Intersession '80 offered break for all

Newspeak staff

Skiing the Big One. Field Studies in Haiti. Beer and Wine Making. Mapping out the Stars. The Scene? Intersession

For anyone that experienced these, or any other courses, Intersession '80 was, by general concensus, a success. It was a time to meet new people, try crazy things, and often just hang around campus with no worry about classes and academic pressure. Yet, there were the old questions concerning Intersession. "What is the purpose of Intersession, and how much of my tuition is going toward it?" are just two of the few questions being raised.

Intersession was first conceived in 1972 as an overall part of the Plan. In this period of time there was little contact beyond rigid classes, between faculty and students. Thus, according to Dean Grogan "the first and foremost



Melanie Lajoie, Intersession Coordinator.

purpose of Intersession was to provide a time when students and faculty could share interests without the pressures of the normal classroom experience. The first Intersession was an exhilarating experience. For the first time, faculty and students sat around and talked together." However, times have changed and today there is much more contact between student and faculty, mostly because of the Plan

So now where does Intersession fit

in? Is it still necessary? "Yes," says Dean Grogan, the reason: Competency exams. "The Competency exams are extraordinarily tough on the faculty" (not to mention the students) and Intersession is necessary to give both the faculty and students a break between comps and the beginning of C term. Because of the intensity of the comps, Grogan deems "the five week break essential." When asked the alternatives to Intersession Grogan answered, "there are none."

All right, so maybe Intersession is a vital part of the Plan, but how much does it cost? Is it really worth it? Again, according to Dean Grogan it costs approximately \$6000 to run Intersession. with the biggest cost (being) the fees of the off-campus people coming here to put on classes." Obviously, this figure does not include the salary of Melanie Lajoie, the Intersession Coordinator. However, Intersession is only one part of Melanie's responsibilities.

(continued to page 3)

The student newspaper of Worcester Polytechnic Institute

Volume 7 Number 2

Tuesday, February 12, 1980

Special **Projects** Insert

Comp success rate drops 10% since 1977

By Bob Thivierge Newspeak Staff

Anyone attending WPI is aware of the competency examination, a necessary criterion for obtaining a diploma. The number of successful attempts at passing "The Comp" as it is affectionately known, has declined in recent years. "The trend is one of concern"

the structure of the subject. Grogan stated that the major flaws of those

Since 1977, there has been a ten per-cent drop in the number of students

who do not pass their comp are related to a lack of clear understanding of fundamentals and their application to more abstract details.

"there is a discrepency between preparation and expectation concerning the competency examination."

says Dean Grogan, Dean of Undergraduate Studies, sighting that a possable cause is the detachment of fundamental concepts and theory from the more advanced aspects of study.

The competency exam is designed to reveal one's knowledge in his or her field of study at a reasonably advanced level and in relation to the basic core of

who successfully passed their comp, which is ten percent below the desired eighty percent success rate. Dean Gro-gan stated "there is a discrepency between preparation and expectation concerning the competency examinaation". The problem is that "students have little opportunity to integrate the basics with abstraction, and since the compentency is designed to notice such weaknesses, some are not able to



William Grogan, Dean of Undergraduate Studies.

Bookstore plagued again

by Scott Marcus Newspeak staff

At the beginning of C term the bookstore was once again plagued by problems. According to Harry Thompson, bookstore manager, about 200 books are still back ordered at this time. He said that the problem was much worse at the beginning of the term when a major portion of students weren't able to purchase books for their class.

Thompson blames the problem on lack of information delivered to the bookstore. He said, that only three graduate professors have given him any additional course size information since December 27th.

Thompson does not see open registration as having any effect at all. He claims the problems have been equally bad during past terms and cites the killer as course changes. He showed me a stack of 70 books left over from a course which was supposed to have 100 students, of course some of those students did buy used

The main question here is, whether or not it is possible to make accurate predicitons on class sizes with the number of course changes typically

(continued to page 4)

by Maureen Higgins

Features editor

Basically, there are two reasons why WPI students want to take advantage of the WDCPC, to do an IQP in one term free from the distractions of campus life and to get away from Worcester to a more cosmopolitan city. Both of these reasons are valid. As the advantages of being in Washington far out weigh the disadvantages, the

of maintaining two residences. The housing in Washington is not cheap, but is reasonable for that city. This year students paid \$350 a piece per term for a one room studio apartment, utilities included. The apartment hotel is centrally located at 1733 N. St., NW. Imagine a stylish upper East Manhattanesque street marred only by one ugly ten story apartment building -- that is The Canterbury House, home of the WDCPC. This tastelessness carries

Positive and negative aspects of D.C. project

money, stereo equipment, and a camera occured this past B term. Obviously a trade off has to be made in finding accomodation for twenty-nine people, twenty-six students and two resident advisors, for four months per year. After all, Canterbury House is only seven blocks from the White House, near metro and bus stops, and more than one agency is within easy walking distance. At least the neighborhood is safe.

One problem often overlooked is the finality of doing a project in Washington. One is locked into a group of three students with two advisors doing a project for a certain agency. Personality conflicts and differences in goals lead to problems between the student group and their liason at the agency, the students and advisors, and among the students themselves. It cannot be stressed enough that participants should be

well suited to group work. In a more positive light, the quality of IQP's done in D.C. is high. A sort of professionalism is achieved that is harder to come by when one is not working in a businesslike environment. The standards set for the students are (continued to page 8)

negatives will be dispensed with first.

Participation in the WDCPC requires forethought. One must plan ahead both in time (i.e. scheduling of courses) and financial resources. It is relatively easy to schedule a term in which to concentrate solely on one's IQP. However, it should be kept in mind that the cost of living is considerably higher in D.C. than Worcester, approximately twenty percent more. In D.C., the night life is both more extensive and expensive, the former compensating for the latter.

Another problem, at least for Tech students living off campus, is the cost

through to the interior decorating, but then again, one does not have to spend much time in the apartment. Although not all the apartments have them, speaking from personal experience there are both mice and some very hardy roaches. As one cabbie said, "You'd have to exterminate all of D.C. to get rid of the roaches!" The linen (sheets and towels) are supposed to be changed weekly which leads to the saying 'good help is hard to find.' These maids are somewhat larcenous. Students are advised not to bring valuables, but some do despite the

EdITORIAL

Parlez-vous WPlese?

From FS1000 to IQP and the Plan WPI is an original institution. Sure, every large institution has its own language, but we have the Plan and the Plan gives a certain flair to vocabulary for four short years. Many freshmen start off with FS1000 as an introduction to WPI's language (WPlese?), but this is hardly enough. It takes first hand practical experience to really know the language well. Tell a student from any other college that you must complete an IQP, MQP, Comp, Sufficiency, and 4 PE's to get you a BS in ME and you'll see him shrink with embarrassment because of his obvious ignorance. Tell him you go to a GOHPEC gathering every Saturday night and he'll wonder why you aren't down the Pub with everyone else. Tell him you're overloading a MA, an EE, and a CS course with an IPI course and you'll see his eyes light up with amazement. To further amaze him, tell him you NR'ed two courses last term and AC'ed the third and he'll admit in disgrace that he only got 3 B's and an A.

If you haven't got him completely baffled by this time, tell him that OGCP got you a job at DEC or that you are doing your MQP at ARL and your IQP with CEQ.

As with all languages, there are rules to follow when speaking WPlese. The most important rule involves the name WPI, which was formerly known as Worcester Tech. Worcester Tech was done away with about the same time as the letter grade, the grade point average, and the English language.

WPlese does have its advantages though, at least for WPI. The Plan is safe from imitators as long as we keep "the other guys" confused. Thus,

WPI will always remain as unique as its language.

WPIese not only confuses outsiders though. It often has many of us confused. The FAO asks us to apply for a BEOG and a NDSL by completing a FAF. Even after four years, most of us get confused by all the fraternity and sorority names, but that't not WPlese, it's Greek, a much easier language to comprehend.

EICY Emeritus

Letters policy

WPI Newspeak welcomes letters to the editor. Letters submitted for publication should be typed (double spaced) and contain the typed or printed name of the author as well as the author's signature. Letters should contain a phone number for vertication. Students submitting letters to the editor should put their class year after their name. Faculty and staff should include their full title. Letters deemed libelous or irrelevant to the WPI community by the editors will not be published.

The editors reserve the right to edit letters for correct punctuation and spelling. Letters to the editor are jue by Noon on the Saturday preceeding publication. Send them to WPI Box 2472 or bring them to the Newspeak office, Riley 01.

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Fred Rucker

Time for US to use power

by Charles Griffin National news bureau

CHEAP SHOTS are the only shots a critic can take. That is why Charles Griffin chose the title for his wideranging column. But there is nothing cheap about his opinions. Nothing is sacred - the high and mighty, the low and weak, and the unknown are all subject to his scrutiny.

Griffin's opinions don't come from a book. They come from his roots, from his experience, and, possibly, from in-

Power is the name of the game. But the game is understood and played differently from one area of the world to another. There is no working demonbeginning of the 15th Century A.H. (their time). In a power play as old as time, an "Islamic Revolutionary" has overthrown an existing government or authoritative rule to establish his own authoritative rule.

Playing upon natural resentment toward outsiders and religious fervor, he has led his nation to the brink of war for a very simple reason: The Ayatollah, Ruhollah Khomeini, wants to get his hands on the wealth and person of the former Shah and his family. First, to enrich himself or his associates; second, to destroy any hope of a restoration of the monoarchy by killing the Shah and his seed. Very traditional, don't you know.

Khomeini knows the stakes of the

cracy anywhere in the Orient. It is highly unlikely that any of us now alive will ever live to see such a thing come

There is some justification to the claim "third world" countries make about western imperialism hindering their orderly growth in the last centuries. The normal process of change and societal growth was broken by European and American intervention in the established societies of China, Japan, India, Indo-China, and Turkey. Of course, we literally destroyed all the established American cultures existing prior to 1492; only traces remain of the Aztec, the Inca, and the Iroquois.

We cannot restore what is lost. But for the last fifty years we have suffered increasingly painful pangs of guilt that have blinded us to the good we have

Once, it was fashionable to talk of civilizing the heathen, and the western world saw that task as its appointed role in history. Although the criteria were primarily religious, the intent was sound. The dominant society always imposes its mores upon those it conquers. The conquered always infiltrate the conquerers eventually through sex and the absoption of ideas and behavior patterns that fit comfortably in the conquered area's environment.

In the year 622 A.D. the religiously fertile desert gave birth to a new faith, Islam. It spread across the Arabian deserts, the north of Africa, the Caucasus mountains, the Kindu Kush, the Indian subcontinent. It jumped the Dardanelles and the Strait of Gibraltar. It lapped the shores of the Phillipines and the banks of the Danube. And it crested on the passes of the Pyrenees.

Islam was a chain reaction. It offered a quick and violent means to obtain power and promised heaven as well as earthly rewards for being rapacious. Petty kings succumbed to hungry princes and cast their lot with the new religion and each carried the word to his neighbor on the point of his sword.

In overrunning so great an area, Islamic rulers found themselves the possessers of libraries, great kingdoms with long histories of learning, civilizations that were old when Moses was learning to write. With so much to draw upon, Islamic culture bloomed for a brief time.

But once the conquered areas began to absorb and distort the conquerers, divisions and demarcations began that continue to this day. Much is said in the news about the Brotherhood of Islam, but the truth is that they can't even get together long enough to clear the Jews from Palestine. The only thing they all agree on is an old desert philosophy - far older than Islam and that is, 'Take a stranger for all he is worth."

A stranger may find protection in the rigid law of hospitality with one Arab, but that Arab will send one of his tribe to his neighbor to warn of the stranger's approach so that the second Arab may profit where the first one could not.

So here we are at the end of the 20th Century A.D. (our time) and at the game he plays. It is absolute power, It is life for him and his heirs as soon as the last Pahlavi is dead. It is wealth beyond a goatherder's wildest dreams. The lives of a few godless Americans matter little to him. American actions in the recent past cause him no discomfort. He does not fear that he has grasped the tiger by the tail. At worst he may feel he has the tail of a worm in his hand.

No, he does not understand diplomacy. He has no patience for it. He does not understand democracy and would be horrified if he did. It would be the last thing he would want in Iran. He does understand power. He knows how to get it. He knows how to keep it. And he knows how to use it.

By comparison, we are as lambs before the wolf. No one in Washington seems to understand Khomeini's form of power and no one in authority in Washington seems to understand American power or know how to use it.

Perhaps it is time that we began to exploit our power. There is no lack of exploitation in the Soviet Union. Russian tanks make a parking lot of Afghanistan, Russian arms hold all of old Indo-China, and Russian troops train Cubans to export revolution to Africa. South America., and Central

Meanwhile, we pass away time we should be using to form an alliance with China ans we throw away old alliances because they are repressive, not democratic enough to suit us.

But what replaces a repressive regime? Another repressive regime.

Maybe we should quit pussyfooting around and take Iran or any other area that has what we need while we have the power to do it.

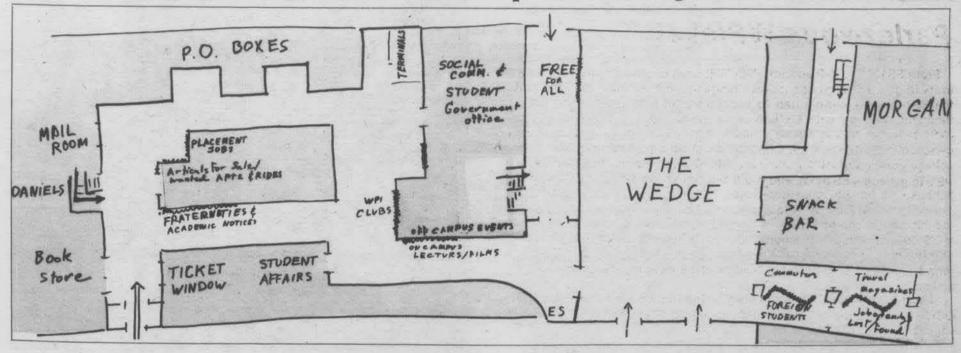
You see, there is an historical imperative: If we have power, you must use it or you will surely lose it. In any you lose anyway something more powerful arises.

Power is the name of the game. Khomeini knows it, he knows us, and that is why he has placed his bets the way he has. Now it is our turn to raise or call and play the game to the finish.

Pub committee seeks help

Next Tuesday, February 19, 1980 at 6:30 p.m. in the Student Government Office there will be a meeting for all people interested in being on the social committee's pub committee. The pub is a versatile place, it has a fairly large budget and there are many things that can be done with it. We are looking for some creative, interested, responsible people to coordinate entertainment in the pub. They should, of course, have an appreciation of music and/or creativity. Preferably, we would like to form a small group (about 3-6 people) made up of freshmen, sophomores, and maybe juniors. If you cannot make the meeting of if you have any questions, please contact Cliff Weiner, box 2391 or 791-0753.

Do not pass go, do not post any notices



In order to facilitate a more effective use of bulletin board space, as well as a more efficient use of publicity for WPI clubs, organizations and departments, the WPI Social Committee, in conjunction with the Office of Student Affairs, will be coordinating and regulating the posting of signs and notices throughout the first floor of the Daniel/Morgan residence complex, including the Wedge.

Effective January 28, 1980, only notices properly stamped and approved within the guidelines (attached) will be cleared for posting on the designated bulletin boards.

All bulletin boards within the Daniels/Morgan complex will be checked and cleared daily of unauthorized posters. Absolutely no posters will be allowed to be attached to walls, doors and windows within the first floor of the Daniels/Morgan complex.

Posters may only be cleared and stamped for posting Monday through Friday from 11:00 a.m. to 1:00 p.m. in the Student Government Office in-Daniels Hall. Posters may also be sent through interoffice mail addressed to the WPI Social Committee.

There will be eleven (11) major bulletin boards available for posting. Each board will have a designated purpose and will be so labeled.

It is hoped that you will cooperate in our attempt to create a more appealing environment within the Daniels/Morgan complex, as well as creating a much more efficient and effective use of advertising for the entire WPI student body.

BULLETIN BOARD GUIDELINES

 A maximum of one poster per organization will be approved per designated area. In most areas there are multiple boards but only one poster per event may be put up in the area.

- Posters are to be no larger than 14" x 22", and will be approved for no longer than a two week period.
- Expired or unapproved posters will be removed immediately.
- All posters will be removed between academic quarters.
- For special publicity efforts for major events which benefit the whole of the campus, special advertising arrangements may be made.
- Non-WPI vendors (travel, ski groups, magazine vendors, etc.) will be reterred to the Office of Student Affairs for posting approval. All other guidelines apply to all non-WPI vendors.
- Absolutely no posters are to be attached to doors, walls or windows.
 Any Club, fraternity or organization repeatedly doing so will lose posting prvileges for a designated

length of time. Any posters on any of these surfaces will be removed immediately.

Bulletin Board Divisions

- Fraternities (2/3) and Academic Notices (1/3).
- Articles for Sale/Wanted (1/2) and Rides Wanted (1/2).
- 3. Placement Jobs
- Social Committee (1/2) and
 Student Government (1/2)
- 5. WPI Club and Organizations
- Off-Campus Events (1/2) and On-Campus Lectures/Films (1/2).
 Free For All - Only One Poster per
- 8. Foreign Students
- 9. Commuters
- 10. Travel, Ski Trips and Magazines
- 11.Lost & Found (1/2) and Miscellaneous Typing (1/2).

Student government elections set

There will be two general elections for student government this year. The first of the elections will be for President and Vice-President of Student Government, and the Class Officers of '81, '82, '83. Each office is open to any full time undergraduate student. All of the aforementioned officers serve from the first week or D term '80 until the first week of D term '81 except for the class officers of '81 who serve until their class graduates.

Qualifications for President of Student Government include that he/she be a junior at the time of his/her election and in academic residence for four out of four terms (excluding E Term). The Secretary of Student Government shall be a sophomore or junior at the time of his/her election and in academic residence for four out of four terms (excluding E Term).

The Class Officers include President, Vice-President, Secretary, Treasurer, and Class Representative. Any full time undergraduate student is

elible to seek nomination from within his/her based upon date of attrition. The Class officers must be in academic residence for three out of four terms (excluding E Term).

Petitions for nomination are available in the Office of Student Affairs. These petitions must be signed by fifty full time undergraduate students. In the case of Class Officers, only fellow members of the student's class may sign nomination petitions. These petitions are due on Thursday, February 21, between the hours of 12 noon and 6 p.m. in the Student Government Office in Daniels Hall.'

Students interested in running for office are encourged to pick up a copy of the Constitution from the Student Government/Social Committee Office in Daniels Hall, as well as speak with the current officers to more fully understand the office.

Any questions or concerns may be referred to Cathy J. Reed, Box No. 150, Stoddard B313.

Financial aid applications available

Financial Aid applications are now available for the 1980-81 academic year. All current financial aid recipients who are members of the Freshmen, Sophomore, or Junior class this year should have received 1980-81 applications in their WPI campus mailboxes. If you are receiving aid this year and have not already received the 1980-81 application, or if you do not have financial aid but would like to apply for the 1980-81 year, you may pick up the appropriate application material at the Financial Aid Office on the first floor in Boynton Hall.

The deadline for submitting applications to the Financial Aid Office is Friday, March 14. For your convenience, representatives of the Financial Aid Office will be located in the Student Affairs Conference Room in the "Wedge" from March 3rd-7th and the 10th-14th during the hours of 1:00 p.m. - 4:00 p.m. They will be there to accept applications for financial aid and to counsel students with regard to financial aid concerns. Please submit all applications during that time period. If you would like the application notarized, please bring your WPI Identification Card.

In addtion, there are still many on campus/part-time work study positions available. If you are interested, please come to the Financial Aid Office for details regarding your eligibility to work and some specific openings on campus.

Friends and co-workers of Norman Rossi held a farewell party in the Pub for him last Friday. Norman, who has quelled the hunger pangs of thousands of WPI students as Director of the Food Services, has been promoted and will be leaving WPI.Above; Norman accepts a replica of the many chickens used in his meals over the past years from Cathy Reed, President of the WPI Student Government.

...Intersession '80

(continued from page 1)

In explanation of the trend back to credited engineering courses, Melanie sites the overload charge as a possible reason. Melanie sees a slight problem with the non-credited non-academic courses, where students sign up and just never bother to show. Dean Grogan had some stronger thoughts about this situation. "The only negative thing about Intersession is the people who did sign up, (approximately 990 undergrads registered), and who did go to the first hour of class and the evaporated. I'm concerned about the lack of commitment phenomenon; it is both embarassing and disappointing

to start off with fifteen in a class and end up with three." This, Grogan adds, is the factor which could affect Intersession in the future, not declining enrollment (whick had been slowly decreasing since Intersession's implementation in 1972).

In conclusion, both Dean Grogan and Melanie Lajoie see Intersession as a vital part of the Plan. They think it has a healthy future, that is it something can be done to correlate the number of people who register for courses with the number that finish them. Thus, the future of Intersession lies in the hands of the WPI student, and his ability to stick to his commit-

... Competency

(continued from page 1)

Dean Grogan mentioned an "elliptical curriculum", in which all aspects of study would be in constant consideration of the fundamental principals that a discipline is founded on. This would make for a clearer understanding of not only how the more advanced levels of study are undertaken, but also the very reasons and means to such methods as well. Grogan sees the need for students to not only develop their major, but to look back and see where the entire spectrum of information fits in.

Grogan believes the competency exam is a fair representation of the necessary materials for applicable understanding of subjects. There is a great deal of time and effort gone into the construction of the competency examination and "the situation creates much pressure on both the faculty and students." It has been noticed that students, both those who have failed and those who has passed their comp

great amount of work and pressure for both the students and faculty". Ma stated that much preparation goes into the construction of the exam itself. He also remarked that many long hours are spent during a comp period for corrections. Professor Ma described the method for correction in the Chemical Engineering Dept. as being fair. Exams are read until there is agreement on its outcome. If there is not agreement, another faculty member will be asked to evaluate the exam. Professor Ma has also noticed that students seem to believe the examination fair and that most are satisfied. The last comp exam, held in January, was done in class for chemical engineering students. Professor Ma and the chemical engineering faculty are evaluating that system to see if there isn't a better way. Therefore, much work and preparation is done for the competency examination while there is constant experimentation and discussion in efforts to find the fairest method to employ.



Professor Ma- chemical engineering department.

Results, January, 1980

Results, January, 1979

Dept.	Total Exams Given	Total Number AD	Percent	total Passed AC & AD	Percent Passed AC & AD	Percent AD	Total Exams Given	Percent Passed AC & AI
CM CH CE CS EE HU ID LS MG MA ME PH	66 15 42 30 92 10 5 21 11	1 4 9 6 21 4 2 3 2	1 ½ % 27% 21% 20% 23% 40% 40% 14% 18% 13% 62½ %	45 9 34 21 68 9 3 15 9 64 7	68% 60% 81% 70% 74% 90% 60% 71% 82% 61½% 87½%	2% 42% 19% 38% 27% 25% 40% 22% 44% 14% 27%	48 7 48 16 90 4 5 27 9 87	40% 100% 90% 69% 67% 100% 100% 78% 89% 77% 73%
TOTALS	404	71	17.6%	284	70.3%	20.4%	352	72%

In January of 1980, the total number of repeats was 30, of which 17 (57%) passed. In January of 1979, there were 20 repeats, of which 15 (75%) passed.

70% 75% 70% 65%

The percentage of those passing in the January and March periods over five years is as follows:

1976 1977 1978 1979 1980 January 71% 80% 75% 72% 70.3%

feel that the exam is fair. One problem mentioned was the fact that some students are apprehensive of a personality conflict between themselves and the comp board, which might be a means toward not passing. Grogan maintained that such a situation is impossible. He stated that "the work load and the constant need for professionalism to handle such large quantities of corrections forces every member of the faculty to function in the most non-biased professional manner possible."

Another important aspect of the comp is the effect of the IQP and MQP. Dean Grogan explained that the difficulty of a project and the intensity of one's application to the project has a bearing on the successfulness of the competency examination. The exam and all projects focus, in some fasion, on the same idea; to solve problems in a reasonably compact, concise form that are presented in a very diversified manner. Therefore, the performance of a student doing projects offers a possible chance to work with both abstract and fundamental concepts in a way related to the methods demanded by the competency examination.

Professor Ma, Head of Chemical Engineering Department, believes the competency examination to be "a

Add experience to your degree.



Facts indicate that you may work in three to five different careers. It won't be unusual to make changes as you go. And it's entirely possible that your final career does not even exist today.

Often in a first job, you are an assistant to the assistant. Your responsibility is limited to a desk and typewriter.

But when your first job is an Army 2LT, you'll have real management experience. You'll be in charge. On a specific job assignment, you could have 30 to 40 people working for you. And you could be responsible for millions of dollars in equipment.

Responsibility for people and resources is exactly the kind of "take charge" experience civilian employers seek. It's a margin of difference in the increasingly competitive job market.

Prepare to rise to the top in your field. Make your first job 3 or 4 years as an Army Officer.

If you have two years remaining in school, you can begin ROTC this summer. You'll be compensated financially; stimulated physically and mentally.

To add experience to your degree contact Cpt. Leo McCloskey
Worcester Polytechnic Institute

Army ROTC. Learn what it takes to lead.

O'Neill's 'Moon' opens at Rep.

by Maureen Higgins Features editor

Now playing at the New England Repertory Theatre is Eugene O'Neill's A Moon for the Misbegotten.

A Moon for the Misbegotten is the touching story of love and friendship between the tenants of a run-down New England farm, Phil Hogan and his daughter, Josle, and their whiskeydriven landlord, Jim Tyrone, Jr. From the noon of one day to the dawn of the next Hogan's son runs away, the farm is jokingly offered up for sale to the snooty 'neighbor who detests the Hogans, and Jim unburdens his troubled conscience to the kindhearted Josie.

In typical autobiographical O'Neill fashion, Tyrone is tormented by his mother's death. Although Josie's love cannot save Tyrone from the death he hastening upon himself with whiskey, his confession enables him to feel at ease with himself, if only temporarily. And interestingly enough, daughter and father become closer as a result of her night with Jim.

As much of what happens in the play is in changing the relationship of one character to another, there is no need for elaborate sets. In fact, the action centers around the front steps of the Irish-American immigrants' Connecticut rock farm.

The Rep's production of O'Neill's last play is admirable, the casting and subsequent acting is superb. Susan McGinley, a founder, director, and actress of Boston's Open Door Theatre, plays the leading role of Josie Hogan. She is more believable in the role than even Katherine Hepburn. Sharing the spotlight are Jim Cooke, newcomer to the Rep's stage, as James Tyrone, Jr. and Rep regular Bill McCann playing Josie's father.

A Moon for the Misbegotten is performed Thursday and Friday at 8 p.m., Saturday at 5 and 9 p.m., and Sunday at 2 and 8 p.m. through March 9 at the New England Repertory Theatre located at 23 Oxford Street, Worcester. For further information, call the box office at 798-8685.

Women's engineering scholarships

career path for women, according to one recent employer survey. Opportunities are a result of projected overall employment growth in the field, plus a shortage of women qualified for the jobs available.

Women in undergraduate, refresher and conversion programs, or graduate engineering studies can get financial assistance from the Business and Professional Women's Foundation through a special loan fund expected to total more than \$75,000 this year. Available Special encouragement is offerd to women with work experience in engineering or related technical fields and to those who have not recently worked in engineering or related technical fields but are qualified through past study for training in engineering or engineering technology. Available to either full-time or part-time students, loans are made for tultion, fees, and for related expenses such as child care or transportation.

To be elegible for the BPW Foundation loan program, you must have written acceptance for study in a program accredited by the Engineers Council for Professional Development, be a U.S. citizen, show financial need

and carry at least six semester hours during the term for which the loan is requested. Both work experience and academic achievement will be con-

Completed applications for the fall 1980 semester are due by May 15, 1980. For applications and/or further information, write to Loan Fund for Women in Engineering Studies, BPW Found-dation, 2012 Massachusetts Avenue N.W., Washington, D.C. 2036.

Alleys reopen

With the hub bub of registration and the preoccupation with new classes and new faces on campus, there was one new face that went practically unnoticed. Actually, it was not a new face, rather a rejuvenated one. At the onset of classes the bowling alleys officially reopened, after being the victim of vandal(s) on September 27. Although the exact tab for the destruction has not been tabulated, according to Assistant Treasurer Bill Barret, the figure is expected to run in the vicinity of \$10.000. Let's hope that the second semester isn't as costly as the first.

Environmental Intern Program

Summer or semester jobs for college students with government, private industry and nonprofit organizations in the environmental field. Applications at your Placement Office or EIP.

For internships in:

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Cleveland, OH 44114 Minority candidates are encouraged to apply.









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classifieds

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

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Hear ye! Hear ye! the Guppy has made the Big Time. He performs daily at the Bostonmania Marine Aquarium.

Happy Valentine's Day to Our Sweetheart OEE Pledges. Love, the sensuous Sisters

Turn your trash into cash! Learn about refunding and make the most of it by joining a coupon club - call Jill at 799-2787 for details.

Dan: "And in the end..." Remember that one? Give it some thought - it still applies. Happy Valentine's Day from your very own. Ingrid.

Where are the O.S.R.A. Wimps? Are they doing unnatural acts with Maine moose or doing tide instead of coke? Stand up and be noticed or remain quiet and permanently stained.

M.O.S.R.A. mourns the loss of one of its most beloved members O.B. not the method but the man who will be forever remembered in the anals of WPI dropouts. The memory of the triangle lives.

Fuller 23, Happy Valentine's to a great bunch of neighbors.

Gall, Happy VD-Day. K2-KAP

Fuller 15 and Jack, We would like to extend our wishes for a Happy Valentine's Day. (Even if we don't get chocolates, we will still love you all. Fuller 25.

To the Foxboro Fox, Best wishes for a Happy Valentine's Day. Someone you you — me! Banannie

Bicycle for sale — Raleigh Grand Prix. 25" Frame, new Rigida Rims and Sunshine Q.R. hubs. Call Mike at 756-6806.

Bunk Bed Frame for Beds in Morgan Hall. Very sturdy...doubles the space of your cubicle. Store here for the summer — sell next year! \$40.00 (mat'ls worth 35. at least) Call Kevin 791-6921 (or Box 846)

Found - 1 watch in mens locker room, alumni gym. Approx. last week in January. Call 753-1725 to claim.

Graduating Seniors: The WPI Alumni Association has a free gift for you! The Graduate magazine. Pick up your free copy at the Alumni Office while the supply lasts! (3rd floor, Boynton Hall).

Celluloid Heroes, You Really Got Me, Lola, All Day and All Of the Night, Low Budget, Victoria, Well-Respected Man, Superman, Sleepwalker, Village Green Preservation Society...We want The Kinks.

For Sale: TI-58 Calculator \$70 or best offer. Contact box 1934.

To my one love, Lisa LaBoof: My love for you is growing stronger with the passing of each dawn — will you please be my valentine?

Donna Bagdonovich — Make sure you're psyched for this week — end! It's our initiation as a sorority — your secret chum from Alpha Gamma Delta.

My Gork — "I love you just the way you are."

The B-52's will fly on a Special Mission over PEARL HARBOR, and the explosians will DEVOstate every megawimp that likes Disco. All and all its just a CROCKETTshit in the wall.

WE WANT THE KINKS!! Give them anything they want; Just let them play here. The Show Must Go On!...A deprived Kinks Fan.

T.P. The dictionary defines octave as "an interval of 8 diatonic notes comprising a complete scale," — but we know better - right?

"Caroline, Kathy, Anne, and Bonnie. Happy Valentines Day." You love starved girls.

Renee and Liv- Who broke your hearts?

Ride offered — to Hartford, Waterbury, and Danbury, CT. via 186/184. Friday, Feb. 15, 4:00 p.m. in wedge near snack bar -charge:\$5.00 Vic-752-4213.

\$5.00 Reward for return of Bausch and Lomb sunglasses lost 1/28/80. Contact Peter Day, Box 2420, 791-0644.

To the girls in Fuller 25: Happy Valentine's Day!!

Steve Brodeur would like to wish all his harem a Happy Valentine's Day — especially Ann, Gall, and Kathy and boom-boom Annie. Oh yeah. And Dianne.

To the Alpha Gamms. Have fun on your big weekend and congratulations.

There will be a meeting of the Committee of Concerned Students (CCS) on Wednesday, February 13 at 3:00 p.m. in HL224. All are invited to attend.

Club 21- We like Pink Floyd, Boston, CPB and all the rest too, BUT not at 120 Db at 2:00 a.m. or any other time.

R.I.P. G.W. Scragg got his beard caught in a disk drive and now resides in memory.



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Which way will it fall?

by Scot Robertson

This series of questions, to appear weekly in Newspeak, is part of an IQP designed to aid WPI students in basic physics.

When a tall chimney falls, it usually breaks in two at some point along its length. Why doesn't it fall in one piece? Will the chimney bend toward or away from the ground after the break (see

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If the chimney does not break, something even stranger may occur: the base of the chimney may hop into the air during the fall (fig. b). How can it do this, seemingly against gravity?

For answers to these questions, if you are stumped, see the "Question of the Week" with answers posted outside of OH107. This question, provided by the IQP members Scot Robertson, James Steele, and Michael Venanzi, is taken from the Flying Circus Of Physics by Jearl Walker. Any opinions on the question of the week would be appreciated and can be sent to Scot at

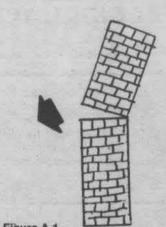
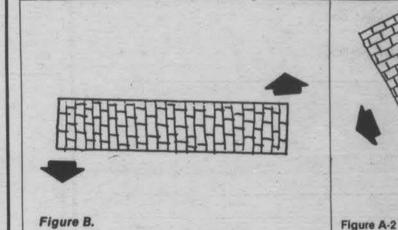


Figure A-1



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Students push for Kennedy

Over this intersession, four WPI students participated in the Presidential Campaign of Sen. Edward Kennedy as full time interns in the N.H. primary. In addition other WPI students participated in weekend canvasses in the Granite State.

Two of the students, Mark Bowin and Harry Piligian, were stationed in the Dover office, while the other students, Junny Guerrin and John Sullivan, were stationed in the Nashua headquarters. Their duties included supervising the office, voter target drives, and supervising the student volunteers for the weekend canvasses.

The purpose of the weekend canvasses was to determine voter attitudes toward the senator and the issues that most concerned the New Hampshire voter. Invariably, inflation and high energy prices proved to be the major concern of the voters. Others were misinformed on the Senator's positions on health care and gun control. The canvassers provided them with papers outlining Kennedys stands on these issues. After the students finished canvassing on Saturday a nighttime of partying commenced!

The canvassers began again on Sunday around 11:00 and finished around 5:00.

general, the students were satisfied with their experience.

Any student wishing to canvass in New Hampshire on either of the next Sullivan, Box 2379.

WPI professors take heed

A student who was upset over a poor grade reportedly shot and killed a college professor in his office. Charles Wesley Brown has been charged with the shooting of Ira Holland, Professor of education at Edward Waters College.

Correction

Mrs. Higgins never remarried as was stated in last week's article "Higgins House serves as WPI's 'campus jewel' Our apologies to the Higgins family on

Washington project

(continued from page 1)

the same as those set for staff working full time at the agencies. It is good experience in report compilation and presentation.

Of course, it is very convenient to get one's IQP out of the way in only one term. In the D term preceeding the fall in which the student is to be in D.C., the projects are assigned and project groups formed. This preparation is excellent as it gives the students a chance to work together and allows them to get much of the background research the project done. Although sometimes the project topics are modified, this background research is still helpful. The seven week time constraint means that one must be ever conscious of deadlines, either those set by the advisors or self imposed. If one is not mindful of the time it is very easy (I know) to end up working many late nights or early mornings as the term draws to a close. If the agency provides clerical assistance, the task of assembling the final report is greatly simplified. If not, students become quite adept at using either a typewriter or a word processor!

There is much to do in D.C. outside of work and one is limited only by monetary resources and to a lesser degree, transportation. Culturally the city is rich as it abounds with museums (it seems one could visit a different one every day of the year),

theatres, galleries, and monuments. And don't miss the National Zoo. There are lots of opportunities for shopping from Garfinkels and Woodies to numerous boutiques. Although the streets are quiet, there is also an active night life. There are plenty of clubs ranging from discos to coffeehouses to pubs to student bars. There are many student as there are several universities in and around D.C.

A term in D.C. would hardly be complete without a few runs into Georgetown to the Georgetown University pub or over to George Washington University student center which has free bands and inexpensive drinks. There is a lot going on that is free, but one has to look around. So again having enough money to have a good time is important and employment is impractical if not impossible for Techies in D.C.

Doing an IQP in Washington, D.C. goes beyond a mere academic exercise. In conclusion, it is a very worthwhile experience and could well be the highlight of some students' four years

MG comp deadline

MG Department Comp applications deadline for March Comps is Monday, February 25 at 4:00 p.m. Certificate of eligibility forms are available in MG Department Office. MG Department Comp applications are due for MG, MGE, AND MGC majors.

ACROSS

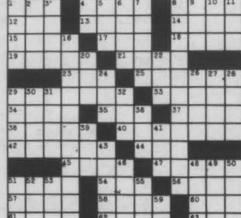
- 1. Little one 4. Transport by
- truck 8. Sparse
- 12. Freudian word 13. Choir voice
- 14. The "good
- guy" 15. Desertlike
- 17. Set down
- 18. Water pitcher
- 19. Cantaloupe
- 21. Saintly arc
- 23. Irish dance
- 25. Beard softener 29. Well-ordered
- 33. Window blind 34. Raw minerals
- 35. Sweet potato
- 38. Blackboard
- 40. Violent downpour of
- rain 42. Homonym of cereal
- 44. Evil
- 45. Grouchy person
- 47. Sousa
- specialty 51. Call publicly
- 54. Flying
- New Haven 57. The way out

University in

- 58. Margarine
- 60. Pool stick
- 61. City in Nevada 62. Rocky shoal
- 63. Snakelike fish

DOWN

- 1. Jets or Mets Hideous giant
- Labor
- Laugh sound Everything Beehive State
- Faithful
- Lately: 3 wds
- Cut down 0. Anger
- 11. Scandinavian land: abbr.
- 16. Treat fairly:
- 22. Spanish "the" 20. Nothing
- 24. Merry
- 26. Own Forbidden-
- fruit locale
- 28, Lease



29. Betsy -,

name

31. Equipment

32. Pied Piper

follower

39. Corn spike

41. Ewe's mate

46. Large bundle

49. Slight bit of

evidence

50. Shoe part

53. Cotton

48. Olympic event

51. The P in MPH

52. Chopping tool

55. Golfer's aid

59. Belonging to

43. Work

36. Unruly crowd

flagmaker

30. "Whodunit"

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Library offers workshop

During this term many students will begin projects and sufficiencies, and many seniors will be taking the competency exam at the end of the term or following D term. In all of these activities, familiarity with the materials and services of the library can play an important part.

Library Resource Workshops offered by the Reference Department will attempt to acquaint students with the facilities and services of the Gordon Library. From February 5-14 at 11 a.m. the workshops will cover basic reference sources, the periodical literature, and technical reports.

In addition to the general workshops the staff will work with the project, sufficiency, or class groups to provide library orientation concentrating on the subject interest of a particular group. If you would like to arrange a session for a group, or if you have any questions, contact Don Richardson or Carmen Brown in the Reference Department.

Remember that the general library workshops will be held daily through February 14 at 11 a.m. See the sign-up sheet in the Reference Department if interested in attending.



President Cranch awards Mark Nestor a game ball for being only the fifth player in WPI history to score over 1000 points. Nestor attained this goal in December against William Patterson.



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Defense and goaltending boost icemen

by Dick Forand
This writer will break his selfinduced Newspeak boycott to announce the Hockey Team's success this half of the season. Last year articles were not necessary due to our outstanding fans but this year is different articles are needed.

Defense and goaltending helped propel the Engineers back to respectability. The Goaltending of Andy Racicott and yours truly along with the defense of George Oliver, Mark Riley and first year men Mike Horgan, Doug Saunders and Joe Bracken has been strong this half (that was until the last

This half has produced five wins against two losses to up the Engineer's record to 7-7-1. Wins came over Johnson & Wales, Curry (2). U.Mass-Boston and Tufts. The losses came against Suffolk and Rhode Island Junior College.

two games when Goaltending broke down.) It is not possible to recall every game so here are some high-

Against Curry on January 20, Coach Bowen in an attempt to get more scoring moved Tim Smith to center

Girls stage a comeback

co-sports editor

The WPI women's basketball team played three good matches this past week, winning two and loosing the

First, on Monday, February 4, WPI played Suffolk University at home in a game dominated by WPI. WPI held the lead throughout, ending the game with a lopsided victory of 61-29. High scorers of the game were Leslie Knepp and Janet Hammarstrom each with 10

Also at home on Tuesday, February 5 the girls defeated Wheaton College in WPI's best game this year with a score of 73-48. Compared with last year's game against the same school, in which WPI was substantially defeated. this year's game proved that our girls

were more prepared to compete with Wheaton.

The high scorer of the game, Michelle Giard, contributed an amazing 25 points to the game and made almost 100% of her baskets

Finally, on Thursday, February 7, WPI lost, in an away game, to Assumption College. The girls played well, but their shooting accuracy was not up to par with that of Assumption. At the end of the first half the score was 36-22 and the final score was 65-40

The team record is now 5 and 8 and the girls are hoping for more wins in upcoming away games. The next home game is February 15 against Colby College in Harrington Auditorium. The team would appreciate any cheering support.

with, Tony Lucey and Chuck Crowley at Wings. That line combines for 5 goals in the 7-3 win. Dick Forand has 40 saves in taking the win.

Suffolk was probably the best game of the year as far as spectators were concerned. WPI lost by a 5-4 score in a controversial finish. With 23 seconds left and the puck in WPI's zone, Jim O'Keefe won the face off, the puck was brought around the net and into the Suffolk end. When Lucey scored with one second in regulation time the WPI bench went wild in what they thought was a well-deserved tie. But lo and behold, an error was made. The timekeeper forgot to start the clock for at least 10 seconds. The mistake was brought to the attention of the referee who disallowed the goal and awarded Suffolk the win. The goal is still under appeal with the league officials.

Curry was then brought into Worcester's finest indoor rink, Webster Square. A oneman show was put on as Jim O'Keefe scored a goal and added 4 assists to ice the game, 8-3.

Many of the faithful Sig-EP's and regular fans went to Dorchester as WPI went against U.Mass-Boston. This was to be the last meeting of these two teams as UMB goes varsity next year

and like any other Division III team does not want to be beaten by a club team. So what does WPI do, goes out and beats them 4-3 in a well played game. It was a good game for WPI as the team overcame the 1st line's defeciencies and scored 2 third period goals by Randy Brown and Joe Bracken to move on to victory.

Not much can be said about the next two games, an 11-8 win over Tufts and 9-5 loss to RIJC. The goal tending just was not there. Against Tufts, the team was able to overcome the lack of saves but against an extremely strong RIJC Team, WPI could not.

There are a few interesting things to watch for in the final five games, other than five WPI wins. Ray Cronin, already WPI's all-time leading scorer, needs only 10 points to reach the 100 point plateau. Jim O'keefe's 22 Assists ties Greg O'Halloran's WPI high while Pie Millet's 18 goals also ties Greg's record of a year ago. Both O'Keefe and Millet are in striking distance to head's 40 point season. Maybe you can be there to see it. Games left are Western New England, Feb. 13 at 8:00 in Worcester, Conn. College Feb. 19 away, and the finale on Feb. 21 against Clark at 8:40 in the Beautiful Webster Square arena.



Defense has played a big part in the girls' comeback.

"I'll get that!"

Women's Soccer organizational meeting

by Shauna Donovan co-sports editor

There will be a meeting of all girls interested in playing recreational soccer this spring or next fall on Wednesday. February 13 in the Wedge at 4:00. This meeting will mainly be a chance to see how many are interested in Women's soccer at WPI and to discuss the playing conditions for the spring and/or fall. All girls are welcome no matter how skillful in the sport, since the idea is just to have fun. Recreational soccer will not be overly time consuming, it will probably meet on Sundays only and attendance will be up to the person involved. All those interested are encouraged to go to the meeting or to get in touch with Shauna Donovan Box 523, Daniels Hall room 329, or Cindy Gagnon Box 127.





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Get together with an AFROTC representative and discuss the program. We'll give you all the facts. It could be one of the most important talks you've ever had with anyone about your educational plans.



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Ed Walls plays tight D. the key to Engineer's comeback.

Cadets slip by Engineers by one

The WPI varsity basketball team lost a hard fought battle against the Coast Guard Cadets, 43-42 last Friday night in Harrington Auditorium.

The Engineers got off to a very slow start as the Cadets rallied for an 18-6 lead at one point. Then, with WPI's hustling defense and an excellent full court press, the Engineers fought back to within one point. With 30 seconds left in the first half, freshman Russ Philpot put the Engineers ahead for the first time in the contest. He added another hoop and the Engineers took a 28-25 lead at halftime.

WPI came out storming in the second half as they jumped out to a quick ten point lead with six minutes remaining in the game, the WPI lead was cut to one. At that point, Kaufman had his team go into an open offense that saw three minutes of WPI passing until they lost the ball. With 1:30 left in the game, the Cadets took a one point lead. With 8 seconds left, Fled was at the line for the Cadets, shooting in a one and one situtation.

He missed the shot and WPI got the rebound but they were unable to get off a shot before the final buzzer.

Crossword solution

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Swimmers set many personal records

by Paul Cottle

While the WPI swim team came away from Thursday's home meet against Trinity with another mark in the loss column (by a score of 52-43), not too many of the Engineers could walk away from Alumni Gym unhappy:

-Certainly not Coach Steve Diguette, whose team posted in 24 swims, 20

seasonal best times.

—Certainly not freshmen Mike Healey and George Beebe, who lowered their own freshman records in the 200 yard butterfly and 200 yard breaststroke, respectively.

—And Certainly not seniors MJ Hall and Anne Marie Kruglewicz, who finally returned to the form which brought them All-American status last

The opening event, the 400 yard medley relay, set the tone for the meet. While the WPI relay improved by two seconds from its best previous time of the season, posting a 3:55.39, the Trinity relay streaked to victory almost three seconds ahead, dropping almost

six seconds from their previous best.

In the 1000 yard freestyle, Trinity's Rich Katzman powered ahead of Ann Marie Kruglewicz in the last 40 yards to beat Anne Marie's seasonal best of 11:06.50.

Finally, after three more Trinity victories, Mike Healey brought home the first WPI victory, in the 200 yard butterfly. His winning time of 2:07.41 lowered the existing freshman backstroke, MJ Hall posted a third-place time of 2:18.22, her best time of the season by three seconds. With that swim, she joined Anne Marie Kruglewicz in becoming a threat to earn All-American status at AlAW Division III nationls this March.

John Lee captured one of the scarse WPI victories, winning the 500 yard Freestyle. George Beebe then followed Trinity's Doug Gray and WPI cocaptain Jay Bellingham into the finish in the 200 yard breaststroke to shave one-tenth of a second from his old Freshman record.

The WPI freestyle relay closed out the meet with a gusty victory in 3:27.33.



Breaking down court.

Wrestlers readying for New Englands

by Joe Carson

For the first time this season, the WPI wresting team was bestowed the No. 10 overall ranking in New England (No. 2 for Division III schools), and Tuesday night the grapplers insured their position by pounding MIT 44-3, and improved their dual meet record by 13-2

After Andy Masullo's forfeit win at 118 pounds, co-captains Dave Wilson (126) and Tony Masullo (134) scored lopsided 31-2 and 13-5 respective wins.

Tom Kilkenny (142) boosted his seasonal mark to 12-1-1 by overwhelming his opponent 20-2, while Ron Harris (150) bettered his record to 9-1 (six pins) by virtue of a 10-1 win.

Grey Doyle posted a narrow 9-5 decision at 158 pounds and John Atkinson, (11-2-1) scored a superior 17-5 decision at 167 pounds, while Craig Dempsey recorded the lone pin of the night for the Engineers, flattening his opponent in 1:21.

It appeared as If the Engineers were on their way to the third shutout of the season when Jim Housekeeper jumped to an 8-0 lead in the first period of his 190-pound bout against the Beaver's John Stenoid. But Stenoid roared back, scoring 11 unanswered points to post an 11-8 decision for meet-host MIT's only win.

Heavyweight Marshall Housekeeper recorded a forfeit victory to score WPI's final points of the night.

While such a substantial victory may be beneficial to a wrestler's ego and his record, lopsided wins like the MIT meet can cause worries for coach Phil Grebinas.

"A thing to worry about," Grebinar said, "Is the fact that when they (the wrestlers) go into a match with a team that is not strong, you worry about mental and physical letdowns."

The wrestlers travelled to Hartford University on Saturday and competed in an important tri-meet against Hartford and Wesleyan and faces tough Western New England College tomorrow

However, Grebinar has his squad working hard toward a possible team championship in the New England Intercollegiate Division III Wresting Tournament at WPI on Feb. 21-23.

Grebiners has cited The Coast Guard Academy, Massachusetts Maritime, Western New England, Amherst, and WPI as the teams to bret for the team title.

"We need a little bit of work on stamina for tournament situations." Grebinar said in looking ahead to the New Englands.

If the grappler's conditioning improves, and their agressiveness continues, the New England championship trophy may have to move only a short distance from the WPI gymnasium to the WPI trophy case.

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WHAT'S HAPPENING

Tuesday, February 12

Cinematech (Black Cinema Series) "Black History: Lost, Stolen or Strayed", This is the Home of Mrs. Levant Graham", and "Paul Lawrence Dunbar", Kinnicutt Hall, 7:30 p.m.

Wednesday, February 13

Women's Basketball vs. Brandeis, away, 7 p.m.
Wrestling vs. Western N.E. College, away, 7 p.m.
Indoor Track vs. Holy Cross/WSC, away, 7 p.m.
Varsity Basketball vs. Williams, home, 8 p.m. (JV game, 6 p.m.)

Pub features artist spotlights "The Grateful Dead" and "The Rolling Stones", 8:30 p.m.

Thursday, February 14

Swimming vs. Brandeis, away, 7 p.m. Hillel Movie, Kinnicutt, 8 p.m.

Friday, February 15

Women's Basketball vs. Colby, home, 7 p.m. Class of '83 Mixer, Alden Hall, 9 p.m.

Sunday, February 17

Wrestling, New England JV Tournament at Trinity College. Lens & Lights Film. "It Came from Outer Space" (3-D glasses supplied). Alden Hall, 6:30 and 9:30 p.m. (Adm. \$1).

Monday, February 18

Women's Basketball vs. Clark, home, 7 p.m.

Tuesday, February 19

ME Colloquim, "Industrial Applications of Hologram Interferometry" Dr. Nils Abramson, Royal Institute of Technology, Stockholm, HL109, 4:30 p.m. (coffee at 4).

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