

# Energy crunch gives heat to solar projects

by Don Calawa  
Newspeak staff

It was a cold, winter day...outside.

## On projects

As WPI Professor Bruce McQuarrie opened the door of his car and sat down upon its seat...it was hot! An

idea clicked inside his head, and in the fashion of a "true Scotsman", he sat down and designed for himself a solar collector in his home. This was the story Professor Richard Olson related to this reporter in describing the creation of an IQP project that now employs the efforts of nine students at Tech. It would seem Prof. Olson and McQuarrie each discovered the other had built a solar unit. The two men began comparing notes and results be-

[continued to page 4]

# PIRG widens IQP offerings

Massachusetts Public Interest Research Group (Mass PIRG) is changing its emphasis from an "extracurricular" group to an academic orientation at WPI. The student-funded, student-directed organization has been here for two years, but next fall will mark the first time IQP's will start with PIRG as a co-sponsor.

"Mass PIRG works on fifteen campuses statewide," reports Steve Lisandrello, Worcester area coordinator.

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# President's award deadline April 6

The annual WPI President's IQP Awards competition will take place this Spring. The awards are given to "encourage and recognize meritorious accomplishment in the performance of the Interactive Qualifying Project." Each award consists of a Certificate of Merit to each student and an Honorarium of fifty dollars to each project. A maximum of five awards are given each Spring, the actual number depends on the variety and quality of the submitted projects.

A five-member awards committee

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# Newspeak

The student newspaper of Worcester Polytechnic Institute

Volume 7 Number 5

Tuesday, March 6, 1979

Living on the edge of reality

-see page 10-

Heating \$\$ going up in steam

# Campus buildings kept at 70° all night

On November 3, 1976 a contract was signed between WPI and Honeywell, Inc. concerning the installation and operation of a \$70,000 computerized system to help make WPI a more energy efficient school during the cold season. Newspeak investigated the situation and found exactly the opposite. By looking at the data collected and verified last week, the conclusion was that the whole heating system is in poor shape, the computer is ineffective, heat sensors have been placed in bad places, broken thermostats have not been repaired and valuable time is being used to "fine tune" the system. The net result is that oil, heat, and our money is being wasted. Every second hesitated is money out of your pocket, and with the tuition hike (which most likely could have been cut with lower energy expenses) every degree counts.

In a taped interview with Newspeak, Mr. Kendrick Barnes, the man who runs the computer, claimed that the computer which controls the heating of the academic buildings (GH, OH, SL, SH, HL, AK) and the dormitories is working correctly. He said that from 8 a.m. to 9:30 p.m. "the basic temperature limits that we set...are 69 degrees - 71 degrees", and from 9:30 p.m. to 8 a.m. "we hold the temperature between 57 degrees and 55 degrees where applicable ... in some places we can't." A WPI Newspeak survey found these figures to be inaccurate. On Wednesday February 28, from midnight to four in the morning a reporter received permission from security to check the temperatures of the buildings on campus. According to Barnes, the upper limit should have been around 57 degrees for that time. In each of the six buildings checked

(see table), the temperatures were, with a few accountable exceptions, more than 15 degrees above the limit

which Barnes had given our reporter. In every building and in many rooms on campus, this discrepancy was no-

ted. In one case the temperature was 24-degrees above the limit. Please remember, the computer is working correctly, and as Barnes said, "now we are at that position where we have to fine tune the thing."

Ever since the computer was installed back in March 1977 and finally put on line in October of that year, it has been plagued with troubles. This past summer it broke down and a new staff at Honeywell introduced a new, and hopefully better program. Just this January it has been working on its own. However, there still are problems, as can be seen by looking at the various temperatures on the chart. Barnes said that in Higgins Lab on Tuesday February 27, the average temperature for all of Tuesday was 78.25 degrees. The programmer told Mr. Barnes that "the computer was looking at a point that was nonexistent." The programmer claims that he has changed it, but Barnes was still getting the same results the next day. "There is something in the program that is stopping it (the computer) from doing it (effectively controlling the heat)." Barnes was asked immediately after that statement what was going to be done - possibly write a new program? He replied, "No, what has to be done is find out where the difficulty lies and correct it. Now the difficulty could be in the programming or can be something mechanical in our own heating system."

There is a reason for the high temperatures. Each of the buildings has one or more sensors which the computer uses to judge whether or not a building needs more or less heat. In many instances these sensors are placed near windows or doors and thus are often below the 69 degree limit. This means heat is continuously being

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# Tuition hike

by Lynn Hadad  
Newspeak staff

"...despite the inflationary pressures we all face, WPI will continue to provide the finest possible education for its students."

The previous is the final paragraph of the formal parents' letter that was released from the president's office yesterday. This letter, which concerns the official verdict on next year's tuition, contains both good and bad news. The good news is that due to recent legislation more people will be eligible for financial aid in the

## Heat for empty buildings

Stratton Hall at 1:30 am 2/28/79

Room	Thermostat Set At	Room Temp.
204	67	74
202	75	73
202 hallway	69	73
309A	broken, heat is coming out	
309B	68	81
304	73	70
106	67	broken, heat is coming out
108	72	75

Atwater Kent at 2:30 am 2/28/79

Room	Thermostat Set At	Room Temp.
hallway	68	68
003	69	67
006	67	76
bottom hallway		72
117	69	69

Goddard Hall at 2:50 am 2/28/79

Room	Thermostat Set At	Room Temp.
Institute Ent.	64	63
Distillery	64	80
Side Entrance	80	65

Olin Hall at 3:15 am 2/28/79

Room	Thermostat Set At	Room Temp.
017	70	70
Bottom Hallway		70
107	65	65
118	73	73
126	69	69
218	69	69
205	68	68

Higgins Lab at 3:30 am 2/28/79

Room	Thermostat Set At	Room Temp.
109	65	63
101	68	72
Student Lounge	68	75
Middle Hallway		74
215	68	69
209	70	63

Stratton Hall at 1:00 am 3/1/79

Room	Thermostat Set At	Room Temp.
309B	69	71
306	63	69
202	69	69
203	67	53 (no heat on-window open)

Higgins Lab at 2:05 am 3/1/79

Room	Thermostat Set At	Room Temp.
130	71	73

Gordon Library at 2:20 am 3/1/79

Thermometers on each floor read the following:

Floor	Thermostat Set At	Room Temp.
1st floor	69	
2nd floor	75	
3rd floor	72	

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# Editorial

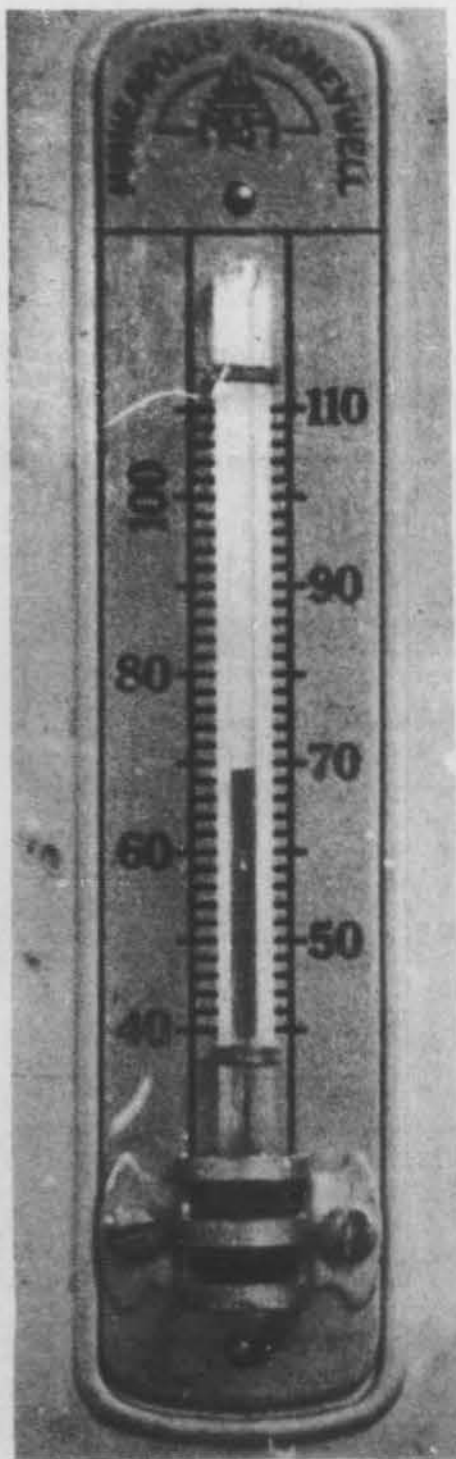
The results of the investigation by WPI Newspeak into the waste of heat on campus did not surprise us, but it did bother us. It was obvious before the investigation that much energy was being wasted on campus. What bothers us is that as a top - grade engineering college WPI should not have the massive problems brought out by our investigation. It is hard to believe that with all of the resources of an engineering school at hand, the people responsible for controlling the heat to campus buildings could not find better help to solve the problems.

It is too easy to blame the computer or the hardware for the waste of energy. The waste has been going on too long and is too much to be tolerated. Our heating system at WPI is in a bad need of repair. The mechanical aspects, like half-inch wide cracks between doors entering buildings need to be fixed immediately. If the thermostats are giving problems why haven't they been replaced? When and if they are replaced they should be replaced by dependable vandal proof equipment. It seems to us that new thermostats could pay for themselves within a short time.

Too much time is being taken to "fine tune" a computer program that should have been working months ago. If the know how to fix the program does not exist on campus, then we should not be ashamed to invest in some outside expertise.

Too much time, energy, and money has been wasted. It's time for the people responsible to get their act together - now.

The Editors



# Letters

## Gong vandals

To the editor:

I would like to thank all who attended, especially the performers and judges, our Gong Show on February 24. The vast majority of comments have been favorable and a good time seemed to be had by all.

Unfortunately one incident can mar a good evening. Many enjoyed going up on stage to arm wrestle with a device brought by my salesman from Atlas Distributors. At the end of the

evening someone decided they should be the new owner of this device. It is expensive and, being on loan to the Distributor, must be replaced. I hope those who have it would please return it. If not returned, the Pub will have to bare most of its replacement cost. I would encourage anyone who has any information about this to see me. Thank you.

Sincerely,  
Glenn H. DeLuca  
Goat's Head Pub Manager

## Footing "Alice's" bill

To the editor:

Many details of the cancellation of the WPI Men's Glee Club showing of "Alice in Wonderland" still confuse and greatly annoy us. First, we would like to know who actually complained of the showing, students or the administration? Of the students we talked to, none voiced disapproval of the movie. In fact, all were in favor of the showing, and stated that those who didn't want to see the movie didn't have to go.

We are also under the impression that permission was granted to show the film, and then in the "final hour" permission was denied by the President's Advisory Council. As far as we know, no students are on this council. Also, it seems that there is a missing check - and - balance system here. This council makes a ruling, and it's final. Is that a correct way of handling a situation? Many of us remember viewing "Emanuelle" (rated X also) last year. What is the difference?

One final factor is the monetary litigation. The Glee Club expected to

make a sizeable profit from this movie to help finance their trip; a worthy cause. However since the ruling was handed down so late, the rental fees for the movie and equipment and advertising were already billed. An exact bill isn't available at this time, but the movie rental was \$500.00 and the advertising was at least \$70.00, so a probable cost for everything was about \$700.00. No problem. The committee said that WPI would pick up the tab for all expenses incurred. This my fellow students, is where we get screwed. WPI doesn't pay; we do, out of our tuition.

So we wind up with a clean bill of health. The students indirectly pay for the movie, but did not get to see it; the Glee Club didn't lose any money, nor did they make any.

If you really think about it, it would have been just as easy to give a "gift from WPI" of \$700.00 to the Glee Club. After all, we paid it anyway.

Respectfully,  
The WPI Student Government

# Newspeak

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WPI NEWSPEAK of Worcester Polytechnic Institute, formerly the Tech News, has been published weekly during the academic year, except during college vacations, since 1909. The editorial opinions expressed herein are the opinion of the person or persons whose name appears at the end of the editorial, and are not necessarily those of the editorial board, or of WPI. Letters-to-the-Editor must be signed and contain a telephone number for verification. Editorial and business offices are located in room 01, Sanford Riley Hall, at WPI. Office hours are Monday, Tuesday, Thursday, Friday: 10-12; Friday: 4-5; Saturday: 11-12; Sunday: 1-5. Copy deadline is noon of the Saturday preceding publication. Printing done by Jeda Corporation, 11 Harvard Street, Worcester, Massachusetts. Second class postage paid at Worcester, Massachusetts. Subscription rate: \$5.00 per school year, single copies 20¢. Make all checks payable to WPI Newspeak.

## More on "Alice"

To the editor:

The following concerns the recent cancellation of "Alice in Wonderland."

"The decision was 'a matter of taste ... a matter of high quality!'" Ray Bolz (Newspeak 2-27-79)

"Bolz explained that W.P.I. has a responsibility ... in remaining a value neutral institution." (Newspeak 2-27-79)

Perhaps I am not at fault in my failure to see how an institution can remain "value neutral" while making decisions based on taste. The contradiction is (or should be) obvious, but perhaps it has never occurred to Raymond Bolz that the only truly "value

neutral" position is neutrality itself. The action taken by the P.A.C. reeks of moral imposition; a task which even my parents no longer pursue. My morals are not yours, Mr. Bolz.

In response to a letter to the editor from Ken Fast I must say this: Clearly the question of what is "decent" is debatable and is, in fact, under constant debate. More important is the question of the seriousness of the difference. Any situation, "decent" or not, which does not impose itself upon members of the public, must not be suppressed if society is to continue to respect the rights of the individual. Any other case constitutes injustice.

Steve Chalke

## Non-productive letters

To the editor:

Published in the last two issues of Newspeak were letters that accuse WPI students of immature behavior (What's In A Name, and Immaturity Unnecessary). Although, I sympathize with the felt need for growth, I am quite annoyed by the nature of these writings and consider them to be non-productive. They are in my opinion "cheap shots" that lack the guts necessary to maintain a responsible community. The choice of language contained in these letters is disrespectful to your readers.

As a member of the WPI community, I wish to be able to address my accusers personally. Therefore, I request that you exercise your authority to insure that all future letters of an accusatory nature be published with the name of their authors. You may, as a result, have less material to publish, but on the other hand you may increase your number of readers.

Please feel free to publish this letter in its entirety.

Respectfully submitted,  
E. Cutter Wyman



## PIRG would shut down WPI reactor

To the editor:

In an organizational meeting on Monday, February 26, Mass. PIRG coordinator Stephen Lissandrello announced that "PIRG is introducing legislation which would essentially make it impossible to run any nuclear reactor."

It was explained that this could concern drastically reducing emission standards, thereby making the cost of nuclear reactor systems prohibitively expensive. When asked if these emission standards would affect President Carter's coal program, Mr. Lissandrello replied "we don't like coal either." Indeed it seems that such legislation would also ban

automobiles, cigarettes, and even the ground in parts of this country (excluding radon gas).

I seriously doubt whether the students of WPI realize that they are contributing \$2.00 per semester per person to aid in the destruction of an important institutional resource: its reactor.

Mass. PIRG is totally student run and student funded. PIRG stands for Public Interest Research Group, but is not operating in the WPI community's public interest. NOW is the time for concerned student of WPI to demand that PIRG at WPI reflect WPI's position on nuclear power.

Chuck Bleakney

## Reply to decency at WPI

To the editor:

Ken Fast's letter of the 27th deserves comment.

Do you live in a nice little world where sin is neatly defined and sexual fantasy is redeemable for Hellfire? Relax, my fiend, you're not alone, 'cause you got dat ole religion. You are granted self-righteousness, the right to peddle your beliefs as THEY way, and ultimate escape from argument through scriptural quotation (good morning, Praise the Lord!). Should you ever really get stuck, just remember your "faith" and say, "It's God's Mystery." A.N. Whitehead said that the people of any religion always feel spared the rigors of theological inquiry, having been lucky enough to

be born into the one TRUE faith. See my point?

The apathy and collapse you so fervently joust at are merely the ever retreating horizons of yesterday's eternal truth. When eating meat on Friday was de-sinned by the infallible Pope, George Carlin joked about people still in hell, "doin' time on a meat rap." The biggest wrongs I see are the people who preach what is right. The people I respect are the ones who use their God-given minds to think and question their beliefs, to strive for the personal values that will let them grow — and that includes the right to watch a film that would make the God Squad blush.

Jim Fife

### February 28th meeting

## Executive Council minutes

The Executive Council meeting of February 28, 1979 was called to order at 4:30 p.m. in the Student Affairs Office by President Jeff Boike.

The attendance was taken and the unexcused absences were: Tom Storey — Class of '80 Rep.; Tom Cotton — IRHC; Dan Pouliot — CHS.

The minutes of the previous meeting were read and approved by a 2/3 majority vote.

### Committee Reports

#### IFC

The new IFC constitution was passed two weeks ago. Election results for the new IFC officers are as follows: President — John Wilbur (FIJ); Vice President — Frank Debonis (KAP); Secretary — Kathy Coughlin (OEE); Treasurer — Mike McGuinness (OX); Rush Chairman — Dan Hurley (SAE); Activities Chairman — Pete McLain (ZY).

#### SAB

Elections for the new SAB chairman will be held February 28, 1979.

#### Social Committee

The Kinks concert is a sellout while the Winter Weekend Nightclub is not quite as successful.

The Programming Board meetings for the Social Committee are scheduled for Tuesdays at 11:00 am.

#### Old Business

Students from the college in Massachusetts chartered buses to the Senate meeting for the passing of the bill to change the drinking age to 21. This was planned by Mass. PIRG and the Student Body Presidents of the colleges in Massachusetts. There was a good turnout of college students and the passing of the bill was delayed.

The new Student Government constitution was submitted to Newspeak and will be printed in the first possible publication. Voting of the new constitution by the Student Body will be taken care of by the new Student Government.

#### New Business

The elections on February 19, 1979 will be classified as a special election because the Student Government Of-

ficers, the Class Officers, Junior Prom Chairmen, and the Campus Hearing Board members will all be elected at the same time. Petitions must be picked up by the candidates in the Student Affairs Office. Each candidate will receive a copy of the Election ByLaws. The Student Government is making every possible attempt to alleviate any problems in the election procedure this year.

Discussion was held concerning the issue of the cancellation of the film "Alice in Wonderland". The authority of a college (the Presidential Advisory Committee) to cancel an X-rated film was questioned. More importantly, was the method in which this was done. Unanimously, it was decided that the cancellation was poorly handled and appropriate action will be taken.

There will be an open Student Government meeting on March 7, 1979 at 4:30 p.m. in the Student Affairs Office.

A motion was made and seconded to close this meeting. The motion passed by a 2/3 majority vote, and the meeting was adjourned at 5:15 p.m.

Respectfully submitted,  
Hannah Halliday  
Secretary

## Correction

In last week's Newspeak article entitled "Dean Reutlinger leaving in June", one of the printed quotes by Dean Reutlinger contained a typographical error. In answer to the question "Have you thought about plans for next year?" Dean Reutlinger's reply was "I was to take some time off, if I can. I've been restoring, for 15 years, a revolutionary war house in New Salem."

WPI Newspeak regrets the error.

## Amnesty International

by Arman GorKani  
Newspeak staff

On Tuesday February 13, 1979 there was an Amnesty International meeting concerning the formation of an adoption group in Worcester. The meeting was held at the Worcester Telegram and Gazette building on Franklin St. Amnesty International is a worldwide organization working on the release of prisoners who have been arrested because of their color, political ideas, religion, etc. This non-governmental organization was founded by English lawyer Peter Benison in 1961. He wrote an article in a newspaper, *The Observer*, called "Forgotten Prisoner". By 1962, A.I. became a permanent organization with centers in West Germany, Sweden, Britain, and other western countries. The establishment of the U.S. section took longer. As the speaker in the meeting explained, this was because "Americans don't know what the knock at the door means." European countries and most of the other countries in the world know this "knock" better. A.I. groups exist in many states, for example: Michigan, Atlanta, Virginia, New Orleans, New York, and Massachusetts. These sections form adoption groups. An adoption group is a group of 10-12 people working on cases which have been researched by the international secretary in London. The group writes to the leaders of the particular country, to the prisoner him/herself, and to his/her friends. The result has been the release of over 13,000 prisoners in the last 17 years. Of course, this is nothing compared to the number of political prisoners in the world and A.I. does not be-

lieve that these releases have been only due to A.I.'s struggles. But these letters show that it is known that these particular prisoners exist and there exists an organization that cares.

A.I. works on three main directives:

1. Gain the release of prisoners.
2. A stop to torture: A.I. has the proof that shows an international trade on instruments for torture exists.
3. A stop to capital punishment.

After 17 years of voluntary work, currently A.I. is an organization of 200,000 members with 2,000 adoption groups all over the world. The section in the U.S. has 160 adoption groups plus 40 on-campus groups and 400 church groups. With an increasing concern over human rights in other countries, the U.S. congress can cut the arms sent to any country that practices torture and other violations to human rights. The lecturer stated that although the U.S. congress has shown some concern, "The U.S. government has been training people for torture and has protected dictatorships all over the world and that is a dilemma for the U.S. section." A.I. sometimes feels that citizens of other countries are very pessimistic about A.I. sections in the United States. To show neutrality and independence A.I. does not receive any money from any government. Also, A.I. does not receive more than 5 percent of its budget from any single source.

The adoption group in Worcester is on its way to beginning its work. There exists a chance to form an adoption group on our campus. If you want further information concerning the organization, please feel free to contact me.

### WPI Newspeak Association

## Constitutional changes

A motion has been made to amend the Constitution of the WPI Newspeak Association as follows:

1) Strike the line "the above members, called Senior Members, comprise the Editorial Board of the WPI Newspeak Association," from Article 2, Section 1

2) Strike the line "All of the above shall be known as Associate Members" from Article 2, Section 2.

3) Change Article 3, Section 2 to read "The News Editor, Features Editor (or News-features Editor), Photography Editor, Sports Editor, Business Manager, and Managing Editor shall have three (3) votes each in all matters voted on by the Editorial Board and/or

The Association, The Advertising Manager, Graphics Editor, Circulation Manager, and Associate Editors shall have two (2) votes each in all matters voted on by the Editor Board and/or The Association. However, in positions where there is more than one person, their votes shall be divided among members in that position.

4) Strike Article 3, Section 3.

5) Change the number of Article 3, Section 4 to Article 3, Section 3. These Amendments require approval by 3/4 of the entire Association to be passed. They will be voted on by the Association through ballots which are due in WPI Box 2472 before noon Friday, March 9.

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### FIRST REJECTION LETTER NITE

(more to come)

Each letter good for a FREE draft

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Thursday, March 8th 8-12 p.m.

The proposed WPI Student Body Constitution appears on page 8.

There will be an open Executive Council meeting on March 7, 1979 at 4:30 p.m. in the Student Affairs Office.



# ...Solar IQP'S

[continued from page 1]

tween their respective equipment. Last year, as faculty mused over the possibilities of various projects, Professor Paul Davis suggested to the two men, "You've got a natural IQP" -- and so they did!

As Olson outlined it, the purpose of the projects is to come up with some useful, practical information and ideas on low-technology solar space heaters. "(It would be) something that any hack could build for himself," Olson said. To accomplish these ends, nine students are spread among three individual collector projects. A window-box solar unit is attached to the window of a house at the corner of Park Avenue and Institute Road, next to the Tech Market. There, WPI juniors Fred Mirabelle and John Marshall gather data on its performance.

Another set-up rests on the top of Stratton Hall, this one utilizing two flat-box collectors, adjustable to different angles of elevation. Chemical Engineering juniors Chuck Crowley, Steve Tarantino and Dave Fecteau are collaborating on this area. The third group, composed of Bill Murtha, John Pierro and Russ Ellis have their twin-collector "greenhouse" on the roof of Daniels Hall, where the infamous windmill MQP resided last year. These last two solar stations make use of dual matched collectors: one kept for testing different inner components, and one that is kept as a control on the experiment. One additional student not previously mentioned, Steve Younis, is a Civil Engineer at Tech who will be handling the cost specifications for all three sets of collectors, when the eventual selection of best designs is finalized.

These men expect to amass critical information with which to calculate the number of BTU's (British Thermal Units -- a measure of heat required to raise the temperature of one pound of water by one degree Fahrenheit at or near its maximum density) per

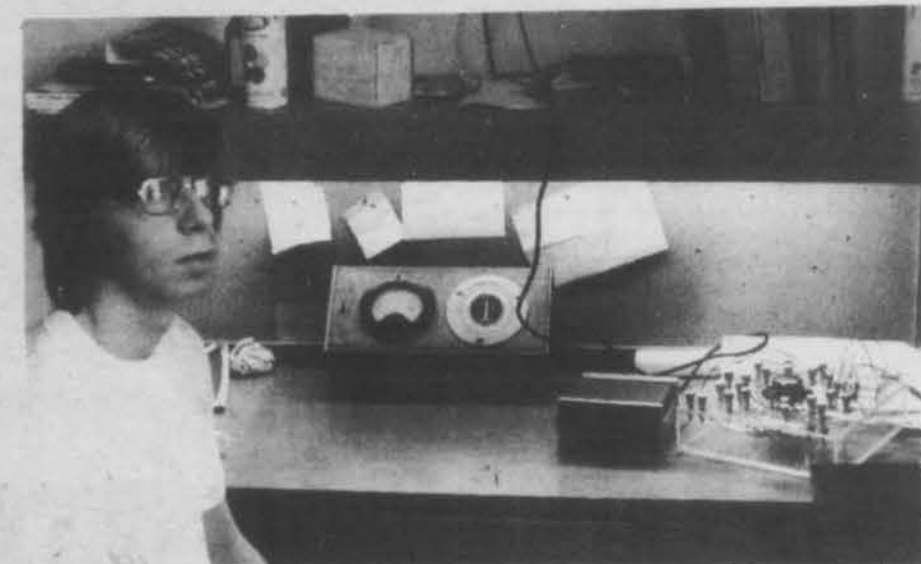
hour per square foot of collector surface. The variable they will be testing for specifically will be the use of several assorted chamber baffles to enable the circulating air to obtain optimum heat transfer characteristics

within the collector. By comparing the results derived among the three groups, the IQP workers hope to define a practical, low-technology, low-cost solar air heater.

WPI Newspeak conducted an inter-



-Leon Droby



John Pierro

-Leon Droby

# ...PIRG IQP'S

[continued from page 1]

"At most of them students have enough spare time to work with us outside of classes. At WPI that isn't so." Lissandrello felt that the combination of seven-week courses with high academic standards makes it impossible for most students to do additional non-credit work in the public interest.

"I know that students here are at least as concerned with the environment, energy policy, and consumer rights as those at any other Mass PIRG campus. They need the chance to work on these issues within the academic framework. That's why we're looking

to co-sponsor IQP's" said Lissandrello. A meeting Feb. 26 resulted in six IQP's for next year. For the rest of the term conferences will be held with other IQP groups to determine whether cooperation with PIRG might benefit them as well.

"The benefits are substantial," said Lissandrello. "An IQP with PIRG will never gather library dust. Students will present their results as legislative hearings, legal interventions, statewide media campaigns. Their projects will help change the law. There's nothing more relevant than that." For its part, Mass PIRG will have a voice in many more issue areas than it could

have sponsored on its own. And, for the first time they will have an effective presence at the school.

"Mass PIRG is a student-run organization and to be effective the students must be willing to run it," Lissandrello summed up. "People at WPI working with us on IQP's and other credited projects will also have the opportunity to help direct the policies and direction of a major statewide activist organization. That's no small opportunity."

Mass PIRG is located in the Project Center. Office hours are 11 a.m. to 1 p.m. on Mondays, or by appointment by calling Steve after 5 p.m. at 753-1292.

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### NUCLEAR POWER MANAGER

NAVY OFFICER PROGRAMS

575 Technology Square Cambridge, MA 02139

view with Bill Murtha (ME, '80), who resides in Daniels Hall, three stories below his sun-powered heater. Bill's desk is cluttered with the electro-mechanical paraphernalia of the project. A red digital display sits silently on that desk, showing the temperature of one of the solar units.

Bill, and John Pierro, who is collaborating with Bill on the work, were friends back in their high school in Bristol, Connecticut. There they had a physics teacher who was experimenting with solar energy. After coming to WPI, and while searching for an IQP, they found Prof. s Olson and McQuarrie's project proposal for a solar space heater.

Bill's personal objectives for their project are three-fold. First, he charts a day-by-day record on weather conditions and temperature differences between air entering and leaving the heat chamber of the element. Second, he plans to tally up information on the use of different materials as air baffles within the element. He has already tried the collector: without any baffles (plain), with steel plates, and with aluminum foil. Lastly, Bill hopes to write some sort of short presentation or pamphlet on their collector's properties. Their ambition is to display the work at a solar energy fair, if one is held this year. (In this, Bill make reference to "Sun Day", sponsored by Massachusetts Electric last year.)

Several problems affected Murtha and Peirro's project -- not the least of which was, as Bill stated it, "finding a place to put it". After a brief scramble around campus, they were assisted by Gordon Fuller, manager of Student residence Services, who let them set up on the roof of Daniels Hall at the end of B-term last year. They began collecting readings from the unit in the last week of that term, when more trouble came.

The duo had stored the monitoring equipment in the fan room on the roof of Daniels, but the door there was broken, and they had to enter the room from a window on the roof. Apparently, for reasons unknown, maintenance men had come up and found the door broken. The two techies were blamed, and summarily kicked out of the fan room.

The relocated headquarters in Bill Murtha's room on Daniel's second floor, posed another problem: wiring. After a bit of wrangling from one of the labs, the guys were able to obtain enough thermocouple wiring to meet their purposes. Yet a further obstacle and exercise in patience lay in procuring the necessary instrumentation equipment. The digital readout display must be checked out daily from the mechanical engineering department, as well as a special switching box that enables them to take readings of both collectors at input and output air ducts. Bill told Newspeak that he was really surprised to learn of the many available resources on campus. "You can find anything here if you look hard enough."

The most damaging opponent to the whole project area, however, has not been bureaucracy but the weather bureau. Worcester is known for its hazy days in mid-winter. One would almost suspect Bill and John to be secret fans of John Denver. "Sunshine --almost always -- makes me high..."

# ...Awards

[continued from page 1]

will judge the IQPs. The committee consists of WPI President Edmund T. Cranch, one WPI faculty member, one WPI graduate, and two persons not associated with WPI.

Projects may be submitted anytime after their completion, but the deadline for entering is April 6, 1979. Awards will be made on May 1, 1979. An awards banquet will be held on May 10.

For additional information on the President's IQP Awards contact Prof. Jim Demetry or Dennis Lipka at the Project Center.



# Music eases test's tensions

(CPS) — If you want to do well on a test, maybe you should take it while listening to music.

Dr. B. Everard Blanchard of Chicago's DePaul University says that

students who listen to music while filling out their test books generally are less anxious and get higher grades than those who don't have music in their classrooms.

According to Zodiac News Service, Blanchard divided 254 DePaul students with similar academic skills into three groups. He gave them all an exam, but had one group labor in silence while another group listened to classical music, and a third group heard rock music.

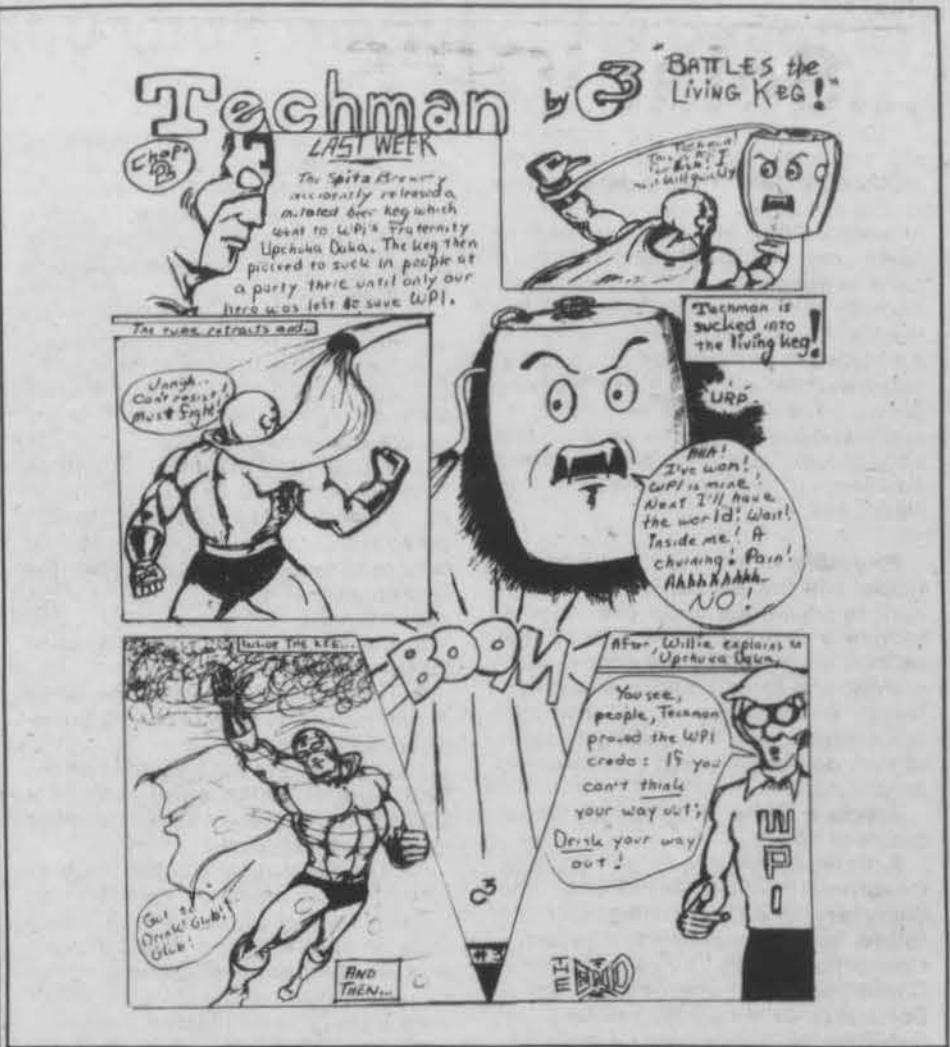
The two groups listening to music, it turned out, had lower blood pressure and pulse rates during the test than the students who didn't hear music. They also ended up with higher grades on the test.

# Dance-a-thon

Disco dancing will serve as a fund-raising event to support Easter Sale Telethon efforts which will take place on Channel 27 during the weekend of March 24-25. Discussing plans are from left, Ken Van Camp, Fred Astaire Studios; Jim Schakenbach, Radio 14Q; and Phi Gamma Delta students Greg Glod and Bob Segarra. A disco dance-a-thon will be held at the *Rendezvous*, Worcester Center on Saturday, March 10.



The WPI Wireless Association will hold a meeting on Friday, March 2 at 4 p.m. in the Library Seminar room.



**Worcester Polytechnic Institute  
MODERN PHYSICS FILMS**

Wednesday, March 7  
11:00 a.m. and 7:00 p.m.  
Physics Lecture Hall, OH 107

**"Positron-Electron Annihilation"**  
(28 min.)

In the annihilation process the total rest energy of a positron-electron pair is converted into the energy of photons. Stephen Berko demonstrates and explains this transformation and the reverse process of pair creation.

**"Anti-Matter"**  
(11 min.)

Through animation and theoretical discovery and subsequent experimental investigations into the existence of anti-matter are outlined. Concluding the film are various theoretical extensions suggesting an anti-universe with anti-time.

# Fred Astaire

## DANCE STUDIOS

# Easter Seal

**SATURDAY, MARCH 17<sup>TH</sup>**  
Call 755-8635

# donate & dance

Contact: **JOE CELENTANO**

PHI KAPPA THETA  
752-9371

- LARGE DISCO CLASS \$2.00/PER
- SMALL CLASS (16 PEOPLE) \$3.00/PER
- PRIVATE 1/2 HOUR (DISCO) \$5.00
- PRIVATE 1/2 HOUR (BALLROOM) \$10.00

**PLUS**

A GIGANTIC PARTY THAT SAME EVENING FROM 8:30 TILL MIDNIGHT. DISCO AND BALLROOM DANCING, PRIZES AND EXHIBITIONS.

ALL PROCEEDS WILL BE DONATED TO

# Easter Seal

531 MAIN ST. (BALLROOM) 2<sup>ND</sup> FLOOR

17 FEDERAL ST. (DISCO) 1<sup>ST</sup> FLOOR

**St-Cyr**  
**Hair & Face Place**  
235 Park Avenue  
Worcester, Mass. 752-2222

Tues: PERMANENTS  
Reg. \$30.00 NOW \$19.50

Wed: RESTYLING  
Men-reg. \$10.50 NOW \$7.00  
Women-reg. \$15.50 NOW \$10.50



# Proposed WPI Student Body Constitution

The following is the proposed student body Constitution completed January 23, 1979. It has been reviewed by the Executive Council and is being printed so that the student body at large may review it. Should anyone have suggestions or questions concerning this document please send them to Student Government Box 2514. As stated in the new proposed Constitution there will be an open meeting before the general election for ratification is held. The date of this open meeting has yet to be determined however it will be advertised in Newspeak.

**Preamble:** In order to more fully participate in the education process of WPI, to encourage wider and more effective communication among the various segments of the school community, and to help foster an environment of student concern and achievement, we, the undergraduates of WPI do hereby adopt the following constitution:

**Article I: Name:** The Student Government of WPI

**Article II: Members of Student Government:** The President; the Secretary; the Chairpersons of the following organizations: Academic Committee, Campus Hearing Board, Committee of Concerned Students, Dormitory Advisory Committee, Intrafraternity Council, Social and Fine Arts Committee, and Student Activities Board; the class officers; the independent representative.

1. Each and every of the above organizations listed shall have the right to form temporary or permanent subcommittees from among the WPI community in a manner the organization shall prescribe.

2. No organization shall infringe upon the powers and duties of any other organization; in such case of infringement the Executive Council shall determine jurisdiction by a majority vote.

3. Each organization shall meet in quorum at least once per school calendar month to transact its business.

4. Each organization must give at least three (3) days prior notice of all meetings through the school newspaper and/or Student Government bulletin board.

5. All organizational meetings shall be open to the WPI community unless closed by a 2/3rds majority vote of the organization in which case only the persons in a given case may be present in addition to the members of that organization.

**Article III: Class Officers**

**Section A: Membership**

The officers of each undergraduate class, i.e. freshmen, sophomore, junior, senior, shall consist of a President, Vice-President, Secretary, Treasurer and Class Representative.

**Section B: Powers and Duties**

The Class officers shall provide information to each represented class on all pertinent activities said class is involved in or planning. In addition, each class representative shall attend all EC meetings to report on class progress and to relay information from the EC to each class.

**Article IV: The Executive Council**

**Section A: Membership**

This organization shall consist of the President and the Secretary of the Student Government; class and independent representatives; and the Chairpersons of the following organizations: Academic Committee, Campus Hearing Board, Committee of Concerned Students, Dormitory Advisory Committee, Intrafraternity Council, Social and Fine Arts Committee, and Student Activities Board.

**Section B: Powers and Duties**

1. The EC shall establish and define all rules for the Student Body Government. Copies of all such rules shall be available to all members of the WPI Community. The EC shall be the final authority in all matters of Student Government with the exception of judicial decisions and a majority vote on a student referendum or amendment (see Article VI).

2. It shall require written reports from all its members at each EC meeting.

3. It shall have the power to appoint special committees.

4. It shall have the power to create joint committees to work in areas which fall under the jurisdiction of more than one organization of Student Government.

5. It shall recommend action to the organizations of Student Government.

6. It shall have the power to order, by a 2/3rds majority vote of all its members, an organization of the EC to act upon a specific problem.

7. It shall have the power to remove from office by a 2/3rds majority vote of all its members any member of the EC on written notice, who by neglect of duty or otherwise, tends to impair the usefulness of his/her organization and/or the EC.

8. It shall make any necessary committee appointments.

9. The EC shall supervise the filling of any vacancies in the Student Government for any reason.

10. It shall have the final vote on the SAB Budget which shall require a 2/3rds majority vote of all its members in order to be approved.

11. The EC may by a 2/3rds majority vote of all its members invalidate an election for just cause within 5 school days of said election. In such case another election must be held within 10 school days of the date on which the election was invalidated.

12. The EC may by 2/3rds majority vote of all its members propose amendments and referenda.

13. The EC may by a 2/3rds majority vote of all its members override a President's veto.

**Section C: Meetings.**

1. Meetings of the EC shall number not less than two (2) per school calendar month. All meetings of the EC shall be opened to the WPI Community unless closed by a 2/3rds majority vote of those members present. In the event a meeting is closed, a school newspaper reporter shall be permitted to attend but shall not be permitted to participate in any discussion during the meeting.

2. In the case of open meetings, written public notice shall be given at least three (3) days before such meeting through the school newspaper and/or Student Government bulletin board.

3. For an EC meeting to take place there must be a quorum of at least 2/3rds of the EC members or their proxies.

4. All meetings of the EC shall be governed by Roberts Rules of Order where applicable and not in conflict with the Constitution and/or ByLaws of the Student Government.

5. The EC is responsible to maintain permanent records of all its meetings. These records shall be available to all members of the WPI Community.

6. The EC may elect, by a 2/3rds majority vote, to hold a closed session in which only the principles in a given case may be present in addition to the EC and the one reporter (see Article IV Section C-1).

**Article V:** Any power not specifically prohibited by this Constitution and its ByLaws shall not be deemed contrary to the Constitution and its ByLaws.

**Article VI: Amendments and Referenda**

Amendments and referenda may be proposed by a 2/3rds vote of the EC (see Article IV Section B-12) or by a petition signed by at least 25 percent of the current voting population (see Article VII Section 5). An amendment or referendum shall require for adoption a 2/3rds majority of votes cast in a general student election. Such vote shall be preceded by a period of full discussion and explanation of the issue and the display of the proposed amendment or referendum for at least one week. All amendments and referenda are effective upon adoption.

**Article VII: Student Rights**

1. Any full time undergraduate student enrolled at this Institution is eligible to vote in general elections and shall be considered eligible for Student Government as specified in this Constitution and its ByLaws.

2. Students are qualified to vote in nongeneral elections as defined in this Constitution and its ByLaws.

3. Any student who was an official candidate for any of the seats on Student Government can protest an election. The protest must be filed in writing with the EC within three (3) school days of the election. Upon receipt of the protest the EC may invalidate or rule the election valid (see Article IV Section B-11) and the Election ByLaws).

4. Students may also initiate the removal of an EC member. The complaint must be signed by at least 25 percent of the current voting community. Upon receipt and verification of the petition by the EC, the member shall be removed from office.

5. Students may also propose amendments and referenda by a petition signed by at least 25 percent of the current voting community.

**Article VIII: Ratification of this Constitution and its ByLaws shall be by a 2/3rds majority of votes cast in a general election following a period of two weeks during which this Constitution and its ByLaws will be displayed and explained in open meeting and publication. This Constitution and its ByLaws shall be effective immediately upon ratification and shall supercede all others.**

## PROPOSED CONSTITUTION BYLAWS

**Article I: Officers of the EC of Student Government**

There shall be two officers of the Executive Council of the Student Government, namely the President and the Secretary.

**Section A: Powers and Duties of the President.**

1. The President shall serve as the Chairperson of the EC. As such, he/she shall have the usual duties associated with that office.

2. The President shall preside at all EC meetings.

3. The President shall be a non-voting, ex-officio member of every standing organization of the Student Government.

4. The President shall work closely with other organizations in an effort to achieve success in the policies of the Student Government.

5. The President shall have the deciding vote during EC sessions in the case of a tie.

6. The President shall have the power of veto over the actions of any organization of the EC; however the EC has the power to override the veto (see Constitution Article IV Section B-13).

7. The President shall have the power to call special meetings of the EC as he/she deems necessary.

**Section B: Powers and Duties of the Secretary**

1. The Secretary shall be responsible for notifying the members of the EC of the time, place, and agenda of its meetings and providing the minutes within 5 school days of each meeting whenever possible.

2. The Secretary shall act as the Chairperson of the EC in the absence of the President.

3. In the case of permanent absence of the President, the Secretary shall act as the President until further action is taken by the EC.

4. The Secretary shall be responsible for maintaining an updated copy of the Constitution and its ByLaws should any amendments or referenda be made.

**Section C: Term of Office**

1. The President and Secretary shall serve for one year from the time they assume office during the first week of D Term.

2. If, for any reason, either officer is unable to continue to serve, he/she shall provide two weeks written notice to the EC.

3. Each is responsible for meeting with the outgoing officer he/she is replacing at least once between his/her time of election and the time he/she assumes office. He/she is also responsible to attend at least one EC meeting during said transition period.

**Section D: Qualifications**

1. The President shall be a full time junior at the time of his/her election and in academic resident for four of his/her four terms of office (excluding E Term).

2. The Secretary shall be either a full

time junior or sophomore at the time of his/her election and in academic residence for four of his/her four terms of office (excluding E Term).

**Section E: Method of Nomination and Election**

1. At the beginning of C Term any qualified student seeking either office must produce a petition signed by at least 50 full time undergraduate students of WPI. These petitions must be submitted to the EC in person on the Thursday of the second week of C Term between the hours of 12 noon and 6 p.m. in the Student Government Office. All petitions are subject to verification.

2. Within one week of the receipt of petitions a general primary election will be held to limit the number of candidates to a number specified by the EC. The EC may elect by 2/3rds majority vote to eliminate the primary.

3. During the fourth (4) week of C Term a general final election will be held. In the case of a tie the EC shall determine the winner.

**Article II Class Officers**

There shall be five class officers per class, namely President, Vice-President, Secretary, Treasurer, and one Class Representative

The Class Officers are responsible for the usual duties assumed with such office, such as use of class dues, and problems dealing within a specific class. They are responsible for keeping the members of their respective class informed of their actions.

**Section B: Powers and Duties of the Class Representatives**

The Class Representatives shall report the activities of their respective class to the EC and vice versa.

**Section C: Term of Office**

1. The Junior and Sophomore Officer shall serve a full year term concurrently with the President of Student Government. Seniors will serve through the school year in order to fulfill obligations to the class. Freshman Class Officers shall serve from the time of their election to the first week of D Term of that academic year.

2. If, for any reason, he/she is unable to continue to serve he/she shall provide two weeks written notice to the EC.

3. Upperclass Officers must meet at least once with the outgoing Officer he/she is replacing between his/her time of election and the time he/she assumes office. In the case of Class Representatives, they must attend at least one EC meeting during said transition period.

**Section D: Qualifications**

Any full time undergraduate is eligible to seek nomination from within his/her class based upon date of attrition. He/she must be in academic residence for at least 3 or the 4 terms of office (excluding E Term).

**Section E: Method of Nomination and Election**

**1. Upperclass Officers**

a. At the beginning of C Term, any qualified student seeking office must produce a petition signed by at least 50 full time undergraduate students of the same class based upon date of attrition. These petitions must be submitted on the Thursday of the second week of C Term in person to the EC between the hours of 12 noon and 6 p.m. in the Student Government Office. All petitions are subject to verification.

b. Within one week of the receipt of petitions a primary election will be held to limit the number of candidates to a number specified by the EC. The EC may elect by a 2/3rds majority vote, to eliminate the primary.

c. During the fourth week of C Term a final election will be held. Students may cast votes only for those candidates in the same class based upon attrition. In the case of a tie the EC shall determine the winner.

**2. Freshman Class Officers**

a. At the beginning of A Term, any qualified student seeking office must produce a petition signed by at least 50 full time undergraduate freshmen based upon attrition. These petitions are to be submitted on the Thursday of the fourth week of Q Term in person to the EC between the hours of 12 noon and 6 p.m. in the Student Government

[continued to page 8]







# ...Constitution

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**Office.** All petitions are subject to verification.

b. Within one week of the receipt of petitions a primary election will be held to limit the number of candidates to a number specified by the EC. The EC may elect by a 2/3rds majority vote to eliminate the primary.

c. By the end of A Term a final election will be held. Only those students who are freshmen based upon attrition may cast votes for the candidates. In the case of a tie, the EC shall determine the winner.

**Article III: Independent Representative**

## Section A: Powers and Duties

The Independent Representative is responsible for the initiation and execution of actions pertaining to the independent as well as commuting student body. He/she is responsible for reporting those concerns and actions to the EC and vice versa.

## Section B: Term of Office

1. The Independent Representative shall serve a full year term concurrently with the President of Student Government.

2. If, for any reason, he/she is unable to continue to serve, he/she shall provide the EC with two weeks written notice.

3. He/she is responsible to meet with the outgoing representative at least once between the time of his/her election and the time he/she assumes office. He/she must also attend at least one EC meeting during said transition period.

## Section C: Qualifications

The Independent Representative shall be a full time undergraduate student who is not a member of nor a pledge for any Fraternity or Sorority. He/she must also reside off campus, i.e., not in any WPI owned complex or Fraternity or Sorority House. He/she must be in academic residence for at least three of the four terms of office (excluding E Term).

## Section D: Method of Nomination and Election

The method of nomination and election is the same as Article II Section E-1 except that the students who may sign petitions and vote must also reside off campus and/or not be a member of nor a pledge for any Fraternity or Sorority.

## Article IV: Academic Committee

### Section A: Membership

The membership shall consist of the student members of the standing Faculty Committee and the Ad hoc Committee as specified in the Faculty Constitution.

### Section B: Powers and Duties

The Academic Committee shall serve as the official liaison between students, faculty and administrators in all matters of academic nature. The Committee shall gather student opinion and evaluate further implementation of the Plan. This information shall be communicated to the WPI Community at large. The Committee also has all those powers and duties as specified to them by the Faculty Constitution.

**Section C: Term of Office, Qualifications and Method of Appointment** shall be defined in consistency with the Faculty Constitution.

### Section D: Chairperson

The Chairperson shall be a junior at the time of election. He/she shall be elected from within the Committee by the 4th week of C Term and shall serve concurrently with the President of Student Government. He/she is responsible for meeting with the outgoing Chairperson and attending at least one EC meeting between his/her time of election and time of assuming office. If, for any reason, he/she is unable to continue to serve, he/she shall provide the EC with two weeks written notice.

## Article V: Campus Hearing Board

The WPI Campus Judicial System is defined as ratified by the student body in June, 1972. ByLaws for the Chairperson are the same as defined in Article IV Section D.

## Article VI: Committee of Concerned Students

### Section A: Membership

The Committee of Concerned Students shall consist of any students

interested in becoming actively involved in campus planning.

## Section B: Powers and Duties

1. The Committee shall be free to inquire into any areas of the WPI Community to provide input or to initiate change or suggest additions.

2. The Committee shall involve as many members of the Community as possible, including administrators, faculty, staff and students; the Committee shall strive to maintain a high level of communication between these elements of the Community.

## Section C: Chairperson

1. The Chairperson shall be a sophomore or junior at his/her time of election. He/she must be in academic residence for at least 3 of the 4 terms of office.

2. The Chairperson shall be responsible for coordination and communication of committee work. He/she is responsible for reporting to the EC all actions of the Committee.

3. The Chairperson shall serve a full year term concurrently with the President of Student Government. He/she is responsible to meet with the outgoing Chairperson and to attend at least one EC meeting between his/her time of election and the time he/she assumes office. If, for any reason, he/she is unable to continue to serve he/she shall provide the EC with two weeks written notice.

4. The Chairperson shall be elected from within the Committee no later than the fourth week of C Term.

## Article VII: Dormitory Advisory Committee

### Section A: Members

The Committee shall consist of the following student representatives: two from Daniels Hall; two from Morgan Hall; two from Riley Hall; two from Stoddard Complex; two from Ellsworth/Fuller Apartments; one from 25/28 Trowbridge and 16 Elbridge Street; one from the Resident Advisor Staff; one Chairperson. Should there be additional or deleted WPI Housing the EC shall determine additional or deleted representatives respectfully.

### Section B: Powers and Duties

1. The Committee shall serve as the official forum for residential complexes concerning residence policies. The Committee shall initiate studies of specific residential problems and recommend policies to meet them.

2. The Committee shall be responsible for developing the following year's Housing Code and making the recommendation to the Office of Student Affairs for approval.

3. The Committee shall be responsible for developing and executing the Housing Lottery.

4. The Committee shall have the duty of making the Housing Code, Lottery and any other related information known and available to all interested members of the student body.

5. The Committee shall advise food service of student opinion concerning all aspects of food service as well as make specific recommendations.

### Section C: Method of Appointment

1. At the beginning of A Term any student residing in a WPI owned complex wishing to serve on the Committee must produce a petition signed by at least 25 students residing in the same complex. These petitions are due the third week of A Term to the Chairperson of the DAC in person. All petitions are subject to verification.

2. No later than the fifth week of A Term final elections will be held for each complex. Students shall be elected by the other members of their complex.

3. In the case of the one RA, he/she shall be elected from within the Resident Advisor Staff no later than the fifth week of A Term.

### Section D: Chairperson

1. The Chairperson must be in academic residence for at least 3 of the 4 terms of office. He/she must also reside in a WPI owned complex for 3 or the 4 terms of office but shall not be considered the representative for the complex he/she resides in. The Chairperson may not be a Resident Advisor.

2. The Chairperson is responsible for the coordination of the Committees work. He/she is responsible for communicating this work to both the EC and the Office of Student Affairs.

3. The Chairperson shall serve a full

year term beginning and ending during the fourth week of D Term. If, for any reason, he/she is unable to serve he/she shall provide the EC with two weeks written notice. He/she is responsible to meet with the outgoing Chairperson as well as attend at least one EC meeting between the time of his/her election and the time he/she assumes office.

4. The Chairperson shall be elected from within the Committee no later than the second week of D Term and shall assume office during the fourth week of D Term.

## Article VIII: Interfraternity Council

### Section A: Membership

1. The Council shall consist of the Presidents and IFC Representatives of each Fraternity and Sorority as well as the President of the IFC, plus any subcommittees as may be authorized and controlled by the IFC.

2. One faculty member shall serve as advisor to the council.

### Section B: Powers and Duties

1. The IFC shall act as the supervising body of all member fraternities/sororities.

2. The IFC shall act as the collective voice of the fraternities/sororities in all relations with the WPI Community.

3. It shall coordinate and supervise all activities which affect the common welfare of the members and the school.

4. The IFC shall have the power to impose regulations, fines, and penalties on its member fraternities/sororities in accordance with the procedures it shall determine.

5. It shall have the power to compose a Court of its members to sit in judgement or investigate matters concerned with its member fraternities/sororities so long as the action does not infringe on the jurisdiction of the Campus Hearing Board of Student Government.

6. Any power of the IFC not specifically defined in these ByLaws shall not be deemed contrary to the Constitutions and its ByLaws.

### Section C: Method of Appointment

The election rules, procedures and qualifications for the IFC shall be determined for the IFC by the IFC itself.

### Section D: President of the IFC

1. The President shall be responsible for reporting to the EC as well as having all other duties and powers as specified by the IFC.

2. The President shall serve a full year term concurrently with the President of the Student Government. He/she is responsible for meeting with the outgoing President of the IFC as well as attending at least one EC meeting between the time of his/her election and the time he/she assumes office. If, for any reason, he/she is unable to continue to serve he/she shall provide the EC with two weeks written notice.

3. The President shall be elected from within the fraternities/sororities as defined by the IFC, no later than the fourth week of C Term.

## Article IX: Social and Fine Arts Committee

### Section A: Membership

The Committee shall consist of one Chairperson and Programming Board as defined by the Committee ByLaws

### Section B: Powers and Duties

1. The Committee shall supervise all campus wide social and cultural functions.

2. It shall work closely with other campus social and cultural organizations to coordinate the activity of the campus.

3. The Committee shall be responsible for the major shows and weekends; coffeehouses; pub shows; and films.

4. An assessment of \$45 per year per undergraduate student shall comprise the Social Committee Budget. This charge shall be included on the official college bill for each student. From this budget, ample money shall be allotted to the College Yearbook and to the Junior Prom Committee. Ample shall be determined by the Social Committee yearly and must be approved by the EC.

5. Financial statements shall be required from the Committee.

### Section C: Chairperson

1. The Chairperson shall be a

sophomore or junior at his/her time of election. He/she must be in academic residence for at least 3 of the 4 terms of office.

2. The Chairperson shall be responsible for the coordination and communication between the various segments of the Committee as well as those duties defined in the ByLaws of the Committee. He/she is responsible for reporting to the Committee's actions to the EC.

4. Within the second week of B Term the Programming Board shall nominate candidates of the office of Chairperson to the EC in writing.

5. During the 4th week of B Term a final general election shall be held. No write in votes will be accepted. In the case of a tie the EC shall determine the winner.

6. In the event that there is only one candidate, the EC shall have the right to appoint the one candidate as Chairperson.

7. The Chairperson shall serve a full year term of office from date of election.

8. If, for any reason he/she is unable to continue to serve, he/she shall provide the EC with two weeks written notice. A special general election will then be held to elect a new Chairperson within two weeks of the Chairperson's resignation.

## Article X: Student Activities Board

### Section 1: Club Membership

1. The SAB shall consist of an active member of each SAB organization or their proxy.

2. In order to qualify as an official SAB organization, the following is required:

a. Evidence of continual club activities for at least two years, the organization may be accepted into the SAB (without voting privileges) but may not receive funds until this two year period us up.

b. An official club constitution must be submitted to the SAB

c. A faculty advisor must be selected.

d. Membership must be open to all WPI students.

3. At the completion of this two year trial period, the organization must be officially voted on by the SAB.

### Section 2: Power and Duties

1. The SAB shall require that budget requests be submitted in the spring of each year, for the following year. Each member of the SAB not in a two year trial period may submit a budget to be approved by the SAB

2. These budgets will be examined by the SAB chairman and his/her committee consisting of at least three and no more than six other active voting members. The committee will then recommend appropriations for each organization which must be approved by a vote of the SAB and then the Executive Council.

3. Deficit financing is not permitted by SAB organizations.

### Section 3: SAB Chairman

1. The Chairman shall be a sophomore or a junior at the time of his/her election. The Chairman will serve for the term of one year without reelection. He/she shall be elected by the SAB membership. Election procedures are as stated in the SAB ByLaws.

2. The Chairman of the SAB shall recommend two or three underclassmen (not seniors while in office) to assist the SAB Chairman during the year. These students must be official members of an SAB organization.

3. The SAB Chairman shall air all grievances of organizations, investigate and recommend appropriate action to the SAB.

4. The SAB shall require accurate financial records of all SAB organizations.

The Chairman is responsible for distributing budget forms, withdrawal forms and monthly printouts.

The Chairman is responsible for maintaining the official financial records of the SAB organization (located in the Office of Student Affairs).

5. The Chairman is responsible for maintaining financial records of the SAB reserve account. The Office of Student Affairs will transfer into the reserve all SAB funds remaining at the

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# ...Buildings kept at 70

[continued from page 1]

poured into a building to warm the sensor to 69 degrees - 71 degrees. Thus, if a group of rooms on the other side of the building are already at 69 degrees theoretically they should not be reheated; but they are being heated. The thermostats in these rooms are faulty and allow the temperature to rise beyond what is desired. Proper placement of sensors could greatly reduce such wastes of heat. Questioned on the possibility of adding more sensors to get a more accurate reading for



Kenrick Barnes

Leon Droby

the computer, Barnes said, "No, because you wouldn't get a more accurate reading. The reading you get is relative to human comfort."

Asked if a study had been done on how often doors are opened and closed, Barnes said that no such study had been done. Because no study has been done, the computer is programmed by both Barnes and the Honeywell people to compensate for this loss of heat.

Another major factor involved is the working condition of the room thermostats. They obviously didn't work correctly, failing to stop the temperature from rising above either the limit set on the thermostat or the temperature set by the computer. Some of the thermostats checked by the reporter were broken; no wonder the heat sky-rockets, there is no governor. It should be noted that to verify the reading which the thermostats gave, the reporter used an electric thermometer and a manual thermometer - the results matched. The individual thermostats seem to have no control over the heat in any given room on campus.

Barnes has also stated that part of the problem is that the buildings never cool off at night. Our reporter found this to be true. It is hard for a building to cool off 15 degrees when heat is pouring out of the radiators keeping the temperature at least 14 degrees above the limit.

# ...Constitution

[continued from page 8]

end of the fiscal year.

6. The Chairman must present to the SAB all requests from SAB organizations for additional fund from the reserve. Any request for funds

# ...Tuition hike

[continued from page 1]

categories of both basic educational opportunity grants and low interest student loans.

The bad news is, of course, as was expected — tuition will once again rise

approved or disapproved by the SAB may be overridden by a 2/3 vote of the entire Executive Council.

**Article XI:** The Election Procedure ByLaws shall be the regulations applicable to general Student Government Elections.

for the coming year. The increase, which is within the established federal price guidelines, amounts to \$350. Room and board has not escaped the inflationary crunch either. The average increase, as far as room and board go, will be \$141.

**Newspeak writers' and photographers' meeting every Monday at 4:15 p.m. in Newspeak Editorial office, Riley 01. Newcomers welcome.**

## FOUND

**Silver rim aviator glasses found in quad in Stoddard Center, see Mr. Fuller, Riley 02.**

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Our representatives will be on campus Wednesday, March 7th. If you're interested in what you and Compugraphic have to offer each other, sign up at the Placement Office for interviews. If you are unable to visit our representatives on March 7, send your resume to John Regan, College Recruitment Coordinator at Compugraphic Corporation, 80 Industrial Way, Wilmington, MA. 01887.

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# Winter Weekend Roundup

## The Kinks "really got me"

by Maureen Higgins  
Features editor

On Friday night, March 2nd, the doors of Harrington were pushed in. No, this was not another act of wanton vandalism — just a large crowd of anxious concert goers getting restless. The line (before the doors opened) stretched all the way across the quad to Riley, thank God we go to a technical school where things are done in an orderly fashion. There was a hurried scramble to find seats at this sold out performance and needless to say, not all the seats offered a view of the stage. The Social Committee stage crew and Lens and Lights, deserve recognition for getting the show started right on time.

TKO, the warm-up band, was representative of the growing trend to loud hard rock in which all songs are required to sound alike. Unless you like painfully deafening noise, you probably were squirming in your seat from boredom for the duration of TKO's set. Most were grateful for "Rock Out and Roll On" after which TKO rolled away and cleared the stage for the Kinks.

After a remarkably efficient stage setup change, the Kinks appeared on stage and the crowd roared. Beginning their set with a medley of their old hits was a perfect tease that left the crowd ready and waiting to rock. It was soon clear the Kinks were old hands at presenting thoroughly professional concerts without taking all the fun out of it.

The Kinks material spanned songs from their entire fifteen year musical career, from "You Really Got Me" to "Rock and Roll Fantasy". Although the Kinks best musical attribute lies in their lyrics which, unlike most of those from rock and roll, really have something to say, it was nearly impossible to make out the words due to the infamously bad acoustics of Harrington. Fortunately, the crowd didn't seem to notice as the Kinks rolled through their lengthy, but entertaining set which in-



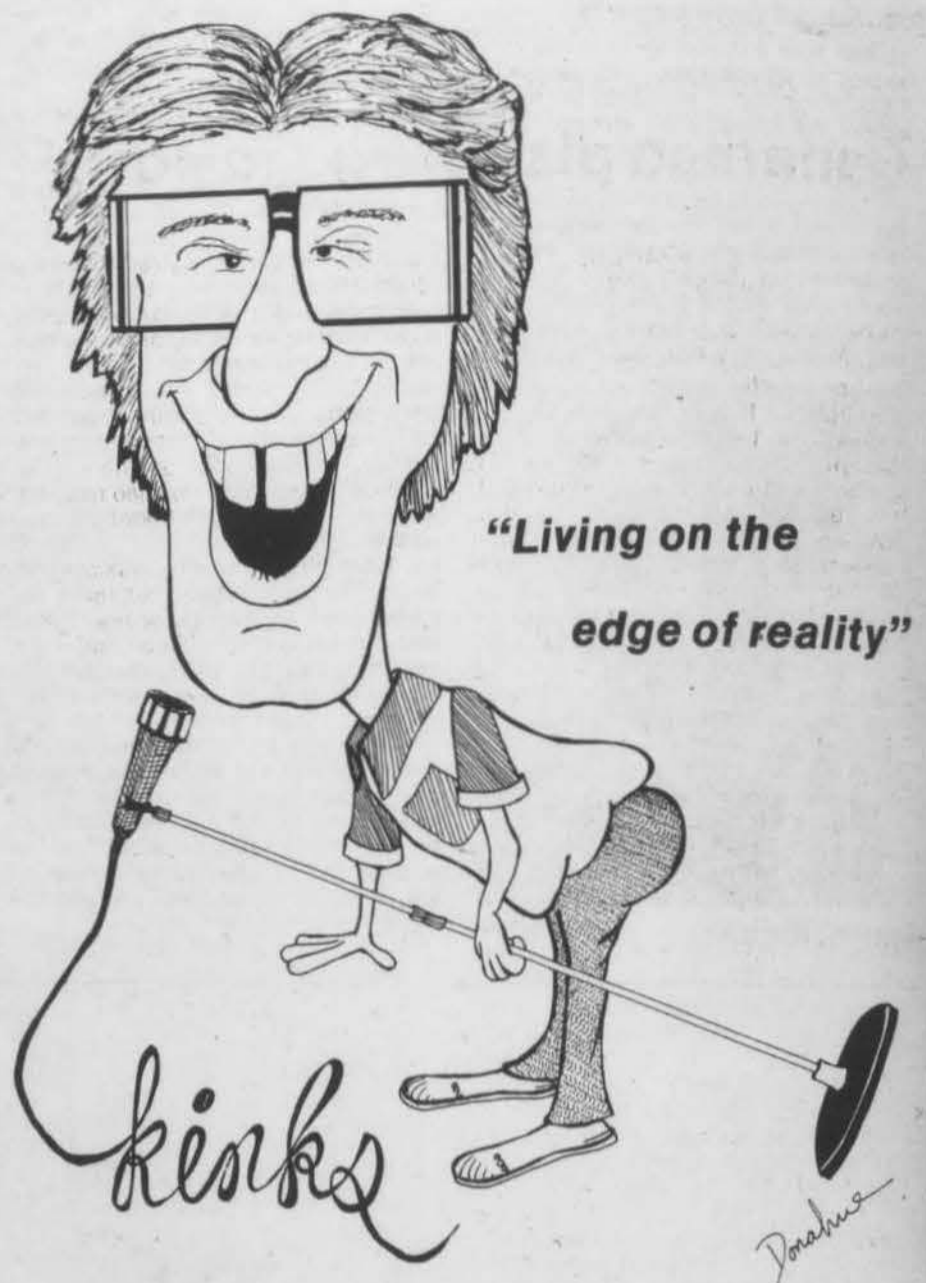
Ray Davies with his hat

Mark Hecker



Ray Davies without his hat

Mark Hecker



Mixed Generations

Leon Droby

cluded such favorites as "Victoria", "Celluloid Heroes", "Demon Alcohol", "Low Budget", "Permanent Waves", "Sleepwalker", and of course, "Lola". To many, the show was over too soon, but never fear, the Kinks came back for one encore in an attempt to let the audience down easy and then they were gone. As the houselights came on, the satisfied audience streamed out of Harrington and the rock and roll fantasy that the Kinks had created.

### Nightclub

The Winter Weekend Nightclub on Saturday March 3rd provided worthwhile entertainment for all who attended. Mixed Generation played pure funk interspersed with disco that kept everyone dancing from start to finish. In my opinion, the experimental two comedian format went over well. The comedy team of Stu Stone and Jeff Carter (a member of the audience) came first. Stone's material was weak and all too typical as it revolved around those standard bathroom and ethnic jokes. David Sayh had to be one of the better received comedians at WPI He invariably said "Remember when you were (fill in the blank) and you used to (fill in the blank)." Even so, his jokes were something anyone who grew up in the U.S. could relate to - you ended up laughing at yourself. And as for the refreshments, the cracker and cheese plate was nothing special and overpriced, but there was a fine selection of beverages which were all reasonably priced. Of course, by the end of the evening the crowd had dwindled to fourth of its original size as couples wandered off in search of other sources of entertainment. After all, what are these weekends for anyways?



# Music scoop

New group "Cloneheads" is a remake

## Canadian platters go to pot

by Vinnie Ascioti  
Newspeak staff

Be on the lookout for forgeries. Maxell Corp. has informed the public that counterfeit tapes are being sold throughout the United States. The tapes bear the names Maxellite or Maxell. The corporation stated that these bogus cassettes are ripping off the customer, by giving poor quality. Some pointers on finding out if your cassette is a genuine Maxell product/ the four tapes have four screws instead of five, and sometimes the tape is held together by glue; the bad tapes have cellophane for leader; and the tape window is made of a substance resembling sandwich wrap, instead of heavy-duty plastic. Beware!

Noted composers Jerry Goldsmith and John Williams have again been nominated for Academy Awards for Best Original Score. Goldsmith was nominated for the tenth time, for "The Boys From Brazil." He has won once, for "The Omen." Williams has now been nominated 13 times, for "Superman." Williams has won twice, for "Jaws" and "Star Wars."

Elvis Costello may be planning a blitzkrieg-type tour of three New York City clubs in one evening, April 1st. In pushing his latest smash lp, "Armed Forces," Elvis and his Attractions are expected to play at the Bottom Line, CGGB's, and the Lone Star. Costello plays at the Palladium the night before.

Royal Canadian Mounted Police broke a few records, so to speak, recently in Montreal. The Mounties arrested five people in connection with

a major drug bust. Seized in the raid was 350 pounds of marijuana compressed into the shape of records. Twelve hundred "albums" were filled with compressed pot.

Todd Rundgren will develop the theme and other musical compositions for "Simon," a fantasy film from marquee International Films. Rundgren will also have a cameo role in the flick, which will start shooting over the summer.

There is a new unique musical group called the Cloneheads. No, they're not from Saturday Night Live, they are four young musicians who underwent plastic surgery to look like Elvis Presley, Jim Morrison, Jim Croce, and Janis Joplin.

Alice Cooper participated in a milking contest at the opening of a new record store in Madison, Wisc., called 1812 Overture. The Babys and Johnny Cash autographed albums over the next two days at the new store.

SILVER BULLETS--Van Halen, Delbert McClinton, Seals and Crofts, and the Little River Band are all in the studio cutting new albums...The Doobie Bros., Queen, Linda Ronstadt, and Rod Stewart are all touring Japan this spring...Stewart's "Blondes Have More Fun" is his third platinum album in a row...Mercury-Phonogram Records has signed Southside Johnny and the Asbury Jukes to a million dollar contract...Rick Wakeman's next solo album is due out next month, and is supposed to be "disco flavored!" Meat Loaf's second album is also due next month...The new Dire Straits lp is finished, but it won't be out until the summer.

## Encore after encore demanded of Dire Straits

by Chris Corpuz  
Newspeak staff

Courtesy of Joe Gracia downtown at Gracia Ticket & Travel, we swung into cold, blustery Providence to pay tribute to "The Sultan's of Swing," Dire Straits. Alumni Hall, an incongruous blend of neo-gothic and romanesque architecture, seemed an appropriate scenario for the newly crowned "Sultans" and their court of devoted followers. Tickets were only \$7.00 (with service charge included) and a crowd of no more than 600 people were comfortable in a hall 2/3 the size of Alden, although some were forced to stand.

The evening's show, a Banzini Bros.

production, almost started on time with Baruga Bandit as the warm-up. A four-piece Amish type band consisting of a flashy lead guitarist, Elton John keyboards, drummer and bassist, Baruga Bandit managed to hold the attention of a rather mild-mannered crowd and even tossed out a number of tasty licks throughout the set.

Fifteen minute break.

Houselights dim. Pinpoint blue and red spots. Soft green overheads.

"Hello," says Mark Knopfler, lead guitarist and vocalist, as the crowd, previously uninvolved, begins to noticeably key-up.

[continued to page 21]

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Φ R

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Sat. - Sun. 2:00, 3:50,  
7:15, 9:20 Fri, Sat,  
11:15

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Sat. 17-Sun. 25; 2:00, 4:25, 7:15, 9:50

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Wed.-Thurs. 2:00, 7:30, 9:45, Fri.  
2:00, 7:35, 9:55, Sat. 17-Sun. 25,  
1:30, 3:40, 5:35, 7:35, 9:55

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### THE BRINK'S JOB

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5:20, 7:35  
9:45  
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## Industrial and Environmental Health Hazard IQP's Available For Next Year

### Projects will involve:

1. The study of the incidences and causes of industrial/environmental hazards.
2. The legal and regulatory action taken or planned by state or federal governments in controlling or limiting exposure to these hazards.

Presently, two studies are underway to compile and analyze a federal data based on Industrial and Environmental Hazards.

FOR MORE INFORMATION, CONTACT:  
PROF. JACK BOYD  
HIGGINS 115



# First Annual



Winners Dave Kobayashi and Andre Walker crooning the pre-chem eng comp blues



Emcee Dave O'Gara, Judges Paul



Jeff Alexander and George Thorng wailing away

by Lynn Hadad  
Newspeak staff

February 24th started off as any other normal Saturday would, but by 8:00 p.m. there was a marked difference in the amount of activity surrounding the Pub. Those with presence of mind enough to realize that the special activity scheduled for the evening would draw a big crowd were anxiously waiting for the Pub doors to be opened. Their "early-bird" status proved fortunate, for one hour later the Pub was packed to the max with the audience waiting impatiently in eager anticipation of the "First Annual WPI Gong Show."

That "old rascule" Dave O'Gara,

disc jockey from WORC, soon had the show rolling with trivia questions. Due to the fact that Miller sponsored the show, the prizes for answering correctly were, understandably enough, Miller T-shirts, sweatshirts, scarves, and beer mugs. Interspersed between the acts were more trivia questions, arm-wrestling (President Cranch proved victorious), a dance by Judges Majmudar and Melanie, and comic relief from the slightly inebriated guys in the back of the room (although their repertoire was slightly limited - to be exact it consisted of one word). As far as the acts were concerned, well, the pictures tell the story..



Mock rock group



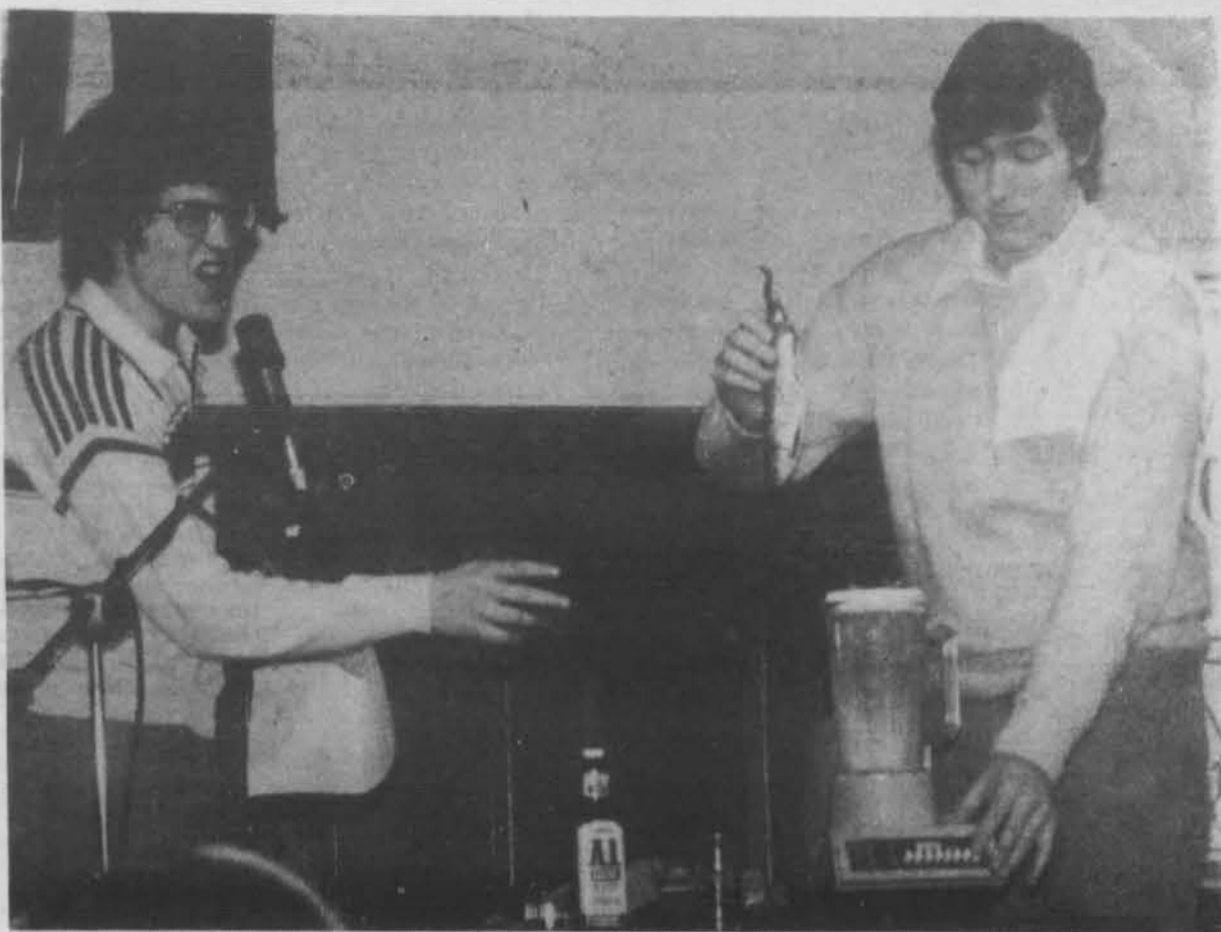
Jim Leonard singing, "She's



# Gong Show



*Paul Wrabel, Melanie, Majmudar*



*Bill Sherman and Keith Moore with a tasty new idea*

Photos by  
John Melson



*The Brews Brothers sing "The BJC Blues"*



*'s a bitch."*



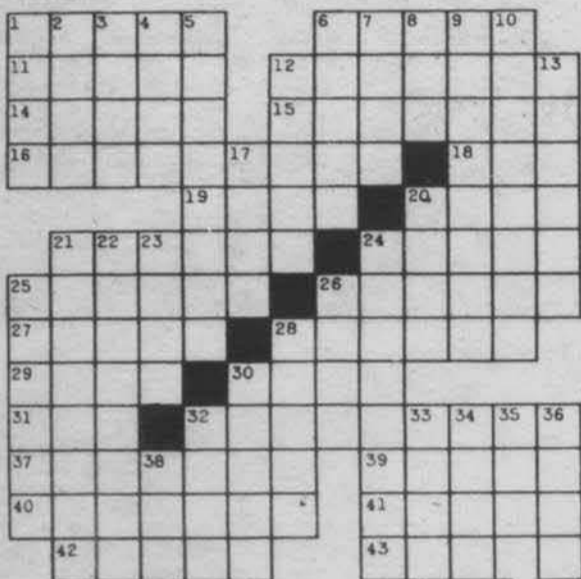
*University of Wattamalo Philosophy Department Blues Band*



CROSSWORDS

- ACROSS**
- 1. "Tetched"
  - 6. Peels
  - 11. Spry
  - 12. Spoke: 2 wds.
  - 14. Stratagems
  - 15. Stimulate
  - 16. Private conversation: 3 wds.
  - 18. One that produces: suffix
  - 19. The "N" in N.B.
  - 20. Elevate
  - 21. Cheap and gaudy
  - 24. Masculine name
  - 25. Texas river
  - 26. Diluted
  - 27. Jargon
  - 28. Sullen
  - 29. Manly brews
  - 30. Unusually good
  - 31. Christmas drink
  - 32. Winter "visitor": 2 wds.
  - 37. Gymnastic apparatus
  - 39. Proportion
  - 40. Establishes
  - 41. Inspecting
  - 42. Transactions
  - 43. Alleviates

- DOWN**
- 1. Move quickly
  - 2. Malarial fever
  - 3. Clenched hand
  - 4. Run away
  - 5. Ambiguous reply: 3 wds.
  - 6. Ship of 1492
  - 7. Church projection
  - 8. Corded fabric
  - 9. Buildings
  - 10. Certain to be successful: hyph. wd.
  - 12. Devoutness
  - 13. Impudently
  - 17. Lacerated
  - 20. Mother of Apollo
  - 21. Cut to fit
  - 22. Renounce
  - 23. Perukes
  - 24. Lighthearted
  - 25. Angles
  - 26. Travail
  - 28. Symbols of authority
  - 30. Demolishes
  - 32. Take definite form
  - 33. East Indian broadbill
  - 34. Big name in elevators
  - 35. Without: Latin
  - 36. Clothes
  - 38. School organization: abbr.



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# Horoscope

For the week of March 6 - 12

By GINA

Campus Digest News Service

**ARIES: (March 21 to April 19)**-Keep a low profile, stay in the background, and don't believe all you hear. Don't indulge yourself in impulse--rash acts can be to your detriment. Romance is highlighted as well as meaningful friendship.

**TAURUS: (April 20 to May 20)**-Finances are highlighted and the need to define and revise your budget. Be open and honest in how you feel. Protect your reputation, and pay no attention to gossip. Resist making impulsive decisions in the area of finances.

**GEMINI: (May 21 to June 20)**-Get involved in civic work and encourage others to cooperate. Seek out creative people to share your ideas with. Your need for freedom is accented so restrict it to the mental level. Avoid impulsive action.

**CANCER: (June 21 to July 22)**-You're feeling good and looking good so you can set a marvelous example for others. You attract friends to be helpful--just be sure their motives are the same as yours. Concentrate on your pet project.

**LEO: (July 23 to Aug. 22)**-Your mind is sharp and your understanding "on target," so deal with that problem that has seemed unresolvable. Your influence with others is marked, so use this period to create the relationships with others you desire.

**VIRGO: (Aug. 23 to Sept. 22)**-Now is the time to prepare projects and programs for presentation to higher-ups. Use care about impulsive actions in romantic matters. Your feeling of cooperation with coworkers can bring positive results.

**LIBRA: (Sept. 23 to Oct. 22)**-You can be a peacemaker between disagreeing factions. Be confident that you can do it. Use your versatility and show others your talents. Good time to sharpen your occupational skills--involve yourself in study programs.

**SCORPIO: (Oct. 23 to Nov. 21)**-In a matter of cooperative effort, use patience and allow the others more time to consider their desires. Play it "cool." Try not to exaggerate your reactions. Move your energies into social activities.

**SAGITTARIUS: (Nov. 22 to Dec. 21)**-Guard against being "testy" or temperamental. Be more sympathetic and understanding of the other person's viewpoint. During this cycle you can tend to be too self-centered and dicatorial, and the results are detrimental.

**CAPRICORN: (Dec. 22 to Jan. 19)**-Take the initiative and move to your own positive goals. Meet challenges in a direct way and handle them. Get some physical exercise to work off some of your energy. If you want a reconciliation, make the move with humility.

**AQUARIUS: (Jan. 20 to Feb. 18)**-Someone important could come into your life. Take the time to understand and cultivate that person. You could be touchy and want to withdraw because you may feel unappreciated. Make an effort to be patient and charming.

**PISCES: (Feb. 19 to March 20)**-Give your work the high priority and stick to routine. Get caught up on any backlog and go over your budget. Set up a saving program. Being alone, mediating, and "getting your head together" is favored.

See page 19 for solution to this week's and last week's crossword puzzle.

## "MEDIATING LAND DISPUTES"

a presentation by

**Prof. Lawrence Susskind**  
MIT Laboratory for Architecture and Planning, Department of Urban Studies and Planning

**WEDNESDAY, MARCH 7, 1979**  
**4:00 P.M.**

**Gordon Library Seminar Room**

*Refreshments served at 3:45 p.m.*

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## TEACHING IN JAPAN

Anyone with a bachelor's degree in different engineering fields, production/manufacturing, quality-control, materials management or procurement wishing to teach a full-time for one or two years in Japan should write to: Personnel Director, International Education Services, Shin Taiso Building, 10-7, Dogenzaka 2-chome, Shibuya-ku, Tokyo 150 Japan

The position involves teaching Japanese businessmen and engineers the basic vocabulary in various fields.

No Japanese-language is required for classroom instruction. Teaching experience is not required. An orientation is given in Tokyo.

Information on salary, transportation and housing can be obtained by providing International Education Services with a detailed resume and a letter indicating an interest in the position.

Personal interviews will be held in your area between the middle to end of April.

Selected applicants would be expected to arrive in Tokyo from June through September, 1979.



# What's Happening

## Tuesday, March 6

WPI WOMEN'S CHORALE BAKE SALE in the Wedge, 10 a.m. - 4 p.m.

CIVIL ENGINEERING COLLOQUIUM, "Building Reuse/The Political Process", Kinnicutt Hall, 4 p.m. (coffee at 3:45).

PHYSICS COLLOQUIUM, "Electronic Properties of Semi-Conducting Surface Inversion Layers", Olin 107, 4:15 (coffee at 4).

HAPPY HOUR ENTERTAINMENT IN THE Pub, Dave Kobayashi and Marcia Huber, 4:30 p.m.

CINEMATECH FILM Series presents, "The Best Way", Kinnicutt Hall, 7:30 p.m.

## Wednesday, March 7

LIBRARY EXHIBIT, "Extra, Extra — The Men and Machines of American Journalism", thru April 7.

DANCE NIGHT in the Pub.

## Thursday, March 8

WPI SOLAR ENERGY SOCIETY, "Opportunities in Wood Fuels for Industrial and Home Use", HL 109, 4:15 p.m.

REJECTION LETTER NITE in the Pub, 8:00 p.m.

## Friday, March 9

PUB ENTERTAINMENT, "Citadel", 8:30 p.m.

## Saturday, March 10

THE REEL THING, "Blazing Saddles", 7:30 and "Young Frankenstein" 10 p.m., Alden Hall, admission \$1.

## Sunday, March 11

THE REEL THING, "High Anxiety", Alden Hall, 8 p.m., admission \$1.

## Monday, March 12

BAKE SALE sponsored by WPI Crew Team, Wedge, 11 a.m. to 2 p.m.  
ME COLLOQUIUM, "Flexibility in Learning", HL 109, 4:30 p.m., coffee at 4.



# Campus Interviews

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### Degrees

Electrical Engineering  
Mechanical Engineering  
Industrial Engineering  
Materials Science

Engineering Physics  
Engineering Mechanics  
Optics (Engineering)  
Manufacturing Technology

Process and Plastics  
Engineering  
Computer Science  
(Software/Hardware)

### Openings

**Engineering/Computer Software/Hardware**  
Microwave Development  
Field Test Support  
Logic Design  
Optics Design - Thin Film Coating  
Environmental Design  
Space Telecommunications  
Infrared Reconnaissance  
Thin/Thick Film Design  
Fab Liaison Engineering  
Test Equipment Design  
NC Programming  
Systems Analysis  
Cryogenics-Heat Transfer  
Manufacturing Supervision  
Printed Wiring Board Engineering  
FAB Methods  
Signal Processing

Production Control  
Functional Manufacturing Engineering  
Project Manufacturing  
Engineering Control  
Digital/Analog Circuit Design  
Thermal Analysis  
Mechanical Packaging  
Tool Design  
Antenna Design  
Laser Development  
Radar Design  
Computer Software  
Assembly Methods  
Computer-aided Design  
Computer-aided Testing  
Aerodynamics  
Control Systems  
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Minicomputer Applications  
Mechanical Design  
Automated Test Equipment  
**Manufacturing**  
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Manufacturing involving:  
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Manufacturing  
Schedule Commitments  
• Cost-Control/Budget Development  
• Use of Real-Time Computer Systems  
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Interviewing on Campus  
March 13-14

If unable to interview at this time, send resume to: Ruth Lodawski/Texas Instruments/P.O. Box 226015, M.S. 222/Dallas, Texas 75266.

# TEXAS INSTRUMENTS

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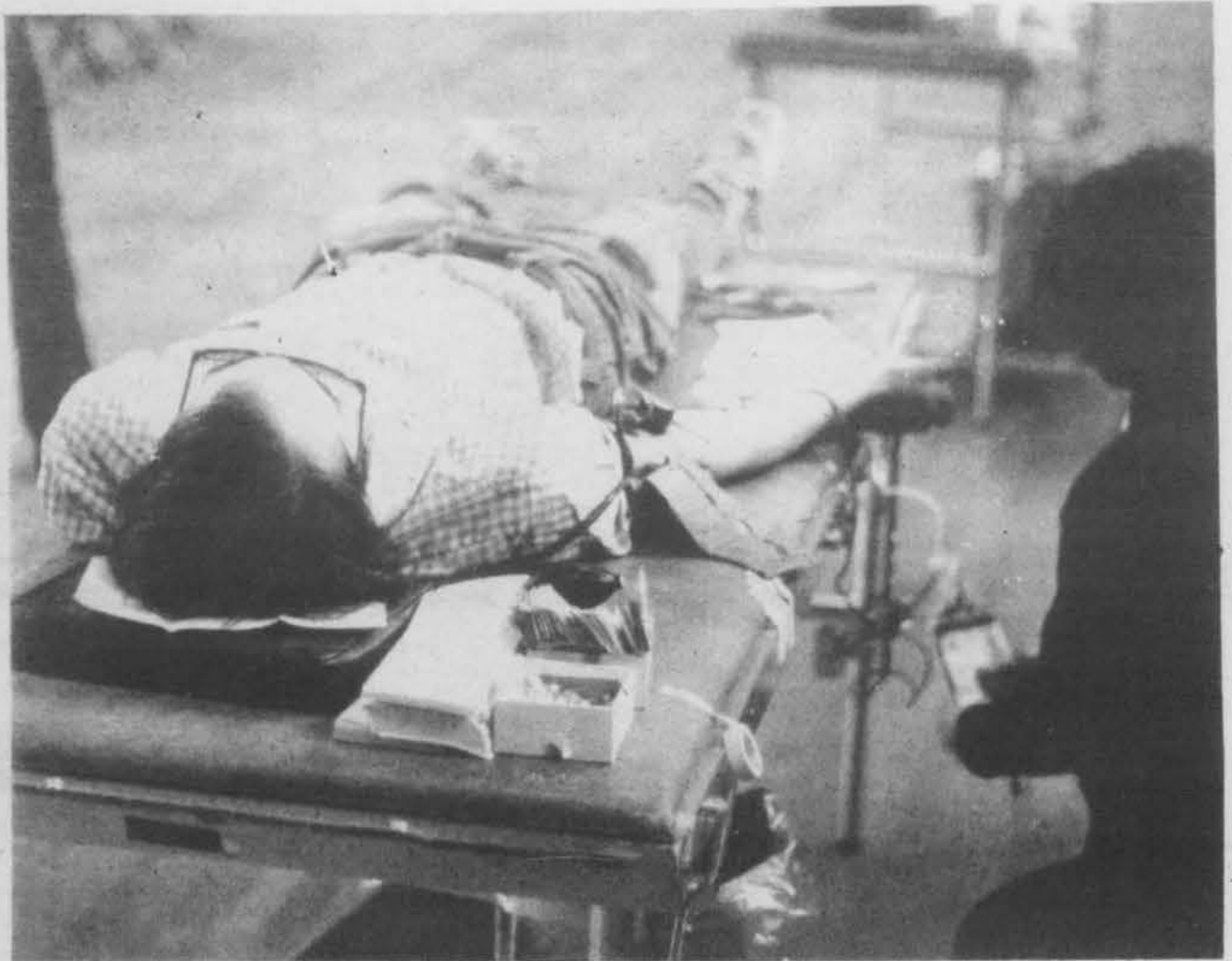


# Worcester Donor Center

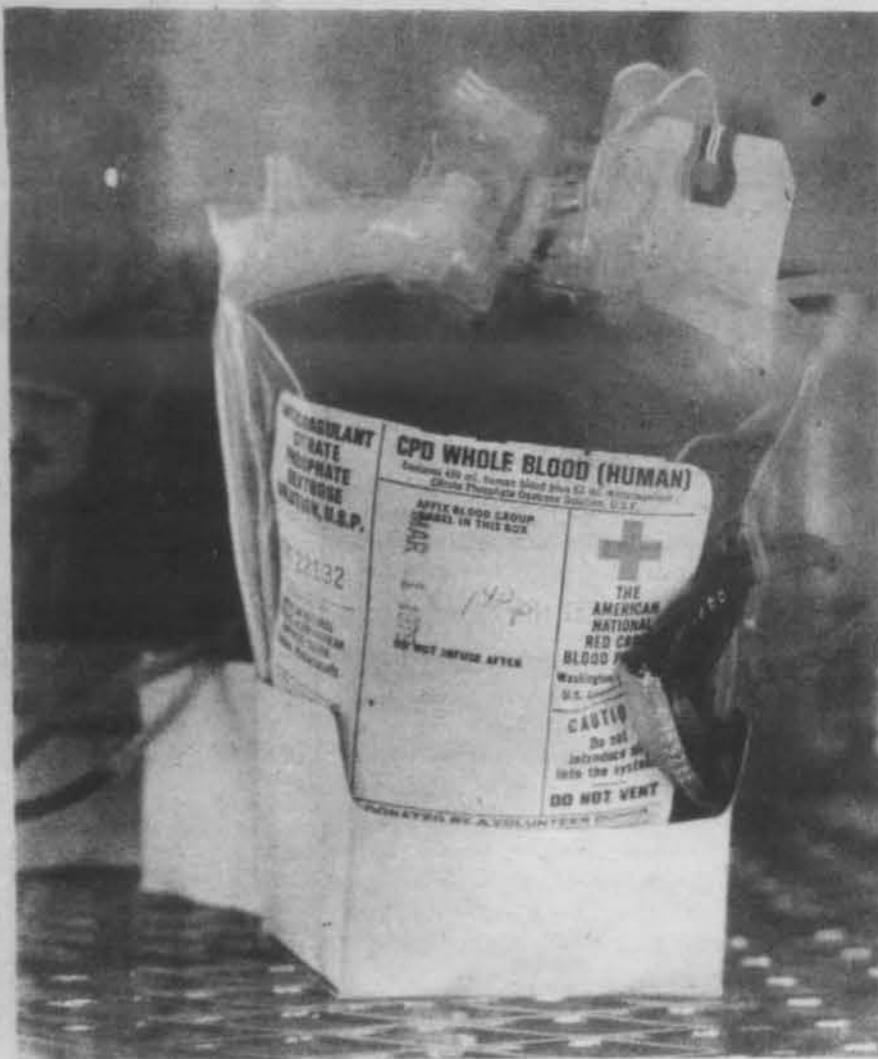
Tom Nicolosi  
Newspeak staff

Last month's Red Cross blood drive that was held in Alden and sponsored by the SAE fraternity with the help of the entire IFC was only a small though vital part of the great humanitarian service that the Northeast Region Red Cross provides to the residents of Massachusetts and Maine. Each year the Red Cross, aided by area business and social groups, collects some 350,000 pints of much needed blood which are distributed on a day to day basis to hospitals in the region according to need. In the words of SAE brother Vance Spillman, coorganizer of the recent drive, this type of action is best explained by the term "social conscience."

Each month the Red Cross holds between thirty and thirty-five blood drives like the one held at Tech to help fill its quota of the vital commodity, yet this is merely part of the extensive process of blood collection and distribution. In order to gain insight in to some of the behind the scenes activities of the organization a visit was made to the local chapter house of the Red Cross, and architectually beautiful old mansion located behind the



Mark Hecker giving a pint of the gift of life

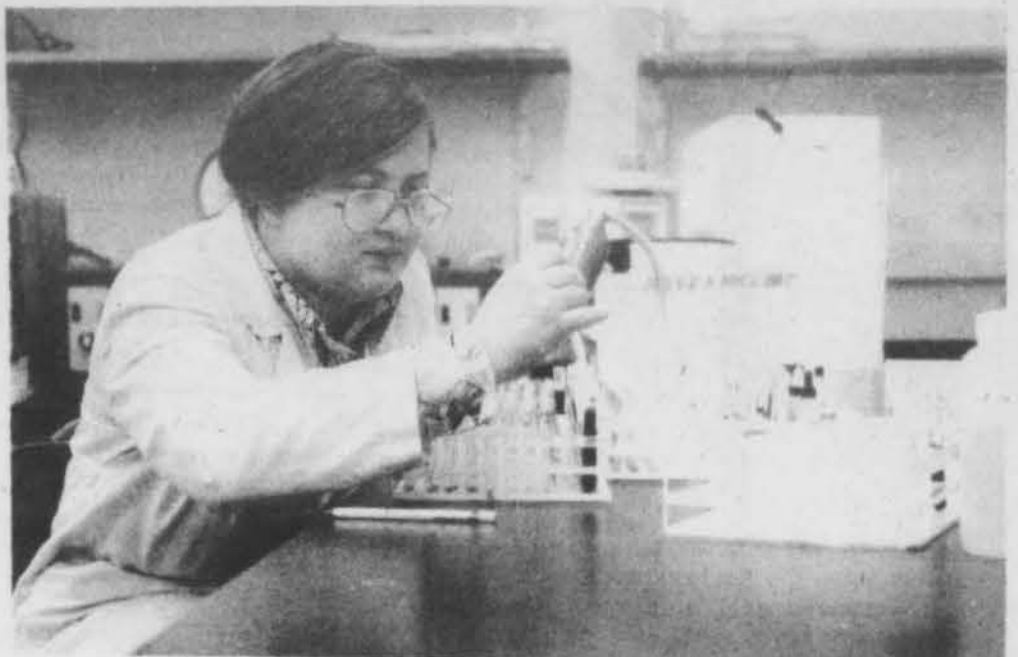


The gift of life

Worcester Auditorium on the corner between Highland and Harvard Streets. There we met chapter's field director, David Sitler, who helps coordinate blood drives in the area. Sitler explained that blood collected in the drives is processed at the Red Cross Donor Center on Route 9 near the Shrewsbury line.

On the way to the Donor Center Sitler discussed the area's great need for blood. When asked whether the present time was critical as far as the amount of blood needed he replied quickly, "everytime is critical." "The problem," he said, "is that there are so many hospitals in this area like the Shriner's Burn Center and others where patients come from all over the world for treatment." Sitler seemed optimistic about future blood donations. "Collections are going to increase," he said, "places that we go to once a year we are trying to go to twice to accommodate the needs."

Once at the Donor Center Sitler introduced us to Dave Carney, a certified "medical technologist" who heads operations in the center's blood processing lab. In the next few minutes Carney explained the intricacies involved in the handling of human blood. One fact that he mentioned at the outset was that the "shelf life" of unfrozen human blood is only about twenty one days. This means that it is often necessary to freeze blood -- for example, when an extremely rare blood type is donated -- in order to store it for long period of time. However, this process is not as simple as it sounds. When frozen, some of the components of whole blood, particularly the red cells, break down chemically. Chemists at the center get around this problem by a process called glycerolization where, as the name implies, a substance called glycerin is added to the red blood cells to maintain their integrity. Thus treated, it is possible to store the blood for up to three years.

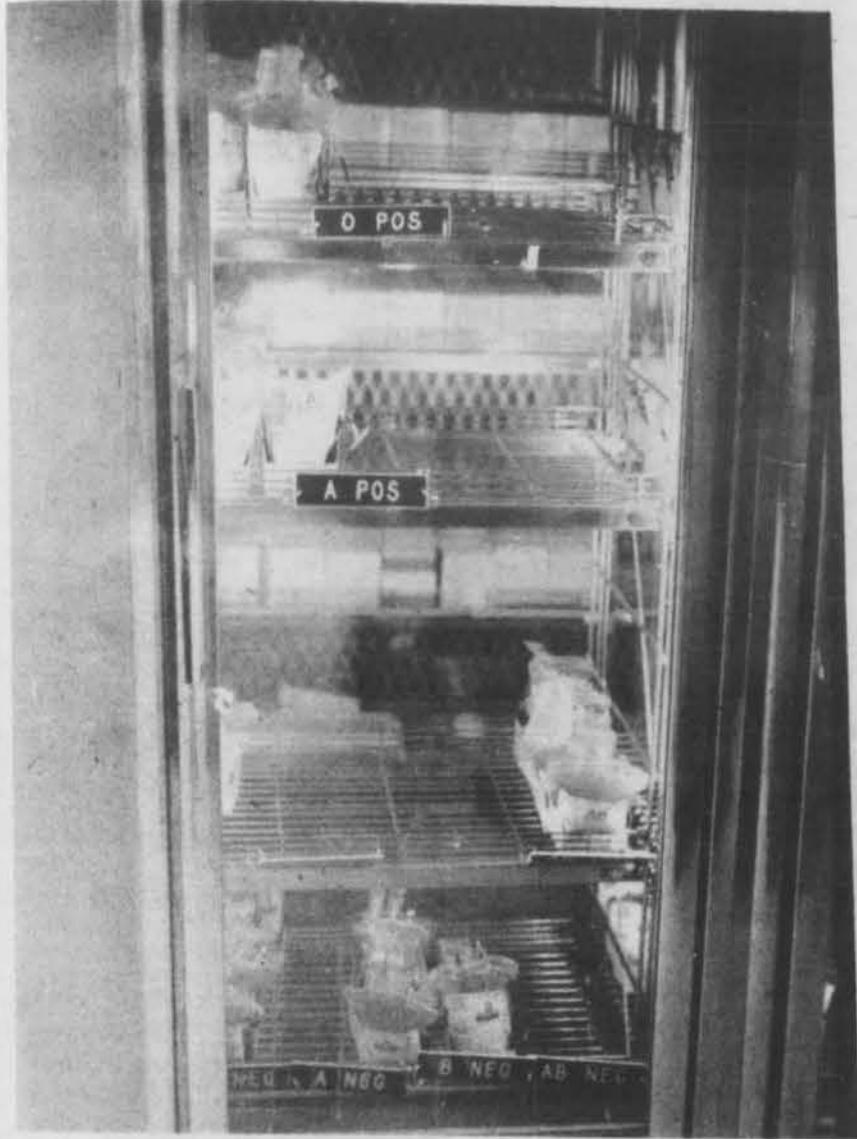


A technician testing blood for type

Photos by  
John Melson



# helps fill vital needs



**Fresh blood is kept refrigerated and categorized before shipment to area hospitals**

When the blood is thawed the glycerin is washed from the blood by a series of chemical solutions in a special machine through a process called (strangely enough) deglycerolization before it is used in transfusions.

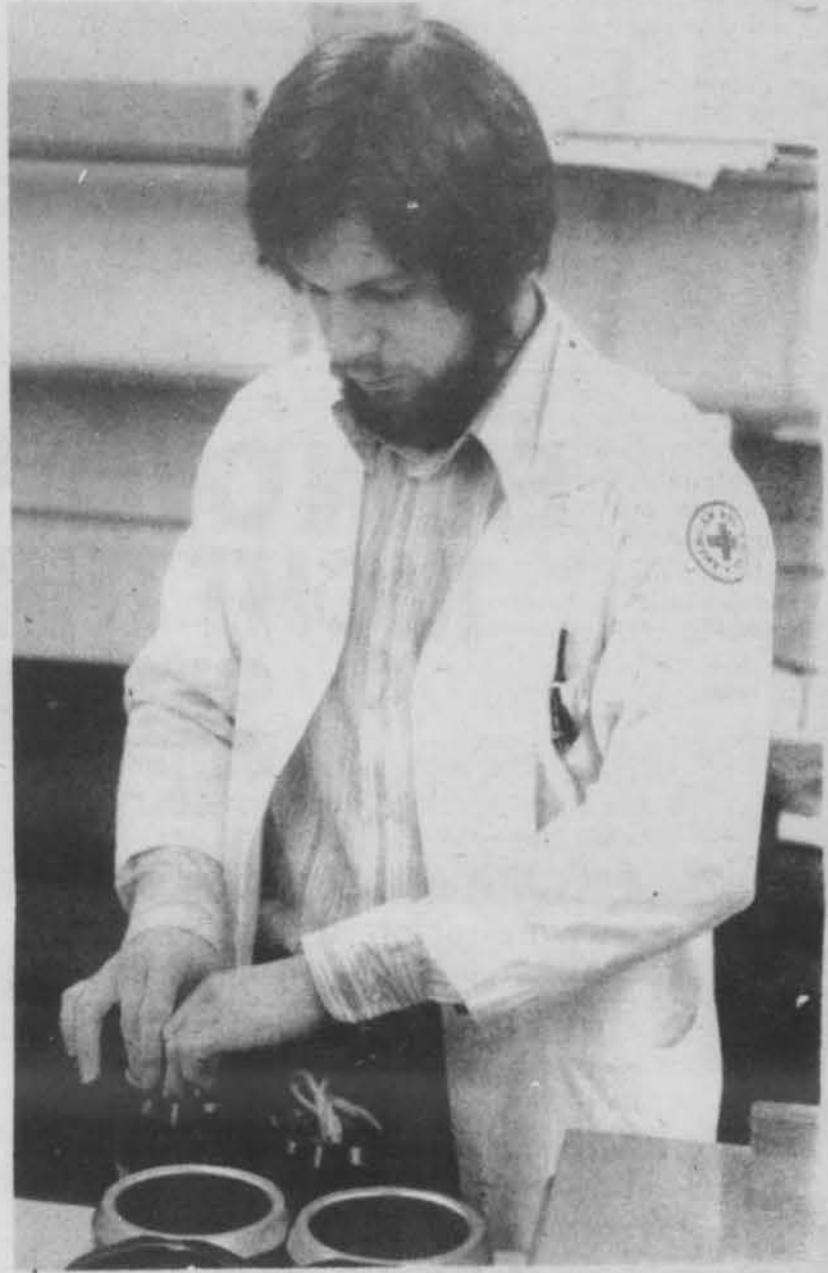
Carney went on to explain that about eighty percent of all donor blood is separated into several components. These components are basically red blood cells, plasma and platelets. It is useful to do this because doctors can treat specific things with specific transfusions and more than one person can benefit from one single

pint of blood. About twenty percent of donor blood is left "whole" and is useful in many cases. Red cells are oxygen carriers and are infused usually when there is great blood loss. Plasma is a transparent yellow liquid that contains clotting factors and platelets are clotting agents that are available in large quantities and are easily separated from the plasma.

The blood is separated into these components by a centrifuge. First, the whole blood is spun at a slow speed and red cells are separated from the plasma-platelet mixture. This mixture is then spun



**A packet of "fresh frozen plasma"**



**Dave Camey preparing some blood packets for centrifugation**

about at a higher speed and the more dense platelets are separated from the plasma. The plasma can be frozen within four hours and the clotting factors separated out for use. One such clotting factor, important in treating a certain type of hemophilia, is called "factor eight" which is freeze-dried and can be stored in a refrigerator and self-administered.

Another activity that goes on in the lab is the determination of the blood type. This is very important since certain blood types cannot be administered to all people. Also, each pint of blood that is taken is tested for syphilis and hepatitis. The hepatitis test is particularly interesting in that it involves the use of radioactive iodine as an indicator.

With the lab tour complete we rejoined Sitler who brought us up

to the donor room to show off a truly amazing process called pheresis. In this process the donor is hooked up to a machine which separates out only one component of the blood and restores the remaining components to the donor. The components are separated with a centrifuge as in the lab. The process takes about two hours. The advantage is that more of one component can be taken from one person and that person can also donate more frequently.

Thanks to the Red Cross an adequate supply of blood is available for use in area hospitals and undoubtedly thousands of people are given a new lease on life each week because of this. Giving blood is a sure way of knowing that you are doing something that will definitely help someone else.



**WORCESTER POLYTECHNIC INSTITUTE**  
**Worcester, Massachusetts**  
**ENROLLMENT AS OF FEBRUARY 8, 1979**      **TERM C79**

	BE	CH	CM	CE	CS	EE	EV	HU	ID	LS	MA	ME	MGE	MG	NE	PH	PL	SS	ND	TOTAL		
SENIORS		15	61	64	23	130	3			9	11	114	21	13	4	14	5	1		488		
JUNIORS		21	76	67	38	105	4		3	11	16	157	24	10	1	15	4		3	555		
SOPHOMORES		8	57	58	45	132	7		1	16	14	133	28	9	1	15	5		7	536		
FRESHMEN class '82		22	74	64	81	153	6	1	3	37	13	123	10	14	10	27	04	1	35	678		
FRESHMEN class '83																			16	16		
TOTAL		66	268	253	187	520	20	1	7	73	54	527	83	46	16	71	18	2	61	2273		
GRADUATE STUDENTS	26	13	25	22	25	31						32	3			6				183		
																				SU	61	
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																					4	
																					TOTALS	3195

SU — SPECIAL STUDENTS (FORMERLY FULL-TIME WPI STUDENTS)  
 SX — SPECIAL NON-DEGREE STUDENTS

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 Yes, I'd like more information on the NUPOC-C Program (80).

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First (Please Print) Last

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State \_\_\_\_\_ Zip \_\_\_\_\_

Age \_\_\_\_\_ †College/University \_\_\_\_\_

‡Graduation Date \_\_\_\_\_ \*Grade Point \_\_\_\_\_

▲Major/Minor \_\_\_\_\_

Phone Number \_\_\_\_\_  
(Area Code)

CNP 2/8

## NAVY OFFICERS GET RESPONSIBILITY FAST.



# Classifieds

NEWSPEAK will run classifieds for free to all WPI students, faculty and staff. Free classifieds are limited to 6 lines. Those over 6 lines must be paid for at the off-campus rate of 25¢/line. Deadline is Saturday noon for the following Tuesday issue. Mail to WPI Newspeak, Box 2472, or bring to WPI Newspeak, Room 01, basement, Sanford Riley Hall. Forms must be filled with name, address and phone no. for ad to be printed.

NAME \_\_\_\_\_ PHONE \_\_\_\_\_

ADDRESS \_\_\_\_\_ TOTAL ENCLOSED \_\_\_\_\_

AD TO READ AS FOLLOWS:

Allow only 30 characters per line.

\_\_\_\_\_ 1  
 \_\_\_\_\_ 2  
 \_\_\_\_\_ 3  
 \_\_\_\_\_ 4  
 \_\_\_\_\_ 5  
 \_\_\_\_\_ 6

**TYPING:** Reasonable rates, fast, reliable service. Call Harriet, 852-5433, evenings.

**FOR SALE:** Computer equipment, Calculator (TI58), Photographic Equipment (Enlarger, Zoom lens), 10 speed mens bicycle. For a detailed list and prices, send a note to Box 366.

**WANTED:** ME major (mechanics/design/fluids) for MQP design and building project for terms AB 79 and CD 80. If interested, please contact Gretchen, Box 2112, phone 791-8707, or Erik, Box 922, phone 798-3545.

**FOUND:** 4-5 month old female golden retriever (?) puppy. 755-5139.

**TIRED** of studying on a Wed. night? Then boogie, disco, rock (n'Roll) or walk to dance nite in the pub. This Wed. nite WPI's own Greg Caccale and WUSM's D.J. Mark Sawyer will combine to play the music YOU want to hear. Be there!!

**LOST:** Black lace bra. Last seen flying half mast on Aiden flagpole. If found, contact Cathy. ZPPC78.

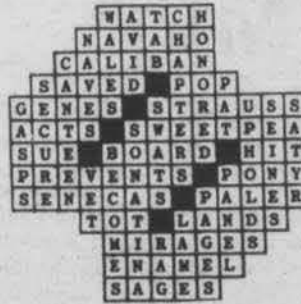
**CONGRATULATIONS** to Stephen Ronald Brodeur for receiving the Commuter Meritus Award for helping an injured person Monday, February 26. CLT

**ON Friday, March 2, 1979** a hideous crime was committed. WPI's first plant-napping occurred. We the plant-nappers claim responsibility. Stoddard B3 best pay up.

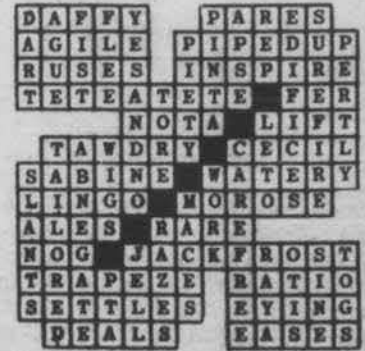
# Crossword solutions

Beginning this week, the solution to the current crossword puzzle will appear in the same issue as that crossword.

## Last week's solution



## This week's solution



9-5 now?



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Why rush to sit behind a desk? You can spend 2 years with the Peace Corps in a different country, learning a new language, and helping others improve their lives. Get the experience of a lifetime. Join the Peace Corps.

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## Campus Interviews March 14

We'll expand on this overview when we visit your campus. To arrange an interview appointment, contact your placement officer NOW!

If you are unable to meet with our recruiter at this time, please send your resume or letter of interest to: Mr. Phil Moran, Gilbane Building Company, Personnel Department, 90 Calverley Street, Providence, R.I. 02940. We are an equal opportunity employer, m/f/h.





# Sports

## Doherty hoop MVP

by Stephen Raczynski  
WPI Sports Information

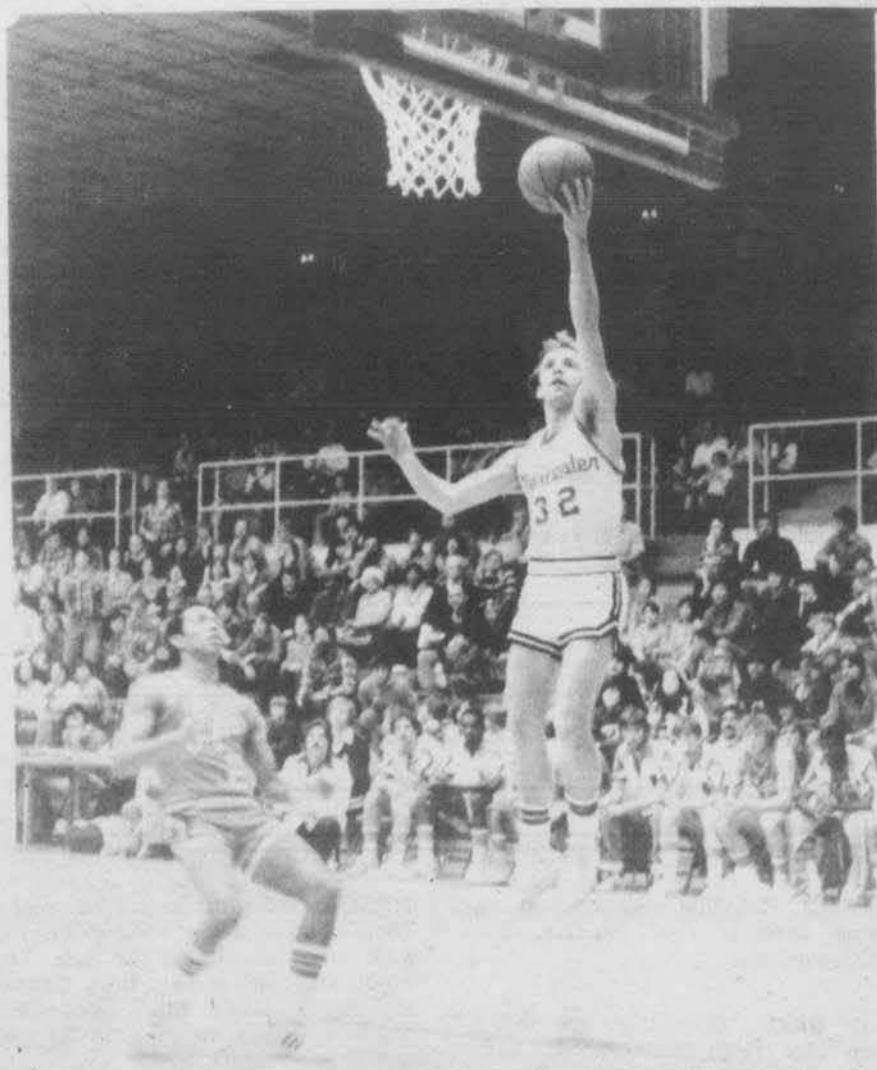
Kevin Doherty, the 5'10" senior All-New England guard from Manchester, NH, has been named Worcester Polytechnic Institute's varsity basketball Team MVP by the Worcester Area Basketball Coaches, Sportswriters and Sportscasters Association, according to WPI Head Coach Ken Kaufman.

Doherty was feted last Sunday March 4 along with five other area Team MVP's — Ronnie Perry from Holy Cross, Dave Kankins from Assumption, Kevin Clark from Clark, Vin Miller from Nichols and Tim Foley from Worcester State — at a banquet at the Sheraton-Lincoln Inn at 7 p.m.

Doherty capped his career with an

outstanding 23-point nine-assist evening on February 24 in a losing cause to NCAA Division III tourney-bound Clark University, 66-65. Considered the best guard in New England Division III, Doherty averaged 11.3 points and a record 9.5 assists per game this season. He holds every WPI assist record including career (567), career per game (9.0), season (200 — this past season), and game (18 vs. Middlebury in his sophomore year).

This past season, Kevin was responsible for an incredible 48 per cent of all WPI field goals made. "Kevin's great floor generalship is what separates him from all the other guards in New England" said Coach Kaufman. "He is certainly most deserving of this award."



Doherty scores

-Leon Droby

## IM playoffs approach

by Henry Boezi  
Newspeak staff

Before I begin this weeks rundown on the intramural games (mixed with a few remarks), I would like to unofficially announce the Rename A Fraternity contest. For example, SAE has been referred to by some people as the Sleep And Eaters, Saps At Everything etc... Address your suggestions to: RENAME A FRAT CONTEST Box 1888. Winners will be announced next week. Please show some tact. I hope there will be a greater response to this than there was to the BONG-ATHON CHALLENGE SERIES — you lightweights.

Speaking of lightweights, FIJI (A) and SAE (A) remained tied for first in League I. The boys in purple (everyone's favorite color) edged PATROL 40-34 and the Sleep And Eaters defeated SPE (B), 50-14. The C MEN evened their record at 4-4 nipping the WARRIORS (Lousy flick),

18-16 and SKID ROW whipped the KRUNCH BUNCH 39-12. TKE was idle. (How lucky can we get).

In League II, SPE (A) stayed unbeaten knocking off SP (A), 33-26 and IFY went to 7-0 also defeating SP (A), 49-26. Does that mean they're 16 points better than SIG EP? We'll find out tonight. Maki led IYF with 18 and Sid (sore knees) Fitzgerald had 12. UT raised its record to a very respectable 6-2 with two victories, 60-39 over BIG RED and a 48-19 win over KRAP. KRAP also lost to SP (A), 65-11 with their big guns — Racca, Miller, and ORB being shutout — again. I feel sorry for Earle. And it was Stod (A) 38 69ERS 35.

KAP (B), on top of League III, destroyed LCA (B), 71-28 with Phil Miles scoring 19 pts. Molinari had 18 and Rempe didn't score. They also had an unexpected difficult time with ATO (A) before winning 36-31. Montagna had 10. WIAN moved into contention for a playoff spot by beating

the ZITS — Olie's Boys — AXP, 62-28. Murray had 19 and Dave (It's not my fault my car is totalled) Derby had 14. They also beat TNG, OTR) Bernotta getting his deuce. STOD (B) won 45-16 over The Noon Gang.

IN League IV, KAP (A) still in first, blewout the blowouts — PSK (A), 61-31 with Lawler scoring 24. BEER (very original name), looking for a playoff spot, beat TC (B) 52-26. D2 (The Bongo Boys) tied for second behind Rego's 20 pts. (doesn't anyone from Daniels 2nd play on that team) beating SP (B) 60-9. Tremendous depth demonstrated by SIG PI.

ZOARS beat TC (B), 26-20. There's very little worth mentioning about League V. Those Loud Crazy Assholes, LCA (A), have one of the leagues' strongest teams. ROTC and DAKA (Manufacturers of SOYLENT GREEN) both didn't show up for their contest. (They should have given up a long time ago).

Once again, I would like to say thanks to all of you who have told me you liked the articles. The rest of you are dinks. Which rhymes with Kinks. Which is why most of the preceding is incoherent. In the words of Tom McBride — "GIMME A BREAK".

### INTRAMURAL STANDINGS As of March 1, 1979

LEAGUE I		II		III	
FIJI (A)	8-0	SPE(A)	8-0	KAP(B)	8-0
SAE(A)	8-0	IYF	7-0	OTHG	6-0
PATROL	5-2	SP(A)	6-2	WIAN	5-2
C MEN	4-4	UT	6-2	ATO(A)	5-3
SPE(B)	3-4	BIG RED	3-4	STOD(B)	5-3
SKID ROW	3-4	69 ERS	2-5	TC(A)	3-5
LCA (C)	3-5	STOD(A)	2-5	TNG	3-5
KRUNCH	2-5	SAE(B)	2-5	LCA(B)	2-5
WARRIORS	1-5	KRAP	1-7	AXP	1-7
TKE	0-7	BIOYA	0-8	QTV	0-9
IV					
KAP(A)	7-0	LCA(A)	7-0		
D2	6-1	KAP(D)	6-1		
BEER	6-1	ROTC	5-1		
PSK(A)	5-2	DAKA	3-2		
FIJI(B)	5-2	ZP	3-2		
ZOARS	3-5	DOA	4-3		
LCA(D)	2-5	MOUNT	3-4		
IDK	2-5	PSK(B)	1-6		
SP(B)	0-7	SAE(Z)	5-6.5		
TC(B)	0-8	SPE(C)	5-7.5		

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## HAPPY BIRTHDAY

Joan Marie McNamara (3/10)  
Sandra Marie Dorr (3/11)

CLT



# Women end season

by J. Gordon Gregory  
Newspeak staff

WPI's women's basketball team finished its season on a winning note last Tuesday by beating Babson College of Wellesley 61-57. WPI had a sizable margin at the half, but things turned right around in the second half with the fans of Babson really making themselves heard in their small gym. As the second half began to draw to a close, the Babson women tasted victory and kept the full-court press on. The press worked on this night when it wouldn't have a month or two previously, due to the loss of WPI's star guards, Sue Almeida and Michele Giard, both out with ankle injuries from previous games.

With 30 seconds left, Babson had closed the margin to four points — and then made the mistake which was to cost them the game. Babson fouled Junior Janet Hammarstrom, who is deadly accurate from the line, the more pressure the better. Janet sunk the first, and then sunk the emotions of Babson by swishing the second. Babson managed to score a basket by the time of the buzzer, but, alas, it was to no avail.

It was in the game against Stonehill on Feb. 17 that WPI lost Sophomore Sue Almeida, starting guard and playmaker. Stonehill, a real power in Division III, had a tough enough time with

the rest of the WPI squad, who held them to a 20-22 margin at the half. With Sue out, the glaring difference in the two teams displayed itself in the second half. Junior Leslie Knepp scored 11 points in one of her best games all year, though WPI lost, 41-53.

Before Sue Almeida's injury, two games were played at home that have not been reported on. On the 12th, WPI Hosted Rhode Island College. The big girls from RIC were more than WPI could stand, however, and they made us look silly with a score of 34-57. Janet Hammarstrom put in 13 for WPI. Two days later, WPI got their revenge by trouncing Brandeis, 60-39. Junior Peg Peterson and Janet scored 17 and 14 points respectively.

After the loss to Stonehill and the loss of Sue Almeida, WPI hosted Division II's Assumption. Janet racked up 20 points, Peg had 11, and Leslie had 9, but it wasn't nearly enough. The girls from Assumption combined for a whopping 87 points to WPI's 47.

And that is the end of the 78-79 season for WPI's women's basketball team. Only one player will not be returning next year; co-captain Pat Keough leaves after four years on the team. Her cat-like moves under the basket and her consistency will be missed. Another consistent and largely unnoticed player, co-captain Cathy

McDermott will be returning.

The new freshmen are a promising bunch. Michele Giard will surely become a star of future teams, barring another injury. Jocelyn Kent has the moves and the talent to replace Pat as a forward, and just needs more ex-

perience. That statement goes for the rest of the freshmen, Karen Dzialo, Cynthia Gagnon, Terry Wheeler, and Debbi Bromley, who certainly have natural abilities that will develop. Rounding out the squad this year was Junior Nancy Convard, one of Tech's few guards after the injuries occurred.

## Cycling Club events

by J. Gordon Gregory  
Newspeak staff

The WPI Cycling Club has firmed up its list of activities that are planned for the remainder of the academic year. A few suggested activities were dropped due to crowding of the schedule, but other additions more than make up for the losses.

One of the items to be canned was an on-campus cyclocross event. Cyclocross is a kind of cross-country event on two wheels. Not to be confused with BMX type racing, where the riders don't generally get off their bicycles, cyclocross events usually are 40 percent running — with a full-size 10 or 12 speed thrown over the shoulder. The obstacles in cyclocross are such that one has to get off frequently: 60 degree slopes, stairways, five foot brick walls, and whatever else the

course designer decides to throw in. Good riders can dismount, cross the obstacle, and re-mount without breaking their stride. Cyclocross will not come to WPI soon, however, the Board of the Cycling Club has tabled the idea in favor of other events.

On Sunday, March 11, the Cycling Club will sponsor the first of two roller races in the wedge. Events planned are 200 and 1000 meter sprints, with 1, 2, and 4 mile races. All events will be double elimination, so that a rider has to lose twice to be eliminated. Rollers, for those who aren't familiar with them, enable a person to ride a bicycle without going anywhere. Rollers are better than "exercycle" type machines because they utilize the same bicycle that one rides on the road, and they require similar concentration and balance.

Since many have not ever ridden rollers, there will be an opportunity to ride them at this week's club meeting. All interested should bring their bicycles, but if it can't be arranged, it will be possible to borrow a bike and try the rollers out. It will be necessary to have spent some time on the rollers to participate in the race. There will be more detail at the meeting.

The Cycling Club isn't all racing. Many members are interested in purely recreation riding and touring. Possible destinations for this spring's tours include Quabbin Reservoir, Mt. Monadnock, Martha's Vineyard, Tanglewood, and day trips. A new member of the club this year, Joe Strilichuk, is an experienced tour leader and veteran of the cross-country Bikecentennial tour (3000 mi.).

The Club will also sponsor a free-labor bike clinic at the beginning of D-Term. You can get your bike tuned up for free by experienced mechanics, and you can stand there and watch. Parts, such as brake blocks and cables will be supplied at cost by Barney's bicycle, 266 Park Ave. Members of the club in good standing also receive a 10 percent discount on parts at Barney's.

The meeting will be held at 4:00 p.m., Thursday, March 8, in the Salisbury lounge area. Membership in the Cycling Club is open to all members of the WPI community, which includes students, faculty, and staff.

## ...Straits

[continued from page 11]

With vocals that could unintentionally trigger an identity crisis for Bob Dylan, and guitar musicianship par excellence, Mark Knopfler teamed up with brother David playing rhythm, ensnaring the audience using crystal clear guitar riffs accompanied by a driving bass, compliments of skillful John Illfley. Pick Withers, tight and quick on drums, held his own and soon the entire room was bobbing to the sound of "Waterline", "In the Gallery" and "Wild West End."

Throughout the show, a slow burning fuse, fed by semi-hard English rock, approached the inevitable "Sultans of Swing," their current hit off their latest album. Disappointment received no invitation to this performance. Dire Straits could not escape a crowd demanding encore after encore.

After a four song encore, a chilly New England night embraced a stream of late-nighters with its silent greeting written among indecipherable grey clouds, informing all who cared to listen that "Swing" had arrived.

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**Monday, March 12, 1979**

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# Karate continues

by Mokhtar Boudissa  
and Jimmy Van Tour

Is there such a thing as the WPI Karate Club?

This story started when Frank Biagiarelli (senior) came to Tech in A term, 1975. He had been practicing Karate before. When at Tech, he found no club, so he and some other techies started their own Karate Club. Nothing official, since they had no instructor and no specific practice area. They looked for both. They contacted some Karate Clubs in Worcester, and got an instructor for a while. For some reason, he never came back even though he was paid for every lesson.

Toward the end of term B, Reinhardt Bartelmann, second degree black belt in Shotokan from SKA (Shotokan Karate of America), and student at Quinsigamond Junior College, met Frank and some of his club-mates while he was practicing in Harrington Auditorium. Reinhardt agreed to start to instruct the club at no charge except for a small fee which would go to the SKA.

SKA is a non-profit organization headed by Mr. Tsutomu Ohshima (fifth degree black belt, highest rank in organization headquarters in California) who learned Karate directly from Master Fimikoshi (1868-1957) in Japan, the father of modern Shotokan.

SKA is supported by regular membership dues which are collected equally from all students and other donations. SKA teaches Karate as a Martial Art during regularly scheduled classes in affiliated dojos and Universities throughout the USA. Internationally the SKA has affiliates in many countries including Canada and France.

The nearest SKA Dojo is at Hampshire College in Amherst. Reinhardt

is a member of that dojo who's instructor is Marian Taylor (third degree black belt, SKA). That dojo now includes 30 intermediate students, 15 beginners, and 12 advanced (6 black belts and 6 brown belts). Marian Taylor is a full time Karate and Aiki-do instructor and is employed by the athletic department of Hampshire College.

In order to become member of the SKA one must belong to a dojo instructed by a SKA member (in our case Reinhardt) and pay an annual fee of \$24 for intermediates and \$12 for beginners.

Hence the WPI Karate Club was born, with an initial membership of 25 or more, but by the end of the semester, many newcomers had left. One of the reasons was the lack of facilities. There was no specific practice area. Sometimes the Club met in Squash Courts, or practiced on the floor of the gym sometimes even out on the soccer field.

After one and a half years, when Reinhardt B. graduated from Quinsig. and transferred to UMass for a B.S., instructed practice sessions were reduced to two times a week, one session taught by Reinhardt and one by Marian T. who had been up till then only involved as a supervisor.

About the same time the Karate Club asked for support from the SAB (Student Activity Board), but they replied that the Club should go on trial for one year, in order to be eligible for support, despite the fact that some high authority had known of the club's one and a half year existence.

So another year went by. Finally, beginning A 78, the Karate Club had gained official recognition by the SAB and an extremely generous budget of \$300. This money was supposed to pay for the 84 trips that Reinhardt and Marion are making from Amherst to WPI in order to instruct three times

a week, Karate books, student trips to other clubs (primarily Amherst) and other expenses.

Presently the Club practices five times a week (two of which are optional), at 4 p.m., on the top floor of Harrington Auditorium, if not hindered by other events (e.g. concerts, etc.). On Fridays, there is a special session for the advance students from 6:30-8:00 p.m., instructed by Reinhardt.

Marion Taylor, who is the head instructor now, feels that the Club has

been doing good so far but maybe a better practice area equipped with such things as a punching ball, etc. may help to improve practice and membership. But Marion is willing to continue instructing, no matter what the conditions are, because, despite what people think of it, he believes that Karate is one of the best ways to improve the coordination of body and mind and most of all, to stay young.

Marion is 40.

P.S.: If you want Karate for gym credit, register for PE1000.



Karate practice

Leon Droby

## INTERVIEW

with

### GENERAL INSTRUMENT CORPORATION

The Data Systems and Services Group of General Instrument Corporation will be conducting interviews in the Boston area at the Hyatt Regency Hotel in Cambridge on Monday, March 12 and Tuesday, March 13.

The Data Systems and Services Group specializes in waging, point-of-sale and retail systems. Recent growth has created a number of positions in systems and applications programming using mini and microcomputers within a network environment.

To arrange an interview, please call Deborah Lindsey COLLECT at (301) 666-8700 between 9 AM - 5 PM.

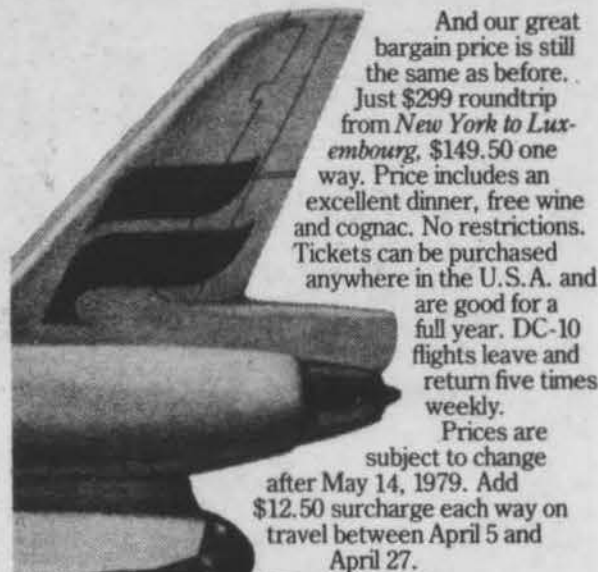


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# Housekeeper N.E. champ

by Duane Delfosse  
Newspeak staff

The WPI wrestling team completed its regular season schedule last weekend by competing in the New England Interscholastic Wrestling Tournament held at Massachusetts Maritime Academy. WPI

placed seven of ten entries in the top six; each of these achieving All New England status. The tournament was won by Coast Guard with 107 points followed by Western New England College with 106 1/4 and Mass. Maritime with 105. WPI followed a distant fourth with 94 points while Rhode Island College was fifth out of eighteen

entries. WPI had the second highest number of pre-tournament seedings and was favored to be among the top few teams fighting for the championship. WNEC surprised everyone by placing a very close second. WPI beat WNEC 28-19 in the last dual meet of the season and lost to Coast Guard 24-21, indicating how close WPI came to the champions. Those top few teams shot out ahead in points during the second round when six seeded WPI wrestlers lost and were sent into the consolation brackets. Once on the losers side, wins don't earn as many points and there are more bouts to wrestle in order to place. However, all six worked their way through the back brackets winning at least three to place in the top six. Dave Wilson, for example, won five bouts on his way back to the finals, since it was a double elimination

tournament.

Place winners were Craig Demsey, sixth; Jae Yong Ko, Tony Masullo, Tom Kilkenny and Duane Delfosse, all fourth; Dave Wilson, second; and Marshall Housekeeper was first. Marshall is the first New England Champion for WPI since Fred Snyder, another heavyweight, won it back in 1969. Housekeeper, and three time runner-up Wilson are presently in California representing New England in the Division III National Championships. Tony Masullo would have been in the finals had he not torn cartilage in his ribcage early in the tournament.

Next year looks to be a very good one for coach Grebinar with twelve returning lettermen, seven of which have been named All New England a total of thirteen times. But next year is a lot of beers away.

# Volleyball Club

by Tom Murray

The WPI Men's Volleyball Club spiked it's way to two more victories last Tuesday night in a tri-match against Providence College and Bryant. If you are one of the few Tech students who didn't spectate, you missed: Gino Capaldo's unreturnable serves sinking to the feet of awestruck Bryant players, Al Poon's graceful yet poignant sets, Leo Bocaruido and Dave Beceovich's fireball spikes knocking over Providence men left and right, Mark Pittenger's amazing saves, and Tom Murray and Hector Cabrera's brick wall blocks humiliating the opponent's key spikers; all this amidst the enthusiastic cheers of spectators. In short, you missed one hell of an exciting game.

The matches are two games out of three, and Tech quickly finished off both teams by winning four straight games. The scores were: WPI-Bryant

15-13, 15-9, and WPI-Providence 15-12, 15-8.

Coach John David has lead the team to it's present 5-1 record. We won against Bryant three times, beat Providence and Brown once, and lost once against Brown. Also in our division (the south division of the N.E. Collegiate Volleyball League) is URI.

Last year was the club's first year and we placed second in the division. This year we have an open shot for first. WPI also has a second team who's record is now 3-3, having beaten Westfield State, and Tufts twice, while losing to Wentworth, Clark, and UMass.

Upcoming home matches for the first team are: March 13 vs. Providence and Brown, and March 20 vs. Brown and URI. The second team will play Tufts and Bradford at home on March 5. Also, WPI is sponsoring the league's All-Star games here on March 18.

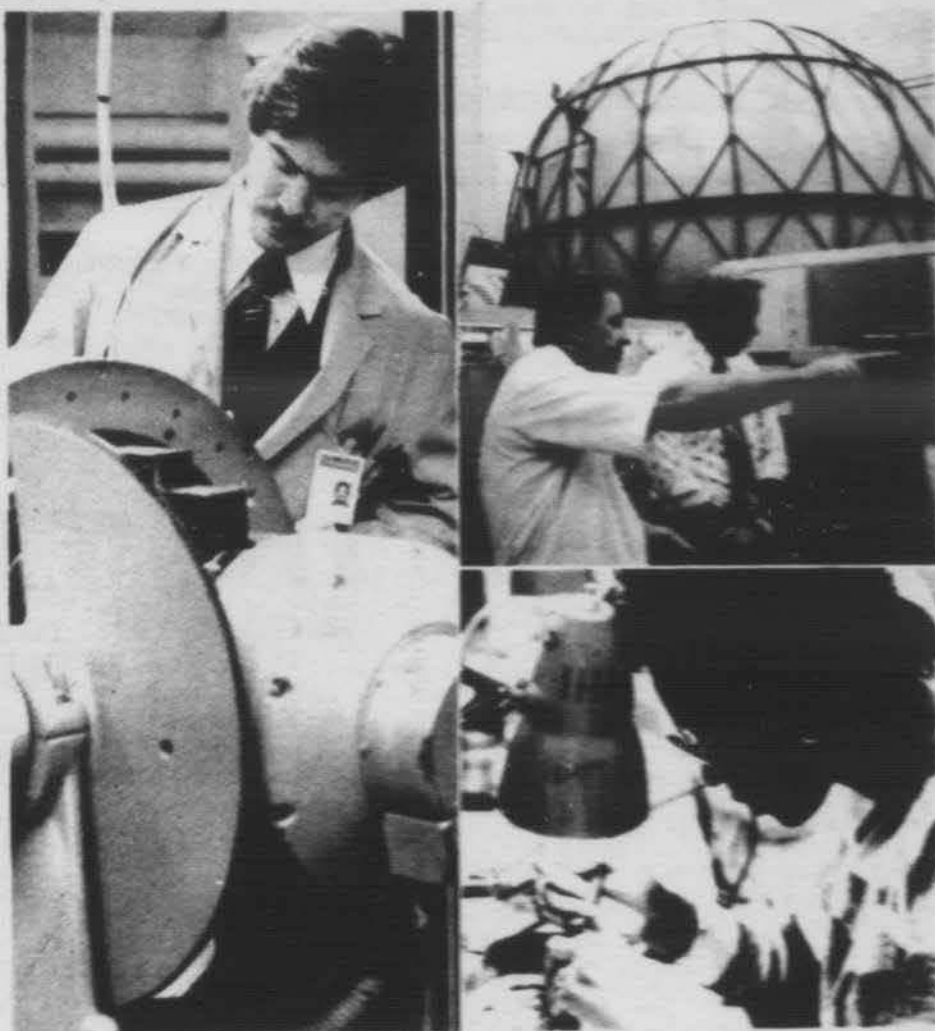
## Civil Engineering Colloquium

Tuesday, March 20, 4 p.m., Kaven Hall

"Building Reuse: An Architect's View"

William Gillen, Gillen Associates, Amherst, Mass.

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## Other productions open in Boston

### Foothills opens "The Silver Cord"

by M. Higgins  
Features Editor

On Wednesday, March 7th, Worcester Foothills Theatre will open its four-week run of *The Silver Cord*, a play by Sidney Howard. *The Silver Cord* was a theatrical breakthrough since it was one of the earliest American dramas to deal with the destructively overpowering mother theme. Originally, the play first opened on Broadway in 1927 and thus to maintain its original flavor it will be set in that period.

*The Silver Cord* will run through Sunday, April 1. Performances will be at 8 p.m. Wednesday, Thursday, Friday, and Sunday; 2 p.m. matinees on Thursday and Sunday, as well as 5 p.m. and 9 p.m. shows on Saturday. For ticket information, call the box office at 754-4018.

The Boston Comedy Playhouse will present the east coast premier of *The Great American Backstage Musical* from Friday, March 16 through Saturday, June 2. The era of the late thirties

spawned a particular type of movie, "the backstage musical". These movies, (staples of Hollywood in those strife-torn years), trace the lives of struggling writers, artists, and musicians as they are elevated to stardom. All theatre goers are urged to wear 30's and 40's attire. Performances are Thursday and Friday at 8 p.m. and Saturday at 7 and 9:30 p.m. Tickets are six and seven dollars. For further information and reservations call the box office at 426-8487.

*Bittersweet*, a new musical, will open its three week run on March 21 at the Church of All Nations, in Boston's theatre district. The show is best described as an unconventional conventional musical. The six members of the cast portray two characters represented at three different ages — youth, middle, and old age. Performances are Wednesday through Saturday at 8 p.m. and a Saturday matinee at 2 p.m. Tickets are \$6.50 and \$7.50, but students may attend at half-price. Any questions — call the box office at 357-5798.

## Part-time jobs available

by Jack Traver  
Newspeak staff

Availability for part time employment is as high as ever. Anyone wanting or needing a part time job to pay for schooling or just spending money should have no trouble finding something that actually interests them. The opportunities are numerous. For information on how to inquire and who to inquire to, visit the 3rd floor of Boynton Hall, the O.G.C.P. office. There, the names of contacts for any jobs listed in this column in the past, present, or future can be easily located.

If, after inquiring about a job, you find that the opening has already been filled, either notify someone in the O.G.C.P. office or remove the announcement from the Part Time Jobs bulletin board in the same office. This will eliminate inconveniencing another student who would be interested in the same nonexistent employment opportunity.

Interesting jobs for this week are as follows:

1) There is an opening for a gas station attendant who will begin by making \$3 per hour. The attendant will work 20 hours per week, 3 or 4 days per week. Jobs to be carried out include pumping gas, helping around the store, and rotating stock.

2) A pub supervisor is needed to work 20 hours per week on an alternating schedule, mostly nights and weekends. Beginning pay will be \$3.35 per hour. Responsibilities include supervising students workers, maintaining keg supply, checking inventory and counting receipts.

3) Coca Cola Bottling is looking for a Computer Keyer to work an IBM 3742. The keyer is needed to work for 15 to 20 hours per week evenings after 4 p.m.

4) If you are interested in being a cashier, there is an opening presently. Pay will start at \$3.00 per hour. You will be needed to work 25 hours per week. Other jobs will include rotating and putting away stock and making out reports.

5) A busting machine tender is needed to work 20 hours per week, 5:00 to 9:00 a.m. Monday through Friday. Beginning pay is an interesting \$4.00 per hour. The tender will work standing and some light lifting will be necessary. Thus good manual dexterity is required as a prerequisite for the job.

## Computer hardware vandalized

Once again, vandals have prevented the return of the computer terminals to Daniels Hall. Several weeks ago a box containing vital electronics for the terminals was vandalized. After many hours of work the box was repaired, but within hours the box was vandalized again. It was learned last Sunday that a new box was installed the previous day, but that box's entire electronic circuitry was stolen — within hours of its in-

stallation!

WPI Newspeak was told that value of the hardware stolen last Saturday was "not that great", but as a single unit it is worth "less than \$2000, but still expensive."

Newspeak was also told that earlier in the week a pile of computer paper was burned in the Salisbury terminal room. The fire damaged the carpet in the room, but there was no damage to computer hardware.

## Radio program explores tomorrow's technology

### WPI prepares "The Third Millennium"

by Lynn Hadad  
Newspeak staff

"What will life be like in the 21st Century? To help answer that, Worcester Polytechnic Institute is preparing a series of 15-minute public service programs entitled "The Third Millennium". In this series, a professional radio newsman explores what life will be like in the year 2000 A.D. by talking with men and women now working on tomorrow's technology."

The previous lines comprise the first paragraph of a letter recently sent out from the office of Roger Perry, director of public relations at WPI.

The letters, which were circulated to a number of radio stations, extended the invitation to the programmers of these stations to use the series of tapes.

The program was started in an effort to interest more young people in careers in science and technology. The facts are that the openings for those educated in technology will have greatly increased by the year 2000, but with the decline in the birthrate as a result of the 60's crusade for zero population growth, the number of people entering college will drop by approximately one-third. Furthermore, only eleven percent of high school grad-

uates have a sufficient background in math and science to allow them admission into a good engineering school. It is hoped that through "The

Third Millennium", more will be interested in pursuing a career in engineering.

This series, conducted by Richard

Kirkland of WTAG, will be broadcast over WPI's closed-circuit television daily at noon. The same program will run for one week.

## ENGINEERING GRADUATES

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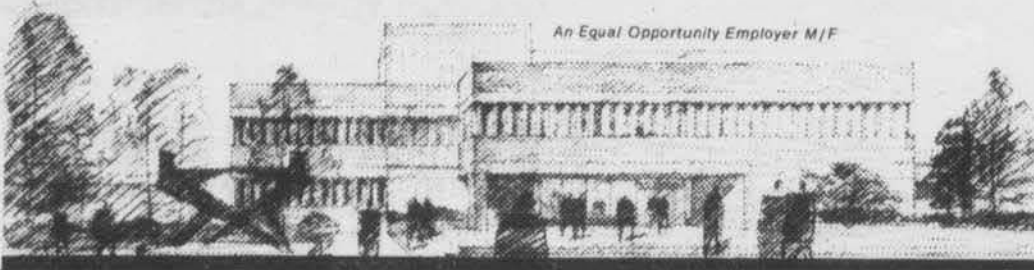
To arrange an appointment, Contact your College Placement Office.



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### WPI Solar Energy Society

Meeting on Thursday,

March 8, 1979 at 4:15 p.m. HL 109

"Opportunities in Wood Fuels for Industrial and Home Use"

by Joseph Cormier, Northeast Solar Energy Center, Cambridge, Mass.

All interested are welcome