

Newspeak

The student newspaper of Worcester Polytechnic Institute

Volume 5, Number 10

Tuesday, April 19, 1977

Referenda proposed

New government holds first meeting

The Executive Council meeting of April 14, 1977 was called to order at 7:00 p.m. in the Student Affairs Office by President Tom Panek.

Attendance:
Tom Panek, President
Paul Wrabel, Secretary
John Zimmerman, Academic Committee
Cindy Bouvier, I.H.R.C.
Ray Dunn, Class of '78 Rep.
Jim Lunny, Class of '77 Rep.
Eric Hertz, CHB
Maryellen Doherty, Commuter Rep.
Anthony Weiner, CSS
Peter Kent, Social Committee
John Landers, IFC
Cindy Karlic, Proxy for Independent Rep.

Unexcused Absence:
Bill Potter, Class of '79 Rep.
Mark Lewis — Class of '80 Rep.
Brian Huff, SAB
Tom Panek opened the meeting saying that because of the amount of work to be done the Council will meet weekly. Also, if you make a committee report hand a written copy to the secretary.

Paul Wrabel announced the dates for elections: CHB and any referendums — May 12, Class Officers, Commuter Rep., and Independent Rep. — May 17.

Eric Hertz reported that the CHB was ready for elections and that the faculty member appointed to the CHB has been elected.

Cindy Bouvier and Dean Sherer were asked to explain what the changes in the IRHC are and why they are necessary.

Peter Kent and Dean Brown were asked to explain the proposed changes in the Social Committee (see below) and why they are necessary. Reasons were that an appointed Social Chairman will allow for a competent person to take over each year. This should increase the continuity between Committees and minimize any mismanagement of money. Jim Lunny asked if anything could be added to make the Social Chairman more accountable to the Student Government. If any ideas come up it will be added to the ballot of the class elections as a referendum.

John Zimmerman was unanimously affirmed as Academic Committee Chairman.

Tom Panek mentioned that there is a bill dealing with matching funds for private colleges and universities in the Mass. Legislature. He will keep us posted.

If you can't attend a meeting send a proxy. Let the Secretary know that you won't be there by leaving a note in Box No. 2514. Unexcused absences will be printed in the minutes.

If anyone has any ideas on professors to serve as elected faculty members of the CHB see Eric Hertz and he will approach them.

The meeting was closed at 8:00 p.m.
Paul S. Wrabel
Secretary

The two proposed amendments to the constitution are:

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 closed 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 a two-thirds vote from the Executive Council the two candidates with the highest number of votes shall be selected to run on the next ballot. A two-thirds vote of the Executive Council shall determine the Social Chairman—Co-Chairman.

Article X — Internal Residence Hall Committee

Section I: Membership

A. The IRHC will have the following representation:

1. The Chairman, elected in May, who serves as chairman the following year.

2. Two elected representatives from Riley, Morgan, Daniels, Stoddard

3. One representative from Ellsworth Apartments and one from the Fuller Apartments.

4. One representative from groups of 30 or more students in on-campus house (i.e. Trowbridge, Elbridge)

5. One RA, elected by all RA's

6. One HRA, elected from HRA's

7. Additional members are determined by the needs of the committee

B. Each member of the committee must be in academic residence for three out of four terms (excluding E term, and a resident of one of the WPI residence complexes.

Section II: Chairman

A. Qualifications

1. The chairman will be elected in May by the previous IRHC.

2. Chairman must have served at least one year in the IRHC.

3. Chairman must reside during the time of office in one of the WPI residential complexes.

B. Responsibilities

1. Chairman will be responsible for coordinating and organizing elections for IRHC committee members.

2. Chairman has responsibility for coordinating Food Committee elections and chairing meetings.

3. Chairman of the IRHC, as noted in Sec. A, 1., b, of the Constitution of the WPI Campus Judicial System, chair the Dormitory Housing Board and coordinates the election of DHB members.

Section III: Term of Office

A. Term of office will be one year from time of election.

Section IV: Election Procedure

A. Election of IRHC members should be held by the first week of October.

Section V: Powers and Duties

A. The IRHC shall serve as the official forum for residential complexes concerning residence policies.

B. The IRHC, representing its constituents, may initiate studies of specific residence hall problems and may recommend policies to meet these problems.

C. The IRHC will recommend lottery policies and assist with the responsibility of lottery plans.

Daka passes inspection

by Ken Mandile

After failing two inspections by the Worcester Health Department several weeks ago, the Daka food service passed a third inspection last week with flying colors. Out of a possible 100 points the Dining Room and kitchen received 97 points. The Snack Bar received 100 points as it had done on a previous inspection.

Bob Hill, Assistant Manager of the cafeteria, spoke to *Newspeak* late last week about the inspection. He said that three points were lost because some of the irregularities cited by the Health Department could not be corrected immediately. The irregularities that were not corrected were a ceiling in a dishroom that needs replastering, a ceiling in a freezer that needs to be painted, and shelves that have to be

replaced. These corrections can only be made when the kitchen is closed for a long period of time, such as during the summer, and then only by tradesmen. Corrections of irregularities thus far have been done by regular Daka employees.

In the previous inspection, which took place about six weeks ago, the kitchen and dining room received only 77 points. This was three points short of the 80 points needed to pass the inspection.

Asked if the Health Department inspectors were too picky, Mr. Hill said that "they were kind of hard in some ways." He said that by giving low points in previous inspections the Health Department gave the food service "an education or awareness of" some things that they would not have noticed before.

CERD gets feedback

by S. B. Fine

On Thursday, April 14 the CERD office sponsored a graduate feedback day. This involved students who have graduated coming back to WPI and relating their experiences in the working world. All the graduates were members of the class of 1975 and they were mixed as to plan and non-plan students. The ex-students were Elizabeth Baum (CE), Joseph Delponte (PH), Katherine Fowler (EE), Robert Granger (CHE), Paul O'Brien (MG), and Scott Wilson (EE).

The format was an open question and answer period for current students to ask the graduates questions on the working world. But there were very few students at the meeting. A number of faculty members showed up though and there was no lack of questions for the group.

On the question of acceptance of women engineers, Elizabeth Baum said that the men where she worked were reluctant to accept her. Most of her colleagues at General Dynamics-Electric Boat were men and she said that the draftsmen were especially slow to accept her. Katherine Fowler who works at Digital Equipment said she did not have any problem. She

attributed that to the youth of most of her fellow workers, average age 26.

Dr. Karen Cohen asked if the panel thought male and female students were treated alike when they were students at WPI. Paul O'Brien said, "Everyone was harried equally." The panel was asked if the pressures of the seven week term helped them handle the pressure of the job. The panel thought that most of the time job pressure was like that of an MQP, a long time pressure. But occasionally an event occurred that brought on competency-like pressure. Scott Wilson thought that the competency was such good training that he said, "Perhaps there should be two competencies."

Joseph Delponte, the only pure science major in the group, thought that WPI's physics department was geared toward getting a student into a graduate school, not towards helping him get a job. Elizabeth Baum thought that there should have been more practical courses when she was at WPI. Katherine Fowler thought the MQP helped her when she was on the job. But Paul O'Brien summed up the whole working world with, "This (WPI) is the real world and out there is Disneyland."

NIGHT CLUB Friday, April 22, 1977 Edmonds and Curley and The Great Estate tickets: \$3.00 9 p.m. Harrington Auditorium	MIDNIGHT BREAKFAST Friday, April 22, 1977 12:45 to 1:45 a.m. Morgan Hall Dining Room \$1.50 per person purchase tickets in advance
TAILGATE CRAFT FAIR Saturday, April 23, 1977 10 a.m.-5 p.m. on the quad	CHARIOT RACE Saturday, April 23, 1977 12:30 p.m.

CONCERT
Saturday, April 23, 1977
Orleans and Melanie

tickets:
\$5 techies, \$6 alumni—faculty—staff
\$7 others

8 p.m. Harrington Auditorium

On Sale at the Night Club
 Lancers Vin Rose
 Blue Nun
 Great Western Champagne
 Asti Spumante
 Giacobassi Lambrusco

Plus

A bar with whiskey, rum, vodka, scotch and gin — all drinks 50 cents.
 For FLOWERS call Holmes — Shusas at 853-2550, 15 per cent discount, call and say you're from WPI.
 ORLEANS, known for hits such as "You're Still the One" and "Dance With Me" will replace the Pousette-Dart band on Saturday, April 23.

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Cinematech Reality and Illusion Film Series presents "Edward Muybridge, Zoopraxographer" and "Film Firsts" in Kinneton Hall, 7:30 p.m.

Editorials: A sour note

Several weeks ago, a notice appeared in this paper, asking all SAB clubs for exhibits or demonstrations that could take place at a Craft Fair, to be held this Saturday afternoon on the quad. The WPI Stage Band, a twenty-one piece jazz ensemble, offered their services, as they have for the past several years. Now, however, word has gotten back to this office that the band is in a bit of a quandry.

Apparently, the organizers of the Craft Fair have decided that they don't want the band to play for their event. This may seem like a small issue to you, but it is a slap in face to the members of the band. They have rehearsed since the beginning of A term for this concert. Their director, Rich Falco, takes time out from his musical work to come up to WPI once a week to rehearse the group.

Dean Brown has offered to speak to the organizers of the Fair on behalf of the band. Even if they get to play this weekend, the question still remains as to why they were told, in effect, that they weren't good enough to attract musicians from outside schools such as Holy Cross, but not, I guess up to the standards of the Craft Fair committee.

We'll know the outcome this Saturday. If you were waiting to hear the Stage Band, but you hear canned music instead, take a walk down to the Galleria, where the band has set up an alternative concert date, just in case common sense doesn't prevail.

Tom Daniels

Signs of life

After the lack of meetings staged by the last student government it is good to see a statement by the student body president that there is a lot of work to be done, and that there are plans for definite meetings being stated. While the support of the student body was not obvious as evidenced by the election turnout, it seems that Mr. Panek is taking his responsibility seriously. While only time will tell whether or not this work will be accomplished, we applaud a first step in the right direction.

Rory J. O'Connor

In last week's *Newspeak*, an article entitled *Is Life Science Changing*, Professor Richard Beschle of the Life Sciences department was quoted as saying "Any Life Science major who doesn't want synthetic biology really doesn't belong here." While our reporter's notes verify this, Professor Beschle claims there was a misunderstanding. He states in a letter to us that "except for a very large university, no institution could offer all areas of biology to its students. Our choices are limited but *not* solely to synthetic biology." We hope by clarifying his position here, we have eliminated any misunderstanding.

The Editors

Newspeak

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IFC Corner: SAE

Sigma Alpha Epsilon is once again redying for its annual car rally to be held on Sat. April 30th. It will start on Wpi's quad with the first off at 9:00 a.m. The rallye will be held for the purpose of giving people a day of fun and frolic as they wind their way through the some scenic Worcester area, while at the same time helping a worthy charity — United Way.

The cost is \$3.00 per vehicle the same as last year! There will be awards for the best finishers, and a rallye party at SAE at 8:00 during which the winners will be announced. The group trophy, which has been held by Sigma Pi for the past two years, is up for grabs as well. There will be a new set of rules for group entries, and all groups thinking of entering are urged to contact us.

We hope that you will set aside this date and join us. It should prove very much worth the effort, even if you've never participated in a rallye before. For additional information call 757-9689 and ask for Jim Steve.

DSB

Orders are now being taken for more Delta Sigma Bogus T-shirts. Any members who missed the boat the first time around, have until this Friday (April 22) to redeem themselves. To place an order at the same unbelievable low discount price of only four dollars, just contact one of the presidents

Energy Guano power

by Mark Kelsey

Today, with population growing, and with people putting out more and more waste materials, as a result, makes this source of energy seem more desirable for future use. However, associated with this refuse are three main problems to be overcome: collection, transportation, and disposal.

There are various estimates of the amount of solid wastes. Probably the most reliable estimate is the total by the WPA of an average 3.2 lb.-capita-day. From this same source it has been estimated in 1971 that municipal wastes totaled 250x10⁶ tons-day, industrial wastes totaled 110x10⁶ tons-day, agricultural wastes were 80x10⁶ tons-days, and mining comprised 1700 tons-day of all waste in 1971.

Therefore, from these facts one can get a general idea of how much waste is available for energy use. The part of municipal wastes that is burnable fiber is estimated at 65 per cent. The National Center for Resource Recovery reported that a power plant that processed 750 tons-day of municipal waste would consume 52,000 kw-hr and would have the capability of recovering 250,000 kw-hr, 24 tons of paper, and varying amounts of glass and metals. Also, Pennsylvania State University has estimated that if all burnable solid waste in the US were incinerated with a heat recovery of 40 per cent, enough BTU's would be generated to heat 2.4 million homes a year in a midwestern climate.

Also, in the area of agricultural waste, it has been estimated that the energy content of the total organic waste would amount to about 9.1x10¹⁵ to 1.4x10¹⁶ Btu. From this total, there are an estimated 200 million tons of animal manure and about 160-390 million tons of crop residues. Thus, this source of energy could become a very promising source to be developed provided that the organic wastes are concentrated at one location and readily collected. Now, some of you may think that using this source of energy is an idea that stinks, but I contend that our country, as well as many other countries, need all of the sources of energy that they can develop and especially those sources like solar energy, windpower, geothermal energy, and hydroelectric power that are *renewable* energy sources.

So, to develop this source of energy, there are a number of different types of energy conversion systems. These can be classified into three main processes: Thermal processes, biological or fermentation process, and solar energy processes.

First, the thermal systems involve either combustion or pyrolysis, a combination of the two, or wet oxidation. In the area of combustion, the combustion of a ton of refuse can produce enough heat to generate 6500 lb. of steam. It has been estimated that incineration of all of the municipal wastes in the US could produce enough energy to provide 10 per cent of the total energy needed to heat or cool its

or the Bog "O" himself. All payments be made in advance in cash — no bills or wooden nickels will be accepted. Also, plans are now underway for the first annual Red-Sox game during picnic-softball game.

buildings. There are three main approaches in the development of combustion systems. Conventional incineration: utilizes processed waste as a fuel in a public boiler; and direct utilization of combustion gases to drive a gas turbine to generate electricity.

In the area of incineration, the temperature of the stack gases have been reduced to as low as 500 degrees F to 1800 degree F to permit pollution control devices to function. Thus, the energy wastes is recovered by a boiler equivalent to act as the heat exchanger device. In this system, the overall efficiency for energy recovery in terms of the amount of steam produced is about 67 per cent. However, there is the major problem of corrosion along three main lines: acid gas, set off by a reduction environment, sulfur corrosion, and low-temperature corrosion that is the main disadvantage of this process.

A second area in thermal systems is of using refuse as a supplementary fuel. One of the large scale experiments in this area took place in St. Louis, Missouri. Union Electric Company's Merrimac boiler. This method involves burning miller along with powdered coal in a suspension fired boiler. The Merrimac boiler is tangentially with one port installed at the corner of the boiler, between two coal burners. The combustion is automatically regulate the rate of fuel to maintain the necessary heat input. However, there has been considerable abrasion at bonds in the conveyor due to small amounts of glass and metal removed, and the volume of bottom ash increased considerably. This amount could be decreased by milling the waste to a smaller particle size or following the approach at the Hamilton Ontario plant using a system that combines suspension firing with a bottom grate.

A third area in thermal systems is the utilization of hot gases. One system is the CPU-400 system developed at Menlo Park, California by the Combustion Corporation. This system mills the waste and removes its organic content by classification. Then, the organic is burned in a fluidized bed reactor. The hot gases from the combustion process are then cleaned and used to drive a gas turbine. However, problems have been encountered with plating of the turbine blades with submicron particles, aluminum particles.

Therefore, I must conclude that the area of utilization of waste materials through R&D efforts should be continued in that the problems of pollution control and corrosion of the thermal systems should be solved. However, in this energy crisis, agricultural waste provides a very feasible source of energy to be developed in my opinion. This will be dealt with in another article.

Source: *Annual Review of Energy*, Jack M. Hollander, assoc. ed. McGraw-Hill (Paulo Alto, Cal.: McGraw-Hill, 1976), pp. 257-268.

EDITORIAL... installm... some o... surrou... perimet... tained a... very co... installm... Shrews... commu... We... interes... a direc... the inter... made in... well se... research... that th... making... Time... journal... their Ma... be desir... Their "E... Frank... morality... Toward... the rec... binant... place... "Perhap... of this... called... Doomsd... the risks... hypothe... strain of... into the... whatever... top off... chose to... of the p... depicting... room fu... large bu... Clutched... newspaper... BRIDGE... The capt... activity... dumping... Although... much rig... or I do, I... most wid... to slant... manner... good reas... be cons... reasons s... the publi... headline... Let us... that wou... accident... recombina... place. Dr... English pu... these step... one of... periments... with a... different p... very larg... million. T... dom int... whereupo... bacteria... when pip... which, if... regulatio... EE... During... Departme... cooperati... pany and... will offer... number c... students... research... departm... engineers... sponsorsh... Foundatio... student a... period o... students... undergradu... positions... equivalent... physics ar... expected... caliber an...

Part two: the DNA dilemma

Road to controversy

by Tom Daniels

EDITOR'S NOTE: This article, the second installment of a four part series, reviews some of the history over the controversy surrounding recombinant DNA experiments. Last week's Newspeak contained a brief, layman's explanation of this very complex issue. The two remaining installments will discuss a town meeting in Shrewsbury, and the reaction of the WPI community.

We feel that this issue is of particular interest to WPI students, in that it involves a direct confrontation between science and the interests of society. The decisions being made in Cambridge and Shrewsbury may well set the future trend of scientific research, and answer the public's demand that they be included in the decision making process.

Time magazine has one of the best journalistic reputations in the world, but their March 7, 1977 issue left something to be desired in way of objective reporting. Their "Essay" for that week, written by Mr. Frank Trippett, dealt with awakening morality among the nation's scientists. Towards the end of his piece, he reviewed the recent hearings concerning recombinant DNA experiments that had taken place in Cambridge, Massachusetts. "Perhaps the most significant result so far of this new skepticism," he said, "might be called the case of the Nonexistent Doomsday Bug...The crucial question: Do the risks of research that could endanger a hypothetical Doomsday Bug — some new strain of bacteria that might find its way into the bodies of the people — outweigh whatever knowledge might be gained?" To top off their story, the editors of Time chose to grace the upper right hand corner of the page with a *Boston Globe* cartoon depicting a MIT scientist running into a room full of Frankenstein-like monsters, large bugs and test tubes with eyes. Clutched in his upraised hand was a newspaper, bearing the headline, CAMBRIDGE OKAYS GENETIC RESEARCH. The caption on this masterpiece of obliquity? "Crack out the liquid nitrogen, samplings...we're on our way!!!"

Although the editor of Time have just as much right to express their opinions as you or I do, it is undefensible for one of the most widely read magazines in the country to slant their reporting in such a blatant manner. Obviously, there are perfectly good reasons why genetic research should be considered dangerous, but these reasons should, and must, be presented to the public in perspective, devoid of any headline-grabbing journalistic scare tactics. Let us take a look at the possible steps that would have to occur for a biological accident, such as those opposed to recombinant DNA experiments fear, to take place. Dr. Robin Holliday, writing in an English publication, *New Scientist*, outlined these steps. He said that, when considering one of the so-called "shotgun" experiments, in which DNA is fragmented with a particular enzyme, the number of different pieces of DNA produced would be very large, perhaps approaching half a million. These pieces are inserted at random into bacterial plasmid DNA, whereupon it is inserted into an E. coli host bacteria. One careless technician could, when pipetting by mouth (something which, if you will refer to the P3 regulations, is expressly forbidden),

swallow anywhere between a few thousand and a few million of these altered bacteria. Even if some of this bacteria died, there would be a slight chance that some would survive in the unfortunate technician's stomach or intestine, and eventually multiply.

If, and Dr. Holliday, head of the Division of Genetics, National Institute of Medical Research, London, notes that this is one of the most unlikely "ifs" in his study, one of the ingested bacteria proved to be harmful to the human body, and if it were to multiply, the victim could potentially turn into a carrier of a lethal unknown disease. So far, the doctor had not assigned any probabilities to these steps. After carefully studying all the conditions necessary for this to occur, however, he says that even after assigning the highest possible probabilities that the total accumulated values represent very, very small figures. "Thus, if ten scientists in each of a hundred laboratories carried out one-hundred experiments per year," he concludes, "the least serious accident (that of the technician dying and not transmitting the new bacteria to anyone else) would occur an average of once in a million years."

Dr. Holliday, who is not, and does not, plan to conduct recombinant DNA research, concludes that, in fact, the real danger lies in the restriction of more conventional genetic research, which has been going on since the turn of the century. Such restrictions have, because of the current turmoil, been imposed by the British Government. England, unlike the United States, has developed a unified set of guidelines to control DNA research. These rules are similar to those enforced by the National Institute of Health, in that they require three levels of precautionary measures to be taken: Physical containment of the sort that laboratories working with known dangerous organisms are now using; biological containment, which involves such things as using the "crippled" E. coli that cannot survive outside of the laboratory; and proper training for all researchers and technicians that would be conducting the recombinant DNA experiments. The two sets of guidelines are different in their definition of containment, the assignment of the risks that go along with the work, and in the way in which the guidelines are enforced. The English rules apply to all scientists conducting experiments, while the NIH rules apply only to those receiving NIH funding.

Some disagreements exist as to which set of guidelines is the best. Dr. John Tooze, Secretary of the European Molecular Biology Organization, said, in *New Scientist*, "The British and American guidelines have been criticized by some for being too stringent, and for putting unnecessary impediments in the way of research, and by others for being too slack and not putting on adequate safeguards. In reaching an opinion it is well to remember that the hazards of recombinant DNA research are, indeed, only conjectural. For over a century, research with highly pathogenic organisms, not to mention other forms of genetic manipulation, have quietly proceeded, with results that have been beneficial to mankind."

Several groups are moving, from different directions, to either control or ban recombinant DNA work. The Coalition for Responsible Genetic Research, a new

organization, is urging a world wide ban on all "genetic engineering" work until issues such as safety and possible alternative methods of research have been thoroughly studied. The CRGR has many prestigious members, including several Nobel prize winners. The announcement of their founding coincided with the start of a National Academy of Science Conference on DNA in Washington. The CRGR wants, among other things, "an immediate international moratorium on all research that would produce novel organisms that would produce novel combinations between distinct organisms which have not been demonstrated to exchange genes in nature." As an example of alternatives, the group recommended instituting environmental studies to determine possible causes of cancer, in place of using relatively expensive and dangerous DNA research.

Meanwhile, New York and California legislatures have moved to control research within their own states. Following public hearings last October, the Attorney General of New York issued restrictive guidelines for all research work being done in that state: Scientists will require a certificate of competence before beginning work; all projects will have to be reviewed by the State Health Board; all laboratories will be periodically and frequently inspected by the Health Board; and, finally, all research personnel will have their health monitored while conducting recombinant DNA experiments. Guidelines setting levels of precautions and containment will probably be tougher than the NIH rules.

The California State Assembly favors rigorous control of research, but it is undecided as to what state agency will be entrusted with powers to enforce the rules. This debate has run into open confrontation between various sectors of the bureaucracy, and deliberation has been extended because of hearings held by such groups as the Sierra Club, Friends of the Earth, and the Environmental Defense Fund.

The previously mentioned conference of the National Academy of Science was meant to be a calm, open meeting to discuss the pros and cons of recombinant DNA research. From the earliest moments of the meeting, however, the supposedly "sacred halls" of Science were rocked with the cries and slogans of public interest groups such as the so-called "People's Business Commission." They claimed that the meeting was full of scientists in favor of the research and they demanded equal time, which they received. They also charged that the issue of safety was given too high a priority of discussion, and that the overriding question of morality was being ignored. The conference did result, eventually, in legislation being introduced into the Congress, which would place NIH-type guidelines into Federal law. Since then, two other bills have been presented, one from the Carter Administration, and one from Senator Edward Kennedy, D-Mass. Action is pending on all four bills.

The biggest single argument presented at the NAS Conference was that scientists couldn't correctly judge the impact of their work on society. With the emphasis on contact between technologists and society present on this campus it was not sur-

prising to find, in our office files, that as early as May 2, 1972, WPI was the scene for a forum discussing the ethics of "genetic engineering." For two weeks preceding this event, the *Tech News*, as we were formerly

known, urged all students to attend. Classes were even, believe it or not, cancelled for the afternoon. Dr. James Danielli, then Professor of Biochemical Pharmacology at the State University of New York and now the Head of The Life Science Department at WPI, declared "to reach a higher level of civilization, we must use genetic engineering," as the process of natural selection found in evolution is too slow. It is possible, in nature, for only the slightest fraction of the millions of possible genetic combinations to express themselves. Moderator of the panel discussion was Dr. Hudson Hoaglund, the founder of The Worcester Foundation of Experimental Biology, who hoped that, "the day's speeches would shed light on a presently obscure subject." Little did he realize that, five years later, he would be defending this "obscure subject" in front of a meeting of concerned citizens in Shrewsbury, as his foundation tried to begin research into "genetic engineering."

Perhaps the only clear thing to come out of the recent conferences and forums is, as Jonathan King, MIT Molecular Biologist said, "In any case, recombinant DNA work is a technocratic, not a democratic, approach to the problem," sighting the experience of the Cambridge Experimental Review Board which has set restrictions on research taking place at Harvard and MIT.

Most scientists would rather stay in their laboratories and leave political arguments to the politicians, instead of having to try to reason with paranoid citizens who see a Frankenstein behind every test tube. The Cambridge situation clearly shows the need for scientists who can communicate effectively with the non-scientist. Harvard was planning to build a laboratory to house all experiments involving recombinant DNA. Mayor Alfred Vellucci, after receiving warnings from the "Science for the People" group, successfully had a temporary ban placed on all work. A review group was formed, where citizens took all available facts and analyzed the potential danger. There were no scientists on the panel. Their recommendation, approved by the Council, was that the experiments could proceed, but under restrictions slightly more stringent than the NIH rules. Groups such as Science for the People, see this as just a start on the road towards complete public participation in all future scientific research decision making, where the people may decide what is best for their own good.

Now, the citizens of Shrewsbury are going through a dilemma similar to the one which faced the people in Cambridge: Should The Worcester Foundation for Experimental Biology be conducting recombinant DNA research of the P2 variety? Do they have any legal grounds under which the Board of Selectmen could halt such experiments if they were determined to be hazardous? Next week, we will present the answers to these questions by looking at what took place at an open town meeting in Shrewsbury last month.

Police blotter

To: Dean Donald P. Reutlinger
From: Chief Alfred T. Whitney

Subject: Incidents for Week Ending April 10, 1977.

On Monday April 4, 1977 at 1:20 p.m. received call re a suspicious person in the Wedge — Sgt. England and Off. Supernor checked him, got his name. He stated that his father was going to pick him up — His father did come and pick him up — He is

age 29 and had been in and out of the State Hospital — Father and son were both advised to keep the son out of WPI.

On Tuesday April 5, 1977 the RA from Riley-3rd floor called re a man peeking into the shower room of the girls. This subject could not be located by officers — From description he was not the person apprehended in the Wedge on April 4.

Alfred T. Whitney
Chief, Campus Police

EE grants available

During the summer of 1977, the Department of Electrical Engineering in cooperation with Sprague Electric Company and High Voltage Power Corporation will offer the opportunity for a limited number of highly qualified undergraduate students to participate in industrially related research under the joint guidance of departmental faculty and industrial engineers. This program is under the sponsorship of the National Science Foundation and awards the participating student a stipend of \$90-week (tax free) for a period of ten weeks. It is expected that students applying for the available Undergraduate Research Participation positions will have achieved at least the equivalent of a "B" average in Engineering, Physics and Mathematics subjects. It is also expected that the students will be of a high caliber and have displayed a high degree of

initiative and independence in thought in both laboratories and course work.

The positions are designed to be educational experiences in which the students are treated as junior colleagues. They are not merely "summer jobs". At High Voltage Power Corporation students will be computer simulating the operation of a high voltage shunt reactance and at Sprague Electric Company conducting measurements and analysis on a variety of problems related to integrated circuit manufacture and characterization.

Applicants must submit a letter of interest along with a listing of courses and grades, if available, up to and including the 1977 Spring Semester as soon as possible and no later than April 25, 1977. Awardees will be notified on or about May 1, 1977. Contact Professor H. Peter D. Lanyon, Project Director Extension 231.

**There will be a
Student Government meeting
on Wednesday, April 20, at 4:00 p.m.,
in the
Student Affairs Conference Room,
Daniels Hall.**



Melanie

Melanie, a wilted flower child from the sixties, was born in Astoria, Long Island. She is a vegetarian who is known for "kissing cows" which hopefully will not impede her revival.

Melanie played at Woodstock and did various world tours in the sixties. Her "Brand New Key" was responsible for her travelling far in the folk-rock music circles. She "slithered" out of the music scene in the year 1970 to start a family. She has two children who make her "a very proud mother." Due to the restlessness which results from domestication, Melanie decided to try making a quick come-back.

This time Melanie is projecting a new image. She is sick of being known as an

"innocent child". She is not a child anymore. Melanie has even decided to change to a different music style — jazz. During her time off, Melanie kept writing songs. All these songs appear on her new album, "Cyclone", "Photograph", "I'm So Blue", "Raintance", "Secret of Darkness (I believe)", "Groundhog Day", "Friends and Co.", and "If I Needed You." Melanie's husband Feter Shekeryk, produced the album and arranged a tour for her in New Zealand about a year ago. Melanie is now accompanied by her own band. Previous members of the band include Dave Doran on guitar, Jim Drennan on keyboards, Jay Wolfe on bass and Angelo Mawcer on percussion.

Edmonds & Curley

The comedy team of *Edmonds & Curley*, have been seen many times on the Carson, Douglas, and Griffin shows and various PBS specials and are currently writing their new TV series *Duke & The Doc*.

In concerts, *Edmonds & Curley* performed as the opening act for such stars as Dionne Warwick, B B King, John Denver, Michael Murphy, Papa John Creech, J Giles Band, Harry Chapin, Herbie Mann, Brewer & Shipley, Don McLean, Tanya Tucker and many others.

In night clubs, *Edmonds & Curley* displayed their extraordinary versatility and appeal at Mr. Kelly's, The Cellar Door, The Copacabana, Holiday House, The Bitter End, Atlanta's Great S.E. Music Hall, and both the New York and Los Angeles Improvisation Clubs.

Variety: New York

"Edmonds and Curley are a pair who catch the attention of the dinner patrons with their unique use of audio and visual effects. Each piece of material is punctuated and enhanced by a versatile and

realistic sound track that runs the gamut from a motorcycle revving up, to an electrocardiogram malfunctioning on an imaginary patient."

Minneapolis Star: Edwin Bolton

"When a comedy team draws audience liberally sprinkled with others of the craft actors, entertainers, and other show business types, it's apparent that word has gotten around. The Walter Mittyish humor crossed with a Gerald McBoing-Boing uncanny gift for sound effects, that would turn Jonathan Winters green with envy and material that is fresh makes this act a wonder to watch. There is a brisk turn over too, as Edmonds & Curley respond to ideas suggested by the audience for improvisational skits. *Catch The Act.*"

On the college campus, *Edmonds & Curley* during the past five years have become the number one comedy team in college appearances. Over eight hundred college performances in forty states and Canada have kept *Edmonds & Curley* in front of their favorite audience.



The Great Estate

These are the words which more and more often are being applied to *THE GREAT ESTATE*. And it is no wonder, for this group consistently exemplifies the best in music, entertainment and professionalism.

THE GREAT ESTATE is a dynamic six-piece group which, over the past three years, has been appearing in the finest clubs in 'he East — from Stowe to Miami. Last year, on its maiden voyage into the college market, the group displayed all the qualities which make it a natural for collegiate functions — concerts, proms and dances.

Musically the group is unsurpassed. Their sound is clean and their range of sensitivity profound. But most importantly,

the group displays a versatility which makes it a natural for the varied taste of collegiate audiences. From their explosive renditions of such rock classics as 'Brown Sugar' by the Rolling Stones and 'Fun, Fun' by the Beach Boys, to the mellowness of the Fifth Dimension's 'Ashes to Ashes', *THE GREAT ESTATE* displays a depth of appeal which no other groups can match. Beyond their sound, *THE GREAT ESTATE* offers the visual energy and verbal intimacy to entertain sitdown audiences, while providing the material to keep the dancers on their feet. The six members include Mike Caffi, Tom Pittman, Bill Reynolds, Chris Link, Drake, and John Basile.

The 1977 Junior Prom Weekend CHARIOT RACE

THEME: The theme for this year's Chariot Race is:

"CAMELOT"
(Medieval Times)

AWARDS: There will be three awards presented:

BEST DESIGN — The chariot that reflects the best design as judged by the three totally impartial judges, will receive a **BIG SHINY TROPHY**.

FASTEST — The chariot team that completes the course in the fastest time according to the rules and race procedure, will also receive a **BIG SHINY TROPHY**.

BEST OVERALL — The chariot judged as best overall by the judges will receive a **SUPER BIG BRIGHT SHINY TROPHY**, and a **BIG BRIGHT SHINY 1/2 KEG OF BEER**.

CHARIOT RACE RULES

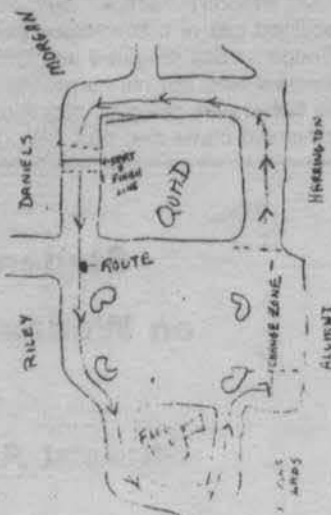
- 1) All Chariots will be judged by our expert judges on design at about 12:00 Noon, April 23, 1977.
- 2) The first round of races will start at about 12:30.
- 3) The chariot must have two (2) wheels, one (1) human rider, and two (2) teams of four (4) people to pull the chariot. The chariot may not be wider than six feet.
- 4) Each chariot must change its running team in the change zone. (See the map).
- 5) The chariot must finish with its second team of runners still pulling the chariot. The chariot must also contain a rider for the full length of the course. He—she must also be still living while crossing the finish line. (The rider may die later due to his injuries, however).
- 6) Any group of WPI students or faculty may enter. Registration is any time before 12:00 Noon, April 23.
- 7) Teams will be paired against another by random draw. In the case of an odd number, the last team picked will run alone. Inside and outside lanes will be decided by coin toss. Each team will be timed and the four fastest times will go on to the semi-finals. Your time is the important thing. The semi-final competition will have the first place winner against the third place winner and the second place winner will go against the fourth place winner. Finals will be the two winners of the semi-finals. In the case of a tie for any race, a coin toss will decide.
- 8) The judges will decide on the best design and the best overall.
- 9) The judges' decision will be final.
- 10) Awards will be presented at the conclusion of the competition.

1977 J.P. Chariot Race

REGISTRATION FORM

Name of Group

Please send this form to Box 874.



BEER CHUGGING CONTEST

for Spring Weekend.

- Eligibility: Anyone
- When: After the chariot races
- Where: On the Quad
- Cost: \$5 per team
- Prize: Big shiny trophy.

Submit team rosters of five and a check for five dollars to IFC box 2461. Make checks payable to the IFC. Deadline for entry is April 21, 1977.



Expired

Everyone of us is an entity,
 continually trying to rediscover one's idea of reality.
 Some are aided through health and vitality,
 others are helped through the discovery of their personality.

My time is spent in concentration,
 dwelling with an image of immortality.
 The time spent reveals only an imitation,
 which my existences is the scent of irrationality.

Some people put their hopes on reincarnation,
 other people put their hopes on nothing.
 You'll know the answer when you feel the sensation,
 people have to put their hopes on something.

Had forbid, I should believe in a hippocracy,
 to be reborn as a demon or fake.
 Vigently, I try to study Hippocrates,
 the knowledge of which is too relative to take.

Unknowingly I talk myself out of it,
 to return to the same old point in space.
 My psyche strives to overwhelm mediocracy,
 not of seven, I'm fourth in the pace,

Max my imagination,
 to the point of no return.
 If I don't find the answer,
 eternally, my soul will yern.

Eugene Jakulowski

Psyche

Imagine yourself as a prisoner,
 with all too much time to think,
 would you deny yourself the responsibility,
 or would you allow yourself esteem to sink.

All too many times, we turn against ourselves,
 because of what we fear.
 Although we don't fear ourselves,
 we don't consider ourselves so dear.

Each of us is his own best critic,
 although some are better than others.
 We look for the best traits to mimick,
 and we strive to be better than our brothers.

We live in a world of confusion
 and stifle our dreams with arbitrary rationalization.
 We continually deny the possibility of destruction,
 and confuse the matter with hopeful misconception.

Eugene Jakulowski

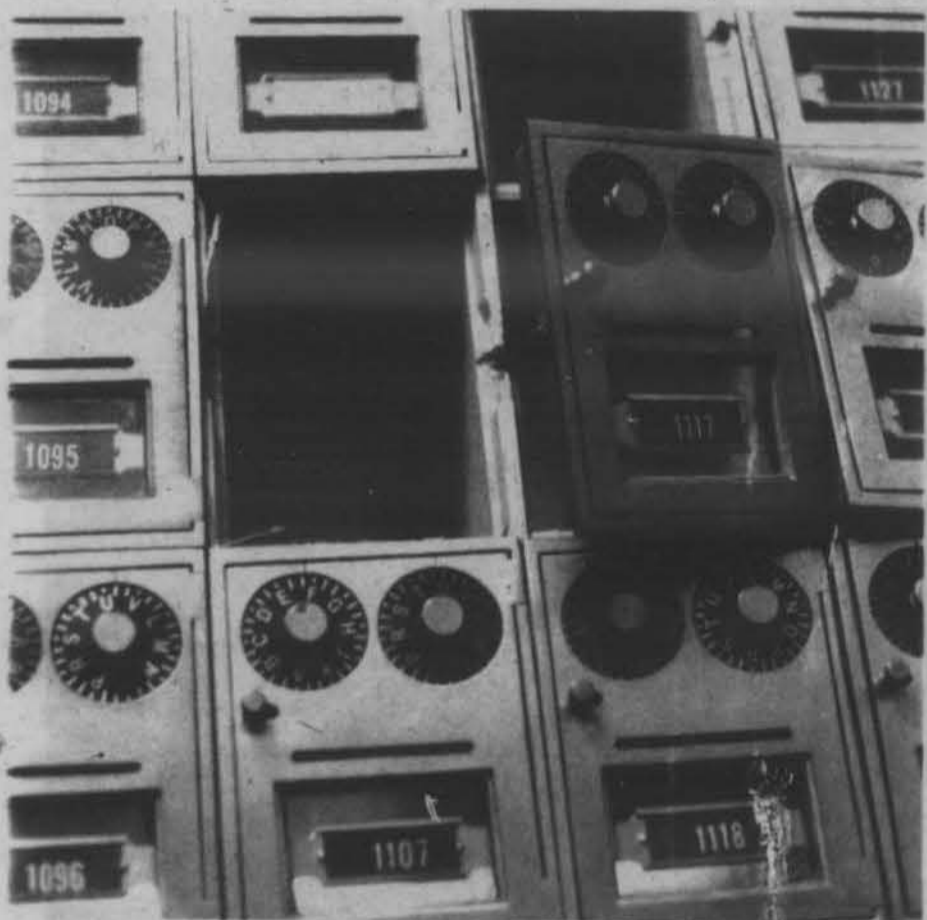


Photo by Tom Daniels

Sleep

Sleep, the nighttime land
 Of heroic dreams
 Where none dare go wrong.
 The women are beautiful,
 Their heroes handsome.

Sleep, the nightmare land
 Of countless terrors
 Where heaven is hell.
 Chased by the faceless yesterdays
 And uneven tomorrows.

Sleep, the endless nightland
 Of eternal darkness
 Where death rules all
 Every man the same
 Every creature still.

RI

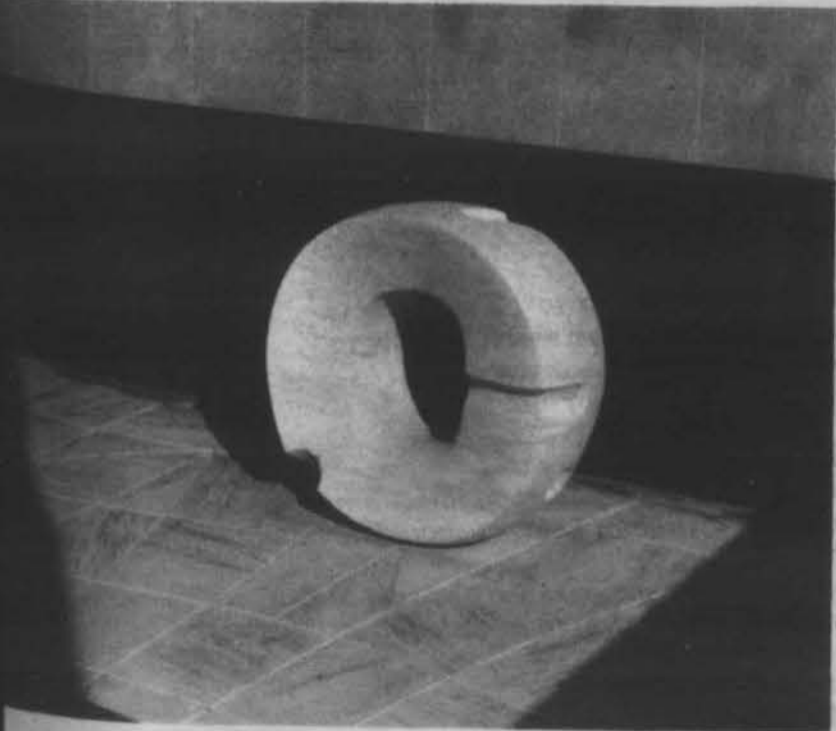


Photo by Mark Hecker

By the ocean I
 feel at rest,
 It generates moods
 within my breast,
 and with the ebb
 and flow of kerma ti'e
 there are times when,
 happy, I might sigh
 and be at peace with the world.

FWA

What?!?!?

I decided to write
so

I wrote
About
What?

"Nothing," I'd have told my mother
Had she asked me.

"Wouldn't you like to know!",
I'd have told my girlfriend.

"A masterpiece!",
I told myself.

So you see,
it's not

What you write

About.

It's

Who

you write it
For.

Brian Huntley

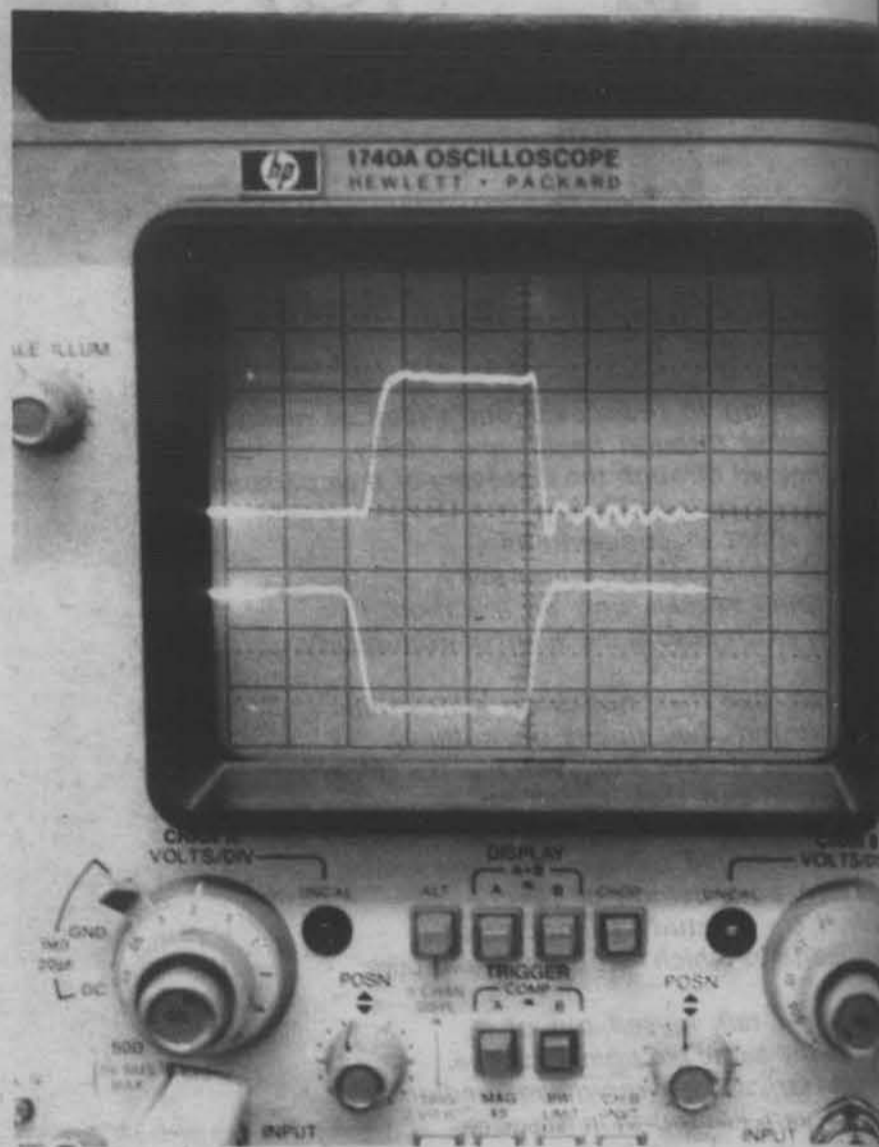


Photo by Mark Hecker



Photo by Mark Hecker

*I wish I could be me.
That is all I ever wanted to be.
Even in the remote recesses of my memory,
I always found the drive to be free.
Somehow it is part of my entity.*

*But here in lecture halls I sit.
Someone else's words and thoughts I am fed,
When even the instructor knows I should be taught through experiential
instead.
Knowledge can't be prepackaged and sold in a kit.
Why do we allow ourselves to be so led?*

*The lessons we are taught
Have all been found,
By men who surpassed the common bounds.
Nonconformists all, more than money
they sought.*

*I see waste everyday,
My peers are molded bundled and sold like hay.
Leading someone else's lives in the prime of their days.*

*I myself though, refuse
To become corporate refuse.*

John Pe...



Photo by Tom Daniels

China doll

by Ira Miller

Selling jeans is a job. It's work. It's more than just reaching up to a shelf and pulling down a pair of pants. You're on your feet all day, you clean, you fold, you deal with all kinds of people. It's tough, but I like it. I get by because I do the tedious parts of my job as quickly as possible, and then, then when the good parts come around, I slow down — ease my way through, and relish them.

Take Monday. Business was slow, and I was doing stock work all morning. Then suddenly a girl was there, in the store, standing silkily, smiling at me, caressing my mind.

"Can I help you?"
 "Yes, you help me, I need jean."
 "Sure, sure, right this way." She was chinese, or something like it, about five-one, five-two.

"Okay, okay I follow."
 One of her eyelids seem to wink, but I wasn't sure. She walked ahead of me toward the back corner of the store I had pointed to. Her perfume slid up my nostrils, and I closed my eyes and breathed deeply for a second. It did not seem like perfume I was smelling, rather the natural fragrance of her entire body.

At the back of the store. I began showing her jeans. She didn't seem to concentrate, or maybe she had trouble understanding me.

"You like blue ones?" I asked.
 "No, have many blue ones . . . how 'bout brown?"

"Sure, sure, we have brown. What size do you wear?" "Huh?"

"Twenty-two?" I asked as I measured her waist with my eyes. "You have a nice slim waist."

"Yes, twenty-two"
 I reached up to a shelf and grabbed a pair of brown brush cotton jeans. They felt soft in my hand, and my fingers caressed them aimlessly as I looked at her eyes.

"Here, you try this one, dressing room right over here." I spoke in a sort of broken English, thinking that she would understand better.

"Okay, okay, don't go 'way," she laughed.

I watched her backside as she walked into the dressing room. She was cute. . . her eyes, her body, her smallish little cup breasts. . . cute! foreign sexy.

She came out. The pants were a little big. I watched them closely. It was nice. The loose pants bagged out in back, and I could see her flowered underwear. My eyes remained fixed, and my breath rose a little.

"You like?" she asked.
 "I like."
 "Not too big?"
 "No, no, don't worry, shrink in wash. . . you wash — get smaller."
 "Well, me not sure. . . try on other pair?"
 "Sure, yeah, I got nice ones over here."



Photo by Ken Sawyer

I smiled. She smiled back. The corners of her mouth wrinkled a little, causing the only irregularity in her smooth skin.

"Here," I said, "try this one, real nice." I noticed how shiny and black her hair was. It seemed as if her hair was a separate part of her body.

"You really like this one me wearing?" she asked again, as she turned her backside toward me.

"Yeah me, I mean I like, but you try on this one." I handed her the new brown jeans I had found, "See which one like better."

"Okay, you nice, be out soon, okay?"
 "Yeah."

I leaned my body against the waist-high counter in front of me, as she walked toward the dressing room. She had some sort of class. Her body seemed to give off a warm glow. I liked, I laughed to myself, wow! the pants looked really good on her. Yeah, I watched, she was nice, her body invited you to watch. Her motions, her

caresses, her butter skin beckoned to be looked at. There was a strange excitement in me, not passion, not physical lust, it was more like she was a comfort; a thing that was there for my sexual being. I liked.

"Yeah."
 Her body seemed perfect now, as the snug pants became a nakedness. She was compact and proportionate, like a small flower. I watched closely as her tiny curved fingers shimmered over her buttocks and thighs — teasing the pants to see if they fit.

"You like?" she asked.
 "Yes, yes, very nice, fit good. . . you take this one."

"Okay, me buy," she sparkled.
 She walked toward the dressing room, waves of heat floated around her. My mind reviewed her motions, her curves. Pressing my body, I remembered well. Soft, those jeans looked so well on her. I wanted desperately to smell the insides of them — breath deep the scent of her body. Yes, they fit good, her body seemed molded into them.

"Okay, I buy this one," she said, now wearing her own pants and pointing to the pair she last wore.

She gave them to me. They felt warm in my hand.
 "Okay, come over here, I put in bag."
 We walked together toward the register. My eyes were half-closed.

"That's \$12.95 and \$1.04 tax, so it's \$13.99 all together." She seemed to own them already.

She handed me a twenty, I gave her the change and put the jeans in a bag.

"Here you go," I smiled.
 "Thank you, see you later, very nice."

She walked toward the door. My mind made little photos of her body as she left the store.

"Okay! how this look?" she asked as she popped out of the dressing room, and walked toward a full length mirror.

"Yeah that's it, those pants are for you."
 "You tink so?" she muttered softly.

She turned her body around in front of the mirror and dipped her head back so she could see how they fit on her backside.



Photo by Tom Daniels

IRA MILLER is a student participating in a literary workshop with John Morressey, the author in residence at WPI for D term. IRA is a representative from one of the consortium schools involved with the workshop, and I would like to thank him for allowing me to print his story in the out to lunch press —

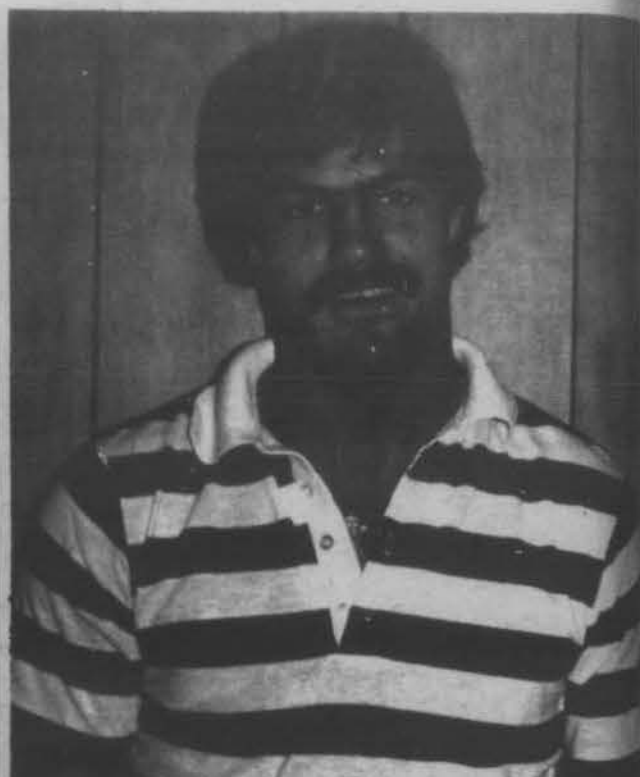
FWA



James Korte — Alpha Tau Omega



Robert Minicucci — The Masque



Dave Nassaney — Lambda Chi Alpha



Dan Kennefick — Phi Kappa Theta



Frank Urbanski — Sigma Alpha Epsilon



Gary Joaquin — Trowbridge House

UMOC Is Here And Needs Your Vote!!

These are the candidates and it is up to you to elect the most ugly. Balloting will take place during lunch on Thurs. and Fri. and during the fair on Saturday.

Balloting will go as follows:

Ballots can be purchased at the APO booth for 25 cents each or five for \$1.00.

There is a space on the ballots for your name, address and phone number.

After filling in the ballot, place it in the container of the candidate of your choice.

The winner will be the candidate receiving the most votes.

The winner will receive a trophy and a dinner certificate. Also a person voting for the winner will receive a dinner certificate.

Proceeds will go to the National Heart Association. The dinner certificates were donated by Dante's Inferno In, Auburn.



Kevin Hughes — Phi Gamma Delta



Bob Lamoureux — Zeta Psi



David Bowers — Stoddard B

UMOC photos by Ken Sawyer.

Many enjoy readings

by David C. Potter

Higgin's house was the place last Wednesday evening for a Fiction Symposium. The guest speakers were John Morressy and William Joyce. William Joyce is primarily from Pittsburg, though he has traveled widely, holding many jobs. John Morressy is from Brooklyn. He has been a teacher and writer and is presently in residence at WPI.

The first speaker was William Joyce who read "The Sexual Uses of Electrical Tape." This short story shows a strong flavoring of the steel mills and the lives of the people who work in them. This is depicted by the story's main character, John Thomgs. The story entails the death of John Thomas and what happens when his bones start showing up all over the factory.

The story is highly comical and Mr. Joyce's wit comes through all through the story. The humorous descriptions used in the story add a sense of insanity that is truly unique of modern day writers. This was

increased by Mr. Joyce reading the story. The story should be a must on your reading list.

The second speaker was John Morressy. The first thing he read was a chapter from his humorous Science Fiction novel *Displaced Persons*. The story is about an 18 year old protagonist running away from home for the second time. The story tells of the wierd travels of the youth. The story is unique in that it has a blend of science fiction and comedy.

The Fiction Symposium was made possible by a grant from the National Endowment of the Arts. WPI coordinator is Prof. Charles Heventhal. Also in the symposium were readings by various WPI and consortium students.

John Morressy will be in residence at Tech 'till the end of the year. William Joyce will be at various locations 'til April 21st. Better than 75 people enjoyed this event and it is hoped that more events will be held of this type and caliber.

Foreign internships

Our next class of International Development Interns is now scheduled to begin in March, 1978. Applicants will be selected in October and November, and we have enclosed information which describes the program and the positions we expect to fill. Appointments will be in the Foreign Service Reserve at a salary not to exceed \$18,172.

As we have done before, we are asking your assistance in referring qualified applicants to us. We welcome all such inquiries, especially those from women, minorities, or veterans. Applicants must be U.S. citizens. All applicants should contact us no later than May 27, 1977. A resume describing the applicant's qualifications

sent to me will be sufficient to begin consideration and we will forward information and, where applicable, the necessary applications. Inquiries received after the deadline will be held for our next class, tentatively scheduled for September, 1978.

We sincerely appreciate the help you have given us in the past. Please contact me if you have questions.

Sincerely,
Edwin W. Elliott
Acting Chief, Recruitment Branch
Office of Personnel and Manpower
Dept. of State
Agency for International Development
Ed Note: For more information, see OGCP.

DANCE! Modern Jazz Workshops with Denise Day. Sundays, April 24, May 1, and May 8 at Alden Hall from 2-4 p.m. No Admission. Everyone is welcome. Sponsored by the WPI Masque.

COLLEGE ID SPECIAL!!!

Show your college student ID and get your hair styled

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Also a complete line of T-shirts and sox



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HUSTON'S

The end is near!!!

by Richard S. Holmes

On Wednesday, April 20, aka Project Planning Day, aka *tomorrow*, the WPI Science Fiction Society will present the first annual WPISFS Spring Movie, *The Last Days of Man On Earth*. Made in 1975, the film describes the end of the human race — and the beginning of a new species. The Los Angeles Times called it "savagely witty, supremely stylish, wildly imaginative!"

As an extra added attraction, the ultimate monster-versus-monster movie,

Bambi Meets Godzilla, will also be shown. Haven't you always wondered what would happen if America's Most Loveable Fawn took on Japan's Greenest Monster? This may be your only chance to find out.

As if that weren't enough, there will also be two fabulous cartoons, in full living color. All this will take place starting at 8:00 p.m. in Kinnicutt Hall of Salisbury Labs for the absurdly low price of \$1. Proceeds will help fund such WPISFS projects as the reversal of entropy. Don't miss it.

Summer courses at museum

For a second year, the Education Division of the Worcester Art Museum is offering a summer program of adult art courses. Merle S. Harbach Curator of Education at the Museum, announces two sessions for this summer: May 21 to June 30, and July 12 to August 11. Courses are open to the public and tuition starts at \$20 for Museum members and \$30 for non-members. As a special feature, academic credit is available through Quinsigamond Community College. This is the first time the Museum has offered courses to non-members.

Whether your interest is drawing, painting or photography, the Museum's program has a course to enrich your summer. Beginners may choose from oil painting, life drawing, acrylic painting, watercolor, and basic drawing. Intermediate courses include: landscape drawing, figure painting, shadow and light theory, and oil painting. A photography course for both beginners and intermediates is also being offered which will

introduce darkroom techniques to beginners and improve intermediate skills. All courses are taught by practicing artists-teachers from the Museum staff.

Registration is in person at the Education Division Tuesday through Friday from 10 a.m. to 4:30 p.m. Memberships are available at the time of registration to take advantage of tuition discounts on courses and the many other benefits of membership. Museum membership is valid for one full year from the month of enrollment.

The Museum will also be offering Art Unlimited for youngsters this summer. This is a program designed to introduce children ages 5 through 17 to artistic expression and help them explore various techniques and media. The sessions are also open to the public and will run July 18 to 29, and August 1 to 12. Scholarship assistance and transportation are available.

Detailed brochures are available on both the adult's and children's programs from the Education Division.

WPI GLEE CLUB and Regis College Glee Club.

J.S. Bach — Cantata No. 4
Liszt — Psalm 18
Holst — Dirge For Two Veterans

WITH ORCHESTRA

Notre Dame Church — Worcester Center
Sunday — April 24 at 8:00 p.m.

"The instrumental music for this occasion is made possible by funds supplied by the Recording Companies of America through the Music Performance Trust Funds, a public service organization created under agreements with the American Federation of Musicians. The Grant for this performance was obtained with the cooperation of Local 143 A.F. of M.

Sigma Alpha Epsilon

United Way

CAR RALLYE



Entrant _____

Car _____

Preferred Starting Time _____

Fraternity or Group _____

Phone Number _____ Address _____

Send with payment of \$3.00 to: **RALLYE CHAIRMEN**
Sigma Alpha Epsilon
6 Humboldt Ave. or WPI
Worcester, MA 01609 Box
2515

--- tear here ---

DETAILS

1. Starting place: WPI quad.
2. Date: Saturday, April 30, 1977
3. Departure time of first car: 9:30 a.m.
4. Rallye Party — 8:00 p.m. at Sigma Alpha Epsilon. All Rallyists invited.
5. Winners will be announced at the party.
6. Entrants will be notified of their actual starting times.
7. All entrants must register at least 45 minutes prior to their respective starting times.
8. Entrance fee is \$3.00 per car — same as last year. There is no limit to the number of passengers in a car.
9. Group Regulations:
 - a) Minimum entry: 3 cars
 - b) Maximum entry: 6 cars
 - c) Best three scores will be added for the total group score.
 - d) The lowest group score will be the winner.
 - e) Fraternities (etc) may enter more than one group.

see you there!

Trackmen burn

by Bake

The WPI track team quickly asserted itself in the first week of competition, jumping to a 5-0 record. The victories came in a triangular meet with Colby and Wesleyan on Saturday, and a belated opener, the quadrangular "City Meet" last Wednesday. A beautiful spring day saw Assumption, Clark, and the tough Worcester State clubs come to WPI's track for the annual City championships. The sun shone down on the Engineers, however, with their superior depth amassing 91 pts., to 87 1/2 for State, Assumption's 14 1/2, and lowly Clark with a single point. Some good efforts were turned in by the host WPI squad on a well groomed track thanks to Coach Merl Norcross and the grounds crew. Six first places went to WPI; Jim Howe's 6'1" leap in the high jump, Mike Murphy's 14:39.7 pace in the three mile, a 10.3 burn in the 100 yard dash by John Barghout, Mark McCabe's 151'-5" hammer fling, a solid 15.8 120 HH turned in by Randy Wheeler, and John Neilon exerting himself with a winning 43'-4" triple jump. However, it was the ability to take the second, third and fourth spots that provided for the first wins in the season and yet another City championship for WPI. Worcester State took 11 first places including both relays but the gutsy engineers pulled this one out. The meet was put out of reach on the second to last event, the three mile, which was a WPI sweep. Finishind behind Murphy were John Turpin Pete Kane, and Norm Guillement. Co-captain Pete Sherer grunted out a fine 141'-7" discuss throw just behind WSC's behemoth dual winner Krustapentas. The big point getter was Barghout whose second place long jump and fourth place triple jump complimented his dash performance. Mark McCabe added a third place in the shot put to finish his days work. Other dual place finishers were Wheeler (third, 440 IH) and Neilon (third, 120HH).

On this day the field events outshone the runners. The eight non running events took home 46 points compared to 45 for the ten running events. However it was the total team effort which brought and will continue to bring victory to our fine track team.

Saturday brought a bit of New England together as Colby College came down from Maine and Wesleyan College came from Conn. to WPI for its finest track appearance here. Both teams were sent to their respective corners by a hot WPI squad. The Engineers took nine firsts while compiling 98 points, Colby followed with

eight firsts and 57 pts., then Wesleyan with a couple of firsts and 36 total pts. Once again, John Barghout was the top individual performer taking three firsts. His 21' 4 1/2" long jump, 10.1 100 yd. dash, and 22.3 220 yd. dash all paced the pack. In addition John took a third in the triple jump making him accountable for 17 of WPI's pts. Pete Sherer won his specialty, the discuss, with a final throw of 142' 2". Randy Wheeler swept both hurdle events, burning to a 15.4 120 HH and then outlasting the field with a 58.0 440 IH. Smooth Mike Murphy coasted to a 14:31.1 three mile first. John Holland uncorked a 174'-1" javelin throw and John Neilon vaulted 43' 3" in the triple jump to round out the winners for WPI. Neilon also took seconds in both hurdle runs. Russ Murry finished just behind Barghout in both dashes and exemplified the depth which enabled the Engineers to quickly up their record to 5-0.

After two meets and five victories this WPI team once again is proving to be a patent one. The strength is coming from a number of areas, but the field events are looking particularly impressive. The hard work of the often unnoticed weight men has been reaping benefits. The shot put, discuss, hammer, and javelin have and will continue to provide the muscle for this team. Another obvious strength is the three mile which has taken all but one of the eight places thus far. If weaknesses do seem to present themselves it might be in the relays and middle distances. But co-capt. Chris Owen has taken two third places already and could lead a surge through the rest of the meets. And if the relay teams stay healthy, and learn to pass that wretched stick, the WPI track team will be immense.

City Meet

- Hammer: McCabe (WPI), Chase (WS), Miller (A), Krustapentas (WS), 151'5"
- Pole Vault: Mattison (WS), Marrone (WPI), Worthington (WPI), Brother (WPI), 13'
- Long Jump: Hennigan (WS), Barghout (WPI), Schab (WPI), O'Conner (C), 20'8 1/2"
- Triple Jump: Neilon (WPI), Candella (WS), Hennigan (WS), Barghout (WPI), 43'4 1/2"
- Shot: Krustapentas (WS), Lesser (WPI), McCabe (WPI), Chase (WS), 48'3 1/2"
- Discuss: Krustapentas (WS), Sherer (WPI), Baker (WPI), Pecevich (WS), 143'9 1/2"
- Javelin: Michaud (WS), Holland (WPI), Rheault (WPI), Fearnside (WPI), 175'6 1/2"
- High Jump: Howe (WPI), Panora (WPI), Mattison (WS), tie-Stewart (A), Hennigan (WS), 6'1"
- 440-relay: WSC, WPI, A, 44.2
- Mile: Ouelette (A), Costigan (WS), Szkutak (WPI), West (WS), 4:19.0

SPORTS

- 120 High-hurdles: Wheeler (WPI), Perrin (WS), Neilon (WPI), Belmonte (WS), 15.8
- 440: Bockus (WS), Jennings (A), Owen (WPI); Shields (WS), 50.6
- 100: Barghout (WPI), Murray (WPI), Langston (WS), Robinson (WPI), 10.3
- 880: Costigan (WS), Ouelette (A), Leahy (WPI), Szkutak (WPI), 1:58.1
- 440 Inter. hurdles: Belmonte (WS), Perrin (WS), Wheeler (WPI), Neilon (WPI), 56.1
- 220: Bockus (WS), Murray (WPI), Langton (WS), Winchester (A), 23.3
- Three mile: Murphy (WPI), Turpin (WPI), Kane (WPI), Guillemette (WPI), 14:39.7
- Mile relay: WSC, A, WPI, 3:28.3
- WPI - Colby - Wesleyan

- Hammer: Healy (C), McCabe (WPI), Gray (W), Ruth (C), 163.9"
- Long Jump: Barghout (WPI), Schaab (WPI), Lori (C), Bourgon (C), 21'4 1/2"
- 440 relay: Colby, Wesleyan, WPI, 45.5
- Mile: Overstrom (W), Smith (W), Leahy (WPI), Szkutak (WPI), 4:28.5
- Shot: Bowman (C), Coughlin (WPI), Lesser (WPI), Bolduc (C), 46'11"

- 120 high hurdles: Wheeler (WPI), Neilon (WPI), Mazur (W), Johnson (C), 15.43
- 440: Getchell (C), Dolan (C), Owen (WPI), Dreyfus (W), 51.2
- Javelin: Holland (WPI), Paret (C), Fearnside (WPI), Denney (C), 174' 1/2"
- 100: Barghout (WPI), Murray (WPI), Paret (C), Lodi (C), 10.1
- High Jump: Kazilionis (C), Barer (WPI), Panora (WPI), O'Horo (WPI), 6'2"
- Triple Jump: Neilon (WPI), Anderson (W), Barghout (WPI), Gadilaukas (WPI), 43'3 1/2"
- 880: Ryan (W), Overstrom (W), Monahan (W), Jewkst (W), 2:01.0
- Pole Vault: Crispin (C), Paret (C), Morrone (WPI), Mead (W), 13'
- 440 IH: Wheeler (WPI), Neilon (WPI), Mazur (W), Fearnside (WPI), 58.0
- 220: Barghout (WPI), Murray (WPI), Paret (C), Esposito (WPI), 22.3
- Discuss: Sherer (WPI), Borders (W), Baker (WPI), Ziltz (W), 142'2"
- Three mile: Murphy (WPI), Turpin (WPI), Abdu (W), Guillemette (WPI), 14:31.1
- Mile relay: Colby, WPI, Wesleyan, 3:33.5

Baseball: hit and miss

by SAFA

Well, I had already written a baseball article for this week, on the bus ride back from Hartford but after reading it I decided to can it. It made the game against Hartford University on that Saturday seem like the worst thing to hit since the coming of the competency exam.

Actually WPI lost a tough game in extra innings to Hartford on Saturday, they beat Clark on Friday, and lost to Lowell on Tues.

On Tuesday WPI faced probably the best team they will see all year. Lowell has won 9 straight and beat us 8-2. WPI got only 3 hits, one a line triple by Al Simakauskas. Young Busch started the game and pitched well into the fifth when his tired body just gave up and he started to come high with his pitches. Peter Rowden cleaned up for him and pitched very well.

Friday WPI beat Clark 4-0. Paul Josephson was the story - pitching a 3 hit, 13 strikeout game. WPI played a second game of solid defensive ball followed by a 9 hit attack.

Now for Saturdays game. A definite bummer. We were so close to being 2-2, yet we have to settle for 1-3. It was a great game. The lead was 1-0 WPI in the third 7-2 WPI in the 5th. 7-6 WPI in the 7th. 7-7 in the eighth. WPI was up 8-7 in the tenth and Hartford got two in the bottom of the tenth to win it.

To show how everyone contributed let's go down the lineup. Brian (Chet) Huntley

drove in the first WPI run and had two hits. Scott Fanel had 3 hits and missed a homerun in the tenth by inches when his bid just fell short. Scott ripped the ball day. Tony Fernandes got a sharp RBI single in the 7th to put WPI ahead. Gary Sowa got 2 hits, one a bloop, Texas leaguer, in garbage single to bring in the go ahead run in the tenth. Dan Durbach cranked a homerun. It's got to be the moustache his. George Ferron got two more from Ferron hits at very crucial times. Avakian cracked a double in the ninth with two outs. Al Simakauskas lined a single center to follow Avakian and that would have been the game winning hit except a perfect throw to cut down (HR) Avakian at the plate. Dan Poulliat was on base times.

Don Maki pitched excellent until the 6th when he got wild. Pete Rowden came on in the 6th and pitched excellent. Peter Josephson burnt in the tenth by a walk a double might have been caught and a ground ball single to left through a drawn in line. Pete Pitched a real well coming up with clutch pitches and a fine pick off play.

Well that's about it. A very disappointing day for everyone. I guess we just wait til the next game. This team really good and doesn't deserve a record but that's what it is.

WPI is home Thursday against Bates Saturday against Northeastern, a season is still in sight.

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IMPORTANT NOTICE to Students Intending to Graduate on June 4, 1977

Only those students who have completed all degree requirements as recorded in the registrar's office by 4:00 p.m. on Friday, May 27, 1977 will be eligible to take part in the graduation exercises. It is the responsibility of the student to see that completion of degree requirement forms are in the Registrar's Office by the May 27 deadline which will be strictly adhered to.

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Worcester Polytechnic Institute Chemistry Colloquium

Professor Robert Ricci
Holy Cross College

"Fluorescence Quenching of Aromatics By Carbonyl Compounds"

Goddard Hall 227
Wednesday, April 20, 1977

4:15 p.m.
All Welcome
Refreshments at 4:00

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ON Thursday, April 21, 1977

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ISRAELI DANCING AND FOOD will be part of the festivities R.S.V.P.

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WE HOPE TO SEE YOU THERE!

The Crew

The WPI crew is definitely developing as a crew power. With the hard winter workouts, dedication and psyche shown by the oarsmen, the crew is now getting a chance to prove their strength on the water.

April 2nd a race was held on Quinsigamond, just four days after all the ice had disappeared. The boats did well considering their tremendous disadvantage in water time with Conn. College (most crews had been on the water at least four weeks up to this point). According to coach Dave Ploss, "They wouldn't have touched us had the race been two days later." The varsity four captured the only win of the day for WPI. Personnel in the boat consisted of coxswain Tina Tuttle, Stroke - Wally Catanach, 3 - Bill White, 2 - Brian McCarthy, and bow - George Wespi. The other boats were as follows:

Lightweight eight
cox-Tracy Taylor
stroke-Pierre Fleurant
7-Erik Hedberg
6-Jack Morrison
5-Skip Merrell
4-Pete Clapp
3-Fran Madigan
2-Frank Luttazi
Bow-Jack Tracy

Intermediate Eight
cox-Herb Dunnington
stroke-Doug Muth
7-Dave Johnson
6-Jay Feenan
5-Dave Bowers
4-Scott Booth
3-Andrew Resnick
2-Russ Warnock
Bow-Jim Gobes

Fresh Fours
cox-Tina Tuttle
stroke-Bruce Rotker
3-Jim Liston
2-Tom Storey
Bow-Frank

cox-Herb Dunnington
stroke-Moon Clancy
3-Bob Yule
2-Steve Kapurch
Bow-Will Emmett

Heavyweight eight
cox-Tina Tuttle
stroke-Wally Catanach
7-Bill White
6-Frank Aquadro
5-Brian McCarthy
4-Andy Resnick
3-Russ Warnock
2-George Wespi
Bow-Doug Muth

Intermediate Four
cox-Dave D'Antonio
stroke-Pete Clapp
3-Jim Liston
2-Scott Booth
Bow-Jack Tracy

Lightweight eight
cox-Tracy Taylor
stroke-Pierre Fleurant
7-Erik Hedberg
6-Jack Morrison
5-Skip Merrell
4-Moon Clancy
3-Fran Madigan
2-Frank Luttazi
Bow-Jack Tracy

Women's Four
cox-Chip Saccoccio
stroke-Alicia Murphy
3-Barbara Anderson
2-Grace Crooker
Bow-Joanne Beckett

Intermediate eight
cox-Herb Dunnington
stroke-Steve Kapurch
7-Dave Bowers
6-Bruce Rotker
5-Will Emmett
4-Jay Feenan
3-Bob Yule
2-Tom Storey
Bow-Jim Gobes

This past Saturday the crew traveled to Middletown, CT to compete against UNH and Wesleyan in the Harborough Regatta for the Philip Calhoun Cup. The current was fast so the races went day for the first three races. The intermediate eight won over UNH and Wesleyan with a time of 6:03, the women's four beat Wesleyan clocking a 7:38 and the lightweight eight did Wesleyan and UNH in with a time of 5:45. In the final race of the day, the heavyweight eight, found the barge winning with Wesleyan, UNH and WPI following. The boatings consisted of the following:

Heavyweight eight
cox-Tina Tuttle
stroke-Wally Catanach
7-Bill White
6-Frank Aquadro
5-Brian McCarthy
4-Andy Resnick
3-Russ Warnock
2-George Wespi
bow-Doug Muth

Lightweight eight
cox-Tracy Taylor
stroke-Pierre Fleurant
7-Erik Hedberg
6-Jack Morrison
5-Skip Merrell
4-Pete Clapp
3-Fran Madigan
2-Frank Luttazi
bow-Jack Tracy

Intermediate eight
cox-Herb Dunnington
stroke-Moon Clancy
7-Dave Johnson
6-Steve Kapurch
5-Bob Yule
4-Scott Booth
3-Dave Johnson
2-Jay Feenan
bow-Will Emmett

Women's Four
cox-Chip Saccoccio
stroke-Alicia Murphy
3-Barbara Anderson
2-Grace Crooker
bow-Joanne Beckett

On April 9th the crew traveled to the Connecticut River to race Amherst. Four of the five boats entered won their races with the following items: Heavy eight - 6:34, lightweight eight - 7:06, intermediate eight lost by 15 seconds, intermediate four - 5:38, and the women's four - 7:12. The times for the eights are for an approximate 1200 meter race (usual is 2000 meters) against strong current and head wind. The crews raced a shorter but just as grueling course. All in all it was a very successful day, giving the crew the confidence needed to show how good we are in the upcoming "big" races. The boatings were as follows:



Workout on Quinsig.

We are looking forward to next weekend with high hopes as we race Harvard and MIT in the Davenport Cup on Saturday, April 23rd. This race is at Quinsigamond so why not come down to watch a boat or two? Sunday, the 24th, the crew will be travelling to race URI and we are expecting some good competition there.

You may see a few of us running around trying to get pledges for a rowathon. The

national record as of now is 129 miles and some of us would like to break that. The money raised will be put towards new equipment for the team. All boats will be participating so seek out your oarsmen and pledge them any amount per mile you deem worthy! The rowathon will take place April 30th on Quinsigamond at approximately 8 a.m. Your support will be appreciated - some see us suffer!



Be a bright!

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National Secretaries Week, April 24-30, 1977

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To all students who have obtained tickets for "Godspell" and are not planning to use them: Please turn them back into the Office of Student Affairs. There is a waiting list for these tickets. Thank you.

LUV is coming!!!
April 26th and
May 3rd.

NO ACTING WORKSHOP
until
May 12th.

HOUSING LOTTERY

1977-78

Date	Time	Place	Activity
April 11-19th		Office of Student Affairs/R.A.'s	Pick-up Lottery Cards
April 12-19th	9:00 - Noon 1:00 - 4:00 PM daily	Accounting Office	Pay \$10 Lottery Fee - Have Lottery Card Stamped - Card turned in Office of Student Affairs

ALL LOTTERY CARDS MUST BE TURNED IN BY 5:00 PM on APRIL 19th AT THE OFFICE OF STUDENT AFFAIRS IN DANIELS HALL

NO LOTTERY CARDS WILL BE ACCEPTED AFTER 5:00 PM ON THE 19th

April 21st	6:30 PM	Wedge	Ellsworth & Fuller Draw and apartment selection
	7:30 PM	Wedge	Women's Draw
	8:15 PM	Wedge	Men's Draw
April 28th	6:30 PM	Wedge	Women's room selection
	7:30 PM	Wedge	Men's room selection
May 12-13th	1:00 - 5:00 PM	Ticket Window - Office of Student Affairs	Ellsworth & Fuller - Pay \$50 Apartment Confirmation Deposit and sign contracts
May 16-18th	1:00 - 5:00 PM	Ticket Window - Office of Student Affairs	Men and women sign individual contracts

All students must sign their contracts for residence halls prior to May 19th. Failure to sign contract will automatically result in room being given to the next person on the waiting list.

All Ellsworth & Fuller apartment residents must sign their contracts on May 12 & 13 and pay their \$50 Apartment Confirmation Deposit. All Ellsworth & Fuller apartment residents must be familiar with guidelines established by the Internal Residence Hall Committee.

What's Happening?

Tuesday, April 19

Plant clinic in the Wedge. 10 a.m. to 3 p.m.
Cinemathech presents "Eadweard Mutybridge, Zoopraxographer" and "Film Firsts" in Kinnicutt at 7:30 p.m.
"Godspell" in Alden at 8 p.m.
Golf, away, vs. Assumption and Holy Cross at 1 p.m.
Tennis, home, vs. Clark at 2 p.m.
Baseball, away, vs. AIC at 3 p.m.

Wednesday, April 20

Project Planning Day
JV Tennis, home, vs. Clark at 2 p.m.
Lacrosse, away, vs. Hartford at 2 p.m.
WPISFS presents "The Last Days of Man on Earth" in Kinnicutt at 8 p.m.

Thursday, April 21

Golf vs. Trinity at Wachusett CC at 1 p.m.
Baseball, home, vs. Bates at 3 p.m.
Crew City Championships at Lake Quinsigamond

Friday, April 22

Spring Weekend Nightclub presents "Edmunds and Curley" and "The Great Estate" in Harrington Auditorium at 9 p.m.
Golf, away, vs. Tufts and Clark at 1 p.m.
JV Baseball, vs. Worcester Jr., away, at 3 p.m.

Saturday, April 23

Tailgaters Craft Fair in the Quadrangle at 10 a.m. to 5 p.m.
Chariot Races around Quadrangle begins at 12:30 p.m.
"Orleans" and "Melanie" in Harrington Auditorium at 8 p.m.
Crew vs Harvard and MIT at Lake Quinsigamond.
Track, away, vs. MIT at 12:30 p.m.
Baseball, home, vs. Northeastern at 2 p.m.
Tennis, away, vs. RPI at 2 p.m.

Monday, April 25

WPIC TV presents "Murder in America" and "Football Follies" at 10 a.m., 1 p.m., 3:30 p.m., and 7 p.m. until April 29.
JV Tennis, home, vs. Leicester Jr. at 2 p.m.
JV Baseball, away, vs. Holy Cross at 3 p.m.

Tuesday, April 26

Cinemathech presents "Le Petit Theatre de Jean Renoir" at 7:30 p.m.
Golf vs. Lowell, away, at 1 p.m.
Baseball, home, vs. Wesleyan at 3:30 p.m.



Photo by Mark Hecker

Newspeak

Volume 5, Number 10

Tuesday, April 19, 1977