

# The Spirit of Giving

by Gary Goodell

Fraternities and Sororities at WPI exemplified the spirit of giving as the holiday season approached. All together 21 separate service projects were done and 18 of these directly benefitted the Worcester community.

Hundreds of children from the Worcester Area got a special gift this Christmas, a personal call from Santa Claus. This service was conducted by the Worcester Parks and Recreation Department who were assisted by members of Alpha Chi Rho.

Four Christmas parties also were held by fraternities (Alpha Tau Omega, Alpha Chi Rho, Sigma Alpha Epsilon, and Phi Kappa Theta with Phi Sigma Sigma) for children. Many of these children are from one parent families and some are orphans. All the children are from Worcester.

Three of the children's Christmas parties were all arranged through an organization called The Friendly House of Worcester. The Friendly House provides a wide range of services to the Worcester community including a shelter for homeless families, recreational activities for different age groups, daycare, hot meals at locations all around the city, as

well as health and social services.

Lambda Chi Alpha collected over eight tons of food for the Friendly House. McDonalds lent their support to this project by pledging a McDLT for every 10 pounds of food collected. A radio station offered 1100 hours of free airtime for promoting the food drive and the Coca-Cola Co. supplied liquid refreshments.

Another campus group raised money for the Friendly House with their biannual can drive. Watch out for it when it comes around again, so you can do your part in helping out the Friendly House. It not only offers a wide range of meaningful services; it serves the community that we now are living in.

The fraternities at WPI put in a lot of work serving needy children of Worcester an excellent example of this is Phi Kappa Theta and Phi Sigma Sigma's involvement with the Big Brother/Big Sister program. The fraternity and sorority teamed up during B-term and held a Christmas party for one age group of the little brothers and little sisters from the program.

A party was given to hospital ridden  
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"North Pole Calling!" Alpha Chi Rho President Jim Nichols puts through a personal call from Santa as part of a program sponsored by the Worcester Parks and Recreation Commission.

# WPI Newspeak

The student newspaper of Worcester Polytechnic Institute

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Tuesday, February 4, 1986



## SocComm Band Battle I Does Justice to Students' Music

by Jack Spadaro  
Associate Editor

East Coast Jam and Farnum St., two bands composed of WPI students, are both heading to the finals of the SocComm Battle of the Bands competition.

In a rocking and rolling Alden Hall, both of these bands were selected by a panel of judges to have bested the other four entrants in the Friday evening fray. East Coast Jam won with a one-point advantage over Farnum St., but the panel of judges decided to let both bands enter the final round next week.

Three more bands will compete this Saturday evening and send up another finalist to the grand finale, also to be held this Saturday evening in Alden Hall.

The music presented on Friday evening ranged fully from poor to excellent. Many different styles were heard.

Blues and AUR rock were the focal points of the first four bands, including second place-finisher Farnum St. The fifth and sixth bands, Unstable Condition and contest winner East Coast Jam respectively, had sets of more current music arranged.

East Coast Jam featured a female vocalist on recent top-40 hits including "Never Run Away," by Heart, and "We Danced," by the Hooters. Their initial selection of "Turn It On Again," by Genesis, was especially good,

and it got the crowd involved. The lighting and vocal abilities of this band were the most noticeable of all the bands. Especially good was the recorder player by vocalist Wendy on the Hooter's tune.

The band Farnum St. relied on older well-known tunes to keep the crowd excited. The vocals and instruments were superb throughout probably the most coherent set of the night: "Johnny B. Goode" to an awesome original, the "WPI 5-to-1 Ratio Blues," and on to some classic Aerosmith, Springsteen and Skynyrd. This set pulled no punches. The guitars were somewhat heavy and unbalanced at times, but the vocals and Tom McColmide's blues harmonica were welcomed by the crowd.

My picks for the night were: Farnum St., Capitol City, East Coast Jam, Unstable Condition, Internal Inferno, and the Bulkheads, in that order.

All of the action was reproduced on a video screen near the stage in one of many excellent moves by Lens and lights and SocComm. The dance videos inbetween sets kept the attention of the crowd up front. The night was the first SocComm-sponsored success in recent memory. Let's keep them coming. Be at the SocComm Battle of the Bands II this Saturday evening for a good night entertainment for only a buck.

## Copy Costs Jump to 8¢ as Copy Center Closes

by Howard B. Bernard  
Associate Editor

On January 31, the WPI Copy Center was closed, a new facility in the Bookstore was opened, and the cost for most copies made on campus rose from five cents to eight cents — a 60% increase.

According to Michael Kyritsis, manager of office services, remodeling in the project center and increased costs caused the changes.

"Practically every department has its own copier," Kyritsis said. This reduces the number of copies made on each machine, he said.

With rent for copy machines like those found in the library (and formerly in the basement of the Project Center) at "a minimum of \$900 per month [each]," Kyritsis said, "you have to make close to 12,000 copies per month to break even."

(At \$.08 per copy, 11,250 copies are re-

quired to generate \$900. At \$.05, 18,000 copies are needed.)

Although the library and copy center machines once made 18,000 to 20,000 copies per month, Kyritsis said, the number of copies made on those machines is "dramatically down."

Kyritsis said that because of remodeling in the Project Center building, there is no space for a copy center there.

To take up the copying burden, a new copy machine has been added to the library, said Kyritsis, and a new copying facility has been established at the Bookstore. It will be open from 8:30 a.m. to 4:30 p.m.

"It [the Bookstore machine] will be another copy facility," said Kyritsis, where students can drop off work or have it done while they wait, as they could at the Copy Center.

According to Kyritsis, the funds generated  
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## IEEE Sponsors Lunch Presentation On WPI/MITRE Project

by Jeffrey S. Goldmeier  
News Editor

Last Wednesday Dino Roberti, a graduate student here at WPI, began the IEEE lunch presentation series, with a presentation on the progress of the MITRE/WPI space shuttle project. In the first part of his presentation he described the first stages of the project, and the role played by the MITRE Corporation. Then he went into some detail about the experiments involved.

The project began three years ago when MITRE acquired the opportunity to put a self-contained payload aboard the space shuttle through a NASA program called the Get Away Special (GAS). This program was NASA's way of allowing others, mainly universities, to be able to gain access to space for experimental purposes, without having to pay the exorbitant cost. But MITRE did not have any need for this type of experimentation, so they agreed to donate the GASCAN (Get Away Special Canister) to WPI.

The first agreement was signed on December 14, 1982, and since then there have been many accomplishments. One problem

that presented itself was that this was a long term project, not just one year as most are, so a solution to this was needed. To solve the problem project teams were selected from the applications submitted, and this process continues every year, which allows the project to continue. The new members must begin work in D-Term, to learn the various aspects of the ongoing projects.

To date, GASCAN I is through the design and construction phases, and is preparing for safety checks. The five experiments that were chosen to be carried in GASCAN I are: Fluid Behavior in Micro Gravity, Zeolite Crystal Growth, Film Exposure, Micro-G Accelerometer, and an Environmental Data Acquisition System. The expected launch date is the fall of 1986, but because the GASCANs are known as "space available" projects, they can go up earlier than expected, if they are ready, and if there is room for it in the shuttle's cargo bay.

The success of the first project prompted MITRE to sign a second agreement with WPI, in which MITRE will provide WPI with a second canister, which will again be  
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## January Comp Results

Listed below are the results of the January, 1986 Competency Examination with the key items of the January, 1985 examination included for comparison:

Dept.	Results, January 1986			(One Year Ago) Results, January 1985				
	Total Exams Given	Total Number AD	Percent AD	Total Passed AC&AD	Percent Passed AC&AD	Total Exams Given	Percent AD	Percent Passed AC&AD
BB	8	5	63%	8	100%	4	25%	100%
CM	30	1	3%	20	67%	44	11%	68%
CH	5	1	20%	4	80%	2	0%	100%
CE	36	5	14%	27	75%	28	18%	79%
CS	28	9	32%	22	79%	36	19%	86%
EE	158	28	18%	118	75%	151	19%	81%
HU	1	0	0%	1	100%	0	—	—
ID	0	—	—	—	—	1	—	100%
MG	41	4	10%	30	73%	35	17%	66%
MA	5	1	20%	4	80%	7	14%	86%
ME	98	20	20%	77	79%	123	18%	76%
PH	9	4	44%	6	67%	2	0%	100%
SST	0	—	—	—	—	0	—	—
<b>TOTAL</b>	<b>419</b>	<b>78</b>	<b>19%</b>	<b>317</b>	<b>76%</b>	<b>433</b>	<b>18%</b>	<b>78%</b>

In January of 1986, the total number of repeats was 24, of which 14 (58) passed.

In January of 1985, there were 26 repeats, of which 12 (46) passed.

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

	1981	1982	1983	1984	1985	1986
January	74%	71%	72%	74%	78%	76%
March	70%	80%	73%	72%	72	
June	62%	66%	69%	74%	79%	
October	63%	62%	62%	71%	77%	



# EDITORIAL

## The Spirit of Giving

*It seems like every day, another charity springs up, asking for our help. The hungry, ailing, misfortune stricken of the world are always banging down the door looking for support from you know who. It's sad; they really need help, but how do we choose between them. How much can we do for those who need our help.*

*With the size and scope of today's problems, it's difficult to have an impact. Where do we start? How can we be sure our efforts will be put to good use? How can we be sure our donations are used for what they were intended?*

*Not every charity is this unpredictable, though. There is one charity through which we can have a direct impact on the lives of others, a charity that leaves no doubt as to how our donation is used. It doesn't cost a cent to donate to this charity and yet, there are some who don't even consider giving. It doesn't cost a cent to donate blood, and it couldn't be safer or easier to do.*

*The Red Cross volunteers who will be here on Wednesday and Thursday, have dedicated their time and talent along with IFC members who organized the drive. All we have to do now is lay on a table for a few minutes then eat some cookies. Saving a life couldn't be easier. So, don't forget to stop by Alden Hall on Wednesday or Thursday. And if you've never given before, "Come on Herb!"*



# LETTERS

## Fraternity Criticism Unjustified Says Ex-Lambda Chi President

Dear Sir:

As a brother in a fraternity, I feel that it is high time to respond to the criticism which is often leveled against us by your paper, the faculty and the WPI community as a whole. While the criticism is sometimes warranted, it is more often than not the action of individuals which lead to our downfall. It is important to remember that we are all individuals and as such are often tempted to do things which others may consider objectionable.

For years the WPI fraternity system was considered one of the leading systems in the country, however, we got careless, caught up in ourselves and dissension got the best of us. During the past two years, under the leadership of some good presidents, Mike Kelly, Paul Johnson, Scott Cormier, and Jim Nichols among them, and an excellent IFC board, with Mike Gonsor as President, we have come to accept our faults, and are attempting to correct them. This job is a major overhaul, but is possible and will eventually be completed.

Much is overlooked concerning our positive accomplishments, the pledge fair, the first of its kind, the pre-initiation week guidelines, and above all a group which governs itself accordingly. For this we owe many people outside of brothers, namely Roger Perry, Helen Vassallo, President Strauss and Janet Richardson.

Fraternities also provide many things besides a social atmosphere for those outside their houses on this campus. As supporters of WPI athletic teams on this campus, no one is our equal. We also provide many other services to this campus. The morning sign-up at OGCP is handled exclusively by fraternities and sororities. Many students and faculty would find treading tough if we

didn't get up at 5:30 to shovel the campus after a snow storm. The Worcester Consortium Shuttle, used by many students, is also run by a fraternity. The active alumni are also found to be past brothers of fraternities who happen to be some of the heaviest contributors.

The Worcester community also benefits from the public service projects initiated by the WPI fraternities. Project help, created and coordinated by LCA collected over eight tons of food for the needy of Worcester, SAE contributed with their bed race, Sigma Pi had a miracle mile of quarters, and the Big Brothers/Sisters programs coordinated by a KAP brother. This is not to mention the Christmas parties, alcohol awareness programs, or basketball clinics.

But the reason we're all here is education and this is one area in which all the fraternities excel. With the fraternities comes a built-in system of tutoring. The upper classmen aiding those needing help in classes and building a library of self-help resources.

In closing, I find it difficult to believe that all the criticism which we have leveled against us is warranted. It seems hard to believe that a system which is looked to for help on this campus by SocComm, OGCP, and the Dean of Students Office, as well as Philanthropic agencies throughout Central Massachusetts, is *always* wrong. I think that it is high time that faculty and students look at themselves. We, as a system have done this, and are doing something about it; if we don't succeed, then criticize us, but think about how much we provide for this community, and re-evaluate your opinions, and accentuate the positive for a change.

—Michael Doherty '86  
Ex-President Lambda Chi Alpha  
MGR—WCHE Shuttle

### Letters Policy

WPI **Newspeak** welcomes letters to the editor. Letters submitted for the 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 verification. Students submitting letters to the editors 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 will not be published.

The editors reserve the right to edit letters for correct punctuation and spelling. Letters to the editor are due by 9:00 a.m. on the Friday preceding publication. Send them to WPI Box 2700 or bring them to the **Newspeak** Office, Riley 01.

Commentary articles reflect the opinions of the writer and not necessarily those of **Newspeak**.

# COMMENTARY

## SocComm Sleeping? No Way!

by Katherine Bolton

The WPI Social Committee, known as SocComm, is the student run organization on campus responsible for the utilization of the students' social fees to provide entertainment for all tastes within the WPI community. Contrary to a previously expressed belief, SocComm is not asleep. The students who make up the six "sub-committees" of SocComm work to use \$200,000 of WPI students' money in such a way as to appeal to a wide variety of interests.

These six committees are: Special Events, Coffeehouse, Pub and Pub Changes, Spectrum/Cinematech, Films, and publicity. The Special Events Committee plans activities ranging from Winter Weekend to the Lip Sync Contest and Battle of the Bands. The Coffeehouse Committee is responsible for programming performers for Coffeehouses on Tuesday nights which have included acts such as "Hot Acoustics", Phil Cyr, and various comedians. The Pub and Pub Changes Committees are investigating new ideas for the use of WPI's now non-alcoholic pub and therefore have the opportunity to affect WPI's social life for years to come.

The Spectrum/Cinematech Committee arranges for the showing of weekly films which are as unusual as "The Life and Times of Harvey Milk", "Alice in Wonderland," and "The Three Little Pigs". This committee also organizes events for the Spectrum Fine Arts Series ranging from Taiwanese Acrobatic Performers to the christening of the new piano in Alden Hall by a famous pianist. The Films Committee chooses the movies shown in Alden Hall each Sunday evening and at other times during the year. The Publicity Committee works with the other five committees to insure that the student body is aware of all the entertainment available on campus.

Obviously, SocComm could become ineffective without widespread student participation and input. On Monday, February 10, at 4:00 p.m. in the lower wedge, there will be a general SocComm meeting. All students are welcome to attend and discover how important it is to become involved in the WPI Social Committee. It takes only one hour per week to be a SocComm member. Wake up and let one hour of your week make a difference for WPI social life!

## Man's Greatest Obsession

by Jeffrey S. Goldmeier  
News Editor

Throughout the history of Man, the sky, and the stars have been an obsession. He has always dreamed of reaching outward, and exploring the vastness and the wonders that awaited him.

It was this drive that sent man into the unprecedented era known as the "Space Race" during the 1950's and '60's. It was not limited to any particular race, or nationality, it was a dream that enveloped all.

The first conquests were small by today's standards, but they were still milestones in history. First came the unmanned spacecraft, like the Russian Sputnik, but they were quickly followed by the man flights of both the United States and the Soviet Union.

So it finally seemed that after thousands of years man was going to be out among the stars. And those first men, Glenn, Grissom, Shepard and the rest, were by far considered the luckiest on Earth. To see and experience

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# Newspeak

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Box 2700 WPI, Worcester, Massachusetts 01609  
Phone (617) 793-5464

editor-in-chief  
Jim Goodell

news editor  
Jeff Goldmeier

faculty advisor  
Thomas Keil

features editor  
Lisa Alpers

photography editor  
Jon Waples

business manager  
Christine Tondora

advertising manager  
Jim Webb

sports editor  
Peter Yap

circulation manager  
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Joe Sedor

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associate editors  
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Alan Spidle  
Chris Sweet  
Brian Teague  
Smyth Turner  
Helen Webb

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## OFFICE HOURS

MONDAY ..... 10:00-12:00 a.m.,  
TUESDAY ... 10:00-12:00 a.m., 1:00-3:00 p.m., 6:00-8:00 p.m.  
WEDNESDAY ..... 10:00-11:00 a.m., 4:00-5:00 p.m.  
THURSDAY ..... 10:00-12:00 a.m., 2:00-3:00 p.m.,  
FRIDAY ..... 11:00-12:00 a.m., 3:00-5:00 p.m.



# COMMENTARY

## Cynic's Corner Things Could Be Worse

by Andy Ferreira  
Newspeak staff

Here it is - a bit short, but a half a loaf is better than none, I suppose.

Welcome to C term. I realize that by the time you read this the term will be a week and a half old, not quite the best time for welcomes, but it will have to do. Before I go too far, first let me warn you that it has been about two months since I have written any English words, so please suppress your uncontrollable desire to correct my grammar and spelling.

In any event, for quite a long while I have been thinking about what to write about. I know I am in trouble when the only thing

I can come up with is squirrels on the White House lawn and various recipes for chocolate chip cookies.

Speaking of cookies, this past break I have been on a cookie binge. I had a number of friends who were taking the comp, so I figured I would be benevolent and all, and make them some cookies. Well, I found out how easy it is to make them and, now I am a compulsive cookie maker.

I will admit that the first time I made them was a bit traumatic - I didn't know all of the well kept secrets of baking. Take for example, a simple mixer. How was I to know that if I quickly removed the beaters still spinning

from the batter that I would end up with a speckled kitchen? No one was there to warn me about the explosive quality of a dropped clump of flour. I had to find out on my own that there is no neat way of cracking an egg. Yes, I went through hell that first time.

Now I must live with the side effects of compulsive cookie making. Flour has become my staple food. I am always short of brown sugar - so much so that I accept it as legal tender. My roommates no longer say "good morning" or any other niceties to me - they just say "no, I don't want a cookie." My attention span has dropped to 8-9 minutes, just long enough for one batch

of peanut butter cookies.

We were having a lot of trouble with uneaten cookies, because I was making them faster than I could get rid of them. That problem was solved, however, when I made a china cabinet out of four thousand butterscotch oatmeal cookies. Since no one in my apartment has any china, we store a number of the cookies there also.

I think I am going to cut this article off very short this week, its been a while since I wrote a lot, and I don't want to strain myself. In any case, have a good week, and if I can find my way out of the kitchen, I'll write more next week.

## The Poison Pen

by Jodi Bobbitt  
Newspeak staff

On Technology and Innovation

Technology is a strange combination  
Of sweat and true genius, guts, innovation  
Any tool we create, we apply to our needs  
It changes us, though as it follows and leads

I think it is part of the human condition  
To take as a given what reaches fruition  
To just take for granted as run-of-the-mill  
Some of the miracles science fulfills

Airplanes, computers, and washing machines  
Ticketron, stereos, banking routines  
TV, VCR, and six-packs of coke  
And repairmen's availability to fix what is broke

But sometimes it happens, a miniscule flaw  
Will throw us straight into technology's jaw  
The potential is there, for we all have noted  
"It was bound to happen" is so often quoted.

People suddenly feel like something's been altered  
"It's suddenly dangerous" "Science has faltered"  
"It's no longer safe" "Technology turned"  
These all are fallacies, surely we've learned

The discovery of fire did both hurt and aid  
It yielded progress, advances were made  
And yet, somewhere deep inside, we can't quell  
The knowledge that fire can burn us as well

Technology seems to just keep us guessing  
A sharp two edged sword, a curse and a blessing  
The 24 steps we've made moved up the track  
There still seems to be that one fatal step back.

And yet innovation and research go on  
We reach for the stars, irresistably drawn  
To achieve the impossible time and again  
But we pay the price, and no one can tell when

Suddenly what seemed a well-oiled machine  
Will slip, or misfire, or wildly careen  
"For want of a nail" the battle is lost  
And many still say it is worth the cost

A bold, courageous spirit exists  
Which builds, designs, attempts and risks  
We dream of being part of it  
With hopes and fears we all admit

Some friends of mine have echoed what I feel  
The dreams of courage we reveal  
"If they took volunteers today, I know  
I'd be the first to say I'll go."

## My View From Morgan Fourth

by Joshua Smith  
Newspeak staff

This week, Morgan Fourth lost the man who has helped to shape its character more than any other. His name was Patrick Dean Moroney, but since the first day of school, he has been known as Tex. I remember that day: a group of us freshmen were playing frisbee football in the hallway and Tony happened to call him Tex. I suppose it was a simple misinterpretation of the Virginia accent which he managed to keep despite the New England slang spoken here.

Tex coined many phrases commonly used on our floor, few of which can be printed; they included "Sucks for you!" and "Hold up, \_\_\_\_\_!" If said with the proper accent, these expressions bring tears to the eyes of those who knew and loves this honorable man. Tex had a great sense of humor, characterized by his bluntness. He knew how to get to the point. Unfortunately, he also knew how to enjoy himself. Tex knew how to have a good time, and how to help everyone else enjoy themselves as well. I think that Tex helped guide everyone on the Fourth toward his ideal of "Life is a party."

Tex had remarkable talents; he had been his high school senior class president; holds the all-time high score for Ms. Pac-man; he could tolerate Van Halen at overwhelming volumes; he sustained telephone relation-

## ... Obsession

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the thrill of space, and virtually "to go where no man had gone before." But man's desire did not end there. He reached for the moon, the silvery body that had tempted him for as long as he could remember.

Again man had extended his grasp in space, landing man after man on the moon. And even though they were few, an entire planet watched in wonder the "moonwalkers in white."

The turbulent times of the late 1960's and early '70's intervened, but man did not give up his quest for long. There was Skylab, a semi-success at best, and a revolutionary idea, a reusable spacecraft.

So came forth the Space Shuttle, a new vehicle to carry forward man's obsession with

ships that earned him volume discounts; and he was the best poker player I've ever met. And although you might not guess this to be true, he could relate to anybody. He could appear to have the utmost respect for any person with whom he conversed, even though I believe his respect was actually very hard to win. Tex had an acute mind, and his ability to judge people for what they really are was well developed.

Tex was studying Civil Engineering here at WPI, but not happily. He could never really understand why he needed all those basic-level courses. In his own words, "I'm here to learn Civil; I don't know why my advisor makes me take all this crap!" But Tex suffered through, nonetheless. He understood the importance of a college education, and it really bothered him that he couldn't apply himself. But he would just take another "dip" of Skoal, and try to deduce the solution for his difficult situation. Sadly, Tex never really solved his educational problems.

Tex didn't die - he left. Tex was very bright, but he was also good at enjoying himself. After a suboptimal performance throughout terms A and B, he decided that some time off might do him well. I have no doubt that he will calm with age; everyone does. I just hope that eight months is long enough. We all look forward to seeing him back here next fall.

the stars. With this, the opportunity opened for people, not trained specialists, but ordinary people to travel into space. To all, this was an childhood dream come true; the chance to go into space and be an astronaut.

But there has always been a price to pay in the hunt for knowledge. For many years we had forgotten all about it, but last Tuesday, January 28, we were all reminded of it. In an accident that should not have happened, but did, mankind lost seven brave and courageous people, who were pursuing the dream, the conquest of space.

They will always be remembered as heroes, explorers in a sense, giving their lives to a desire greater than life itself, the conquest of space.

## CLUB CORNER

### WPI Polytones

We are looking for people to join our group in putting together a few song and dance numbers for the Cabaret on Friday, April 18! This will entail a commitment of approximately 3-5 hours per week, usually on Sunday evenings. We need people who are willing to make a whole-hearted commitment and make these rehearsals. Our first rehearsal will be on Sunday, February 9 from 6-8:30 in Alden Hall first floor. If interested, either write to Kris at Box 2814 or show up at the meeting.

### WPI Rugby - Football Club

There is practice for Rugby on Wednesday, February 5 at 4:00 p.m. The practices will be preparing the WPI Rugby - Football team for its first games down in Delaware. Every Monday and Wednesday are allotted for these practices at the gym.

Also any player who plans to attend the Delaware trip on March 14-16 should send Deb a note in Rugby Box #900.

### Eta Kappa Nu

Eta Kappa Nu will be sponsoring an MQP informational seminar for sophomore and junior EE students. It will take place Thursday, February 6 at 4:00 p.m. in AK219.

## Schedule D-term Classes Now

NOTICE students may make course changes for Term D86 at the Scheduling Office between the hours of 8:00 a.m. and 5:00 p.m. until February 28, 1986.

## . . . MITRE

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used to carry a number of experiments into space. The proposed experiments for this canister are: a refined zeolite crystal growth process, an experiment which will examine how various materials burn in zero gravity, an experiment which will study a substance at critical point, and an improved data acquisition package.

But this entire project suffered, what could be a fatal blow last Tuesday, one day before the presentation, when the Space Shuttle Challenger and her seven crew members were lost in a devastating explosion. This national tragedy has had an added impact on WPI. Due to a delay this past fall, the GASCAN I project was behind schedule. If not for that delay, it could have been on the shuttle last Tuesday.

The MITRE/WPI project has brought many people here closer to the space shuttle project than they would be otherwise. During a recent interview, Rick Claudio stated that it felt as if he "had lost a part of himself".

In the aftermath of last Tuesday's event, the GASCAN projects are going to proceed according to schedule. The advice given to them by MITRE is to keep working, and finish the projects. This presents no problem to the students who work on this as part of their MQP's and IQP's.

During an interview with Professor Durgin, the Chairman of the GASCAN II project, he said that even if the shuttle program is completely shut down, the experiments could still be put up into space using a different method, but he doubted that the ramifications of the accident would be that dramatic. Specifically he believes that the shuttle program will continue on, due to the large investments made by the government.

In concluding last Wednesday's presentation, Roberti reported that even though the shuttle had suffered a blow, the projects would continue on schedule. So the next step would be to run all five experiments simultaneously, to make sure that they do not affect each other.

When that is done, the entire project must go through various safety checks, and prepare for launch.

Even though delay is inevitable, Roberti hopes that the shuttle program will resume so that GASCAN I can go up into space to complete its designated functions.

## . . . copy

(continued from page 1)

by the library copiers will go to the library, while the fees collected at the Bookstore will go to the Bookstore.

"They [Brennan College Services, the company that operates the Bookstore] have been very agreeable. They even bought the machines themselves," he said.

Kyritsis said that the copying facilities at WPI will be reviewed again in June.

"If I have the facilities, there is no question" that there will be a central copying location, Kyritsis said.

"We're terribly disappointed that we had to do this . . . The students should be helped, day or night," he said.

According to Kyritsis, there will also be a copy machine added to the top floor of the Project Center for the use of the projects department.

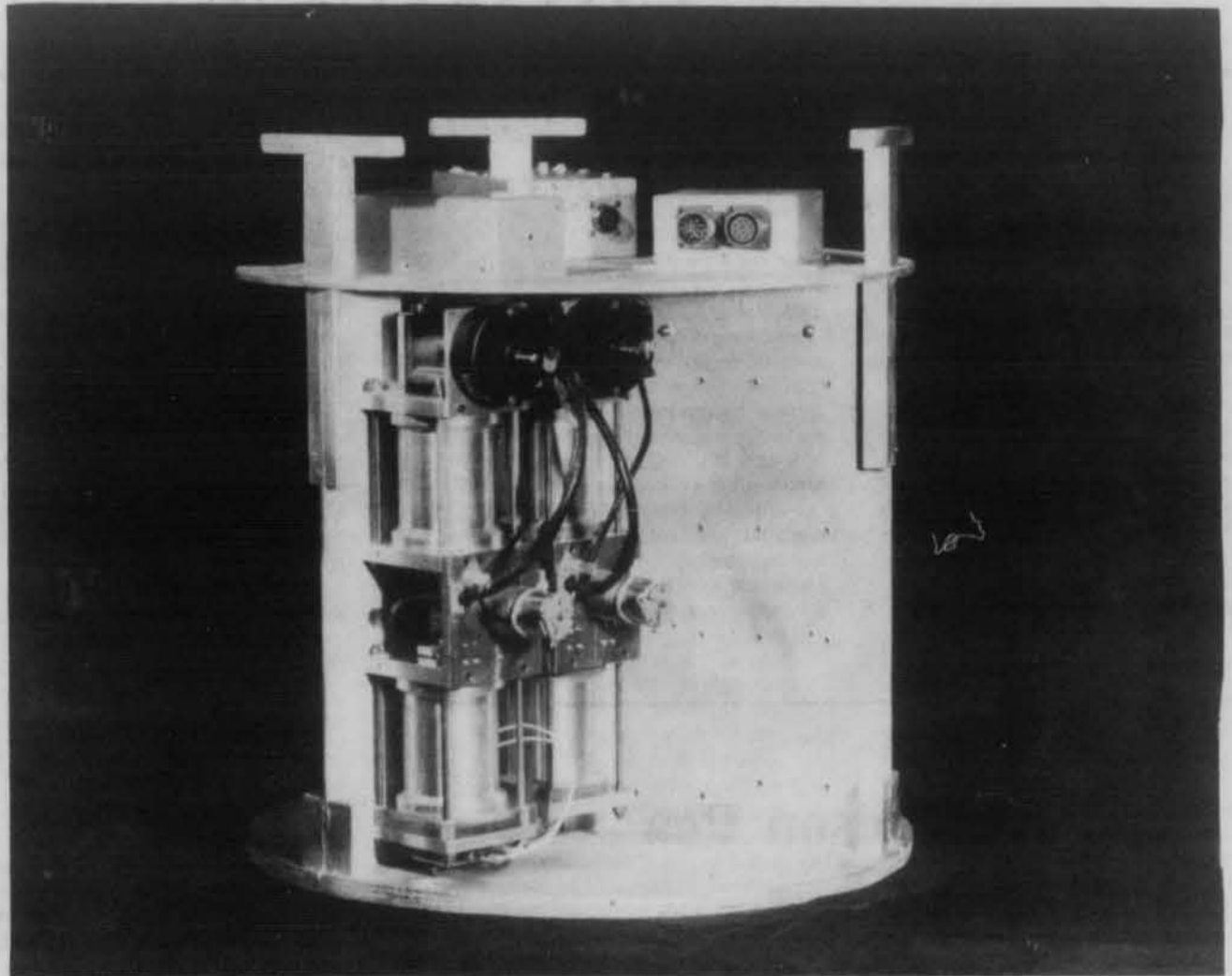
Kyritsis said that Francis Lutz, Associate Dean for Projects, has agreed that the charge for copies made at the Project Center should be set at \$.08.

"Whether he'll open it up to all the students I don't know," Kyritsis added.

Asked about reported price increases at other copying locations — such as department and administrative offices — Kyritsis said that they were not under his jurisdiction.

"I have not suggested or even told anyone else to do anything [about raising copy prices]," he said. "We cannot dictate to the other departments what they are going to do."

"This department [office services] will definitely consider searching for lower [cost] copying methods," Kyritsis said.



The "Fluid Behavior in Microgravity" experiment mounted on a wooden mockup of Gascan I.



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## GREEK CORNER

### Alpha Gamma Delta

Welcome back everyone. Hope everyone had a nice relaxing break and is ready to face C term now. Congrats to our competent seniors. Just think, the end of the road is in sight.

Pledges are you ready???? You did a good job at oral pledging. Of course, it's only Friday, and you haven't had it yet, but you all know your stuff. Roses to Tara for that. Well, have a nice week, and be prepared...

### Delta Phi Epsilon

Congratulations to Dara and Edie on your engagements! We thought that candle would never stop! Thank you to Fiji and Sig Ep for being such terrific sports at the intramural B-ball games. It's not every fraternity that can beat our sorority, especially with our favorite Point Guard, Cathy Murray, back on the scene. Thank you Phil, Bill, and Steve, we couldn't have played without you guys! Dribble the ball Sharon! The D Phi E HH is now officially a successful weekly event. We hope the pledges enjoyed the pizza Friday night and the movies on Sunday. At this rate you'll all definitely be psyched for initiation next B-term.

### Phi Gamma Delta

The Gams came back from break on fire, keeping both the basketball and hockey teams undefeated with wins over Sig Ep and SAE respectively.

Congratulations to all seniors who passed their comps and to those who didn't but still say they did during interviews.

Finally, at this time we would like to pay homage to Jim Dunn who was just recently named "Plant Service Employee of the Decade" and, as we all know, with that honor comes a bronzed rake and trash can, and a place in immortality as the newest member of the WPI Grounds Crew Hall of Fame. However, Jim will refuse the honor unless Joe brings the couch back from Chicopee.

### Phi Sigma Sigma

Sorry pledges, not everyone can make it back this summer (too many weddings), so it looks like a fall initiation. Congratulations to Erin, Michelle and Carleen for not drowning and turning in brilliant performances for the women's swim team. Sisters and pledges - get set for Division Conference held here on December 15 and 16. It should be a hum-dinger (?) of a time.

Finally, Diana S. is now accepting applications for the Phi Sig Ski Patrol. You must be an upperclassman, willing to relocate, and have superior lodge patrolling skills. Nice socks pledges!

### Sigma Pi

The brothers of Sigma Pi held elections last Wednesday night and would like to congratulate the new Executive Council;

President - Paul Gaynor  
Vice President - John Robbins  
Treasurer - Bill Martin  
Secretary - Bob LeBlanc  
First Counselor - Don Petry  
Herald - Tom Bogaczyk  
Good luck to these brothers in their new positions.

In Sigma Pi sports, the basketball team had an impressive 28-21 victory over LCA last week. Captain Mike Wozniak lead the defensive which play a tremendous game frustrating their opponent all night.

### Theta Chi

The Brothers of Theta Chi would like to welcome back Gary Allen, Hugo Curbelo, George McLane, Drew Payson, Rick Sheahan, Greg Vail, and Ed Valenti from Co-op; Ray Durling from Washington, and Derk Rogers from beyond.

Congratulations go to the following competent brothers: Ernie Asprelli, Adam Bosnian, George Bukow, Pete Caffrey, Matt Colangelo, John Curry, Scott Favreau, Joe Gammal, Jerry Melesko, Brian O'Rourke, Myles Parker, Stu Smith, Phil Wendell, Pete White, and Matt Vessie. Special Congratulations go to Rich Gargano, Dan Lussier, Paul Sanneman, and Bob Yard for getting an AD on the Comp.

Good Luck to Scott Bury, Rich Wholey, and Scott Bishop who are running for Activities Chairman, Rush Chairman, and Secretary in the I.F.C. elections tonight.

To the pledges, good job on finding those things and on making the Big Brother plaques. Also congrats to Doug Martin for being the first to pass in his pledge book.

Phi Sig Sig, out of curiosity, we were wondering if you were having fun with your new microscopes finding small and surprising things of your own.

### Zeta Psi

Congratulations to all are new house officers:

President - Joseph DeVito  
Vice President - Dennis R. Whaley  
Treasurer - John Zuena  
Corresponding Secretary - William Supernor  
Acting Secretary - Dennis R. Whaley  
Acting Historian - Dennis R. Whaley  
Sergeant at Arms - Michael Bush

Congratulations also to all are seniors on passing their comps (especially Boje). Welcome back Steve! Stay Zeta psyched pledges! Look out Toronto here we come!!!!

## Jazz Comes to Worcester

by Joshua Smith  
Newspeak staff

February in Massachusetts is typically very cold, but from Thursday the sixth until Tuesday the tenth, Worcester is going to be very hot. Jazz Worcester, the annual celebration of jazz cooperative supported by local musicians, jazz aficionados, colleges, cultural organizations, and businesses, starts next week with an avant-garde improvisational performance by The Ribs Quartet. The festival will run all weekend, featuring names like the Phil Wilson Sextet, Tiger's Baku, and BLT (The Brubeck-LaVerne Trio with special guest, Jerry Bergonzi).

The Ribs Quartet will be performing at 8:00 p.m. in the Worcester State College Student Center Blue Lounge. There will be a short lecture on the art of avant-garde improvisational, followed by an improvisation to the silent film, "Metropolis." The Ribs Quartet has been accompanying silent films all over New England for quite some time, and is starting to become very popular.

Friday the seventh will bring with it two exciting performances: at 4:00 p.m. the WPI

Stage Band and the Worcester State College Jazz Ensemble will play in a College Jazz Band Showcase at the Worcester Center Galleria; and at 8:00 p.m. the Phil Wilson Sextet featuring Phil Wilson, Scotty Robinson, and Rebecca Parris, will perform at Assumption College in the Campus Center Hall.

There will be another College Jazz Band Showcase Saturday at 4:00 p.m., again at the Worcester Center Galleria; this showcase will feature the WPI Jazz Ensemble and the Assumption College Jazz Ensemble. The Medium Rare Big Band, directed by Gary Valente, had been scheduled to play Saturday night, but that performance had to be cancelled.

For those of you who like Jazz-Rock Fusion, there will be an exciting performance by Tiger's Baku (featuring Tiger Okoshi) 3:00 Sunday afternoon at the Holy Cross Hogan Campus Center Ballroom. At 7:00 Sunday evening, there will be an exciting "Jazz Mass" at Assumption College's Chapel of the Holy Spirit. The Mass will feature the WPI Jazz

(continued on page 16)



The Brubeck/LaVerne Trio (B.L.T.), who will perform in concert next Monday at 8:00 in Alden Hall. (Left to right: Andy LaVerne, Chris Brubeck, Daniel Brubeck). The group will also present an improvisation workshop Monday afternoon at 3:00. Their concert, which will also feature special guest Jerry Bergonzi (formerly of the Dave Brubeck Quartet), will be the last in this year's Jazz Worcester festival, a five-day celebration of jazz in concerts, films and workshops.

## IQP PRESENTATIONS

All students are invited to two important student presentations of IQPs.

Tuesday, February 11  
PRESIDENT'S IQP AWARDS COMPETITION  
Higgins House, 2:00-4:30 p.m.

Wednesday, February 12  
WPI SCIENCE - TECHNOLOGY -  
SOCIETY CONFERENCE

AK 219, 2:00-4:00 p.m.  
Reception afterwards

ALL STUDENTS PLANNING TO DO AN IQP IN 1986-87  
SHOULD ATTEND THESE PRESENTATIONS OF  
ON-GOING AREAS OF INTEREST IN IQP ADVISING.



## And Then There's Mt. Washington Outing Club Climbs to the Top

by David Toupin

There are hundreds of mountains which proudly rise above this country of ours but none quite like Mt. Washington. It is the highest peak east of the Mississippi and north of the Carolinas. It is also a very popular mountain to climb because one can get to the top by car, railway, or hiking up trails ranging from easy to difficult. Unfortunately, Mt. Washington can also boast of some of the worst winter weather in the world (including Alaska and Antarctica) due to the freezing temperatures and incredible winds. Because it is so popular and the weather so harsh and unpredictable, Mt. Washington has one of the highest death rates of any mountain in north America. It was to this mountain that the WPI Outing Club voyaged to the first week-end of the term.

The Club drove up to the White Mountains Friday afternoon and started right off by hiking to the base camp part-way up the mountain. It was a gorgeous crystal-clear night with the full moon shining brighter than a row of street lamps. The hikers pulled into camp around midnight and quickly fell asleep after putting almost all their gear into the sleeping bags with them to keep warm.

They awoke the next morning to rapidly closing clouds and a cold wind. They "suited-up" in layers and layers of warm clothes and took off to assault the mountain. Surprisingly enough, there were quite a few people out with the same intentions and the Outing Club found itself surrounded by 30-40 hikers all climbing the mountain. Fortunately, the weather was relatively "mild" (a wind

chill of only -45 degrees F) and over half of the Club managed to get through the winds and light snow to the top. The other members stopped at one point or another on the way with one person electing to climb up a frozen river using a pair of crampons and ice axes. Peaking the mountain gave one a thrilling sense of accomplishment and the hike back to the base was full of singing and sliding down the mountain, often times unintentionally.

This robust mood was quickly shattered on the trip home as the van broke and left the hikers stranded in West Ossipee, NH. It was Saturday night and the Club found itself stuck at a Mobil gas station/grocerette. After a few calls back and forth to WPI, it was determined that there were no available vans to bring them home and that they would have to spend the night somewhere in West Ossipee. Fortunately, there was a motel nearby (Wind Song Motor Inn in case you're ever in the area) and they opted to stay there instead of sleeping out in the rain with no tents.

The following morning was again full of calls back and forth to the campus until there was finally a van and a driver who would come and bring them home in time to see the Super Bowl. The Club put itself to some use pushing cars out of frozen driveways and memorizing all of the articles sold at the little grocery store until salvation arrived in the form of a warm, fully functional WPI van. For the hikers who went on the trip, relief is spelled G-r-r-g J-o-h-n-s-o-n.

## MGIE Majors Receive Scholarships

Two juniors at Worcester Polytechnic Institute have received scholarships from the Worcester chapter of the American Institute of Industrial Engineers (AIIE). The awards were presented at a recent meeting of the chapter.

Receiving \$250 scholarships were Diane L. Fiorillo of Worcester and Timothy J. Noble of Hughsonville, New York. Both are management engineering majors.

The scholarships recognize academic achievement and involvement in the WPI Management Society, which serves as a link between WPI student, faculty in the Management Department and prospective employers.

## ... Spirit

(continued from page 1)

children at UMMC by Tau Beta Pi. Tau Beta Pi also helps local Boy Scouts learn and earn their merit badges.

Another service to Worcester kids was the running of a Haunted House. One fraternity, Alpha Chi Rho, helped out the Worcester J.C.'s with their annual Haunted House which, besides being a community service, raises money for Worcester needy. Two WPI clubs, Alpha Phi Omega (a service fraternity) and the WPI Pep Band ran their own haunted house on campus.

On more of an academic theme services to Worcester include the consortium shuttle by Lambda Chi Alpha and the Worcester Public Libraries annual used book sale run by Alpha Tau Omega. Closer to the WPI campus, community philanthropic activities included the Great American Smoke-out (run on campus by Sigma Alpha Epsilon) and the Theta Chi alcohol awareness program. Theta Chi also keeps a security watch on the streets surrounding their chapter house and held a Thanksgiving dinner for their neighbors this year.

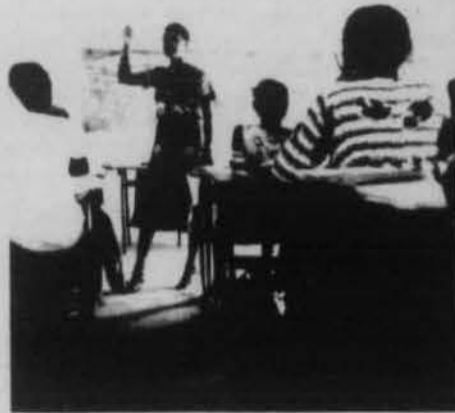
The sororities teamed up for a successful NPC blood drive. The Greek system also, raised money, as they do every year, for the United Way - This year's Intra Fraternity Council auction was bigger than ever.

Fund raisers for national/international charities included the Sigma Pi Miracle Mile (\$7500 for muscular Dystrophy), a bed race (Sigma Alpha Epsilon), and a bowlathon (Phi Sigma Sigma) and raised over \$11,000 for popular needs like Multiple Sclerosis, Muscular Dystrophy Association, National Kidney Foundation and the statute of liberty's restoration. Whether you call it service projects, philanthropy, or community involvement activities, the efforts of these WPI students is something we can all feel good about.

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## SocComm Previews

by Andy Ferreira  
Newspeak staff

Tonight in the Goat's Head, SocComm, in conjunction with Lou Stevens presents a Comedy Coffeehouse. We will be highlighting some of the best comedy stars in the area starting at 8:30 pm. The show will continue till 11:00 pm. Its free and in the pub, tonight, so blow off that nasty EE problem set and take a well deserved break.

This Saturday, February 8th, the Battle of the Bands continues. The competition should be fierce as combatants compete for top honors. The bash starts at 7:00 pm in Alden Hall and costs only one dollar. D.J. Spike Henderson will be there also, providing you with music and videos. Please note that this

event was originally planned for Friday, February 7th, but is going on a day later, Saturday February 8th.

Sunday night Alden Hall becomes more sedate for the weekly edition of The Reel Thing. This week's feature presentation is "The Song Remains the Same". Admission is, as usual, one dollar and shows are at 6:30 and 9:30 in Alden Hall.

Keep in mind that Monday afternoon SocComm will be having a special open meeting in the lower Wedge at 4:00 pm for any interested people. We encourage you to come by as all are welcome and encouraged. Look elsewhere in this paper for more details on that.



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# SPORTS



Photo by Jeff Winick.

Sophomore forward Ken Willis (#12) gets some action as he lays one up for two.



Photo by Joñ Waples.

Center John Loonie (334) wards off a Coast Guard defender as he makes a power move toward the basket.

## Engineers Drop Coast Guard to End Losing Streak

by Peter Yap  
Sports Editor

WPI ended the week on a winning note and terminating a three game losing streak. After playing Thomas, Kings Point, and Trinity in a losing effort, the Engineers ran past Coast Guard in a convincing victory.

The Engineers encountered a strong Kings Point team, that limited WPI to only twenty first half points while scoring their forty-two points. The Engineers didn't get much closer in the 79-59 losing effort, Mike Sykes led WPI with nine points and nine rebounds. WPI's next opponent was a 9-4 Trinity team. Although Trinity shot a good 57% from the floor, WPI only trailed 33-29 at the half. Trinity kept up their high shooting, as they poured in 44 second-half points enroute to a 77-70 victory. After the off-night against King's Point, Bill McCullen was back on track with his 25 points. John Loonie also scored 24 points, hitting on 11 of his 13 shots in the Engineers' third straight losing effort.

The Engineers, amidst a losing streak, ran through Coast Guard to bring the streak to a halt. The solid first half action was highlighted by the play of McCullen (10 points), Loonie (ten points - nine rebounds), and thunderous blocked shots by Chris Whitney. But the first half action of

Mike Sykes stood out with good all-around. Starting in his first game, Sykes contributed 8 first half points and three block shots to bring WPI to a 35-32 half time lead.

The Engineers opened the second half by playing a strong inside game. With many of their shots within the three-second lane, WPI shooters were fouled and given three-point opportunities. The Engineers opened a 55-40 lead midway through the second half as they began to take total control. Coast Guard's frustrating night could be seen as two Coast Guard players pursued the ball, that resulted in WPI's Ken Willis in possession of the ball. As the Engineers used their inside game effectively, McCullen began to launch his bombs from the outside and led his team to a commanding 67-44 lead with 6:35 of garbage time. The Engineers high scorers were by McCullen with 17 points and Loonie with 15 points enroute to 75-59 victory.

Notables: Men's JV Basketball led Coast Guard JV 29-23 at the half and won 63-61 in a last minute victory . . . A moment of silence was observed prior to the Coast Guard game for the Seven Astronauts . . . WPI Cheerleaders kept the crowd well entertained during the half and timeouts . . . (7-7) Engineers will encounter Williams on February 5 at 8:00 at Williams.

## WPI Women's Basketball Raises Record

The WPI Woman's basketball team raised its record to 9-5 last week with a close 63 to 61 victory over Wheaton on Tuesday, January 28 and a trouncing 62-45 defeat of Nichols on the 30th. The Engineers were led in both games by senior guard Kim Fay, who exceeded her 18 point per game average in both performances, with 22 points against Wheaton and 21 against Nichols. She also contributed eight of WPI's 14 assists and three of the four steals in the Nichols game. Fay's abilities have earned her a place on the All-American watch list, which means she has a chance of being named to the NCAA

division III All-American team.

Other excellent performances against Nichols were turned in by Cindy Perkins and Mara Catlin, who each earned 11 points; Donna Leonard, who had five baskets; and Kathy O'Neil, who contributed four assists.

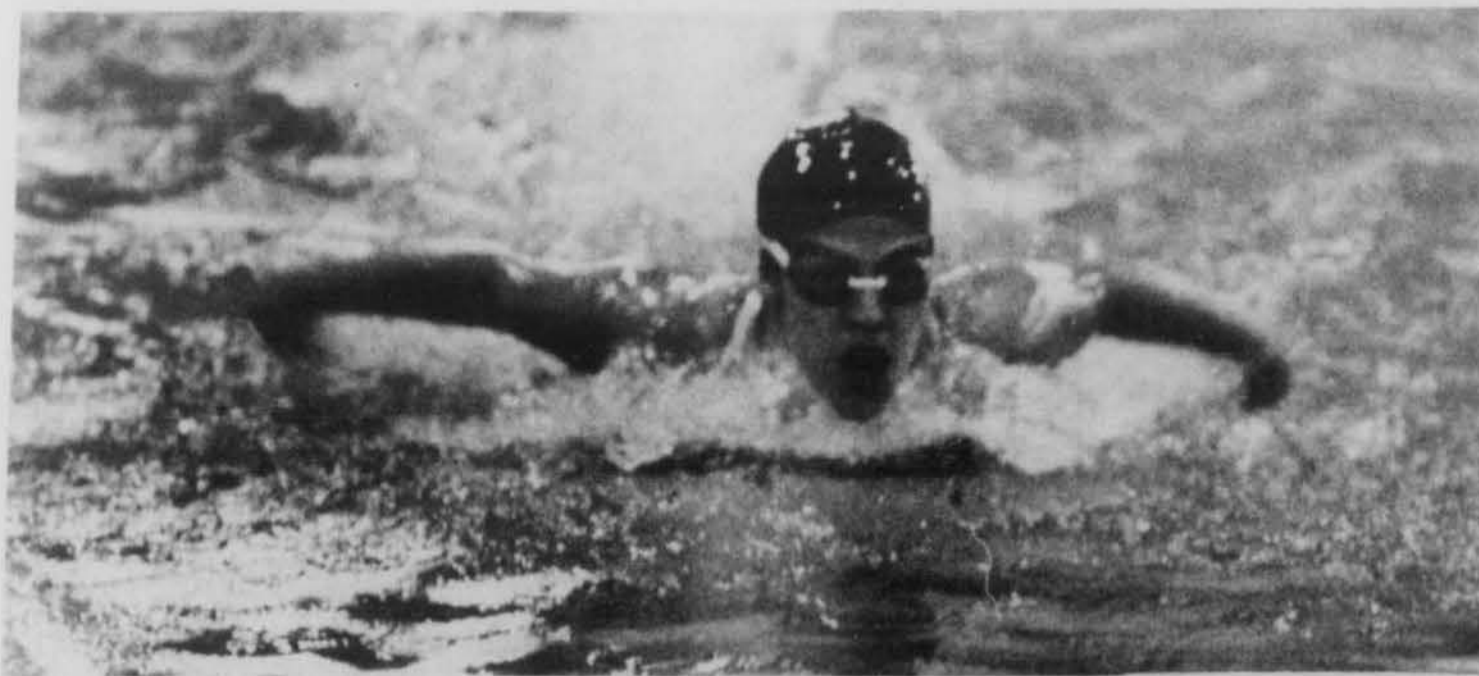
Coach Naomi Graves is pleased with the team's current playing, and hopes the Engineers can continue to perform well. The team has a chance of post-season play if the rest of the season is successful.

The Engineer's next home game is Friday, February 7 at 7:00 p.m. against Manhattanville.



Kim Fay dribbles past a feeble defender.





Cathy Cushing glides to victory in the 160m IM.

## Swim Teams End Week at 2-2

The WPI Men's Swim Team finished last week with a record of 4-3 by dropping a meet against the cadets at the Coast Guard Academy, and an easy win over the men from UMASS Boston. The week brought many injured swimmers back to the lineup and gave the Engineers a chance to vary the lineup in an attempt to examine the depth of the squad.

On Saturday, January 25, the Engineers headed for New London, CT and the U.S. Coast Guard Academy. The Cadets were strong opponents, virtually blanking many of the WPI swimmers. Point scorers included Mike Hartnett, second in the 1000 Free, Co-capt. Bruce MacWilliams, third in the 200 Free, Jim Popp, third in the 50 Free and second in the 100 Free, and Tom Maneval finished third in the 200 IM and second in the 200 Back. Other scorers included Co-capt. Andy Gagnon, Mike Cox, Mike Brzezowski, Jason Koskey and Tracey Knapp. Because the meet was held in an official pool, the WPI Diving Team was given a rare opportunity to compete. MacNicol finished third and first in the one- and three-meter diving events respectively. Hecker placed second in the three-meter event.

The Men's team was much more successful on the following Wednesday night here at WPI. Before a small crowd of supporters, the Engineers defeated UMASS Boston. WPI Coach Whit Griffith produced a lineup that would allow the WPI team to take a quick lead and then provide an opportunity for some of the low point scorers to compete for places. Event winners for the Engineers were Brzezowski (1000 Free), Gagnon (200 Free), Knapp (60 Free), Cox (unofficial - 160 IM), Maneval (200 Back) and Hartnett (500 Free - unofficial).

Looking ahead, the Engineers will face the team from Southeastern Mass. Univ. on Saturday, February 1, and then Trinity College Thursday night here at WPI at 7:00 p.m. Similar to the Men's team, the WPI Women's team ended last week by defeating the women from UMASS Boston after losing to Southern Connecticut State. Against Southern, WPI standouts were Erin Ryan, Wendy Calway, Co-capt. Erin Carroll, Kathy Cushing, Jeanette Cheetham and Jayne Turcotte. The WPI Women lost to Southern, a team known to run the score, 84-35.

With a program Coach Griffith has built over the course of only two seasons, the Women's team, according to Griffith, is expected to improve as the number of women interested in competitive swimming grows on campus. The strength of the current program was shown in the ease with which WPI defeated UMASS Boston. Event winners for the Engineers were Ryan (1000 Free), Carool (200 Free), Michelle Campbell (50 Free), and Kathy Cushing (500 Free). Placing second for the WPI cause were Turcotte (200), Co-capt. Shirley Veranis (160 IM), Cheetham (100 Fly), Campbell (100 Free), Kim Marquis (100 Back) and Calway (100 Breaststroke).

For the women, next week will provide competition against Southeastern Mass. and Regis, here Tuesday, February 4.

## Football Captains Announced

WPI head football coach Bob Weiss has announced the 1986 Engineer football team captains. For the first time in Weiss' tenure as coach at WPI, there will be four captains. The offensive unit will be led by Steve Nolan and Rick Farland, while the defense will be led by Dave Bernier and Larry Lebel.

Steve Nolan, a split end and punter, has started since his freshmen year. The senior M.E. major averaged 38.9 yards/punt last season. Also leading the offense will be quarterback Rick Farland. Farland, who started every game last season after spending his first three years on the team as a backup, was the second-leading rusher on the Engineers.

Leading the defense will be linebacker Larry Lebel. The MGE major is a two-year letterman and was named to the Worcester Telegram and Gazette All-Star Football Team. Dave Bernier is a two-year starter at defensive end. The Nuclear Engineering major is recognized for his pass rushing abilities.

"I think we don't have as many uncertainties at this time as we did last year at this time," Weiss commenting on the prospects for 1986. "I feel strongly that if everybody works hard between now and August, we will be every bit as competitive as we were last year and perhaps more successful [in terms of wins and losses]." The Engineers finished 4-4 in 1985.

Photo by Jeff Winick.



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# SPORTS

## 1985-86 Intramural Basketball

### Division I

A	W L	B	W L
Air 86	4-0	Fiji (A)	5-0
Morgan3	5-2	SP (A)	3-0
Fiji (B)	3-2	Apes (A)	4-2
Theta Chi (A)	4-3	LCA (A)	3-2
ATO (A)	4-3	PSK	3-3
Gam (A)	3-3	ATO (B)	2-4
Outs	4-4	WWW	2-4
Kap (B)	2-4	Kap (A)	1-3
SAE (A)	1-6	Crew (A)	1-6
AXP (A)	0-4		

### Division II

A	W L	B	W L T
Worms	2-0	Oldmill	5-0
Apes (B)	4-1	Found3	3-0-1
Found5	4-2	RA's	4-1
Ells 7	3-2	Riley2	1-3
Eagles	3-4	Ells12	1-3
LCA (M)	1-2	ATO (C)	1-3-1
Stod (A)	1-4	Plumbers	1-4
SAE (B)	0-4	AXP (B)	1-4

C	W L	D	W L
CT's	3-0	Dan3	4-0
BL	3-0	Apes (C)	1-0
Stod (C)	2-1	Crew (B)	3-2
Krunch	1-1	BC	1-1
Fun	2-3	Found4	1-2
DD	1-2	LLA	0-1
Found2	1-4	Sp (D)	0-1
Dan4	0-3	DPE	0-3

E	W L
Outs (B)	2-0
Aji	4-1
TC (B)	2-1
LCA (B)	2-1
ZP	2-3
M4	2-3
Zores	0-5

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Photo by Jeff Winick.

After stealing the ball, Chris Brunone (#4) is clearly fouled by a frustrated Anna Maria opponent.

## WPI Fencing Club

The WPI Fencing Club beat the Bates Fencing Club 12-9 on Saturday, January 25 at Bates College in Lewiston, Maine. The teams won 6-4 in foil, 1-1 in EPEE, and 5-4 in Sabre. Undefeated at the match were Abraham Arnstein (foil, 5-0), Brian Freeman

(EPEE, 1-0) and Pete Nordquist (sabre, 3-0). The Club's record is 2-2 after losing to Brandeis and Vassar in B-term. The next matches are Saturday, February 1 at SMU and Wednesday, February 5 at the Higgins Armory against Holy Cross.

# HERE'S A COLLEGE SCHOLARSHIP ANY PARENT CAN QUALIFY FOR.

The reason many kids don't qualify for college scholarships isn't that their grades are too low.

It's that their parents' income is considered too high.

Army ROTC feels students should compete for scholarships. Not their parents.

So, if your son or daughter applies for an ROTC scholarship, we'll base our decision solely on his or her qualifications. Not on your financial standing.

And the ROTC scholarship program is one of the best in the



country. No wonder our scholarships are accepted at over 300 colleges

and universities.

Each one covers full tuition, books, lab fees, and other purely academic expenses. It also pays financial assistance—up to \$1,000 each school year it's in effect.

Why not find out more about the college scholarship your son or daughter can earn—regardless of how much you earn?

Write: Army ROTC, Box 9000, Dept. OC, Clifton, N.J. 07015.

**ARMY ROTC.**  
**BE ALL YOU CAN BE.**

CONTACT: CAPTAIN JAKE JACOBSON at Room 28A, Harrington Auditorium, Worcester Polytechnic Institute, Phone: 793-5466 or 752-7209



# DANIELS 5<sup>th</sup>



## Campus Capsules

### Raytheon Provides Funds for New Physics Laboratory Equipment

With a donation of more than \$12,000 from the Raytheon Company, the Physics Department at Worcester Polytechnic Institute has purchased a versatile laboratory instrument which should find many uses in

research, student projects, and classroom demonstrations, according to Dr. Stephen N. Jasperson, head of the Physics Department.

The equipment is known as a digital waveform analyzer. In part, it is a digital version of an oscilloscope, Jasperson said.

Like an oscilloscope, the digital analyzer

enables one to see waveforms associated with many wave phenomenon, such as sound and the variety of electronic signals produced and studied in the laboratory.

Unlike an oscilloscope, however, the digital waveform analyzer additionally converts waves into a sequence of numbers

which can be collected and manipulated mathematically by a built-in computer. Permanent records of the digitized and processed data can then be stored on computer diskettes.

Among the tasks the analyzer can perform, Jasperson said, are the precise determination of how a wave changes with time, the display and analysis of the harmonic content of sound, for example, music or human speech, and the extraction of a wave from a noisy background through a process called signal averaging. Jasperson said the analyzer can perform these and many other functions at the touch of a button, which will make the unit ideal for classroom demonstrations.

"Digital signal processing technology is, in many cases, superseding the analog technology of equipment such as the oscilloscope," Jasperson noted. "We are delighted to be enhancing our instructional and measurement capabilities with the acquisition of this modern, versatile instrument."

The donation of the analyzer was coordinated by the Raytheon/WPI College Relations Team, a group of WPI alumni employed by Raytheon. The team has helped to secure several other donations to the college in the past few years.

## OUR SCHOLARSHIP HELPS YOU BEGIN YOUR CAREER AS A LEADING ENGINEER.

An engineering degree will take you far in today's high-tech Army. And with an Army ROTC scholarship, earning that degree can be both less expensive and more valuable.

The scholarship not only pays your entire tuition, regardless of the amount, but also required fees, an amount for books and supplies, and up to \$1,000 each school year for living expenses.

It's an excellent scholarship. And it gets you a lot more than an engineering degree. Along with your regular courses, you'll take Army ROTC classes and learn about motivating people, analyzing situations, making confident, informed decisions, and reaching defined goals. In short,

you'll learn leadership and management skills that can't help but enhance your opportunities in the future.

And you'll put your skills to work right away, because you're commissioned in the Army as a second lieutenant when you graduate.

If you'd like an education in leadership and management to go along with your engineering degree, find out more about Army ROTC. Contact your Professor of Military Science.

### ARMY ROTC. BE ALL YOU CAN BE.



CONTACT: CAPTAIN JAKE JACOBSON at Room 28A, Harrington Auditorium, Worcester Polytechnic Institute, PHONE: 793-5466 or 752-7209

### Need Help Writing?

The WPI Writing Resources Center in the lower level of the Project Center will again offer two non-credit mini-courses in solving practical writing problems. These mini-courses are open to all members of the WPI community. The courses are:

Grammar and Structure  
February 10, 12, 14, 17, 19, 21

Review of Punctuation  
February 24, 25, 26; March 3, 4

These courses are free! Sign up in the Writing Resources Center.

### Special Colloquium Series ARTIFICIAL INTELLIGENCE AND ITS APPLICATIONS

"The Knowledge Network"

Frank Lynch

Group Engineering Manager  
Artificial Intelligence Technology Center  
Digital Equipment Corporation

Friday 7, February 1986, 11:00 a.m., AK233

The purpose of this talk is to describe a strategy for applying AI to manufacturing problems above the work cell level. It also

(continued on page 16)

### HAIRCUTS

Student Discount with I.D.

\$1.00

Genesis by Michael

326 Shrewsbury St.

Worcester, MA

By appointment or Walk-ins

MENS \$6.00



## First Gramm-Rudman Cuts Will Shrink Aid By Four Percent

WASHINGTON, D.C. (CPS) — Student aid programs will shrink by about 4.3 percent as of March 1, figures released by the Office of Management and Budget last week indicate.

The cuts are the first mandated by the new Gramm-Rudman formula to balance the federal budget.

And while educators say black, Hispanic and middle-income students will bear the brunt of the new cuts, they now think the Gramm-Rudman law — named for co-sponsoring senators Philip Gramm (R-Tex.) and Warren Rudman (R-N.H.) — will have a severe impact on students when the next round of cuts it requires take effect in October.

In the following years, reductions may have to be four to five times as large as this year's in order to balance the budget by 1991.

Even now, educators think current cuts will hurt certain classes of students while convincing some banks to give up making Guaranteed Student Loans (GSLs).

"This will certainly accelerate the trend of declining black and Hispanic participation in ostsecondary education," contends Arnold Mitchem, director of the national Council of Educational Opportunity Associations.

As much as 80 to 90 percent of the students in black colleges receive some federal aid, Mitchem says.

"It's another straw on the camel's back, but how many straws can the camel take?" wonders Winston Brown, dean of financial aid at Xavier University, a primarily black school in New Orleans.

"We have seen a significant drop in minorities applying," Princeton financial aid officer Linda Ensor reports.

Ensor speculates, however, that middle-income students ultimately will suffer the most.

"If there are fewer and fewer dollars, the pressure will be greater to be more careful in needs analysis," adds Tom Wolanin, an aid to Rep. Bill Ford (D-Mi.).

Moreover, limited funds will force Pell Grants into a "statutory reduction" in which students with less need will get smaller amounts of aid.

But lower-income students may have a harder time getting Guaranteed Student Loans as Gramm-Rudman's cuts continue, says Bill Clohan, a lobbyist for the Consumer Bankers Association.

Gramm-Rudman will cut the "allowance" that banks get when they make GSLs from 3.5 percent interest to 3.1 percent.

The initial allowance cut, which applies only to the first year of a loan, "will have a minimal impact," Clohan says, but cutting the allowance further, as some legislators want, will rovoke banks to make sure students are good credit risks on their own.

In banks' view, of course, students from middle- and upper-income families are better credit risks than students from low-income backgrounds.

"Making (loans) more restrictive will make loans available only to the white middle class," he adds.

When the allowance on loans to students was cut back in 1973, "the program crashed" because bankers refused to continue lending due to the squeeze on their profit margin, Clohan remembers.

As for the next few years, "it's a very tenuous program," he adds.

The cuts would hurt all the more because Pell Grants, unable to keep up with inflation, forced low-income students in recent years to borrow more under the GSL program, observers say.

Others expect the current cuts will hurt private schools with high tuitions the most.

They could force still other schools to eat into their endowments to get money to help students who used to depend more on federal aid in school.

On the other hand, some community colleges think the cuts might actually help them.

"Students at other schools may come to us," speculated Erling Hjortedal, director of financial aid at Spokane Falls Community College.

"With us, their grant money will go further," noted Myer Titus, president of Denver Community College.



Education is a basis for informed, rational attitudes and personal choices. Thus, a topic of international concern—AIDS (Acquired Immune Deficiency Syndrome)—will be the focus as...

Clark University  
and  
Worcester Polytechnic Institute  
present:

# AIDS

Medical,  
Legal,  
and  
Social  
Perspectives

Monday, February 10  
7:30 - 9:30 pm  
Clark University  
Academic Center  
Room 320

**Medical Perspective:**

**RICHARD H. GLEW, M.D.**

is chief of infectious diseases at The Memorial Hospital, Worcester and professor of Medicine and microbiology at University of Massachusetts Medical Center.

**Legal Perspective:**

**KEVIN CATHCART, ESQ.**

is executive director of Gay and Lesbian Advocates and Defenders in Boston, is active in the gay rights movement, and has served on the board of directors of *Gay Community News*, a national paper published in Boston.

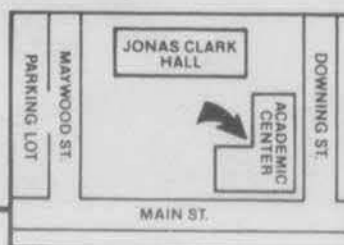
**Social and Personal Perspective:**

**THOMAS A. SHANNON, Ph.D.**

is professor of social ethics at Worcester Polytechnic Institute and visiting associate professor of medical ethics at University of Massachusetts Medical Center. He also will act as moderator for the panel.

**A discussion and question-and-answer period will follow the speakers' presentations.**

**Admission free to:**  
Students, faculty, administrators, and staff of Clark University, Worcester Polytechnic Institute, and all Worcester Consortium institutions.  
*Sponsored by Dean of Students Offices and Health Services of Clark University and Worcester Polytechnic Institute*



**Consortium Van Schedule**  
(in addition to the usual schedule)  
Leave WPI—6:45 pm  
Leave Assumption—6:50 pm  
Leave Worcester State—6:55 pm  
Leave Holy Cross—7:10 pm  
Arrive at Clark—7:15 pm  
Return trip will depart from Clark after the event.





# NEWSPEAK Create A Caption



Newspeak invites you to create a caption for this photograph. Send entries to Box 2700.

## Create A Caption Results



### Create A Caption

Last week's Create A Caption picture elicited many responses from the campus. The top three captions selected are:

1. **Synchronization: Your Key to Quality Cheerleading!**

—Michael Vidal

2. This photo, taken just before impact, shows 10 courageous WPI roof repairwomen after they fell through a gaping hole in Harrington Auditorium's roof. The roof, under severe stress caused by the combined weight of a half inch of snow, and the repairwomen, suddenly collapsed last Tuesday. Several of the repairwomen suffered pulled hamstrings, hernias and worse (especially the ones whose feet were apart). Miraculously, though, all survived.

—anonymous

3. Last week's tremor felt in the Worcester County area and registering a 7.1 on the Richter scale was found to be the result of this launch test.

—Brenda Hart, Maureen McCaffey, and Diana Waskevich

# It's not enough to be in the mainstream... You want to be ahead.

BBN Communications has been making waves in telecommunications technology since we pioneered the first packet-switched computer network, ARPANET, in 1969 — and set the course for the modern communications industry. Leading commercial and governmental customers like Wang, MasterCard, MCI, Michigan Bell and the Department of Defense count on our unmatched performance in network design, manufacture, installation and operation. We're committed to extending the capabilities of wide-area network technology. And our consistent success continues to generate excitement in today's intensely competitive communications world.

Careers start off fast and keep right on moving at BBN Communications. We offer the challenge of leading edge projects in a corporate climate that encourages you to realize your fullest potential. At our Cambridge facility you'll work with the best to develop a bold new generation of hardware, custom software, network design. Keep fit in our gym and enjoy the unique environment of one of America's most sophisticated cultural, scientific and educational communities too.

Current representative openings include:

- SOFTWARE SYSTEMS ENGINEERS
- SOFTWARE ENGINEERS
- REAL-TIME SYSTEMS ENGINEERS
- APPLICATIONS SOFTWARE ENGINEERS
- HARDWARE DESIGN ENGINEERS
- ELECTRONIC PACKAGING ENGINEERS

For more information about your future at BBN Communications, visit your Career Planning and Placement Office and arrange an interview with our recruiter on the date below. If you prefer, send your resume to: Bill Ehmann, BBN Communications Corporation, Dept. WPI 204, 70 Fawcett Street, Cambridge, MA 02238. An Equal Opportunity Employer M/F/V/H.



## BBN Communications Corporation

A Subsidiary of Bolt Beranek and Newman

WE WILL BE ON CAMPUS FEBRUARY 20.





and there's



1986 is  
**Classic**  
 Orientation



## Summer Orientation Leader Positions for Orientation 1986

### Informational Meetings

Tuesday, February 4 4:00 p.m.  
 Thursday, February 6 7:00 p.m.

Higgins Lab 109  
 Higgins Lab 109

All Candidates for Orientation Leader Positions must attend one of the Informational Meetings.

### Qualifications:

Must be a member of the Class of 1987, 1988, 1989

Applicants must be full-time undergraduate students in good academic standing at WPI. Sophomores and Juniors must have completed at least 8/3 units of acceptable work in four successive terms.

Orientation leaders must attend a training program offered between terms C and D from Sunday, March 16 through Wednesday, March 19.

Orientation leaders must attend and successfully complete an intensive course in communication skills to be held on four Tuesdays or Wednesdays during D term.

Tuesdays—	April 1	6:30-9:00 PM	Wednesdays—	April 2	3:30-6:00 PM
	April 8			April 9	
	April 15			April 16	
	April 22			April 23	

Applicants must be able to participate in the Summer Orientation Program to be held June 14-15, June 17-18, and June 21-22, 1986 and the Fall Arrival Program on August 24-25, 1986.

### Remuneration:

Room and board will be provided to the orientation staff for all of the orientation periods (two overnights and 12 meals). Orientation leaders must live on campus in an assigned room during this time period. Additional remuneration will be provided to all student orientation leaders for participation in the June 17 and 18 orientation program. Room and board will also be provided during the training program.







## What's Happening

### Tuesday, February 4, 1986

7:00 p.m. — WPI Wrestling vs Coast Guard, Alumni Gym  
 7:00-8:30 p.m. — Student COounseling Center Seminar "Effective Job Interviewing" with United Technology recruiters, Kinnicutt Hall  
 7:30 p.m. — Cinematech Film Series presents "King of Hearts", Alden Hall  
 9:00 p.m. — Comedy Coffehouse, Goat's Head, \$1.00

### Wednesday, February

10:00 a.m.-4:00 p.m. — IFC Blood Drive, Alden Hall  
 3:00-5:00 p.m. — Student COounseling Center Seminar "Tips for Effective Studying" Part I. Note: Location changed to SL326.  
 7:30-9:30 p.m. — Colloquium series in Management presents, Dr. John Castellano of Suffolk University "Employment-at-Will: An Issue for the 80's" WB229  
 8:00 p.m. — WPI Men's Basketball vs Williams, Harrington Auditorium

### Thursday, February 6

10:00 a.m.-4:00 p.m. — IFC Blood Drive, Alden Hall  
 7:00 p.m. — WPI Men's Swimming vs Trinity, Alumni Pool

### Friday, February 7

11:00 a.m. — Computer Science Colloquium presents Frank Lynch, Manager, Advanced Systems and Tools Group, DEC. "Artificial Intelligence and its Application" AK233.  
 7:00 p.m. — WPI Women's Basketball vs Manhattanville, Harrington Auditorium  
 8:30 p.m. — Dance Daze, Alumni Gym, \$2.50

### Saturday, February 8

2:00 p.m. — WPI Men's Swimming vs Tufts, Alumni Pool  
 8:00 p.m. — Battle of the Bands II, Alden Hall, \$1.00

### Sunday, February 9

6:30 and 9:30 p.m. — The Reel Thing: The Song Remains the Same, Alden Hall, \$1.00

### Monday, February 10

8:00 p.m. — WPI Men's Basketball vs Newport, Harrington Auditorium  
 8:00 p.m. — Spectrum Fine Arts Series presents "BLT — Brubeck-LaVerne-Trio" Alden Hall

### Tuesday, February 11

7:30 p.m. — Cinematech Film Series presents "1984" Alden Hall

## ... Jazz

(continued from page 5)

Ensemble and a 35 voice choir from the Assumption College Music Department.

B.L.T., the Brubeck-LaVerne Trio, will help wrap up the festival Monday with an afternoon workshop and an evening performance. The 3:00 improvisation workshop will be held downstairs in Alden Hall, right here on the WPI Campus, and will be run by three trio members, Daniel Brubeck, Andy LaVerne, and Chris Brubeck. The 8:00 performance will be held in Alden Hall, and will feature Multi-reedist Jerry Bergonzi (formerly of the Dave Brubeck Jazz

Quartet).

All performances and workshops are open to the public and admission is free for all events. Rich Falco, Director of the WPI Stage Band and Jazz Ensemble and Executive Director of Jazz Worcester, is excited about this year's festival. Although the magnitude may not be as great as last year's, he anticipates top-notch quality throughout the event. As Gary Burton described last year's festival. "For this one week, Worcester has been the most happening place in jazz in the world!"

## Police Log

### Friday, January 24, 1986

2:29 a.m. — An officer reported that two students from a fraternity stopped him on Boynton Street regarding a motor vehicle passing by and throwing fireworks at the house. The Worcester Police reported having the suspect vehicle stopped with two male occupants. The occupants were arrested for illegal possession of fireworks.

### Saturday, January 26

11:11 p.m. — Officers were dispatched to a residence hall regarding a fire alarm that had been activated. The resident advisors noted that someone had lit two fire alarm sounding devices on fire on the second floor. This was the cause of the alarm being sounded. Upon investigation, officers were able to determine that one residence hall was responsible. The matter was referred to the Office of Residential Life.

11:50 p.m. — The Worcester Police Department called regarding a disturbance at a fraternity house. Officers went to the house and reported talking with the officers of the fraternity. The fraternity agreed to quiet down.

### Sunday, January 26

1:45 a.m. — The infirmary called to report a graduate student who was there with a cut by his lip. The student was jumped on Highland Street. The student did not want to make a complaint to the Worcester Police Department.

2:00 a.m. — A student reported that someone threw a snowball at a car on Dean Street and broke the window. The student was advised to report it to the Worcester Police.

### Tuesday, January 27

8:00 a.m. — Officers received a report of a bad accident involving the consortium van and a parked car in the parking lot.

### Wednesday, January 28

1:23 a.m. — A worker from Domino's Pizza entered the station to report that she was the victim of an unarmed robbery in Morgan Hall. Pizzas and other items were stolen from her by individuals who then ran down Institute Road. Officers investigated.



## Campus Capsules

### ... Artificial

(continued from page 11)

places into context many of DEC's existing AI systems, as well as some recently initiated projects. Rapid advances in information technology are causing fundamental changes in the way we do our "business." Various parts of the manufacturing organization are engaged in "reasoning" about "engineered products." The everyday problem-solving activity within the organization could be thought of as being undertaken by a network of experts knowledgeable about the products

and the physical and paperwork processes that constitute the business, i.e., the "Knowledge Network." The advent of practical AI approaches to problem-solving provides a powerful new set of tools for representing the things being reasoned about within the Knowledge Network and for modelling expert problem-solving. There is the opportunity to develop semi-automated aids for knowledge. This could lead to not just "computer Integrated Manufacturing" but to "Computer Integrated Business."

## WPI's First Annual BATTLE OF THE BANDS

- Alden Hall
- \$1 Admission
- Starting at 7:00 p.m.
- Saturday, February 8th

(Note date change from Friday to Saturday!)