

Newspeak

The student newspaper of Worcester Polytechnic Institute

Tuesday, February 18, 1975

Volume 3, Number 3

Resolving the grade controversy

by Greg Cipriano

Almost five years ago an innovative educational philosophy was invoked at this school and with it a disposal of the traditional grading system occurred as a necessary outgrowth. The framers of the PLAN obviously realized that letter grades, QPA, or whatever you wish to call this nonsense, is an ineffective means of assisting an individual to educate his or her self. What supposed functions then do grades serve, if any at all?

Foremost, they are virtually always associated with a measure of knowledge in a particularly narrow-minded area. How this

and in this sense grades are said to act as a motivational tool (reward structure in disguise). This is indeed nonsense if a school seeks to foster intellectual maturity in its students. Motivational tools imply spoon-feeding and a need for feedback is a lack of a healthy self-perspective. These functions of grading are clearly antithesis to the educational philosophy of this school.

Thirdly, quality control (if one wishes to call it that) is firmly entrenched in an institution's grading system, traditionally speaking. Students "make the grade" and the institution is satisfied for the most part concerning the quality of education transpiring. However, as the system itself is based on somewhat arbitrary, sometimes erroneous evaluation methods, quality control becomes a void concept. This neat, technical educational solution to the quality control paranoia lacks realism. Being such an ambiguous concept by nature it can have no general relevancy. Quality control is a by-product of an educational program that has a suitable teacher-student dialogue. QC via the grading system is ineffective and should be replaced by a more relevant and meaningful verbal exchange beneficial to both parties. This is something we need more of on campus to be sure.

Finally, there is the graduate school and employment phenomena. Professional schools, especially medicine and law, and industrial employers love to assure people by two digit numbers due primarily to their own laziness. I for one refuse to be dehumanized in such a fashion. My feeling is that suitable recommendations from warm bodies carry more significance in the end than cold, lifeless numbers. Obviously the validity of

any recommendation is a function of student-teacher communication.

One of my reasons for entering WPI was the PLAN grading system. My secondary school experience left a rancid taste behind with regards to grading. The competition it instilled was pointless. The educational atmosphere grades promote is stifling to a young, creative, exploring student — the pressure for some is unsurmountable, they drop out. Learning should be an enjoyable experience. Were it not for the educational liberality of this school that statement would not be true for myself. I know on this point I am not alone. If traditional grading is reintroduced under the plan, even in an amended form, this institution will be preaching one philosophy while realizing another.

However, there are people on campus, faculty and students alike, who are no way convinced of these common sense observations. These people are pushing for a change in grading systems, from the present system to A,B,C,NR. No QPA is proposed in the change, nevertheless, this seems to be the next logical step — backwards in my opinion. The Committee on Academic Policy, of which I am a student member, is in the process of assessing the need, if any, for such a change. An open debate, held by the CAP, will be held concerning this Feb. 25., Tues., Academic Planning day, 4-5:30 p.m. in the Library Seminar Room. All interested students and faculty are urged to come and state their candid opinions. Perhaps we can put an end to this needless controversy.

Open Debate on Grades
sponsored by the
Committee on Academic Policy
Time: February 25
Tuesday Academic
Planning Day
4:00-5:30 p.m.
Place: Library Seminar Room

knowledge is measured everyone is aware of and how to beat the grading system and evaluation procedures is old hat to some. Misrepresentation of the students actual abilities is an inherent, therefore inevitable, flaw of this system. Its sever injustice at times can make learning a frustrating task — a quality of a repressive educational system. In this instance nothing is better than something, when that something works against you.

A second supposed function grades serve has been cited as a form of feedback to the student as to what his or her "progress" is

Tuition up \$250

Trustees vote increases

Saturday, Feb. 8, the board of trustees of WPI approved a new \$14.8 million budget for the 1975-76 fiscal and academic year. Total expenditures are expected to rise 8.5 per cent next year. Tuition will rise \$250, from \$2900 to \$3150 effective September, 1975. David E. Lloyd, vice-president for business affairs, presented the budget to the board.

Increases in room and board rates are anticipated, but because prices are changing so frequently now, WPI will not set next years rates until later on in the year. Anticipated increases call for a 10 per cent increase in rooms and 15 per cent increase in the food service. These increases are within the present inflationary trend and are

somewhat lower than most private New England colleges and universities.

The WPI Plan to Balance the Budget has reached its midpoint in its five-year program and reports it has raised \$11,359,381 of its \$18.5 million goal.

President Hazzard reported on the renovation of Salisbury Labs. The top floor will remain sealed off because estimates for its renovation was in excess of the \$1.5 million allocated for the Life Sciences Center which would occupy it.

Dean Reutlinger reported that admission applications are being received at the same rate as last year with transfer and women applicants coming at a higher rate.

Format changes

Humanities Department

[Ed. Note: The following is the first in what we hope will be a regular column on changes within academic departments. Comments and suggestions are welcome and should be sent to Box 2472.]

by Toby Gouker

It looks as though the Humanities department of WPI is going to be changing its philosophy about the sufficiency next year. There are courses being dropped and new courses added. These new courses are intended to provide a conceptual introduction to the major disciplines in humanities studies. Students will encounter the basic methods of critical analysis for their future studies in specific areas of the humanities. These subjects are not just surveys or historical overviews. Each one of the four courses will be offered during terms, A,B,S, and D of every year. There will be a limited enrollment in each of the classes.

The Humanities department recommends that students who are reasonably certain of their area for their sufficiency should take the appropriate core course. If the student is uncertain of his area, he should take two of the core courses. All students are encouraged to take two core courses beyond the Humanities Sufficiency.

The courses that were deleted are:
HU 1000 Utopias and Communes
HU 1001 Romanticism

The new courses are:

HU 1000 Concepts of Analysis in Philosophy, Religion, and Ethics Cat. 1, SC

This course is divided into two parts: The first deals with the basic concepts, premises, and reasoning methods, found in philosophy, religion and ethics, the second part compares and contrasts various philosophical, religious, and ethical points of view.

HU 1001 Concepts of Literary Analysis Cat. 1, SC

This course will present and examine various genres of literature, and various methods of critical inquiry in literature.

HU 1002 Concepts of Historical Analysis Cat. 1, SC

This course focuses on one or more historical problems. It explores the nature and methodology of historical inquiry.

HU 1003 Introduction to the Arts Cat. 1, CS

This course provides an introduction to a critical understanding of the arts of poetry, music, drama, film, painting, and sculpture. It serves to acquaint the student with a critical vocabulary needed to understand each art more fully. HU 1003, whenever possible, will make use of the current events in the Worcester area, events such as art shows, museums, concerts, plays and films.

Fundamentals of Music II, Cat. 1 SC
This course is being changed from independent study.

FinAid information

This is a notice for all students who will be applying for financial aid for the academic year of 1975-76.

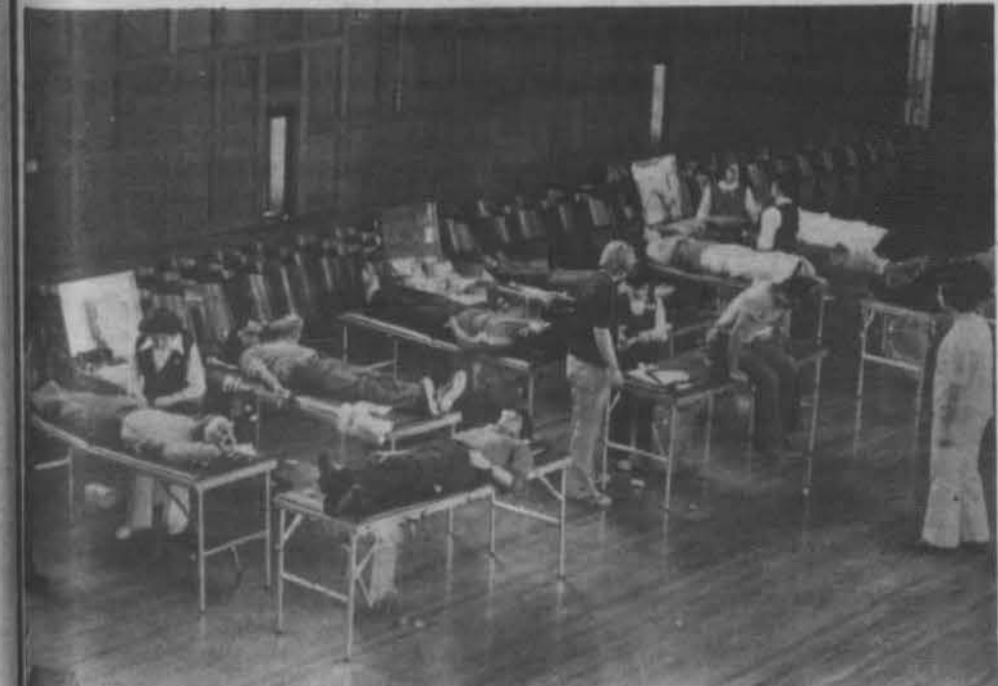
The application package contains a lot of pertinent information along with the required Parents' Confidential Statement. Before you unload all of the information onto your parents' lap for them to fill out, please note the bottom section of the last page of the PCS.

If your parents check off the "YES" box, they are authorizing Mr. Heselbarth to discuss their income information with you. If your parents check off the "NO" box, all income information must remain con-

fidential! In other words, if you ever have any questions regarding your financial aid, and you wish to discuss them with Mr. Heselbarth, the most he can tell you is that your parents don't want you to know what their income situation really is. Of course you'll get upset with Mr. Heselbarth, but you really should get upset with your parents. They chose to check off the "NO" box.

One way to alleviate this problem is to discuss, with your parents, which box they are going to check off before they complete the form.

The Financial Aid Office



Last Week's Blood Drive netted the Red Cross 450 pints of WPI blood, in spite of poor weather and sleepless pledges.

(Egerton photo)

NEWSPEAK policy on free classifieds:

In view of some past problems, some recent, some not, we find it necessary to set

down the following policies for our free classifieds section:

1) All ads must be in good taste (to be judged by the Editors).

2) Anonymous ads of a questionable nature will be printed only at the discretion of the Editors.

3) We do not assume responsibility for typographical errors, especially those caused by poor penmanship.

Editorials: MASS PIRG tries again

Reporter's notebook

It would be interesting to see how Mass PIRG does in their second attempt to move into WPI. With the wave of apathy on campus steadily soaring, it would be fairly easy to overwhelm the WPI Community without too much trouble. Three years ago, PIRG failed to receive a decent amount of votes in a referendum and quietly slipped out the back door. Now they are trying again, but using a different approach. This time they are trying to get 51 per cent of the student body to sign a petition instead of risking another defeat at the polls.

Also, how a private engineering school will take to an organization that is generally opposed to highway construction, nuclear power plants, and large renewal projects will be very interesting indeed.

This column is not to condemn or condone PIRG. PIRG is very active in other fields too,



among them being consumer and civil rights protection. But still, PIRG isn't exactly what you would expect to find on a private engineering campus.

Peter J. Mulvihill
DAK BDM ELK

During the next two weeks students from WPI will be asking you to sign a petition supporting Mass PIRG. In order for Mass PIRG to become a viable organization on campus a majority of the WPI students must support it. You can do this by signing the petition. If it is signed by a majority of students the school will act as a collection agency for PIRG's membership fee. The student government supports tacking on \$2 per semester to the student activity fee. A possible alternative is for the \$2 to be listed separately on the bill. In the latter case it would be stated that this amount could be deducted if desired. In either case it would be possible to get the money back at sometime during the year, if you changed your mind about PIRG.

Why should I support PIRG? Mass PIRG is essentially your representative. It is there to combat the injustices plaguing the consumers of this state. In these times of inflation we need to be sure that we are not being taken advantage of by some unscrupulous business persons.

What is PIRG doing? Presently PIRG is combatting violations of the truth in advertising law, challenging laws that prohibit advertising prescription drugs, using all legal means to protect the ecology, not to mention much more. To cite an example; Route 7 is a proposed super highway running from Norwalk, Conn. to Burlington, Vt. It was being built in various small sections to make one superhighway. The reason for this is that when these small sections are built it is not necessary to have in depth ecological studies done, but it is when a superhighway is built. PIRG brought this to court and "Judge James L. Oakes of Vermont's Federal District Court agreed with the Coalitions view and ruled that an acceptable environmental analysis considering the impact of the highway on the entire three-state area would have to be done before further building could occur".¹ This is just one example of how PIRG helped protect the environment.

This has been a quick overview of what PIRG is and what it is doing. Do you think that \$4 a year is too much to spend on a group that does what PIRG does? If your answer is NO, then you should sign the petition, this week. If your answer is YES then I hope you will think more about what the environment means to you.

1: Mass PIRG Reports Vol 3 No 2 Spring 1975

John M. Zimmerman

This week there are several students collecting signatures on a petition to organize and establish a chapter of Mass PIRG at WPI.

It's good to see that there is a solid core group of students, despite the general apathy on campus, that are interested enough in affairs outside the campus to get involved in a large persuasive organization with definite goals and ideals.

There are several other large organizations, student chapters of larger organizations, etc. on this campus and from all appearances, Mass PIRG just wants to join the ranks of the rest of them. There is just one thing, Mass PIRG wants one thing the others don't have: guaranteed membership. Under Mass PIRG's proposal, a mandatory two dollar fee would be added to the social fee on each student's bill at the beginning of terms A and C, and therefore you are a paid member of the WPI chapter of Mass PIRG, automatically.

In a talk with a Mass PIRG promoter, the procedure goes on at every college and university PIRG is affiliated with. If a person wishes not to be a member of this organization, about three weeks after the start of the term, there will be a day where he may have his name stricken from membership role and have his two dollars refunded. But you must do this everytime WPI sends you a bill, if you do not want to be a member of PIRG.

PIRG may be a good thing for this campus as an organization, but it should remain in its perspective as a student organization just as any other group of private interest do and should not be entirely dominant in the way it wants things done. As the PIRG petition is set up now, only those definitely opposed to joining Mass PIRG will make the effort to get their money back. Those who just do not care about PIRG, its work, views, or opinions, can be claimed as members by Mass PIRG because their apathy is at such a level that they won't even bother to collect their refund, or they'll completely forget about it.

Instead, PIRG should ask those who want to join and work for them to sign up and then pay any membership fee just as every other campus organization does. They should at no time assume the whole student body as members, nor should they demand an initial deposit (granted, \$2 gets lost in a bill of over \$2,000) from those that do not want to join, even if they be in a small minority.

Mass PIRG could be very good for this campus, but it is starting off on the wrong foot.

Peter J. Mulvihill
BDM
DAK

Wastepaper

Contrary to what many people would undoubtedly like to believe, this is not a statement of an opinion of *Newspeak*. Instead, it reflects a concern over the enormous amounts of paper wasted daily by all of WPI in general.

Just by virtue (?) of being a college, WPI naturally consumes a large amount of paper each year. Intra-campus communication must be maintained, and our educations really should continue, so the bulk of our paper consumption will continue. Some things can be done, such as recycling envelopes and trimming wasteful practices, but we will continue to use much paper.

At this point, two major areas of waste make themselves conspicuous on campus: the computer center and notices. The volume of (legitimate) work done at WACCC will continue to eat paper, in spite of efforts by WACCC's administrators to cut down. The real waste comes from, and can be cut down by, the users. Anyone who works the I-O desk at WACCC can tell some good horror stories about users, generally "turkeys," who indiscriminately generate up to hundreds of pages of output they don't really need, and sometimes never look at. (This doesn't include honest mistakes, which I have recently become notorious for.)

Another area in need of vast improvement is the use of computer cards. Cards are made of very high quality paper, and the construction and operation of the keypunches is such that it is very easy for the careless to throw out one or two blank cards with every bad one. The solution: don't be careless.

No college is complete without bulletin boards and walls covered with notices, which are generally useful. However, a little bit of planning and thought can eliminate the need of burying the intended audience. The Mass PIRG chapter organization group comes immediately to mind, but aren't alone by any means.

Finally, the most obvious point to bring us is the very newsprint you happen to be reading right now. The 3500 issues we print each week may seem excessive by an off-hand evaluation (I'm sure someone out there is saying one issue is excessive), but virtually all of the papers disappear each week; if we find that a substantial number are going unused, we'll look into cutting down. If you stop wasting our paper, we'll stop giving it to you.

Recycling of paper has lost the major part of its usefulness since the price of scrap paper plummeted several months ago. The reason: the market is glutted with scrap paper. The solution: cut down on the scrap.

Newspeak would be happy to act as a medium of an exchange of ideas on this subject (or almost any subject), and would especially appreciate hearing from those on campus who have been working toward elimination of waste. In the meantime, the rest of us can start being a bit more careful.

Doug Knowles
BDM
PJM
JMZ
ELK

Newspeak

The student newspaper of Worcester Polytechnic Institute
Box 2472, WPI, Worcester, Massachusetts 01609
Phone (617) 753-1411 extension 464

editors-in-chief

Douglas A. Knowles
798-0837

Bruce D. Minsky
757-0423

associate editors

Steve Fine
Rory O'Connor

news editor

Peter J. Mulvihill
791-9503

features editor

Ellen L. King
752-9809

photography editor

Mike Wagner
753-3484

sports editors

Richard Clapp
Brian Young

writers this week

Greg Cipriano
John Dieters
Toby Gouker
Bryce Granger
Paul Grogan
Kevin Hastings
Neil Wright

staff this week

Tom Killeen
Laura Mattick
Tina Tuttle
Linda Woodward

make-up editor

Russ Warnock
art director

Carolyn Jones

managing editor

John M. Zimmerman
798-2611

business

Tom May
757-9971

advertising

Ed Robillard
757-9971

circulation

Dan Garfi

faculty advisor

Dr. S.J. Weininger

WPI *Newspeak* of Worcester Polytechnic Institute, formerly *The Tech News*, has been published weekly during the academic year, except during college vacation, since 1909. Editorial and business offices are located at the WPI campus in the Quiet Room of Riley Hall. Printing done by Ware River News, Inc., Ware, Mass. Second class postage paid at Worcester, Ma. Subscription rate \$4.50 per school year, single copies 20 cents. Make all checks payable to *WPI Newspeak*.

Wasting energy

In the midst of a financial crisis, and in the midst of an energy crisis it pays economically and makes good sense to conserve energy. Many people may not realize this school is in an economic hole. As good a way as any to contribute to the survival of the school is to save energy.

Goddard Hall always seems to be overly hot. So hot as to necessitate the opening of windows in the middle of winter. The temperature does fluctuate but remains in the mid to high seventies. According to a study made by the Honeywell Corporation from 3 to 10 percent of heating costs could be saved per degree lowered. All the buildings should be kept no higher than 68 degrees and the lower the better.

The freshmen dorms temperature varies the most of any of the buildings. If the temperature remains constant, heat is

conserved. Presently the radiators have manual control valves. These make having a constant heat difficult. To compensate for a hot room the windows are opened. This over compensates and the radiator is forced to work harder, thereby wasting energy.

There is a way each of us who drive into school everyday to save energy. If four people shared the costs in a car pool then it would cost each person 1/4 of what it would have cost if that person drove in alone. An inducement for this would be a special rate for carpools.

Even more energy could be saved if the school could institute a commuter bus system traveling through the various areas and picking up students and faculty at specific set locations. This service would be strongly suggested and could be helped there was a special higher parking rate for those who could and did not use the bus. In any case the rate for the bus could be cheaper than if each person drove in to school. Discussion invited.

John M. Zimmerman
RWW
ELK

READING CLASS

15 hours — \$5

Inquiries: Boynton 205

Letters: Who killed JFK?

No credible evidence suggests that the shots were fired from the railroad bridge over the Triple Underpass, the nearby railroad yards or any place other than the Texas School Book Depository Building.¹

The above was the conclusion drawn by the Warren Commission upon its publication of the *Report of the President's Commission on the Assassination of President John F. Kennedy*.

During the weekend of Jan. 31-Feb. 2, this conclusion once again came under fire. At Boston University *The Politics of Conspiracy Convention* was held to allow several reported "experts" expound on their own theories as to what happened that fateful afternoon in Dallas. While theory upon theory was brought forth, the main purpose of the convention was to make known the inadequacy of the Warren Commission Report, (hereafter referred to as the WCR) as well as many other purported "facts."

Included among those speaking at the conference were Wayne Castain who has researched the Martin Luther King killing, Mark Lane of *Rush to Judgment* and WPI speaking engagement fame, Peter Dale Scott who has researched possible Dallas to Watergate links, as well as many others. Jim Garrison, a New Orleans attorney, was scheduled but was unable to attend.

The convention consisted primarily of three parts. On Friday night Mark Lane presented a keynote address and spoke of the difficulties of research into domestic assassinations. During Lane's talk a copy of the Zapruder film was shown. For the uninitiated, the Zapruder film was taken at the assassination site and must remain the most convincing denial of the WCR finding of a single assassin. The Zapruder film clearly shows the President clutching his throat and beginning to lean forward slightly as he is first hit. Moments later the right temple area of the President explodes in a mass of blood and Kennedy is obviously driven backwards and to his left. The film had to convince all those who viewed it that a *minimum* of one

shot was fired from the right and in front of the President. Unfortunately for the Warren Commission, at the time of this hit, (frame 313 of the Zapruder film)² Oswald, the alleged assassin, was far behind the Presidential motorcade. It thus becomes clear that the Commission finding that Oswald fired the fatal shot cannot be believed.

Lane's keynote address was interrupted several times by a man in the balcony who shouted, "No, No" and "Let's see the film" following many of Lane's statements. Inexplicably, after the film was shown, the dissenting voice was no longer heard.

The invalidity of the WCR, in my own mind, has long been a foregone conclusion. For this reason, ensuing articles will attempt to deal with the various areas of controversy that were brought out in the last two days of convention. These topics included: the murders of Robert Kennedy, Martin Luther King, Malcom X, Fred Hampton and others. The attempted assassination of George Wallace. CIA domestic intelligence work, and the above mentioned possible Dallas to Watergate links.

Should anyone be interested in contacting me about the actual mechanics of the John Kennedy assassination, or be interested in seeing a column on any of the many areas of controversy,

1. Oswald, murder
2. Death of key witnesses
3. News media cover up
4. Oswald background
5. Faked photographs
6. Jack Ruby background
7. FBI and Zapruder film
8. Entrance or exit wound?

I can be reached by leaving a note in Box 328. Those who are interested in the addresses where more information can be received, may do likewise.

Name withheld upon request

¹ WCR., p. 61

² WCR., p. 108-109

Morgan food — another upset stomach

To the Editors,

I have decided to stop putting up with Morgan dining hall in silence (my stomach hasn't been silent for quite a while). Actually, I'm not going to complain about the food. It probably couldn't be very much better, for what we're paying, and I don't think a price increase is in order.

But for disorganized chaos, the folks who run our dining facilities take, if you will excuse the expression, the cake. Let us consider what one has to go through in order to eat dinner here:

After spending a considerable portion of his life waiting in line, our hero, Joe Techie, is admitted into the cafeteria. First, though, someone has to look at the sticker on one side of the card and the picture on the other side, then search his sheet of paper for the number, which he proceeds to cross out (in this oasis of creative engineers, can no one improve upon this system?). Joe then picks up a wet tray. He now has a choice of about four entities, which I shall inaccurately call 'lines' for lack of a better name, in which to stand.

Eventually, if he is patient, Joe ends up in front of the serving area proper. Then, and only then, does he see what is for dinner. He also finds out whether he joined the proper 'line' or if he should have gotten in the 'line' to the left, there to get the beef stew instead

of the hash. Or whatever. In any case, he gets his food and leaves the serving area. This is not as easy as it sounds. Going in, there are 'lines', going out, it's every person to himself.

Joe now goes to get his dirty silverware. This used to be difficult, now, with all the silverware in one place, it is virtually impossible. (The person who had the brilliant idea of centralizing the silverware should be given a certificate for making the year's greatest contribution to chaos and confusion. Him, and the genius who thought of handing out the second semester meal card stickers in the doorway as we come in!)

So now Joe goes into the dining room. He gets two glasses of chocolate milk. He wanted white milk, but it was gone. Then he finds a seat... perhaps. He eats his chicken, or whatever. Then, thinking, "you only live once," he decides to get seconds. He dumps the chicken bones from his plate onto his tray (where else?) and goes back into the serving area. I could describe what he goes through to get seconds, but I think you get the idea.

In fact, I think we all got the idea a long time ago. All of us but the cafeteria staff. Isn't it about time someone told them? After all, we don't want them to feel left out, do we?

Richard S. Holmes

No thanks, I'm on a diet

To The Editors:

Have you ever felt a gnawing anxiety, even when everything seems to be going right? Have there been times when you felt that nothing could ever satisfy an inner craving that you couldn't quite pin down? Is life sort of dragging along between the emotional highs you seem to need more and more? If so, it's time to check out your life in the soul food department. Yes, you do indeed have a spiritual side of you, and like your body it needs nourishment in order to withstand the rigors of life.

First, let's look at the worldly plan, the Devil's Quick-Loss Diet. You've got to admit, the world can certainly stimulate an appetite. You can't beat sin for a really quick charge of sensual pleasure, highly spiced or chockful of sugar. And Satan is undoubtedly the foremost authority on artificial flavorings and extracts. If anyone can take trash and convince you that you're eating gourmet food, he certainly can. But where is the nutrition in living on sugar, spice, and A-1 sauce? Sugar can charge you up fast, but it wears off, and you need more and more just to keep going. Spice certainly is exciting, but only goes so far, and you'll still have an empty stomach. Do you really think that appetite-depressants, that overwhelming what's the use feeling, is going to solve the problem of hunger pains? Is slow starvation the kind of life you enjoy? Maybe you've never known that it could be different.

The cynics of the world are quick to point out that compared to the world's treats, the

Christian diet is pabulum. And it's true that this is exactly how it has to start. A person who has not eaten for a long time, or a baby who has never tasted food cannot tolerate the richer foods immediately. However it won't be long before you can sit at God's table and partake of his bounty. And just as a sports team's training table is wellbalanced to build strength, god's has the right variety and amount of spiritual foods to develop your spirit to its fullest capacity. You'll feel the satisfaction of loving others unselfishly, comforting the afflicted, coming to an understanding of your relationship to the universe through God's Word, the Bible. And best of all, you'll come to a personal relationship with Christ, the ultimate source of spiritual nutrition. Believe me, there's no better way to face each day than to be healthy in mind and body, and spiritually well-fed.

This then is the choice: the over-spiced, sickeningly sweet diet of the world, with the deadly wines of ambition, the hard liquors of greed and lust for power, among others, or the hearty, robust meal at Christ's table, with His living water to quench your soul's thirst eternally. I hope that soon when that old candy man, Satan, comes around with his marzipan and sugarplums that you too will be able to say, "No thanks, I'm on a diet."

See you at the WPI Christian Bible Fellowship on Thursday nights at 7:30 in Stratton 302.

Rodney Dill

PIRG is here

To the Editors:

All during this week and next students will be asking you to sign a petition requesting President Hazzard to allow Mass PIRG to collect a \$1 per term fee (payable twice yearly) from each participating student. I call upon every single student, undergrad., grad., full or part time, to carefully weigh the advantages of a QPI chapter of Mass PIRG against your own conceptions before you sign or refuse to sign that Petition.

Last Thursday we talked with students who were interested in petitioning for the necessary majority student vote. We have a nucleus of very interested people, interested in working with Mass PIRG on campus. That's all well and good, but why should the average student get excited over another student organization at WPI? "What can and will Mass PIRG do for me? is a practical question when your money is involved.

The involvement of 1000 engineers, scientists and technologists will be of invaluable assistance in combating injustices against the consumer in this country. Mass PIRG is one of twenty three states organizations who pool their resources and talents when beneficial to the public interest. At least, you can be linked up with students from seventeen other colleges around Massachusetts to aid in making for better relations between the Massachusetts consumer and the businesses which serve him.

A chapter of Mass PIRG at WPI will provide a more varied program of projects for the student, who is looking for a non-qualifying or interactive qualifying project in the area of consumer interest. There are several such projects going on now, such as the one advised by Prof. Roy Bourgault, ME. The mechanisms of Mass PIRG would allow projects such as these to reach a more final conclusion; perhaps as part of state legislation in a particular area. An example of this is a suit filed in January by the Consumer Protection Division of the Attorney Generals' Office against three retail furniture stores in

the Greater Boston area. This project was started by the Boston PIRG office, but it could just as easily have been started by a WPI student interested in the truth-in-advertising laws.

Other projects being studied by Mass PIRG chapters are the necessity of publishing a Doctor Directory, providing essential information about qualifications, etc. of Massachusetts doctors; an attempt to implement a bill similar to the Oregon Bottle Bill; nuclear safety regulations with regards to large power plants; an effort to block retail sale of proven unsafe toys.

What else can Mass PIRG do? A lot, but only with our help. Those students who are petitioning know more than what has been presented here. Ask them about it. Talk about the issues, then sign the petition. On Wednesday, designated a Project Planning Day, the members of the IQP to get PIRG on campus will be describing their project. They will have any information you would want to see.

John A. Cheney

The pub cover charge

Dear Editors,

I was a little disappointed when I went down to the Pub Saturday night and found that there was a 50c cover charge. Last time I checked, the Pub was made for students, by students with students' money. I realize there was a difference between student cover and outside person's cover but I still feel that the last place you can go to see some friends and get a beer for 35c, and when told there's a 50c cover, I think an injustice has been done to the WPI community.

James Hall
Class of '76

The role of religion

To the Editors:

After visiting on campus for about a year, I would like to share some observations about religion at WPI.

1) There are a lot of people evaluating and changing the beliefs they acquired about God and life, as they were growing up. They are putting their religion to the test to see if it can stand up with their new knowledge, their new social life, and their new ambitions. I believe a person should be encouraged to examine their faith in the same manner that they examine their feelings about their work, their study, their friendships and their life in general.

2) There are many people on campus who are not involved in organized religion but who are concerned about very important matters which are closely related to our religious-ethical life. This includes the following items from last week's *Newspeak*:

Blood Drive, Racism in Boston, PIRG, Humanities sufficiency IQP, contraception and family planning, and housing.

I believe that religion should support humanitarian causes and ideals of justice and cooperation wherever they may be found.

3) There are a few people who either go to church or a campus service and are willing to be identified with organized religion. There are benefits to be gained from singing and worshipping with others and sometimes the search for one's own inner religion can be stimulated by discussion and sharing of common concerns.

I believe that it is possible and probably desirable for a new religious organization to be formed at WPI. Any thoughts you may have please sent to Rev. Stan Culy, Protestant Ministry Coordinator, Box 2373. Rev. Stanley P. Culy

Registration easy as Π

by Bruce Minsky

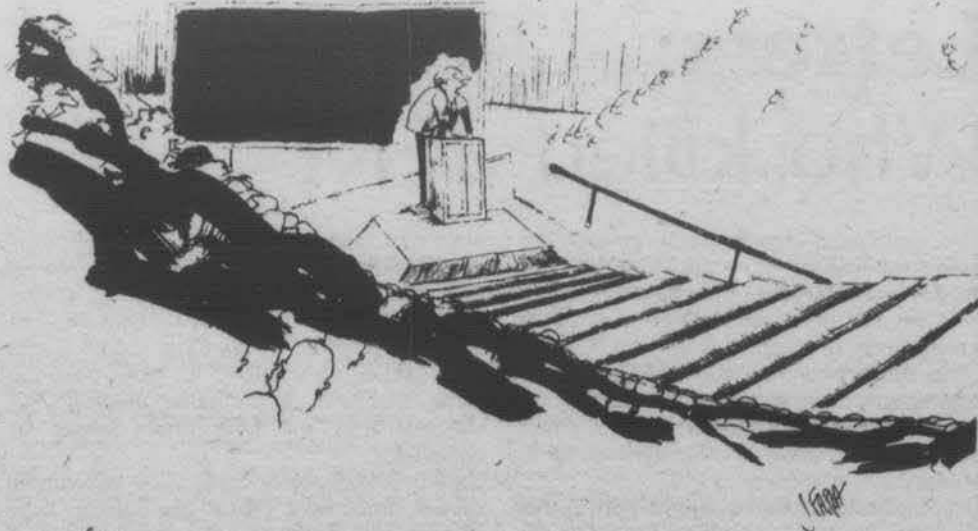
"Are ye fantastical" would be Banquo's first impression, however, this is WPI and not 14th century Scotland so there is a systematic procedure for registration. The multi-colored forms which everyone received last week provide just that.

Registration for next year's courses is actually quite a simplistic procedure. Once the individual selections have been made and the sheets returned to the scheduling office, (deadline - Feb. 27), the information is computerized and the course meeting times are scheduled in order to achieve the last amount of conflicts. Last year, with one exception, there was not a conflict between

one course and another single course which involved more than three students. Although this is a good percentage, it can be further reduced if you will list the courses which you will positively take next year. If this occurs before the classes are scheduled (Feb. 27), the percentage of conflicts in individual schedules will be reduced considerably.

During the last week in April, there will be adequate time to make course and section changes. The key to the entire procedure is to choose the courses which you will definitely take prior to Feb. 27, when the 1975-76 cover schedule will be computed.

The forfeited classroom space due to the Salisbury renovation places several restrictions on the scheduling office.



FIRST, THE GOOD NEWS - YOU CAN ALL ADD MY CLASSES. NOW, THE BAD NEWS - WE HAVE TO MOVE INTO THE BROOM CLOSET.

However, if the pre-registration procedure is taken seriously, they can operate with less of the friction which ultimately results in better scheduling. The course schedule this year does not reflect what next year's will be so

avoid planning courses with this year's schedule.

If you need additional registration forms or have any questions, Dean Van Alstyne is available in Boynton 211.

Segretti talks at Holy Cross

[Editor's Note - The following was submitted as a letter. However, because of the quality and content, it is being published as an article.]

On February 12 of this year, the Holy Cross College Cross and Scroll Society presented convicted Watergate conspirator Donald Segretti. Speaking before a crowd of more than five-hundred people, Segretti spoke of the injustices of the present jail system, the need for an "airing out" of the FBI, and the need for a revamping of the judicial system so that there will no longer be "one law for the rich and another for the poor."

Segretti also spoke of the urgent need for young people to get themselves involved in the system. When he was later questioned on the point that he himself was part of the youth movement that came out of California in the early 60's, Segretti said that he feels now as he did then, that youth is important and that hopefully, "you will be able to learn from my mistakes."

According to Segretti, the Federal jail system is the best in the country, and even it needs reconstruction from "the top down and the bottom up." The method by which this change is to take place is simply by making known the faults of the present system to those who have some say in its control. Segretti mentioned that great reforms could come simply with the "stroke of a pen," and that no great legislative work would even be necessary at first.

Segretti was later questioned as to why he was now speaking of justice when he wasn't

thinking of justice two years ago when he was involved in the "dirty tricks" campaign. To this Segretti replied that he had been "caught up" in the fever pitch of the election and had only done "little things, I was never responsible for a man's downfall."

Segretti did admit, however, to his pleading guilty to a charge relating to some letters he wrote for the Committee to Re-elect the President, (CREEP). These letters dealt specifically with the campaign of Edmund Muskie. The question asked was did Donald Segretti have anything to do with the so-called Canuck Letter? This was a letter in which Muskie was accused of hypocrisy for giving his support to blacks while condoning the word "Canucks" - a derogatory name for Americans of French-Canadian descent. Muskie denied ever having said anything to that effect and several days later broke down and cried during a speech in defense of himself and his wife, who had recently been accused of drinking and using profane language. This incident is generally regarded as broken the back of Muskie's campaign. Segretti has often been mentioned in connection with the Canuck Letter, but when he was questioned on the issue he denied having any involvement whatever in its formulation.

In response to other questions, Segretti stated that he thought Ford is "an honest man" and that the biggest problem this country faces today is the state of the economy. Segretti also said that he honestly felt that there was no "deal" between President Ford and Nixon, but there was

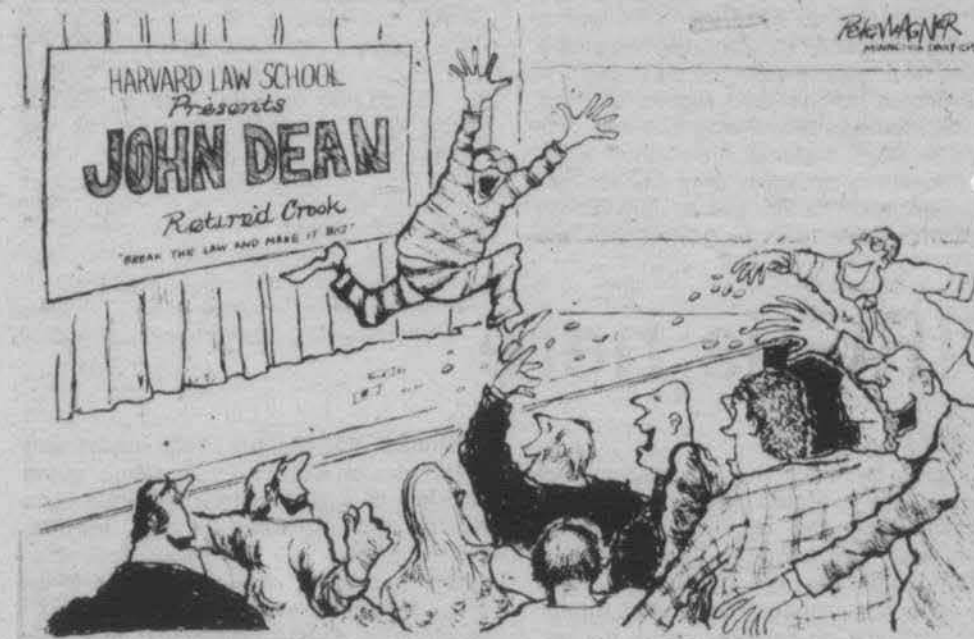
certainly some "friendship and politics."

Segretti closed by recommending Jeb Magruder's book for those who want an inside look at the Nixon Administration and Watergate. He also recommended the Dan Rather and Gary Gates book entitled *The Palace Guard* for an outsiders' view.

The Palace guard carried the name Donald Segretti on three pages. The most serious charge against him in the book is that he is the man "whom Chapin later hired to do

some political espionage in the 1972 Democratic primaries." On the other hand, the book *All the President's men* by Bernstein and Woodward mentions Donald Segretti on more than 45 of its 368 pages. This book has received rave reviews as compared to those given for *The Palace Guard*. It must remain a mystery why Mr. Segretti did not recommend it.

Frederick Borys
Box 328
Stoddard B, Rm. 202



'DON'T APPLAUD! JUST THROW ROYALTIES AND HONORARIUMS!'

reached an understanding with the President that he won't sound off in public but will go straight to the President with any differences that may arise. Ford has agreed to discuss, man to man, serious differences with his Vice President.

Meanwhile, Nelson Rockefeller, according to subordinates, is determined to be a model but modest Vice President.

Helping Hand: A few weeks ago, the Pentagon staged a contest between two experimental fighter planes - the F16, made by General Dynamics, and the F17, built by Northrup. Hanging in the balance was billions of dollars in future contracts.

The General Dynamics plane won what everyone thought was a close contest. The truth is, General Dynamics' F16 won big. Our sources say it beat the Northrup plane in every category except low-speed, low-altitude turns. The test pilots, we are told, gave the F16 smashing reviews.

Now, General Dynamics will try to sell the plane to four countries overseas. Competing against the American entry are planes built by the French and Swedes. The brass hats are worried, however, because General Dynamics - in contrast to other giant defense contractors - does not have much experience in international wheeling-and-dealing.

The Pentagon, therefore, recently dispatched an assistant secretary of defense to Europe to help out. The official visited each of the potential markets overseas and briefed the foreigners on the attributes of the General Dynamics airplane.

All in the Family: Citing a "Communist threat," President Ferdinand Marcos of the

Philippines two years ago declared martial law and has reigned since as the virtual dictator of that island nation. He keeps promising an open referendum on his policies, but so far it has not come about.

Marcos' closest aides have been pressuring him to name a successor in case something happens to him. He says he has already picked one, but is keeping it secret to foil assassins. No one outside the Marcos circle knows for sure who the President wants to take his place.

High-level diplomatic sources tell us, however, that next in line of succession is Marcos' own wife, Imelda.

Free Delivery: Some crafty mail users have come up with a way to get around the high cost of postage. They put the actual destination of a letter in the upper left-hand corner of the envelope, where the return address goes, and leave off the postage. The Postal Service marks the envelope "Returned for Postage" and sends it to the return address. The letter, therefore, is delivered free.

White House Grapevine: Although former President Richard Nixon is from California he used to infuriate the California wine lobby by frequently serving French wines at the White House. President Ford, who isn't much of a wine man at all, is switching to American wines. The President won't get much of an argument from Secretary of State Kissinger, who likes any wine as long as it's good. He has been known to glower at a tablemate who drained the bottle before Kissinger could get to it.

United Feature Syndicate



Jack Anderson's Weekly Special

WASHINGTON - Behind the scenes, the Joint Chiefs of Staff have been bitterly resisting arms deliveries to Israel. At first, they opposed the rapid rearming of Israel, which has now been completed. They complained that the United States was in such a hurry to restore Israeli military strength that some of our own units were short of arms.

Lately, the Joint Chiefs have argued against sending the sophisticated weapons that Israel is now trying to get. They strongly opposed supplying Israel, for example, with the deadly, 70-mile-range Lance missiles, and other laser-guided weapons. Some of these are so effective they can knock out enemy anti-aircraft missiles before they can reach the planes.

Once again, the Joint Chiefs have complained that U. S. units would have to be shortchanged if these weapons are going to be made available to the Israelis. But once again, the White House overruled the Joint Chiefs and 200 Lance missiles have been sold to Israel.

President Ford has been persuaded by Secretary of State Henry Kissinger that these weapons will help him bring peace to the Middle East. Not until the Israelis had full confidence in their military power, Kissinger argued, would Israel make the territorial concessions that are essential for a Middle East settlement.

Despite the Pentagon's resistance, the truth is that it is not only Israel which is

depleting our defense stockpiles. The United States is arming rival nations around the world at an alarming rate. Last year alone, we exported over \$5 billion worth of weapons. This was about twice as much as the Soviet Union, our closest competitor, exported.

A secret General Accounting Office study reveals, for example, that the United States supplied a full 60 per cent of the arms needs of the Persian Gulf states last year. The staggering total was more than \$2 billion worth of weapons.

One of the most effective weapons in the U. S. arsenal is the TOW antitank missile. Some 18 of them will soon be on their way to Israel's Arab neighbor, Lebanon.

In fact, the United States is either selling or giving away TOW missiles to 17 nations. Yet believe it or not, this missile is in such short supply that our own armed forces can't get enough.

Best Behavior: Vice President Nelson Rockefeller is on his best behavior. He knows that Republican conservatives view him with deep suspicion. They fear he may try to dominate the U. S. policy from his vice presidential office.

Rockefeller has told subordinates, therefore, that he will keep a low profile. He is anxious to convince the conservatives that he isn't trying to run the country but is only carrying out the policies of President Ford.

Of course, Rockefeller has his own ideas, which don't always agree with the President's views. But Rockefeller has

Pistol team

by Joe Sperber

On February ninth, six members of the WPI Pistol Team competed in the 600 Tournament, sponsored by the Worcester County Pistol League, and held at the Norton Compay Rifle and Pistol Club range.

All of the 61 competitors were separated into classes based upon their current League averages. The Tyro class was 225 and below, Marksman was 225.1-255, Sharpshooter was 255.1-270, and Expert was 270.1-285. There were no entries in the Master class. Three team members competed in the Tyro class and three in the Marksman class.

With a total of 15 competitors in Tyro class our members managed to place seventh, eighth, and ninth. In seventh place was Kevin Sullivan with a score of 454, Dean Giacomassi was in eighth position with his 441, and Hud Dunlap came in ninth with his 430. The winning score for the class was 509.

Our three remaining entries were in the Marksman class which had 22 entrants. The winning score was 541 but our members managed a respectable showing by winning second and third places. In second place was Joe Sperber with a score of 532, followed in third place by John Caulmare with a 521. Doug Christensen's 484 placed him in thirteenth position, but only two points separated him from eighth place.

This was the first formal tournament the

club has entered, and we were competing against some of the best shooters in the League. We will use this recently gained experience to prepare for our next tournament, the Intercollegiate Sectional on March 14, when we will compete against MIT and Boston State, followed soon thereafter by the State Championships on April 4.

February 10 saw the club host the League's perennial champs, the Blackstone Pistol and Rifle Club. It was a long evening of competition with 23 members shooting for WPI and 7 for Blackstone. It is a long trip from Blackstone to Worcester and they were only able to bring their best shooters.

We pressed them hard in the early stages of the competition but they managed to gain the lead as the evening came to a close. The final score was WPI 1325 and Blackstone 1347. Our five high scores comprising the team aggregate were W. Kistler 285, J. Sperber 269, J. Kistler 262, R. Osborne 255, J. Caulmare 254.

One of our newest members, Steve Albino, tallied a very respectable score of 252 and we expect Steve to be one of our top five shooters in the very near future.

The club's next match is in Rutland on Wednesday, February 19. All members who want to compete should be at the range no later than 6:15 p.m.

Classifieds:

FOR SALE: Realistic SCT-6 Cassette Deck with "Dolby" Noise reduction. Will take best offer. Box 822 or Morgan 325.

ROOMMATE WANTED. 39 William St. Reasonable rates. 753-0075.

WANTED: Experience trainer to work with live seal act. Inquire Newspeak Office.

MUST SELL: 1 Holley Carburetor, 2 barrel, 500 cfm. With chrome, high capacity air cleaner. Never used, still in box. R 103 or Box 290.

HOUSE FOR SALE: West Boylston, excellent location; 6 room ranch, 3 bedrooms, living room, dining room, kitchen; screened sunporch, new roof, 2 fireplaces, partially finished basement; corner treed lot; walk to school; low 30's; call owner at 835-3743.

NOTICE: to whom it may concern: Riley 1st has adopted quiet hours for term C on account of the very few residents who retire before 11 p.m. Please take note & SHHHHHHH!!!

Happy Birthday Liz The Pres.

CORVAIR FREAKS! Want parts? (Free) i.e. Carb., U-joint, and Misc. Contact Wil E-07, 755-1461 Box 1342.

OPPORTUNITY: We are open for new members. Single, Females, Legal (or almost).

The WTL Harem Club

READY, WILLING, AND ABLE!
THE GIRLS

What's Happening?

Feb. 18, Tues.

- WPI Business Women's Club, "House Plant Care." Morgan dining hall, noon.
- WPI Wrestling vs. Lowell Tech, away, J.V. - 6 p.m. Varsity 8.
- WPI Basketball vs. Williams, away, JV - 6 p.m. Varsity 8.
- WPI Hockey vs. Fitchburg State, Worcester Arena, 6:30 p.m.
- Cinemathech, Chaplin's Classic Comedies, "Monsieur Verdoux," Alden, 7:30 p.m.
- HC Speaker, Prof. Evans, "English Historical Drama" Hogan 413, 7:30 p.m.
- Clark Poetry reading, Sonia Sanchez, Little Commons, 8.
- Clark Film, "Camille," with Greta Garbo and Robert Taylor.

Feb. 19, Wed.

- WPI Indoor Track vs. Holy Cross, away 3:30.
- HC Lecture: "Transcendental Meditation." Hogan 413, 7:30.
- Clark Film, "Grand Hotel", with Greta Garbo, John and Lionel Barrymore.

Feb. 20, Thurs.

- Tech old Timers, Seminar Room, Gordon Library, 4:30 a.m.-noon.
- WPI Faculty meeting Olin 107, 4:05 p.m.
- WPI Women's BB vs. Becker Jr. home, 6:30 p.m.
- WPI Swimming vs. Brandeis, home 7:30 p.m.
- Clark Film—video, an evening of student films and video-tapes, Academic Center, Rm. 218, 7:30 p.m.

Feb. 20-22

- NE College Wrestling Tournament at Mass. Maritime.

Feb. 21, Fri.

- WPI Hockey vs. Assumption, Worcester Arena, 8 p.m.
- Clark Film, "Harold and Maude," with Ruth Gordon and Bud Cort.

Feb. 22, Sat.

- WPI Swimming vs. Tufts, away, 2 p.m.
- WPI BB vs. Babson, J.V. 6 p.m. Varsity 8 p.m.
- WPI Track Relay's at Amherst, 6:30.

Feb. 22-23

- Magnificent West from the Smithsonian Exhibition Service Gordon Library.

Feb. 23, Sun.

- Indian Movie, WPI, Alden, 3 p.m.
- WPI Lens & Lights Movie, Alden, 8 p.m.
- WSC Kick off concert, college Aud., 8 p.m.
- Clark Film "Peach Thief."

Feb. 24, Mon.

- WPI Faculty Wives reading workshop, Seminar Rm. Gordon Library, 7:30 p.m.

Chess club involved in area league

by Art Aikin

The WPI Chess Club is currently active in the Worcester Metropolitan Chess League, which consists of 12 teams of four players each. Clark, Holy Cross, Worcester State, and Quinsigamond C.C. compete in the league along with the Worcester Y.M.C.A. and Clark Faculty. Matches are held on Friday nights in Jonas Clark Hall at Clark U.

On Friday, Feb. 14, WPI's first team, Tech 1, defeated Holy Cross by a 3 to 1 score. WPI players were Bill Cotter, Steve Schoen, Art Aikin, and Mike Clorite. This leaves us just 1/2 game behind Clark in the league standings. The second team, Tech 2, lost to Clark Faculty in a close match, 1 1/2 to 2 1/2. WPI players were Hud Dunlap, Josh Shaine, Bruce Baran, and John Downes.

The next matches are on Feb. 28 as Tech 1 plays Quinsigamond C.C., and Tech 2 will compete against Worcester State College. The league climax will take place on April 11 when awards will be presented and a speed tournament will be held.

The WPI Chess Club meets on Wednesdays at 7 p.m. in GH 012. Any student is invited to attend.

Student lenten schedule

The Catholic Student Parish through its priest, Father Peter J. Scanlon, announced the following Lenten Schedule:

1. The very popular ten o'clock evening Mass will return Monday through Thursday nights. The Mass will be held Monday through Thursday nights in the Janet-Earle Room of Alden Memorial. Fr. Scanlon guarantees that the Mass will last no longer than forty minutes. Father pointed out that the practice of the 10 p.m. Mass started a few years ago and has turned out to be a very popular Lenten practice in the past.

2. The Sunday sermon topics during Term C will be based on Social Justice: Where is it found in the Bible? Why is the demission of the Gospel now so important? What has been its theological development? What can students do about the problem of social justice in today's world.

3. Sunday Masses of obligation (Saturday at 6 p.m. and Sunday at 11 a.m.) are now being held in the Janet-Earle Room. The move back to the Janet-Earle Room was caused by the recent moving of the Humanities Department to Alden.

4. Several discussion groups have been formed and will be meeting at the Religious Center and throughout the dorms during Lent.

5. The annual election of Newman Club Officers will take place at all Sunday Masses on the weekend of February 22-23.

Financial Aid Applications

Financial Aid is awarded on a yearly basis and must be reapplied for annually.

Applications for all forms of Financial Aid for the academic year 1975-1976 will be available in Room 107H, Boynton beginning February 14, 1975 and MUST BE RETURNED by March 14, 1975.

See Story on Page 1.

PATENT ATTORNEY TO TALK ABOUT PATENTS

1. Do you know how to get a patent?
2. If you come up with an invention while doing a project, is it yours or the school's?
3. Do you know how to keep a legal notebook?

These and many other questions will be answered by Gerry Blodgett, a local patent attorney, tonight, Tuesday, 6:30, IQP Center. Everyone and anyone is invited.

Sponsored by the "WPI INVENTORS CO-OP."

SHOWCASE CINEMAS 234
DOWNTOWN WORCESTER

MURDER ON THE ORIENT EXPRESS

ALBERT FINNEY SUN. thru FRI.
LAUREN BACALL 2:00-4:25
MARTIN BAL SAN 7:00-9:10
RODOLFO BERGMAN

SAT. — 2-4:30-7:15-9:40

THE TOWERING INFERNO

STEVE PAUL
McQUEEN NEWMAN

WILLIAM HOLDEN
FAYE DUNAWAY

SUN.-THURS. — 2-5-8:00
FRI. — 2-7:05-10:00
SAT. — 1-3:50-7:05-10:05

LAST ENTER OF THE YEAR!

WALT DISNEY PRESENTS
THE STRONGEST MAN IN THE WORLD

Technicolor G
EVERY DAY AT
1:30-3:25-5:30
7:30 and 9:30

"I WOULD HAVE TALKED ABOUT IT YESTERDAY, BUT I WAS LAUGHING TOO MUCH"

YOUNG FRANKENSTEIN

SUN. thru SAT.
1-3:10-5:10
7:15 & 9:25

24th TEL. 753-3040
CINEMA 1 at WESTER SO.
GIFT CERTIFICATES ALWAYS AVAILABLE

Bergman's

SCENES FROM A MARRIAGE
LIV ULLMANN
ERLAND JOSEPHSON

MON. thru THURS.
2 p.m. & 8 p.m.
FRI. — 2-7-10:20

SAT. — 1-4-7-10:15
SUN. — 1:30-5:00-8:15

FDA will approve 'morning after' pill

(CPS) According to Edward Nida, public information officer for the Food and Drug Administration (FDA), that agency will approve the sale and use of the "morning after" contraceptive pill diethylstilbestrol (DES).

The final agency ruling will be that DES "is regarded as safe and effective, but not for continuous use," according to Nida.

The FDA conducted tests on DES after several years of controversy over the drug. About five years ago, studies were published linking cancer in girls to use of the drug by their mothers in early pregnancy.

This led the FDA to ban DES in cattle feed, where it was used as a growth hormone, because traces of the drug were found in cattle livers ingested by humans at levels considered unsafe. Following tests of DES, the cattle feed ban was lifted.

DES is a synthetic estrogen which has been found to be nearly 100 per cent effective in averting a pregnancy when taken

within 72 hours after unprotected intercourse. Opponents of the drug have claimed that high doses of estrogens, synthetic or natural, can cause cancer in women using it.

Dr. David Bard, a specialist in female genital tract cancers, working with high-dose estrogen drugs under a federal grant at the University of Florida, said that his studies have found that DES only affects the developing female fetus, but not the mother.

Such female children have "varying degrees of abnormal development in the upper vagina and cervix," which if detected early enough is "almost always" curable without damaging the reproductive capacity of affected females, said Bard.

Bard described DES and other morning-after pills as "safer than abortions."

However, The FDA's ruling may not be popular. "There's just too little known about it," said one DES critic. "And we're not to big on women being experimented on."

atmospheric changes, prints such as these can be shown only for limited periods. The present exhibit continues through Sunday, March 2.

The whole group on view are *ukiyo-e* prints, whose subjects concerned the everyday interests and pleasures of the rising middle class in 18th-century Japan. They create a miniature world of sophisticated urban activities with colorful grace and style. Artists portrayed the busy city life of people, the theater, and sensual pleasure; several in the current showing are likenesses of famous actors while others depict scenes of courtesans from the well-known Yoshiwara district of Tokyo.

Rarest on view are a series of three hand-colored prints by Toyonobu (1711-85) entitled "Beauties of the Three Cities." This is the only known complete set of one of two large triptychs by the noted artist. The beauty representing Osaka reads a love letter; the beauty of Kyoto holds a long narrow pipe while her attendant carries a charcoal burner and ash tray, and the third beauty of Edo (now Tokyo) carries a long, stringed musical instrument, the samisen.

Characteristic of this art form are complicated patterns of kimonos, sashes, and ornamental details of screens and hangings which create elegant, kaleidoscopic effects of stripes, squares, diamond- and circle-shaped designs, and endlessly varied motifs of flowers composed in subtle, sinuous curves within the narrow vertical print block.

Food stamps for students

WASHINGTON — Lt. Governor Tom O'Neill Thursday urged the U. S. Senate to support language in both law and regulation which "protects the rights of students who are eligible for food stamps."

The Lt. Governor's testimony came at hearings on legislation sponsored by Sen. George McGovern (D-S.D.) to amend the Food Stamp Act of 1964. Massachusetts senators Edward Kennedy and Edward Brooke are among the 41 sponsors of the bill.

O'Neill urged Senate passage Thursday of a bill permitting some one million recipients of the Supplemental Security Income (SSI) to enroll in the food stamp program.

In testimony submitted to the Senate Committee on Agriculture and Forestry, O'Neill said passage of the bill would eliminate an inequity in the SSI law which bars recipients in certain states from enrolling in the program.

The inequity arose when five states, including Massachusetts, decided to incorporate the bonus value of food stamps into SSI payments because the initial SSI law barred recipients from buying food stamps. The law was later reversed but SSI recipients in the five states were still barred from enrolling in the food stamp program.

"States which elected in 1973 to take positive action for aged, blind and disabled citizens have since been penalized," O'Neill said. "We have found it virtually impossible to explain to the satisfaction of the SSI recipients in Massachusetts why they cannot

apply for food stamps, while people in the neighboring states of Rhode Island, New Hampshire and Vermont can do so."

O'Neill's remarks, which focused on provisions of the bill that would affect Massachusetts citizens, included the following points:

- rejection of Ford Administration proposals to charge food stamp recipients a flat rate of 30 per cent of income for stamps. Instead, O'Neill urged continuation of the existing progressive scale and a reduction in the minimum charge to 25 per cent of income. Both provisions are included in the McGovern bill.

Under the Ford proposal, O'Neill said, an individual with a \$100 monthly income would suffer a 67 per cent increase (from \$18 to \$30) in purchasing \$48 worth of food stamps, and the Massachusetts economy would suffer a \$24 million annual loss.

- endorsement of a provision in the McGovern bill to allow states to determine whether welfare recipients will be given the option of deducting the cost of food stamps from their monthly benefit check, or purchasing them directly. Currently, states are required to give recipients that option.

O'Neill predicted that many states would eliminate the deduction system, thereby relieving welfare agencies of "an enormous administrative burden" and allowing recipients "maximum latitude in determining how to spend their monthly resources."

Japanese prints at Art Museum

Late 17th- and early 18th-century Japanese prints from the Worcester Art Museum's famed Bancroft Collection are on view in the first-floor fountain gallery. It is the first exhibit in the newly redecorated area since the sculpture formerly installed there was relocated to the second-floor sculpture court.

The earliest period of Japanese wood block prints is represented in these masterpieces of graphic art, and many are hand-colored. Unlike Chinese or European prints, the Japanese wood block was designed as an art form in itself and print-makers developed methods and techniques which the painter could not duplicate. Since works on paper are fragile and sensitive to

Population and environmental study grants

Internships offering grants up to \$600 plus travel and research expenses are available from the Population Institute for students interested in working on population growth and environmental issues.

Students who participate in the Intern Program will work closely with state legislators and agencies in researching and analyzing population-related issues, policies and legislation. While continuing to attend regular college or university courses, the intern will also spend part of each week with his/her sponsoring agency, meeting with other groups and individuals, doing needed research and writing and making periodic trips to the state capitol. Each intern will arrange for academic credit for the internships with a faculty advisor. Generally, internships run from September through May or June. The program outline is flexible and alternative approaches to research of population policies will be considered.

Activities of past interns have contributed to such positive results as the creation of a state quality of life commission (Massachusetts) and the development of a

population education curriculum for state schools (Washington). Florida and Hawaii's interns have been involved in their states' first data systems to measure and monitor the characteristics of in-migration. In Boulder, Colorado, interns have provided legal research for that city's model open spaces and controlled growth policies.

The Intern Program is supervised by the Youth and Student Division of the Population Institute with offices in Washington, D. C. The Institute is a private, non-profit organization concerned with the population problems and the broad range of related issues affecting the quality of life. It seeks to relate to and evoke positive response from key leaders in our society in helping to balance population growth with resources.

Application deadline for the September 1975 - May, 1976 program is April 30, 1975. Students interested in applying should request applications from: David E. Baker, Director, State Student Intern Program, The Population Institute, 110 Maryland Avenue, N. E., Washington, D.C. 20002.

Craft exhibits at center

OPEN HOUSE

On Sunday, February 23 from 2:00 p.m. to 5:00 p.m., The Craft Center, 25 Sagamore Rd. throws open its doors for an open house. The open house is an opportunity for the community to get acquainted with the multifaceted facilities available at the Craft Center.

Among the many activities going on will be tours of the Craft Center; demonstrations of pottery, enameling, jewelry making, weaving, woodworking, and printmaking; slide presentations; an exhibit of student's works in the gallery; a craft shop; and a chance to win a free craft center course.

The instructors and several student demonstrators will be in each studio to answer questions and explain the various crafts taught at the Craft Center. A group of hostesses and volunteers will provide additional information and literature, and serve refreshments. A visual presentation of the excitement of the Craft Fair and examples of fine craftworks will be shown in the library.

The open house is planned and organized by the craft council, the event-planning arm of the Craft Center. The members of the council are enthusiastic about meeting the public and introducing them to the world of crafts.

'Quote of the Week'

This place is all dedicated to history! There's nothing new!

— David Altieri '76
outside HL 109

The Lens and Light Club is proud to announce the following movie schedule for terms C and D.

February 23 — The Sugarland Express
 March 16 — Easy Rider
 April 6 — Dr. Strangelove
 April 27 — And Now for Something Completely Different
 May 4 — To Be Announced

All movies will be shown at 8:00 p.m. in Alden Hall. Admission is \$1.00 for all Lens and Light movies.

ARMY & NAVY STORE



Ponchos, Smoked Parkas, Field Jackets, Flight Jackets, Denim Jackets & Coats, Turtle-neck Shirts, Bob Sweaters, Plaid Wool Shirts, Rain Parkas, Bully Wool Sweaters, Colored T-Shirts, Sweatshirts, Backpacks, Knapsacks, Dufflebags, Ponchos, Tents, Foot Lockers, Army Cots, Canteens, Mess Kits, Portable First Aid Kits, Sleeping Bags, Combat Boots, Camp Blankets, Field & Denim Jackets

BERGER'S Army & Navy Uniforms
 148 Main St. near Lincoln Sq.
 753-2684

CLARK UNIVERSITY
Biology Department Seminar
DR. C. RICHARD TAYLOR
 of the
 Countway Laboratory
 Concord Field Station
 Museum of Comparative Zoology
 Harvard University
 will speak on
TEMPERATURE REGULATION
AN INSIDE AND-OR OUTSIDE
STORY?
 on
Thursday, February 20, 1975
 4:00 p.m. Room 200
 Refreshments will be served at
 3:45 p.m.

Jolly Giant SUBMARINE SANDWICHES

99 Gold Star Blvd., Worcester, Mass.
 FAST SERVICE TAKE OUT ORDERS
TEL. 853-4245

Italian Cold Cuts .95	Sm. 1.15	Italian Cold Cuts with Boiled Ham 1.15	Sm. 1.35	Steak-Onions-Peppers 1.25	Sm. 1.50
American Cold Cuts .90	Lg. 1.10	Tuna Salad .85	Lg. .99	Steak-Onions-Peppers & Mushrooms 1.35	Lg. 1.60
Imported Ham .95	1.15	Egg Salad .80	1.25	Steak & Mushrooms 1.25	1.45
Imported Ham & Cheese 1.05	1.25	American Cheese .85	.99	Roast Beef 1.25	1.45
Cooked Salmi & Provolone .90	1.10	Provolone Cheese .85	.99	Pastrami 1.25	1.45
Liverwurst .90	1.10	Italian Meatballs 1.05	1.25	Sliced Turkey White Meat 1.15	1.35
Capocollo .95	1.15	Italian Sausage 1.15	1.35	Turkey-Ham-Cheese 1.25	1.45
Capocollo & Provolone 1.05	1.25	Meatballs & Sausage 1.25	1.45	Hamburg .99	1.20
Genoa Salmi .95	1.15	Grilled Steak 1.25	1.50	Cheeseburg 1.10	1.30
Genoa & Provolone .99	1.25	Steak & Peppers 1.25	1.50	Pepperburg 1.10	1.30
Genoa & Imported Ham .99	1.25	Steak & Onions 1.25	1.50	Pepper & Eggs .95	1.15
Genoa-Ham-Provolone 1.10	1.30	Steak & Cheese 1.25	1.50	Peanut Butter & Jelly & Marshmallow .85	.99

MADE TO ORDER
 Choice Meats-Sliced Tomatoes-Onions-Pickles-Hot Peppers

35 VARIETIES
 WE SELL THOUSANDS EVERY WEEK

STORE HOURS
 Mon., Tues., Wed. 11 A.M. to 8 P.M.
 Closed Sundays
 Thur., Fri., Sat. 11 A.M. to 11 P.M.

Undergrad research papers needed

19th ANNUAL EASTERN COLLEGES SCIENCE CONFERENCE

April 3-5, 1975 at Widener College, Chester, Penn. Presentation of undergraduate research papers in most any MQP and IQP area. Conference also includes awards for papers, tours and social events.

Due Dates: February 24, to Professor Berka - abstract of paper and completed registration form.

March 15, at Widener College - Copy of paper to be entered in competition for \$25 and \$50 awards (this part optional).

For further information, detailed instructions on abstract and paper preparation, registration forms, and financial, lodging and transportation arrangements, contact: Professor L. H. Berka, WPI Faculty Coordinator, ECSC Conference, Goddard Hall, Rm. 106, ext. 444 or 371.

How to prepare successfully for examinations

from AAP STUDENT SERVICE

The key to both success and enjoyment in college lies in your ability to use time wisely. In order to have fun while getting the most out of these years, you need to establish a pattern of good study habits and skills. Such habits and skills will help you get the necessary work done as the months and years go by, and you will handle exams with a minimum of stress and a maximum of achievement.

Authorities in education generally agree that successful preparation for an examination starts in the beginning of each term and continues throughout. Six overall steps are suggested:

1. Make a term study plan
2. Use good review techniques
3. Develop a confident attitude
4. Organize pre-exam hours
5. Pace the exam carefully
6. Reassess your work

MAKE A TERM STUDY PLAN

At the beginning of each term develop a daily schedule that allows time for class preparation, study, review, recreation, eating and sleeping. Your ability to adhere to the plan will be a measure of your success.

A study area, conducive to learning, is important. Make sure it has good light and all the tools you will need. Before the term starts, have on hand the texts, study guides, outlines, dictionaries and reference books, paper, pads, notebooks and pens that will allow you to concentrate without interruption.

Study and review differ from each other. As they are equally important, allocate time for both in your daily schedule. Study refers to learning new material for the first time. Review is critical because it strengthens the retention of this new knowledge.

Forgetting takes place most rapidly immediately after learning. Review and recall, therefore, is more effective soon after study. Following each class go over the main points for 10 to 15 minutes to reinforce them in your memory. This makes reviewing for exams later a quicker, simpler task.

Don't overtax your memory or stamina. Research shows that most people can absorb and retain just so much knowledge at one time. It's important to learn day by day, week by week. But each period of study scheduled into your work plan should be no longer than 1 or 1 1/2 hours, followed by some kind of recreation, meal or other activity.

Take legible class and study notes. Mark the margins and underline your textbooks throughout the term and you will be able to review for weekly quizzes or final exams with a minimum of strain.

USE GOOD REVIEW TECHNIQUES

If you have applied yourself during the term, then preparing for exams is largely a question of review. The time needed is not as extensive as some students think - provided you have been working consistently. Review for weekly quizzes should take no more than 15 minutes, a mid-term hour exam 2 or 3 hours, and a final examination 5 to 8 hours.

Your preparation for a final should be carefully scheduled into the two weeks prior to exam day. Organize a schedule that does not interfere with your regular study for on-going classes. Beware of racing your motor. Make sure you still allow time for rest and relaxation, with no longer than 1 or 1 1/2 hours of review at one time. Your mind needs breaks.

Plan your review systematically and consistently. Go from main idea to main idea, using the textbook chapter headings or your instructor's term outline as a guide. Go from chapter notes to chapter notes or from class notes to class notes, recalling the important headings and ideas in each. If certain points are difficult for you to remember, THEN re-read the textbook. Otherwise stick with your notes. Don't plan to learn something for the first time.

Making summary notes is often helpful, depending on the amount of the material to be reviewed. In 4 to 8 pages you can outline the main points of your details class and text chapter notes. Headings with indented numbered points under them make relationships more obvious. This procedure will also help reinforce the major ideas and important details.

Summary notes can also serve as a self-test toward the end of your preparation for exams. Put a sheet over each page and slowly uncover the first heading - see if you can remember the main points under it. As you go, ask yourself what, when etc.

Try to predict the exam questions. Be alert throughout the term to the emphasis instructors put on certain topics, aspects or ideas. They often give clues to points that are important or particularly need review.

Ask your professor what he recommends for pre-examination work. Use his comments as a guide but don't try to outguess him.

Group reviewing can be helpful. But it shouldn't take the place of working on your own. Limit discussions of significant points and possible test questions to 30 to 45 minutes, with no more than 4 to 5 people.

Avoid cramming. If you have followed a regular schedule of study and review, you should not have to cram the last day. Remember, forgetting takes place more rapidly right after learning. If you do have to cram, be selective. Don't attempt an exhaustive review.

to be continued

On the Library Closing

[Ed. Note: The following memo was first sent to us on January 20th and lost between make-up and printing of our first issue. We apologize to the Library, John Smith, and all the others inconvenienced by this error.]

Due to the energy crisis and excessive cost of fuel, ways and means have been studied by the Library Committee and Administration to determine if any reduction of fuel usage and cost could be found in the Gordon Library. After reviewing the statistics of use by students, it was noted that Saturday

evenings found few patrons in the Library. Thus the Library Committee has recommended that the Gordon Library close at 5:00 p.m. on Saturdays beginning February 1, 1975.

To accommodate those students who have a need for a quiet place to study, the Night Study will open at 5:00 p.m. and remain open until its normal closing. All other hours will remain the same.

A.G. Anderson, Jr.
Head Librarian

WACL's Directory

As a member of the Worcester Consortium for Higher Education and its library project, the Worcester Area Cooperating Libraries (WACL), the George C. Gordon Library is able to offer students and faculty the assistance of subject specialists listed in WACL's Reference Resource Directory. This Directory lists local residents who have agreed to become occasional consultants to libraries in the Consortium. When a student or faculty patron has a special research problem which cannot be answered completely using existing library resources, a librarian can contact one of the local experts for help. The expert may be able to answer the question on the spot or suggest where the answer may be found. In either case the patron receives the help of a person whose academic, vocational or recreational interests and training qualify him/her for the task.

At present the Directory lists over two-hundred subject entries, varying widely from a specialist in twentieth century French philosophy to one in consumer product safety; there are a couple of experts on the foreign population of Worcester as well. And the list is growing. So, if you are having problems with your research, ask at the library's Reference Desk: there are all kinds of experts there waiting to help you.

The Head Resident Advisors for next year have been announced by the Office of Student Affairs. They are Penny Bergmann, Jeff Wilcox, Kent Baschwitz, and Bill Giudice. Applications for positions as RA's for next year are still available until Thursday, February 20 at the Office of Student Affairs.

World of Work Series

"CRISIS in the ECONOMY"

Are we heading for another depression? UNEMPLOYMENT in Worcester is 8.1 per cent and rising. 14,000 people are unemployed in Worcester. Norton Co. cuts work week 20 per cent for 1000 out of 3000 employees. FOOD PRICES are up 15 per cent in 1974. Prices rose 4 times that of wages in November of 1974. What does this mean for us? What is happening in the economy? WAYS WE CAN HELP OURSELVES!

Speakers: Dave Scodras, Economist, Boston and Steve Karchmar, Labor Leader, Worcester

"ECONOMIC CRISIS: THE BIG PICTURE" "ECONOMIC CRISIS IN WORCESTER"
Worcester Public Library, A1 Banx Room
Sunday, February 23rd, 2-4 p.m.

EUROPE BOUND IN '75?



wouldn't you rather come with us?

Last year over 200,000 students summered in Europe. And the travelwise flew on charters because it costs about HALF! This year a 3 - 6 week ticket to London is \$512; 2 - 3 weeker \$597. And its \$767. For over six weeks from New York. (That's what the airlines say now. Last year there were two unforecast increases!)

Not only do you fly with us at half, but you can just about have your choice of dates for 5, 6, 7, 8, 9, 10 week duration during the summer. And all you have to do to qualify is reserve your seat now by sending \$100. deposit, plus \$10. registration fee. Under recently new U. S. Government regulations we must submit all flight participants names and full payment sixty days before each flight. If you take the June 21 - August 19 flight to London for example, deposit reserves your seat and April 15 you send the \$199. balance. Just one price for all flights whether you pick a weekend departure (\$15. extra on the regular fare airlines) or peak season surcharge date.

So send for our complete schedule, or to be sure of your reservation now, mail your deposit for one of our 1 to 5 weekly departures from June through September. Just specify the week you want to travel and for how long. You will receive your exact date confirmation and receipt by return mail. All our flights are via fully certificated, U. S. Government standard jet and all first class service. From London there are many student flights to all parts of the Continent, frequent departures and many at 2/3 off the regular fare.

REPUBLIC AIR SYSTEMS INTERNATIONAL
882 FIFTH AVENUE
NEW YORK, NEW YORK 10022
800 - 223 - 5389
(TOLL FREE)

Charter flying is the biggest bargain in air travel today



Salon de Couleur - St. Cyr Cosmetics

The Hair & Face Place

DISPENSING GOOD TIMES & GREAT LOOKS
MEN'S & WOMEN'S
CUTTING & STYLING WITH LOVE NATURAL COLORING -
RECONDITIONING BLOW WAVING - HAIR CURLING

235 Park Avenue, Worcester, Massachusetts
Hair 754-9858 Face 756-5182

FRESHMEN

Starting this Friday there will be a suggestion box located in Daniels near the mail boxes. Please use it. If you'd rather see one of the officers, we can be contacted in the following ways:

President: David Morascini
Daniels 421, Box 2192

Vice President: Diane Ballou
Riley 117, Box 1234

Secretary: Jayne Franciose
Riley 115, Box 326

Class Rep: Kevin Voecks
Ellsworth 07, Box 1228

On February 18 at 7:30, Library Seminar Room, Dean Briggs from Family Planning will speak on contraception.

Do you know all there is to know about contraception? Show up and see if you do. This program promises to be very unique and enlightening. A discussion will follow the presentation for those with further interest.

This program was set up as a result of a questionnaire sent out earlier this year. A guest speaker schedule was set up for areas that had the highest response and interest as shown by the questionnaire. We hope that there will be good attendance from the students as it is a worthwhile program.

Jeffrey M. McLean
Kent Bashwitz
James Hall

Planning information day Wednesday, February 19

Supplementary schedule information (see last week's NEWSPEAK for other schedules)

Mechanical Engineering - MQP's 10:30 - 12:00

TOPIC: A COMPARISON OF ENERGY STORAGE METHODS

ADVISOR: J.M. Boyd, Higgins 115

STUDENTS: Warren Deshon

Bob Baccaro

Bruce Hutton

Frank Moitoza

MEETING ROOM: Higgins 130

TOPIC: STIRLING CYCLE RESEARCH

ADVISORS: R.R. Borden, Higgins 116

J.F. Wild, Olin 105

STUDENTS: Andy Armstrong

Paul Jacques

Tom Mandle

MEETING ROOM: Higgins 107

TOPIC: DESIGN OF A NON-CIRCULAR GRINDER

ADVISOR: C. Staples, Higgins 119

STUDENTS: Bruce Chamberlain

Jim Andrews

Roger Leighton

MEETING ROOM: Higgins 224

TOPIC: DESIGN OF A SPORT-SAFETY CAR

ADVISOR: R.R. Borden, Higgins 116

STUDENTS: Pete Kane

Bill Scothorn

MEETING ROOM: Higgins 201

TOPIC: DESIGN OF LANDING GEAR

ADVISOR: H. Grandin, Higgins 117

STUDENT: Ron Simmons

MEETING ROOM: Higgins 117

CIVIL ENGINEERING

9:00 a.m. - COMPETENCY EXAM INFORMATION KH 116

An open discussion of previous exam formats and also frequency and schedule based on revisions anticipated for next year. The nature of the exam, the general background necessary, and how to prepare for it will be discussed from student experience. Procedures of registration will also be outlined.

PARTICIPANTS: Dr. Silva, Dr. DeFalco - Three students who have recently taken the competency exam

10:30 a.m. - ACADEMIC PROGRAM INFORMATION KH 207

Members of the Academic Programs Committee will discuss the following items:

1. Program construction
2. Sub-areas in civil engineering
3. Accreditation and its relationship to professional licensing
4. Course offerings in civil engineering
5. Relationships between a student's academic program, MQP, and competency examination

PARTICIPANTS: Prof. Fitzgerald, Dr. Sage, Dr. Keshavan, Dr. Silva

10:30 a.m. - PROJECT (MQP) INFORMATION KH 116

Faculty and students who are involved in on-going or recently completed MQP's will discuss their experiences, with special attention given to how to find a project, an advisor, partners, work space, equipment, etc. Projects discussed will include:

1. Design of Offshore Oil-Drilling structures
2. Modification of Chlorine Contact Chambers
3. Design by ICES
4. Construction Management Practice
5. Traffic Study for Metropolitan Boston

Descriptions will also be given of the following laboratory facilities and off-campus project sites:

1. Marine soil mechanics laboratory
2. Alden Research Labs
3. Metropolitan Area Planning Council

PARTICIPANTS: Dr. Silva, Dr. Desrosiers, Dr. Chalabi, Dr. Hart; (Students) - R. Allen, P. Varadian, J. Dalesio, N. Kyriakos, J. Dzialo, F. Greulich, R. Newhouse, S. Blackney, R. Materniak, M. Schultz

1:00 p.m. - ACADEMIC PROGRAM INFORMATION KH 207

(Repeat of morning session)

"NEW"

PLAN TO DO A PROJECT

AT

Norton -

WPI Project Center

- Up to 25 Students
- All Disciplines
- Plan to Schedule for Terms A, B, C, or C, D

Contact:

**Dr. Hagglund, Ext. 366
Mr. Joe Mielinski
Your Department Head**

I.Q.P.

Students are needed for an I.Q.P. in technology assessment. We are trying to identify and evaluate the impacts of a large scale solar energy electric generation facility on society. If interested contact Prof. Boyd in Higgins 115.

Please notice the following revisions to the printed course schedule for 75-76 for the following Computer Science Courses. The Revisions were made to give a better balance of courses between terms and to insure Cs 3121 is available before any competency exam in Computer Science is offered during that year.

Course	From	To
CS1000	?	C
CS1011	A, C, D	A, B, D
CS3121	D	A
CS3832	A	D
CS4901	n-a	D
CS4221	D	To Be Arranged As IS-P on a Need Basis

* Pending faculty approval.

Please make the following changes in the schedule of mathematics courses to be given in 1975-76.

Term A: Delete MA 3621

Term B: Delete MA 3622

Term AB: Add MA 3621 as a fourteen week course

Term C: Add MA 3622 (as a seven week course)

MODERN PHYSICS

FILM SCHEDULE

MONDAY, FEB. 24 - FRAMES OF REFERENCE - TIME DILATION

WEDNESDAY, FEB. 26 - THE VIOLENT UNIVERSE (first showing), 7:00-8:30, 15 minute intermission, 8:45-9:45.

THURSDAY, FEB. 27 - THE VIOLENT UNIVERSE (second showing), 4:00-5:30, dinner-hour intermission, 7:00-8:00

MONDAY, MARCH 3 - THE ULTIMATE SPEED

MONDAY, MARCH 10 - POSITRON-ELECTRON ANNIHILATION

Monday, February 24

Olin 107

7:00 p.m.

FRAMES OF REFERENCE - 28 minutes

By means of a variety of experiments on frames of reference moving at constant speed or at constant accelerations, this film demonstrates the distinction between an inertial and non-inertial frame of reference, and the appearance of fictitious forces in a non-inertial frame. (P. Hume and D. Ivey, University of Toronto.)

TIME DILATION - 36 minutes

The radioactive decay of cosmic mu-mesons is used as a "clock" moving at nearly the speed of light, to demonstrate the relativistic principle whereby time appears to run more slowly when observed in a frame of reference which is in motion with respect to the observer. The measurement, which was originally performed by Bruno Rossi in 1941, is recreated and explained by D.H. Frisch of MIT and J.H. Smith of the University of Illinois (1963).

EMERGENCY! IQPs, MQPs, and PQPs

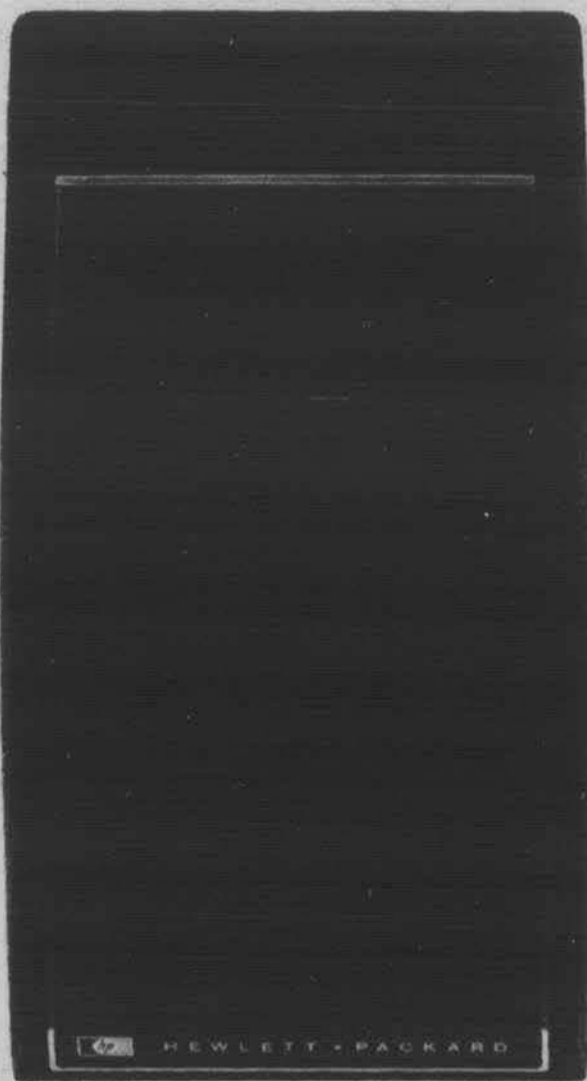
Are you interested in helping to improve the delivery of emergency medical care in your community?

Now is the opportunity to get involved in a project which is relevant, challenging, and rewarding.

Current project areas of interest include emergency room models, demographic analysis, accident data analysis, medicolegal interactions and computer-assisted instruction. For more information call Albert Shahnarian, Biomedical Engineering, Ext. 564.

Hewlett-Packard introduces a smaller uncompromising calculator: the HP-21 Scientific.

\$125.00*



Now \$125.00 buys:

More power than our HP-35. 32 pre-programmed functions and operations vs. 22 for our HP-35. The HP-21 performs all log and trig functions, the latter in radians or degrees. It's our only calculator short of the HP-45 that lets you:

- convert polar to rectangular coordinates, and back again ($\rightarrow P, \rightarrow R$);
- do full register arithmetic ($M+, M-, M \times, M \div$);
- calculate a common antilog (10^x) with a single keystroke.

The HP-21 also performs all basic data manipulations ($1/x, y^x, \sqrt{x}, \pi$) and executes all pre-programmed functions in one second or less. In sum, it's designed to solve tomorrow's problems as well as today's.

Smaller size. 6 ounces vs. 9 ounces for our HP-35.

Full display formatting. The display key (DSP) lets you choose between fixed decimal and scientific notation and lets you control the num-

ber of places displayed. (The HP-21 always uses all 10 digits internally.)

If a number is too large or small for fixed decimal display, the HP-21 switches automatically to scientific. It never confuses a smaller number with zero.

Finally, if you give the HP-21 an impossible instruction, the Display spells E-r-r-o-r.

RPN logic system. Here's what this unique logic system means for you:

- You can evaluate any expression without copying parentheses, worrying about hierarchies or re-structuring beforehand.
- You can solve all problems your way—the way you now use when you use a slide rule.
- You solve all problems—no matter how complex—one step at a time. You never work with more than two numbers at once.
- You see all intermediate answers immediately. The HP-21 executes each function immediately after you press the function key.
- You can easily backtrack when you err. The HP-21 performs all operations sequentially.

- You can re-use numbers without re-entering them. The HP-21 becomes your scratch pad.

H-P quality craftsmanship. One reason Nobel Prize winners, astronauts, conquerors of Everest, America's Cup navigators and over 500,000 other professionals own H-P calculators.

Your bookstore will give you a demonstration today. Challenge our new HP-21 with your problems. See for yourself how much performance \$125.00* can buy. If your bookstore doesn't have the HP-21 yet, call us at 800-538-7922 (in Calif. 800-662-9862) for the name of a dealer who does.



Sales and service from 172 offices in 65 countries. Dept. 658, 19310 Pruneridge Avenue, Cupertino, CA 95014

*Suggested retail price excluding applicable state and local taxes—Continental U.S.A., Alaska & Hawaii.

**SAVE
USED TEXTS
1/2 price!**

(and trade in your old texts)

**Ben Franklin
Bookstore**
21 Salem Street
Worcester, Mass. 01608



MEN'S HAIR DESIGN

Al Rosenfield
Tel: 752-9731

**SUPER CUTS
FOR GUY'S AND GAL'S**

116 June Street
Worcester, Mass.

"Who's Who in Men's Hairstyling 1974-75"

**STEAK
DINNER
SPECIAL
\$1.99**

**Our Famous Boneless
Sirloin Steak With
Potato, Cole Slaw & Roll**

Open 7 days



WORCESTER 121 Gold Star Blvd.
Framingham • Waltham • Worcester • Hyannis

EXPANSION SALE

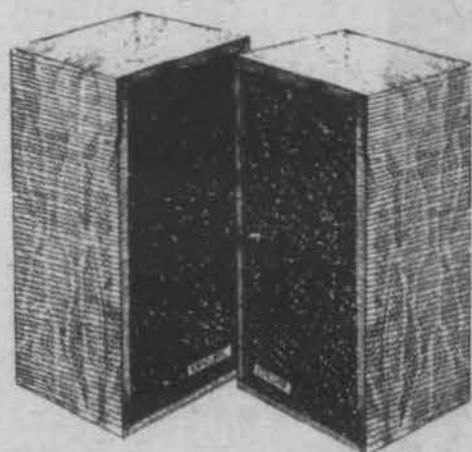
**25% off
with
coll. I.D.**

20% to 40% Off

HI-FI COMPONENTS

we carry such names as

SONY - JANSZEN - BSR MacDONALD - ESS -
ALTEC LANSING - THORENS - PIONEER - KOSS
DUAL - SAE - TANDBERG - DYNACO - TEAC



FULL WARRANTIES!!

“BRAND NEW”

NAME BRAND

stereo components

we're expanding to another sound-room & a larger record inventory

also DEMO — SALE
save up to 70%

ELECTRONIC CALCULATORS

With Memory
and Percent
Negative Key
& Run-off key

AS LOW AS
\$39.95
Full 1
Year warranty

Texas Instruments . . . SR10-SR11-SR50 Casio fx10 scientific function

LARGE VARIETY WHILE PRESENT SUPPLY LASTS LARGE VARIETY

RECORDS

List 6.98

3.99

Records-List 5.98
Sale priced at

3.39

8 TRACK & CASSETTE

TAPES

List 7.98

\$4.89

PANASONIC CAR 8-TRACK STEREO TAPE PLAYERS

MODEL CX-375 SUPER COMPACT

List \$59.99
Now only **\$39.99**

MODEL EAB 101

WEDGE-TYPE TWO-SPEAKER SYSTEM

List \$13.99
Now Only **\$9.50**

Mon. - Fri. 10 - 10
Sat. 10 - 7

LINEAR SOUND

11 Mechanic Street — “Mid Town Mall” — 617 755-7575 — Worcester, Mass. 01608



SPORTS

Mermen split a pair

by W.D.

The Tech Mermen lost a close meet last Thursday to Trinity College in Hartford. Wilson, Letendre, Niles, and Hadji combined to win the first event of the meet, the 400 yard medley relay. Hadji and O'Lear finished first and second, respectively, in the 50 yard freestyle with a winning time of 23.2 seconds. Later, freshman h.s.'s Niles and Brown also finished first and second, respectively, in the 200 yd. butterfly with a winning time of 2:28.0. Freshman Ace sprinter, Steve Custance, placed first in the 100 yd. freestyle with a time of 52.6 seconds. The final freestyle relay of Niles, Custance, O'Lear, and anchor man Hadji sprinted to a victory with a time of 3:30.1. The final score of the meet was 57-56 in favor of Trinity. The overall team performance was not at its peak due to illness of certain key swimmers for the Tech team. According to Coach "Spacey" Peterson though, the ill health of a few of the swimmers was no excuse for the loss to Trinity, who had the less superior team.

the effects of a bad cold which swam along with him. His time was 11:13.5, and his cold's time has yet to finish. The next event sported the team's primary psyche supplier, Hadji the Kid, who won the event with a time of 1:58.5. The winning streak of the Mermen seemed infinite and indeed was including the 50 yd. freestyle event. Bobby Niles, with more class than ever, swam to win with a time of 24.2 seconds.

The Tech divers had their work cut out for them for Northeastern sported two excellent divers on their team. Co-captain Dave Salamaki captured third place in both diving events and displayed some dives that were put together so well that his nickname of "ouch" should be a thing of the past.

Following the diving event, Tech Mermen swam to five more first places. Niles won the butterfly event with a time of 2:25.4. Hadji won the 100 yd. freestyle event in 53.2 seconds. Barry Livingston, who is in his peak performance level of training, won the 500 yd. freestyle with a time of 5:44.8. Paul Craffey, received recognition with his first place in the 200 yd. breast stroke, having a time of 2:56.2.

The final event of the meet was the 400 yd. freestyle relay. Coach "Spacey" Peterson gave the team a break and swam the event himself, aided by his assistant coach, Steve Diguette. Fortunately, Spacey did not drown and he will be training the team harder than ever to prepare them for the next two meets: Brandeis University on Thursday and Tufts on Saturday. Brandeis University is going to be a home meet so come and psyche up your mermen this Thursday, it will help to warm them up for Tufts on Saturday.

Coach's Comment: Gosh Darn!!



Co-captain Jim Aceto lets one fly as Tech's Rick Wheeler and Peter Sherer look on. Tech lost the game to Trinity, 79-66. (Egerton.)

WPI hoopsters run into trouble

by Grogano

Basketball is a funny game. It's funny how a team can play a number one ranked team dead even for almost 40 minutes and then go out on the court the next game and play as if they had just been introduced to a basketball. It's not funny when you're the coach of this team — just ask Jim Herrion. Three more losses brings WPI's streak to four. These losses however are particularly bad to accept especially after WPI's sterling performance against number one ranked Wesleyan.

WPI traveled to New London, Conn. to play one of the best teams in the history of the US Coast Guard Academy. The Cadets, 12-6 on the season assured themselves of their first winning season in 18 years with a 81-69 victory over WPI.

After a close first half the Cadets began away from the Engineers behind the typically patterned Cadet offense. WPI, lead by Peter Krupinsky (21 pts.) and Jim Brennan (17 pts.), could come no closer than 4 pts., the rest of the way and fell for their 12th time this season.

The 4:00 o'clock starting time for the WPI Middlebury may have been attempt to halt a 12 game losing streak with a change in routine. If it was, it didn't work as WPI went down for the second time in two days, 89-60 to the Panthers of Middlebury.

The final score does not really indicate how badly the Engineers played and the final margin could have easily been more. In what was perhaps their worst display of basketball to date. WPI shot a blistering 34 per cent from the floor, turned the ball over 20 times, and were out rebounded 57-40. It is easy to quote statistics after the game but WPI's play throughout most of the game and especially in the 4th quarter bordered on the pathetic. Rick Wheeler's 29 pts. could be considered a bright spot in what was otherwise a bad day for the Engineers.

Yes, Basketball is funny game!! The JV Basketball team dropped to 6-5 on the season after losses to the Trinity and Coast Guard JV Squads.

WPI jumped out to an 18-13 lead against Wesleyan and the Engineers looked like the WPI team that had won it's first 3 games of the season. After a Trinity time out however, the Engineers scored the next 7 pts. of the game and went on to take a 30-28 lead at halftime. Trinity outscored WPI 12-4 to start the second half and the Engineers began to play their own special brand of CYO basketball. Turnovers and poor shot selection continued to transform the rest of the game into a boring route.

At this point however a real knock-down, out and out occurred and WPI's Pete Krupinsky and Trinity's James Sumler were ejected from the game. The Engineers' Ron Laliberty and Glenn Woods were also thrown out for being third men in. After all the excitement had died down WPI's lead to four, 62-58. Trinity never took advantage of WPI's overconfidence and lack of poise, forcing the Engineers to foul to get the ball. Final score 79-66.

Matmen split trimeet

The wrestling team hosted their last meet of the season last Saturday with Wesleyan and University of Hartford. Tech wrestled Wesleyan as their first opponent. Steve Barnicle won by decision followed by a spectacular 19 second pin by Beaudoin. Jim Gorman did his super effort to pin his opponent in the last period. Granger at 158 lbs. pulled on through a 6-0. Bill Diederich is back in the line-up at 177 lbs. He pinned his man in 1 min. and 6 sec. John (Donut) Mangiagli showed a great effort to draw a tie. Heavyweight Gerry Wheeler, known as Batch, won for Tech at 220 lbs. The only losers of this match were Northbridge, Kelm, and Winter. The match score was WPI 29 and Wesleyan 15.

could have pinned his opponent, Tech could have clinched the victory by one point. However, the match went the other way and the score ended up Hartford 26, WPI 15.

118	Barnicle	(WPI)
126	Beaudoin	(WPI)
134	Bryan	(H)
142	Gorman	(WPI)
150	Iaquanto	(H)
158	Harrington	(H)
167	Brown	(H)
177	Thurston	(H)
190	Winter	(WPI)
HWT	Frazer	(H)

pin	Mecasciano	3:22
dec	Roberts	9-4
dec	Northridge	8-2
dec	Khoury	3-1
pin	Granger	1:50
dec	Contestable	9-0
dec	Diederich	5-2
pin	Mangiagli	3:25
dec	Chansky	5-4
pin	Arcari	5:14

Tech wrestles Lowell Tech away Tuesday, Feb. 18 and is in a tournament Feb. 21, 22 at Mass. Maritime.

IM basketball at midseason

by Kevin Hastings

With a little more than three weeks left before divisional play-offs began, the three divisions are being hotly contested. There are ten teams with unblemished records with about four others hoping for a chance to earn a playoff berth.

This weeks action in Division A will knock at least one team from the unbeaten ranks. On Tuesday PSK (A) will meet SAE then on Wednesday, PSK will go up against PKT (A). This will be PKT (A)'s first real test of the season. Another good game in Division A will be SPE (1) vs, the Celts.

Division B, with only two undefeated teams who will meet later this month, will have the Squires meeting SP (1) on Monday. SP (1) suffered their first loss last week against the Cavs 61-21. Another big encounter will be ATC (1) and LCA (1).

Division C with four teams tied for the top will see one or two fall as BSU will play OHG and HBPC on consecutive days.

This weeks action should clear up the playoff picture hopefully.

Division A	
PKT (A)	5-0
SPE (1)	6-0
PSK (A)	6-0
SAE	4-0
Celts	3-1
LCA (3)	2-3
Fiji (B)	1-4
DST	1-5
SNOW	0-5
TKE	0-6

Division B	
LCA (1)	6-0
Cavs	6-0
SP (1)	4-1
ATO (1)	4-1
Squires	4-2
GWB	2-4
SPE (2)	2-4
PSK (B)	0-5
Wasto's	0-5
RKT (B)	0-6

Division C	
BSU	6-0
Fiji (A)	6-0
OHG	5-0
HBPC	5-0
SAP	2-3
PKT (C)	2-3
STA	1-3
LCA (2)	1-4
IFT	1-4
SP (2)	0-6
SPE (3)	0-6

All records as of 2-13-75!!

Icemen off to strong start

by Mannic

The WPI hockey club began the second half of its 1974-75 season with a strong 8-5 win over Mass. Maritime at home ice at Webster Sq. Arena last Friday night, Feb. 7. Leading scorers in the game were Jim Sweeney scoring a hat trick, and second line left wing Joe Menard with two goals. In the net for WPI and playing his first game of the season was junior Warren Fairbanks with 36 saves.

First period action saw a number of breakaways for WPI. The second line combined to open the scoring early in the period with Menard scoring his two goals, assists going to center Dave Blackstone and left defense Roger Lacontore. Mass. Maritime came back late in the period to leave the score at 2-1 in WPI's favor.

Jim Sweeney lengthened WPI's lead by scoring his first two goals, within one minute of each other, in the opening of the second period. Both goals were set up by the first line defensive unit, junior Ed Shea and freshman Paul Fearnside. In the final minutes of

the period, Mass. Maritime rallied to close the margin to 4-3, WPI.

WPI put on the finishing touches to wrap up the game shortly in the beginning of the third period with sophomore center Dave Blackstone scoring from a pass from Menard for Joe's third point of the game. Al Riggieri, 2nd line sophomore, assisted from Blackstone and Lacontore, and Ed Shea with an unassisted goal tallied up one goal apiece. Highlight action of the third period came while 2nd line defenseman Bill Scothorn was out for two minutes for tripping. Right wing Bob Fair, skating down and behind the net, passed out in front where Sweeney was waiting to put in his short-handed third goal of the evening. First score ended up, WPI 8 - Mass. Maritime 5.

WPI's remaining games this week are Mon., Feb. 17 with Clark; Tues., Feb. 18 with Fitchburg State and Fri., Feb. 21 against Assumption, all of which are at WPI's home ice at Webster Sq. Arena. Last game of the season is Tues., Feb. 25 against Stonehill on home ice.

WORCESTER CENTER COMMERCIAL ST. FAAW T.

TYPING FOR STUDENTS
 - papers, manuscripts, etc.
FEE IS NEGOTIABLE
 Call 754-5901,
 evenings after 6:00 p.m. except Wednesday and Thursday

Greek Winter Weekend

February 28th — March 1st.

FRIDAY

Harrington Auditorium \$2.00 with Tech ID
8:00 - 12:00

BOB SHAW
BAKER LEE
SOME OF MY BEST FRIENDS
THE CHRIS RHODES BAND

SATURDAY

In the Pub
6:30 - 7:30

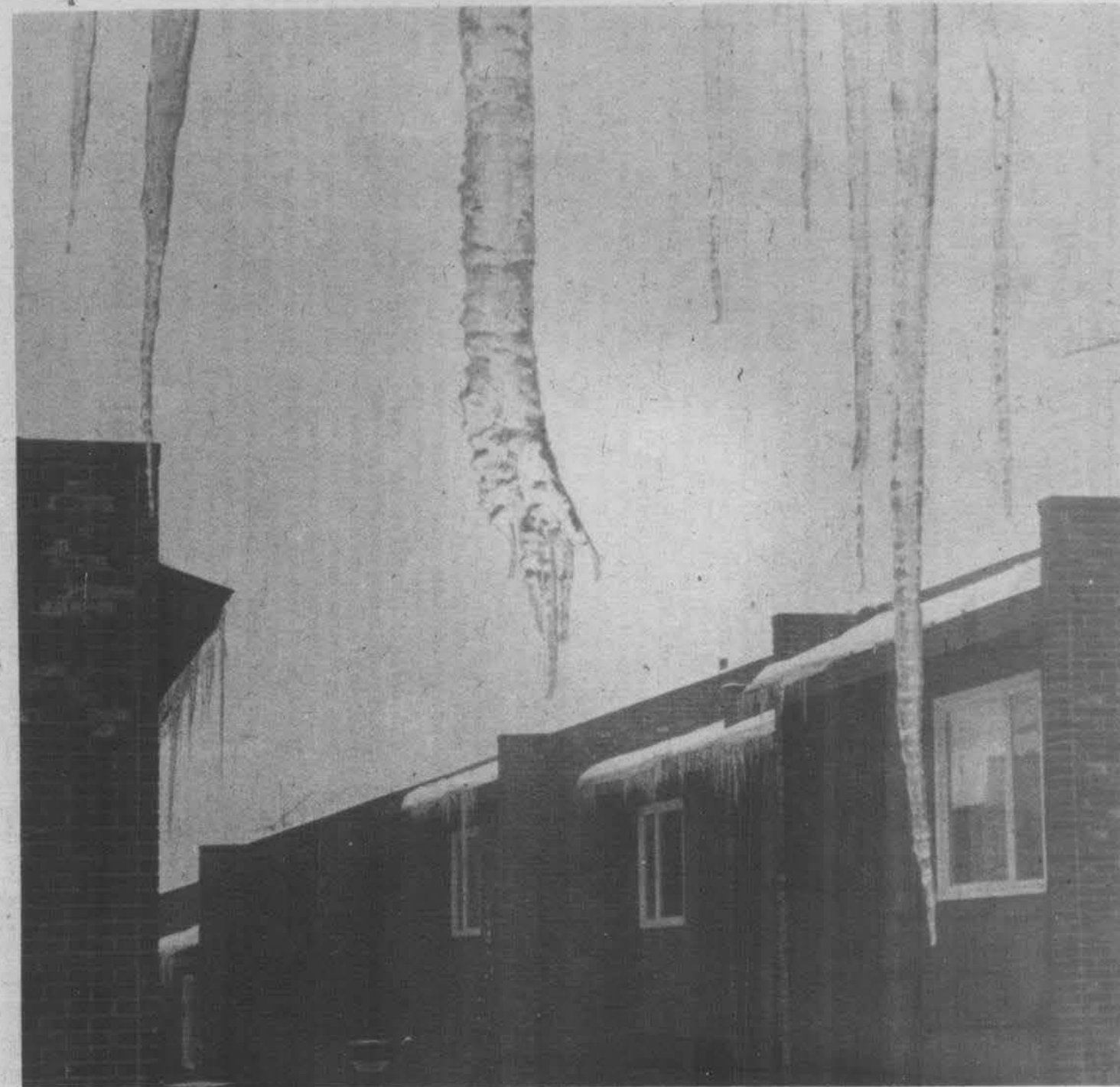
WPI STAGE BAND

Alden Hall
9:30 - 12:30

IFC PARTY

BLANKET CONCERT with

Larry Carsman
&
The Johnson Brothers



[Steve Albino photo]

Newspeak

Tuesday, February 18, 1975

Volume 3, Number 3