan College boat and the Harvard boat ran into each other. Manhattan broke an oar and the chase boat had to go back to the boat house to get a new oar. The race finally started, after the boats had been on the water for an hour. Tech won the two thousand meter race (time - 6:52) by a length and a half and looked very, very good. Harvard, Manhattan College, and Assumption followed in that order.

After the men's four race, which they placed fourth behind two Worcester State and a Manhattan College boat, there was another very long wait. The chase boat had broken down and was left at the I-290 bridge, which is where the races start. There was good drizzle falling from the low, grey sky. The cold dampness that was in the air slowly seeped into my body, eventually reaching my bones, leaving me stiff and thoroughly chilled.

There was a rush of people from the shelter of the boathouse towards the dock. The light eights had come into sight. The Tech boat was pulling easy as they crossed

the finish line. They had beaten Harvard by open water.

By the time the women's four crossed the finish line the rain had soaked through my jacket. The women had easily beaten Clark by 10 lengths. There pace had been so easy that after 20 strokes Chip Saccoccio, their cox, had time to tell them a joke.

After the womens race there was another wait. Then the heavy eight boat was coming in. I went down to the dock to see what had happened. Wally Catanach, the stroke (the stroke sits closest to the coxswain), had broken his oar. A new one had to be borrowed from St. Johns High School. George Wespi, who ended up with the new oar, was worried about the too smooth handle. "If the handle gets slippery," Coach Ploss told George, "ease up, or you'll catch a crab. The crabs will kill you." They were pushed out into the lake and they headed for the start.

Someone spotted the boats coming down the lake. They were moving very slowly. One of the rowers in the Harvard boat had broken his rigger, the part that holds the oar. The two boats had been racing for 500 meters when it happened. Legally Tech would have won the race. A race can only be run over if equipment breakage occurs within the first 100 meters. But that would have been a cheap victory. Also, the cup and "shirts" were at stake. (Sometimes the oarsmen will bet "shirts". The losing team has to give one of their racing shirts to each member of the winning team.)

The boats were pushed back out on the lake again. There was another wait and the boats could be seen, small and far away. "Are they ahead?" someone asked. "I can't tell," answered a man with binoculars. I watched, toes hanging over the edge of the dock and neck stretched out over the water, the two boats slowly grow in size. Then I could hear the coxes shouting out the count, then the two boats were even with the dock. Tech was behind but appeared to be moving up.

The time for the varsity race was 6:32. Tech came in two seconds later. Coach Ploss was disappointed with the loss, but said he was glad the race was rowed over.

This Thursday the crew team rows in the City Championships. Details will be posted on a large banner in Daniels. The team will also be in a rowathon this Saturday at Lake Quinsigamond. If you would like to pledge money send a card with your name, address, and how much per mile you would like to pledge to box 1259. Whether you pledge or not, be sure to go see the team row, and row, and row. . .

Photo by Barry Aronson



On the girls side

by J. Gordon Gregory

The really good weather is finally here, as evidenced by the quantity of Frisbees, flesh, and water balloons. So last Thursday afternoon I decided to forget homework and spend the rest of the day outside. I walked down to the baseball field and was just in time to catch the start of the game against Bates. The game went smoothly for the first inning and a half; so smoothly, in fact, that I looked around to see what else was happening. I noticed the girls warming up for a softball game at the end of the soccer field, and decided to go have a look.

The change from the baseball field to the softball "field" is immense. In fact, the whole feeling that one gets from the game is different. The girls don't play on a field that is manicured by the ground crew. I doubt if the surface has anything done to it at all with the exception of the marking of foul lines and batters' boxes. The same field is used for soccer, lacrosse, girls softball, practice for some field events, intramurals, and anything in general. Consequently, the field shows it.

After taking a position next to the WPI bench about ten feet from third base, I determined that our foes were representing the American International College of Springfield, or AIC for short. The reason that I was so close to third base was that you can't get any further away without going on the other side of the fence. There is a closeness to the game that you just can't get when watching the men play. At the same time, the men's game can be followed because the scoreboard can be seen clearly. Anyway, apparently AIC has a lot of money because their team was outfitted with everything including caps, tops, pants, socks, and even warm-up jackets. Tech, on the other hand, has almost that: shirts. Maybe we should be happy that we have that much.

AIC was up first after a ridiculous psyching chant that caused a flurry of giggles from the Tech bench. The top of the first went by without AIC scoring and with the WPI girls looking good. In the bottom half Tech looked even stronger scoring two runs by both their own initiative and AIC's pitching. Things went well for the next few innings, with WPI

picking up two more runs while maintaining the shutout. Good performances were put in by sophomore shortstops Diane Curren and junior left-fielder Mary Donovan. The sky started to cloud up in the fifth inning when AIC got three runs before finally being put out. WPI came back in the bottom of the inning with a run to make the score five-to-three, but the game wasn't over yet. Both teams kept each other scoreless in the sixth, but in the seventh AIC scored four big runs. Tech, with the bottom of its batting order up, could not score the needed runs and went down to defeat, 7-5.

Even with the loss, it was a good game. It is too bad that the teams which use the field have to put up with its problems. For instance, the chain link fence at the north end of the field has pulled away from the supports at the bottom. The ends of the chain-link are really sharp and could easily rip into someone's leg. Mary Donovan caught a pop foul in the game proved just how real this danger is. As she collided with the fence, the chain-link hooked into her sock; the impact made her bounce off the fence and she then did kind of a graceful half-twist as she fell to the ground, her ankle still held by the fence. Luckily, Mary wasn't hurt and she made the catch.

It wouldn't take someone a half hour to wire the fence to its support poles. The same person could paint home plate so the players could see where it is. Coach Sue Chapman has to get a spray can and spray it herself before and during the game. And although it will take a little longer, something must be done about the bases and the wood beneath them. AIC's coach complained about the exposed nails and players on both teams suffered abrasions of the knee when sliding into third base.

It wouldn't take much to make these improvements, just a little time and effort. Even with the second-rate playing field, Thursday's game was fun to watch. The audience was a fraction of what the men's game had, but hopefully that will improve. The girls record is now 1-2 with the next home game on Wednesday, April 27. Come out and watch the game, but watch out for water balloons coming out of the end of Morgan!

Baseball team drops pair

by SAFA

Hey alright, the baseball team is a strong 1-5. Did I tell everyone we were going to be good this year or what? The story is simple. Every game WPI strikes out in double figures and leaves men on base in double figures. You don't win by doing that.

Let's see; Tuesday the team lost to AIC in Springfield. AIC is a very good team and was coming off a win over U. Mass. WPI was never out of the game and had bases loaded in the eighth with the score 2-0 AIC. But no runs came across and the final score was 4-0. When four sacrifice bunts are unsuccessful and four errors are committed you are going to have trouble beating the girls softball team. Paul Josephson pitched well again but you can't win without runs. Mike Walker finished up for Paul when his arm tightened up and looked well.

Thursday WPI lost 3-1 to Bates. Bates another good team was five games over 500 and brought half their school down for

the game. Young Dave Busch pitched well giving up three runs and going the distance. Again no defensional support, 11 strikeouts, and 15 men left on base was the cause. A bright spot was Scott Farrel and Dan Durbach getting 2 hits apiece.

WPI has only been out of one game so far, that being the romp at Lowell. Other than that WPI has been close in every one. The games could have easily swung WPI's favor with a little luck.

Well Wesleyan is here on Tuesday Assumption on Thursday, possibly North eastern on Friday, and a doubleheader against Coast Guard Saturday. So a home stand is needed, let's see WPI get on the winning track.

A solution to the problem of called strikes is going to be tried. In the upcoming week anyone that looks at a third strike will have his name put in the next week's paper for striking out. For example, (let's just put a name out of a hat), "Last week Dan Durbach took 4 called third strikes, George Ferron took 2 called third strikes, etc."

The Society of Fire Protection Engineers
will present:

Mr. Bill Hobbs

on Tuesday, May 3, at 7:00 p.m. in Higgins 101.

Mr. Hobbs' topic will be:

"Fire Investigation"

All are invited to attend.

Mike Murphy-marathon man

by 'Bake'

W.P.I. has an outstanding athlete. To look at him you wouldn't know it, however, he stands about 5'8" and weighs only 122 lbs. A few have probably seen him and scratched their heads as a lone figure strode silently through new fallen snow. Still others may feel perplexed to see the same man running when they return from work as they did when they left in the morning. The man is Mike Murphy. And running is a major part of his life. The soft-spoken W.P.I. sophomore says, "I guess I enjoy it, but it's something I just do...like a job." Run he does and will continue to do. Mike runs every day of the year and will do so for a number of years to come. The Marathon is now his penchant which one can easily see. Murphy did extremely well in Marathons this year...all two of them in which he was entered. There was this event on Patriot's Day, uhh, the Boston Marathon I think it's called. Something like 3,000 official entries, 5,000 or so runners, heartbreak hill! Heard of it? Mike finished 36th this year. His time of 2:26:22 was only 12 minutes behind the winner, Jerome Drayton, and a few minutes ahead of many top class marathon runners, including Bill Rodgers who dropped out. Mike also finished ahead of two other W.P.I. runners, who did creditable jobs. John Osowski and Peter Kane, both seniors, finished 244th and 247th, respectively. They finished, which is no mean feat at all. But 36th on his second marathon ever. Whew! The first marathon Mike completed was another 26-mile trek through the Connecticut area. Murphy, a Cromwell, Connecticut native, competed in the Connecticut Marathon in order to qualify for the Boston Marathon. Qualify he did by placing 3rd in the race. "I really didn't push myself that hard in Connecticut; it was a nice pace," Mike reflected as he examined the blisters on his feet which would force the Sunday jogger to take a week off. The Boston Marathon was a bit different. Mike more than pushed himself.

Perhaps a few words of what the marathon is like to a 19-year old would be in order. The day before the race you would think a runner would get a break. No way. "I had to keep limbered up so I ran the day before the race" Mike said, flashing his most pleasant smile, "and then it was spaghetti for supper the night before." The morning meal was pancakes, bland with carbohydrates for reserves of energy. A friend drove Murphy to the starting point in Hopkinton. His family was present. He picked up his number — 2966. Unseeded and unnoticed, he would start in the back of the pack. Then his mind went through what would happen to him for the next few hours. The mental strain had begun. The race was to start and the runners lined up. "The top 50 or so form last year's race line up in front," recalled Mike, "then it's kind of a battle in back. Everyone is pushing and elbowing, trying not to have their shoes stepped on." After the starting gun sounded it was a full minute before the W.P.I. math major reached the starting line. "A number of runners try to start fast and set a quick pace, but I just wanted to stay smooth." This evidently worked well for Murphy. "It does a lot for your spirits if you can continuously be passing people rather than slowing down at the end as everyone passes you." Clearly the spectator support in the Boston Marathon aided Murphy's mental stamina. "The people were great all the way." For the whole race there was a continuous line of spectators, many of whom offered oranges, water, or Mike's favorite, ice cubes. "I'd take them and put them on my body, head and face" — a tactic which might have caused him problems later. The last time Mike saw his family and friends was while passing through Wellesley, 15 miles into the race. From there spectators must go to the finish line if they want to see the end of the race. Thus, for the last stretch of the race he would be more on his own than ever. While running Murphy witnessed other runners getting cramps, succumbing to the

heat, and quitting. But Mike bore on. After a while ones feet just keep going, and the head is what one must battle with. Quitting never was one of the things that came into Mike's head. "I never felt like I wanted to give up. My legs felt good; I never even thought of it." But as the last 3 miles of the race approached it seemed that "Murphy's" body might betray him. Perhaps it was the ice cubes, or the heat itself, but soon this, your marathon man, looked possessed, spaced out — or both. His head began to bob around, just looking up at the sky most of time as he swerved from one side of the crowd to the other. "It was frightening, like running in a tunnel. I just tried to stay on the crowd line for direction, but I ended up zig-zagging back and forth." Still, Mike's legs kept moving to the finish line...just barely. After Mike took exactly one step over the line he collapsed into the arms of two officials who laid him on a stretcher. They gave him oxygen for 10 minutes ("I kept trying to knock the mask off because it was making me sick") and then wheeled him into the basement of the Prudential building to recover. People lined the path in and around the Prudential, congratulating all the runners, whether they were still running (amazing) or were in Mike's condition. "I think I was worse off than others I saw," reflected Mike. Still the body fought him. Chills, cold sweat, and cramps stayed with him for quite a while, though now he could think about his superlative effort. "I'd have to say I'm pleased." But despite being pleased there are still some modest goals to be met. Perhaps by the nature of his sport Mike is a patient man. He has the attitude that he should take everything as it comes. Running for a half hour and knowing two more hours remain develops patience. He would like to run a sub-2:20 marathon; he'd like to go to the NCAA nationals this year in the 10,000 meter run — about 6 miles. But right now he isn't doing any "quality" work — speed work in track vernacular. He must qualify for the nationals, however, and since the W.P.I. track team, of which he is a member, doesn't run the event, he must do it elsewhere. Mike has set his sights on other things, like the Boston Marathon, so this goal should be accomplished. Training for the marathon has been a 3 year ordeal for the W.P.I. runner. His running (since being a freshman at Cromwell High School)

introduced him to a vintage marathoner from the same neck of the woods — John Vitale. John went to the Olympic trials in 1976, but just missed out on making the Olympics. His coaching proved to be more than adequate as the student (Murphy) finished well before the teacher. Vitale came in 45th in the Boston Marathon, quite respectable to be sure.

The workout for the past three years has been vigorous. Mike runs from 160-190 miles per week when a race is not pending. A month or so before a big race he steps his workout down to 120 miles per week. Still it is an everyday affair, usually twice a day. One workout will be short, another long. Workouts must be sandwiched between classes and homework which bury all math majors. Rain, sleet, snow, winds, dogs, and Worcester drivers must all be put up with to get in the workout...every day. Mike seems to take it all for granted and will be dedicated to this type of schedule for years to come.

Aside from the running, the food he consumes would turn many off in this plastic age. "I try to stay away from the junk foods" says Mike, which is evidenced by his trim frame, bright smile, and glowing face. He eats a lot of fruit and vegetables and other things that most of us know are good for our systems. But he doesn't miss the other junk. "Eating these things make your body feel cleaner, running and otherwise".

If you push him, Mike will go so far as to tell you his goals for the next few years. He would like to graduate, naturally enough, then get a job in a business related field. But running and working are not always compatible. Marathon runners now must scrape for everything they get. Even guys of Frank Shorter's caliber must try to get by without any funds coming in other than some expenses covered by a sponsor.

All this though is in the future for Mike Murphy. The day after the marathon he ran 6 miles. Today will be more running, and tomorrow also. It won't stop for awhile. Next year in the Boston marathon Mike will wear the number 36, and will be with the top runners. But before that there will be the daily jaunts, competition with the WPI track team, and races this summer in Connecticut. And each time he starts his run he'll take each step as he's always done....one at a time.

Tennis, anyone?

by Wazoo

Due to all sort of confusion, there hasn't been any news on the tennis team in here yet, so I will try to sum up the last three weeks. So far, the Engineers have dropped matches to Bentley, Holy Cross, Babson, Assumption, and Clark without even coming close to a victory. Ken Steinhardt gets co-hi-gag honors with Brian Hallett and Bob Desourdis as the three all lost close three set contests in each of the first two matches. Captain Paul Carralho is just now starting to get his game together, after a very close match against Clark. Al Masse has come up with big wins against Bentley

and Assumption, in losing causes however. Freshman Peter Sharpe and Senior Bob Desourdis have each contributed victories here and there also.

The second half of the season brings easier matches, however, with the exception of Brandeis on May 7. Look for WPI to come up with some quick victories against RPI, Nichols, AIC, and Lowell. The doubles teams of Steinhardt - Carralho, Hallett - Masse, and Desourdis - Larry Loel should bring in needed points if the matches ever come down to doubles, in future matches. Dan Durbak will not bring in any points because he does not play varsity tennis.

VARSITY SPORTS BANQUET
MAY 17
MORGAN HALL.

Secondaries will talk about the kinds of jobs that are available to WPI graduates, such as Process Engineering, Quality Control, Management training, R&D, etc.

SPREE DAY IS COMING!!!

The WPI Scuba Club will hold annual elections Thursday, April 28 at 7:30 p.m. in Olin 107. All dues paid members are eligible to vote. The annual club dive-party will also be planned. Please attend!!

PAPERBACK BOOK SALE:

All Mass market paperbacks in stock discounted at 15 per cent. Schaum's outline series at 10 per cent. April 25 through May 2. Text and course books excluded.

WPI BOOKSTORE

The WPI Science Fiction Society presents

John Morresy

John Morresy is a noted science fiction author who will speak in the Library Seminar Room after the regular business meeting of WPISFS. The meeting will start at 7:30 p.m., Thursday, April 28, in the Library Seminar room.

The public is invited.

Telephone operators for the Campus Switchboard needed for summer.

Contact
Ken Barnes, Plant Services
Washburn 229

What's Happening?

Monday, April 25

(thru Friday) WPIC-TV sponsored by the Social Committee, "Murder in America" showings at 10 a.m., 1 p.m., 3:30 p.m., 7 p.m. — also — "NFL Football Follies II."

Tuesday, April 26

Cinematech (Reality and Illusion) — "Le Petit Theatre de Jean Renoir," Kinnicut Hall, 7:30 p.m.
Baseball vs. Wesleyan (H), 3:30 p.m.
Golf vs. U. of Lowell (A), 1 p.m.

Wednesday, April 27

Lens and Lights Back to the Movies Night — "The Birds" by Alfred Hitchcock, Kinnicut Hall, 7 and 9 p.m. FREE.
Track vs. Tufts (H), 3 p.m.
Lacrosse vs. Dean Jr. College (H), 3 p.m.

Thursday, April 28

Tennis vs. Nichols (A), 2 p.m.
Baseball vs. Assumption (H), 3:30 p.m.
Men's Crew, Worcester City Championships at Lake Quinsigamond.

Friday, April 29

TGIF

Saturday, April 30

Flea Market sponsored by WPI Women's Club, Alden 10-4.
SAE Car Rallye, Quadrangle starting line from 9 a.m.
Baseball vs. Coast Guard (H), 1 p.m. (doubleheader)
JV Tennis (H), 2 p.m.
Men's Glee Club Concert, Regis College, 4 p.m.

Sunday, May 1

Lens and Lights movie — "Sex Madness", Alden, 7 and 9 p.m., \$1.00.

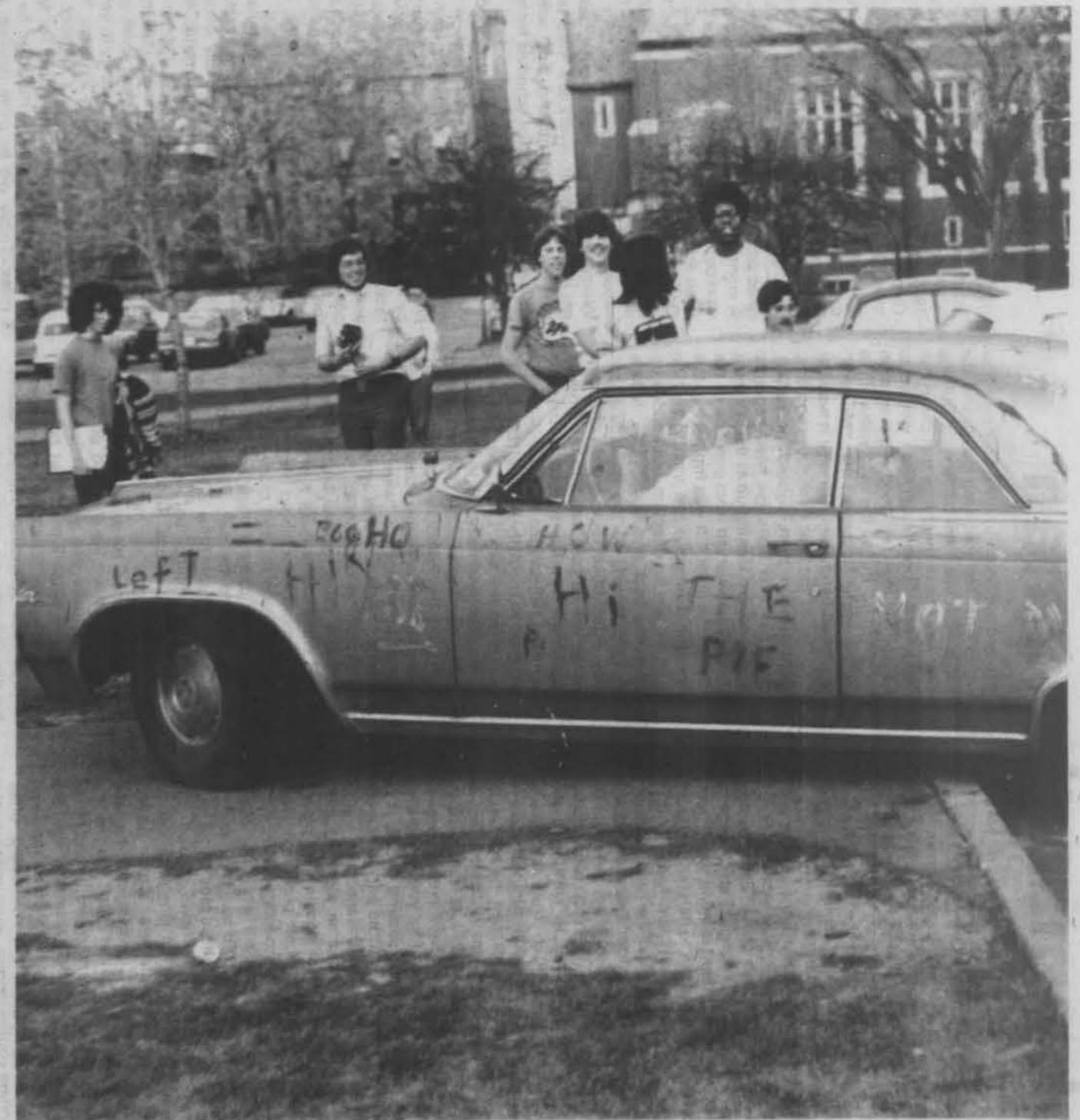


Photo by Mark Hecker

Newspeak

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