

From left to right Steve Delfino, Shane McBride, Theresa Kist, Cynthia Gould, Seth Hillman, Denise Fortier, Jane Turcotte, and Dale Hofling displaying their new diplomas in the area of sand castle construction. On the table in front of them is displayed their final project. This was one of several exciting classes held during intersession. See page 8 for more details.



# WPI Newspeak

The student newspaper of Worcester Polytechnic Institute

Volume 15, Number 1

Tuesday, January 20, 1987



## Faculty/Student Panel to Discuss Carnegie Report

by Mark Osborne  
News and Features Editor

In response to a report issued by the Carnegie Foundation, WPI President Jon Strauss, in conjunction with Professors Demetry and Davis, has assembled a panel of WPI faculty and one student to discuss the issues raised in the report. The panel will meet Thursday, Jan. 22nd at 4:30 p.m. in Kinnicutt Hall. There will be an opportunity for members of the audience to participate in the discussion.

The report, entitled "College: The Undergraduate Experience in America," will be issued by the Carnegie Foundation for the Advancement of Teaching. It is the result of in-depth studies of 29 colleges and universities and separate studies of 5,000 faculty members, 5,000 students, and 1,000 college-bound high-school students. Contained in the report are recommendations as to how to improve the educational process. Several of these recommendations are similar to programs already in place at WPI, such as a society-technology interaction examination. Another report concern includes research emphasis as opposed to undergraduate teaching.

One key issue raised in the report was the ability of college students to speak and write well. "We urge that the reading and writing capability of all students be carefully assessed when they enroll. Those not well-prepared in written and spoken English should be

placed in an intensive, non-credit, remedial course that meets daily during the academic term."

On the subject of faculty research, the report said, "At every research university, teaching should be valued as highly as research, and good teaching should be an equally important criterion for tenure and promotion." . . . "Where large numbers of undergraduates are enrolled [in a college or university], priority should be given to teaching, not research."

Professors Paul Davis and James Demetry, who are coordinating the event, chose professors David Cyganski (EE), James Pavlik (CH), and John Zeugner (HU) to be panel representatives, along with Chrys Demetry ('88 EE).

These four panelists were asked to write a "brief position paper in advance of the panel discussion." Davis and Demetry, in a memo addressed to the panelists, asked that they "measure WPI's program against the standard set by Boyer's Carnegie Foundation Report and that you assess its preparation for the future against the same standard."

The memo suggested topics for all of the papers. These included specific sections of the summary of the Carnegie report. Copies of this summary are available in the Project Center.

Portions of this article were taken from *The Chronicle of Higher Education* Nov. 5, 1986.

## Pressure Mounts to Test Foreign-Born Teaching Assistants

SURBANA, ILL (CPS) — Illinois has become the fourth state in the union to require that foreign-born grad students who teach college classes pass tests proving they can speak English well.

Many campus officials — as well as Gov. James Thompson — opposed the new law, which goes into effect next term.

Many schools already require foreign-born teaching assistants (TAs) to pass language tests before they are allowed to teach. But now some state legislatures want to make such tests mandatory at public campuses, overriding the protests of administrators who

say in-house proficiency tests are sufficient.

So far, only four states — Florida, Ohio, Missouri and Illinois — have legislated teacher English proficiency tests. Other states are considering such laws or waiting for colleges to implement their own programs.

In Missouri, legislators grew tired of student complaints they couldn't understand classroom teachers. Saying schools were too slow in responding to the problem, they passed a law to require teacher testing at the universities of Missouri in Columbia and

(continued on page 5)

## Spring Grads' Job Hopes Dim Amid Merger Mania

by Susan Skorupa

(CPS) — Thanks to the merger mania that swept through corporate America in 1986, student job prospects for this spring seem dimmer than last spring's, two recent national surveys of company hiring plans indicate.

And grads this year are likely to be tested for drug use or even AIDS before getting a job.

Michigan State's annual survey, released in late December, found that big companies in particular have cut back their plans for hiring new college grads.

A Northwestern University study released at the same time predicts demand for 1987 grads will mirror 1986 hiring, but employers say they will screen applicants more closely than before, and starting salaries — while increasing an average of 2.1 percent — will lag behind inflation.

Both Michigan State and Northwestern observers blame the unprecedented wave of corporate mergers and acquisitions that reached record levels last year.

"Downsizing, consolidations, mergers and acquisitions have cost the country jobs in some of our biggest and best paying corporations," says Victor Lindquist, Northwestern's placement director and author of the annual Endicott-Lindquist Report.

About 56 percent of companies Lindquist surveyed said they'd intentionally reduced their managerial staffs during the last year through reorganization, hiring freezes, termination without severance or early retirement incentives.

Michigan State's annual survey of 700 businesses also found the biggest companies are the ones cutting back the most, reports MSU survey co-author Patrick Scheetz.

For example, companies with more than 10,000 employees said they'd hire 9.3 percent fewer new college grads this spring, Scheetz says. Firms with 5,000 to 10,000 employees will cut new grad hiring by 1.5 percent.

General Motors, for one, faced with falling profits, announced in late December it will halt college recruiting efforts altogether.

In response, area colleges are trying to bring smaller firms to campus to recruit. "We're expanding our job days to small and medium-sized companies," says Janis Chabica, director of Cooperative Education at the University of Michigan-Flint.

But, while hiring will increase among smaller companies — as much as 6.7 percent

in companies with 500 to 1,000 employees — overall hiring will slip 2.4 nationally, Scheetz says.

"This year, the demand will be in mid-sized and small companies," he explains. "Many larger organizations are merging and downsizing. If they can't make a product they need themselves, they're farming the job out to smaller companies. Hence the growth of smaller operations."

Better technology also is making it easier for companies to increase productivity without adding staff, Scheetz notes.

"There's an element of global competition now so companies are looking to do more with fewer employees."

Firms also are cutting hiring plans because they're unsure what 1987's economy will be like, Lindquist agrees.

"Only three percent (of the firms surveyed) expect a (business) downturn, but some employers are still cautious about 1987 because of concerns about the economy, the continuing exportation of American jobs, the deficits in foreign trade and our national debt."

Nevertheless, hotel and restaurant management, marketing and sales, education, electrical engineering, computer science, retail and accounting majors should get a lot of job offers, Scheetz says.

The surveys show overall demand has shifted from manufacturing to service jobs. Engineering opportunities are down nine percent and non-engineering opportunities are up five percent, Lindquist adds.

Students majoring in civil and mechanical engineering, home economics, agriculture, geology and advertising will probably have the hardest time getting jobs, the surveys suggest.

Top starting salaries will go to electrical, mechanical and chemical engineers, all breaking the \$29,000 per year mark.

But the flat demand and the large number of graduates mean higher salaries will go to students with the best grades and internship experience, Lindquist says.

Geographically, the southwestern states will offer the most opportunities, followed by the Northeast, the Southeast, north central, south central and northwest regions.

"Two years ago the south central area had one of the highest hiring rates in the country," Scheetz recalls. "Now it places fifth out of six, and you can probably blame the drop on the energy industry."



# EDITORIAL

## WPI: A SCHOOL IN TRANSITION

The Carnegie Foundation recently published a report discussing pertinent problems of today's colleges. Many of its conclusions are pertinent to WPI and changes that have been made to the Plan.

The transition of WPI from the original Plan to its present state has generated many responses, both positive and negative. The causes of this transition have been both external and internal. ABET has forced WPI to mandate distribution requirements in exchange for accreditation. The growing undergraduate population has put increased pressure on the faculty considering the Plan was originally designed for an undergraduate population of 1500 students.

The Carnegie Study lists "confusion over goals", "divided loyalties among faculty members (between research and undergraduates)", and "debate over how the outcome of a college education should be measured" as major problems with today's undergraduate institutions. The transition of WPI has caused many of these issues to be actual points of conflict here on our campus.

The administration has set up a panel for discussion of the Carnegie Study to be held this Thursday. I am glad to see that WPI is taking this study seriously. The changes to the plan have been met with opposition and explanation for their implementation. The panel discussion of the study should go beyond the confrontation of the Old Plan and the New Plan. It should look at WPI from the prospective that it is a school in transition, and attempt to shed some light on what are the important aspects of WPI and how to preserve them through change.

### 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**.

# LETTERS

## Letters to the Editor Views Applauded

As a recent WPI graduate and former Editor-in-Chief of **Newspeak**, I was very impressed with the editorial "Why Are We Here," in the December 16th issue of **Newspeak**. The author is to be applauded for writing such a pertinent, if idealistic, argument for living life the way you want to live it, instead of always trying to please others, or "doing it for the money." This is especially applicable to a school such as WPI, since the majority of the student body will graduate and take high-paying jobs right out of college. But the salary is not worth it if there is something else you would rather do. Of course, this is true of other majors also, but

the monetary rewards of engineering make it easier to forget the pursuit of self-satisfaction - a very dangerous trap indeed. Too many of us see the dollar figures before all else - a direct result of society's tendency to base a person's worth on how much money he makes. It is a vicious cycle, but one that is definitely escapable, and college is the last "easy" chance to escape. Career choice is one of the hardest and most important decisions of life; don't take it lightly and more importantly, don't make it for the wrong reasons.

Kirsten Storm '85

## WPI's Name Not Good For Much Longer

As I have just completed my last degree requirement and will leave as of January, I take this opportunity to voice some feelings about WPI.

When I was making the decision on which colleges to apply to for engineering, WPI really stood out in the crowd. The Plan (may it rest in peace) was everything I was looking for in a program:

- 1) Project required a demonstration of the ability to apply book knowledge to practical situations.
- 2) The AD/AC/NR grading system placed emphasis on learning for knowledge instead of the grade, and the failures early in your career did not haunt you for the rest of your college career.
- 3) The comp forced you to demonstrate your understanding of your chosen field on a professional-level problem prior to graduation.
- 4) Without distribution requirements, the 7-week terms would allow me to specialize as an undergraduate.

The only other school I applied to was the University of Connecticut because I am a Conn. resident. I did not apply to RPI or MIT because their programs were no different from U. Conn.'s, and a \$10,000/yr difference in tuition was not justified by the names.

Well WPI, the choice I made is obvious. I wouldn't do it again today though. AD/AC/NR has given way to A/B/C/NR with rumors of A/B/C/I/NR, and who knows what else. How about a GPA? Kiss the days of cooperation between students goodbye in that event. The days of the well-thought-out punt are over. If an incomplete grade is added, students will be forced to stick out courses for the NR at the expense of grades in other courses. Also, the comp is gone, distribution requirements are in, and it sounds like terms will go by the wayside as well. There go all but one of my reasons for attending WPI. What is left is a school similar to RPI, MIT, and yes, U. Conn. Save your money people! I'm happy to be leaving while WPI's name is still good. I'm not counting on it to last.

A few parting comments: The Chemical Engineering Dept. needs to stop priding itself on being the most difficult dept. to graduate from and instead concentrate on being the best. I know it can, but I'm glad I left it behind . . . Thanks to the co-op program. It was the best thing I could have done to advance my career . . . I can't say I'll miss WPI after graduation. I've been missing it since The Plan died.

Mark FitzGerald '87, BB

# COMMENTARY

## My View from the Fourth Estate A New Year

By Joshua Smith

This term is turning into a real winner. I flew into Worcester airport a couple days before registration, and I had to dig my car out from about three feet of snow. They told me there was long term parking available. What I got was long term burial. When I got home, I discovered that my roommate had left the dishes for me to clean - for three weeks. I went up to campus to check my mail, there was an overdraft notice from my bank (it seems that I had developed a new method of double-entry accounting, enter the deposit when you first get the check, and again when you deposit it). Since then I've gotten a parking ticket from the Worcester cops (unlike WPI tickets, you really have to pay city tickets).

At least my schedule worked out. I made it through two wait lists and an overload request. That's quite a feat. Of course, the classes I'm taking are going to kill me. I'm taking a math class - the last time I took math was D-term 1986. I don't remember how to do math. I'm taking a computer science class that was required for the last two computer science classes I took (I think there must be about ten people who are doing the same thing). That one's going to kill me with boredom.

I bought a textbook today. The first of eight I'll eventually have to get. I also bought a notebook. Every term I buy the same kind of notebook, the thick red WPI one with pockets and spiral bound paper. Not this

term, though. There weren't any. How can the bookstore do that? There should be a law. Speaking of the bookstore, how do they get away with charging those prices? I think they should charge by the pound. They could have scales like the ones in Landoli's.

"Give me a pound of chemistry, and a half pound of physics."

"Would you like that sliced?"

"Sure."

"We have a special today on biotechnology. An entire anatomy for only \$2.95 a pound."

"No thanks. Tell me, is your theology kosher? . . ."

Last term some guy from Florida decided to take his car on a ski trip in the middle of West Street, and he used my parked car for the finish line for the slalom. I filed a claim against his insurance company. They've been "investigating" for a month and a half. I think they're waiting for me to forget it happened. What's the statute of limitations on an auto insurance claim?

The gas company sent me a notice saying my gas was going to be turned off if I didn't pay my bill right away. The letter was post-marked December 23, 1986. I called the gas company and they said they processed my payment on December 19, 1986. Brilliance.

But hey, let's be optimistic. With a start like this, the term could only get better . . . or worse.

# Newspeak

(USPS 535-480)

The student newspaper of Worcester Polytechnic Institute  
Box 2700 WPI, Worcester, Massachusetts 01609  
Phone (617) 793-5464

	<b>editor-in-chief</b> Jim Webb	
<b>news/features editor</b> Chris Pater	<b>faculty advisor</b> Thomas Keil	<b>circulation manager</b> Tim Desantis
<b>photography editor</b> Chris Pater	<b>business/ advertising editor</b> Alan Brightman	<b>graphics editor</b> Stephen Nelson
<b>sports editor</b> Helen Webb	<b>editors-at-large</b> Jon Waples Jack Spadaro Jim Goodell Joe Sedor	<b>associate editors</b> Jeffrey S. Goldmeer

### STAFF

Lars Beattie	Andrew Ferreira	Rob Sims
Jody Bobbit	Noah Forden	Joshua Smith
Jim Calarese	Brian Freeman	Alan Spidle
K. Christodoulides	Steve Landry	Chris Sweet
Rob Day	Sean Luck	Brian Teague
Dave Derian	Sami Seyouri	Jean-Pierre Trevisani
	Michael Wroblecki	John Whyte

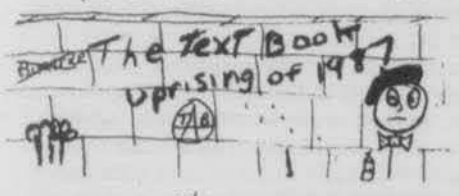
WPI **Newspeak** of Worcester Polytechnic Institute, formerly the **Tech News**, has been published weekly during the academic year, except during college vacations, since 1909. Letters to the editor must be signed and contain a telephone number for verification, WPI **Newspeak** subscribes to the Collegiate Press Service. Editorial and business offices are located in Room 01, Sanford Riley Hall at WPI. Copy deadline is noon on the Friday preceding publication. Typesetting done by Devlin Graphics, Inc. Printing done by Saltus Press. First class postage paid at Worcester, Massachusetts. Subscription rate is \$12.00 per school year, single copies 60 cents within the continental United States. Make all checks payable to WPI **Newspeak**.

# COMMENTARY

## Boo-bü the Stick Figure by Brian Freeman

A Story so far...  
 ... The streets of Paris and Moscow are quiet, In London and Brussels, Talk is in hushed whispers, But in central Massachusetts, The seeds of dissent are sown and the martyrs prepare themselves for...

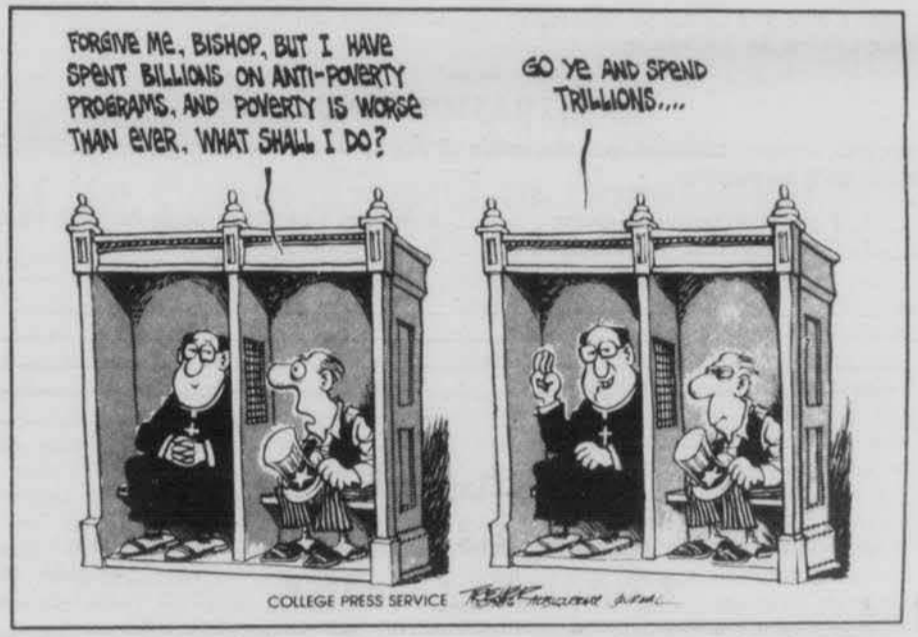
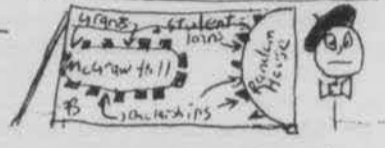
..Black & white - The color of the pages  
 Red - The color of the blood to be spilt  
 in the name of economical texts  
 - The fire that burns within the hearts of book-buyers  
 - Some management text no one buys



\$100 = 2 TEXTS  
 = 1/2 month's food  
 = 135+ gallons of gas

... The cries call out  
 "Down with the arrogant greed of profit-fat publishers!"  
 "Death to distributors that milk-up!"  
 "Long-live affordable education!"

The enemy too prepares.  
 Distributors neglecting discounts,  
 Publishers arming their  
 REPAGINATE keys, and  
 writers sitting by and watching  
 their works become greedily  
 overpriced. The fight will  
 be bitter and only the brave  
 will emerge without debt.



# Spring Activities Fair

## Wednesday

## January 21, 1987

## ALDEN HALL

## 11:00 — 8:00

### get involved in your student activities!



## Student Counseling Center Seminar Schedule C Term 1987

### 1. TIPS FOR EFFECTIVE STUDYING

- Designed to assist you in developing more effective study habits, reading skills, retention of information. Also, learn how to stop procrastination and budget your time effectively. Topics to be covered: Reading Effectiveness, Time Management, Concentration, Note-taking Skills, Test Taking, Listening Skills, Motivation, Study Conditions.

Tuesdays: 1/27 & 2/3, 6-8 p.m. (Attend both)

Student Counseling Center Seminar Room  
Leader: James E. Groccia

### 2. EXPLORING YOUR PERSONALITY

- This seminar will utilize the results of two psychological tests to help the participant gain greater insight into different facets of his/her personality, values and needs. The tests will be administered at the first meeting. Participants will receive the results and guidelines for interpretation at the second and third meetings.

Mondays: 1/26, 2/2 & 2/9, 6:30-8 p.m. (Attend all)

Student Counseling Center Seminar Room  
Leader: Harry M. Merryman

### 3. WEIGHT CONTROL THROUGH ATTITUDE CHANGE

- If you spend too much time thinking about food or would like to feel more in control of your eating, this group can help you become less preoccupied with food. This is not a traditional weight loss group nor an eating disorders group, but it will help the food-preoccupied individual build effective coping skills and attitudes. By building new attitudes toward food, a person easily can gravitate toward and maintain a normal, health weight.

Wednesdays, 1/28, 2/4, 2/11 & 2/18, 4:30-6 p.m. (Attend all)

Student Counseling Center Seminar Room  
Leader: Carol Theisen

### 4. TECH PLUS (TECH PEOPLE LIKE US)

- Tech PLUS is a developing organization for the WPI gay and lesbian community and friends. Its goals are to provide an educational, social, and informational forum for all interested students, faculty and staff. Individual privacy is respected. For more information call 793-5540.

## REGISTRATION FORM

Please check seminar choices, detach and return to: WPI Student Counseling Center, 157 West Street, as soon as possible.

\_\_\_\_\_ 1. Tips for Effective Studying \_\_\_\_\_ 3. Weight Control through Attitude Change  
\_\_\_\_\_ 2. Exploring Your Personality \_\_\_\_\_ 4. Tech PLUS

Name \_\_\_\_\_

Local Address \_\_\_\_\_

WPI Box # \_\_\_\_\_ Telephone # \_\_\_\_\_

## Psychspeak

### ... Some Thoughts from the Student Counseling Center

You have just graduated from WPI with an engineering degree. Absolutely *everything* you need to know to be happy and successful in life you have learned from your classes and projects here. Right?

WRONG, techie-breath! OK. I've overstated the case (with apologies to Johnny Carson, Ed McMahon and Bruce Weitz). But I wonder how many students go through school here only to find out that there is a lot in life for which courses and projects *don't* prepare them.

People tend to get caught up in their daily activities. For students, this means homework, lectures to attend, exams, project deadlines, etc. These activities, though important, can obscure the "big picture" of a human life.

This big picture is what some psychologists call the "holistic" view of life. This view sees people in terms of their needs for growth in many areas. For example, by the time people reach young adulthood, they need to have developed a sense of intellectual mastery and competence. Colleges and universities traditionally have focused on this growth need.

However, psychologists and educators now recognize that college students have needs for growth in many other areas as well. Some of these are: the need to develop and become comfortable with a sense of independence and autonomy; the need to find a life purpose and direction; the need to define personal values and integrity; and the need to establish intimate relationships.

These needs for growth can make themselves known in a number of ways. For example, many people feel acutely homesick during their first few weeks at college. In time this feeling usually goes away. This in-

dicates that the person has begun to establish independence and to feel comfortable in being apart from his or her family.

For another example, students often feel a conflict between what parents or other authorities have said they ought to do and what they feel they want to do or must do. The feeling of conflict may signal an inner need to affirm a set of one's own values as the basis of personal integrity.

The needs for growth and development are inevitable; they are built into human nature. When these needs are not attended to, a person can begin to feel unhappy and dissatisfied with life—often without knowing why. In addition, when growth needs are stifled in one area, growth in other areas may suffer. Even though a person possesses the need to develop and grow in the ways I've mentioned, there is no guarantee that he or she will do so. The potential for growth does not make growth inevitable. Fulfilling our growth needs—achieving comfortable independence, a life direction and purpose, a sense of personal integrity and values, and intimacy—depends on the conditions provided for such growth. Each of us must find the optimal conditions which nurture our growth potential.

One of the goals of the Student Counseling Center is to help people recognize and fulfill their needs for personal growth. This often means helping people discover and implement the unique and optimal conditions for growth in their lives. If you have questions or concerns which you would like to discuss with a professional counselor, call us at 793-5540 or drop by 157 West Street for an appointment. Our services are confidential and free.

## Plant Engineering Group Presents Scholarship to WPI

The Route 128 Chapter of the American Institute of Plant Engineers recently presented \$10,000 to initiate a scholarship in memory of deceased chapter members to be presented each year to a WPI undergraduate interested in entering the plant engineering field.

The "128 Chapter" has sponsored an annual scholarship at WPI for the past several years. The new scholarship grew out of the chapter's recognition of the contribution's of WPI's Plant Engineering Program to the

professional development of plant engineers in the Route 128 area, according to Robert J. Hall, director of the WPI program.

Instituted in 1976, WPI's Plant Engineering Program is designed for plant engineering practitioners at all levels. Participants are sponsored by their employers. The curriculum includes courses in communications skills, business law, energy conservation, codes and code enforcement, fire safety analysis and management accounting.

## WPI's New Municipal Studies Center Yields First Two Student Projects

(WPI News Service) Can Massachusetts communities learn a lesson from other states in coping with tax-cutting laws? Can cable TV lines replace electric meter readers?

Those were the questions answered by the first two student projects conducted through Worcester Polytechnic Institute's new Center for Municipal Studies.

Modeled after WPI's highly successful project center in Washington D.C., the municipal center allows students to conduct projects in conjunction with cities and towns in central and eastern Massachusetts and the Massachusetts Municipal Association (MMA), according to James S. Demetry, associate head of the Electrical Engineering Department at WPI and director of the Center.

"The Center gives undergraduates the chance to work as quasi-professionals at the first and most basic level of government," according to Demetry, who is also a member of the board of selectman in the nearby town of Holden, Massachusetts. "These projects can have real impact, because local government is where taxpayers have the best opportunity to influence the way in which their tax dollars are spent."

In the first of the Center's two inaugural studies, a team of three WPI students compared revenue raising methods used in Massachusetts with those employed by communities in 17 other similar states, including the other five New England states. The aim of the study, which was conducted for the Massachusetts Municipal Association, a non-profit organization which provides services to the state's municipalities, was to see if strategies used by other states faced with tax-cutting measure might serve as models for cities and towns strapped by Massachusetts' Proposition 2 1/2.

The study showed that the revenue raising approaches used by Massachusetts and its sister New England states are unlike those employed by communities in most of the other states in the study. In particular, because New England states employ a highly centralized system of government, municipalities here rely more heavily than most on state aid.

In addition, communities in New England raise a higher share of their revenues through property taxes, the study demonstrated. This is why Massachusetts' Proposition 2 1/2, which placed a cap on property tax rates, has had a serious impact on many communities.

Rather than rely almost exclusively on property taxes and state aid, most of the states surveyed for the study use local sales and options taxes to raise a significant share of the municipal revenues. In fact, communities in these states raise an average of 17 percent of their funds with such local taxes, while cities and towns in Massachusetts rely on them for less than 1 percent of their revenues.

However, while Massachusetts may be atypical in its approach to revenue raising, the student recommended few changes to the state's basic approach. In fact, they noted that the state aid/property tax formula tends to assure a fairly equitable distribution of municipal revenues, while the use of local taxes tends to give certain cities and towns an unfair advantage in raising funds. This is especially true of local sales taxes, which favor communities with shopping centers,

and options taxes on facilities, such as hotels or airports, that few communities host.

Instead, to make up for property tax revenue lost through Proposition 2 1/2, the study recommended that cities and towns more fully employ charges for such services as water, sewer and public transportation. Many communities are not raising all of the revenue they could with these fees, the students noted.

In addition, the study suggests, additional funds for state aid could be generated by a slight increase in the state sales tax. The state government could also lend a hand by approving a limited number of local taxes, such as those on alcohol and tobacco, that all communities could make use of.

These last two options, however, may have been stymied by the passage last month of Ballot Question 3, which set a cap on the state income tax. This measure also requires that any revenues a community raises with new local taxes be subtracted from its share of state aid.

The second project to come out of the municipal studies center looked at the feasibility and economy of reading electric meters through cable television lines. The study was conducted by three WPI undergraduates for the Shrewsbury, Massachusetts Electric Light Plant, a municipally owned electric company which also owns and operates Shrewsbury's cable television system.

In its first few years of operation, the costs associated with starting and operating the new system have put an unexpected drain on the system's revenues. The electric light plant commissioned the WPI study hoping to find a way of using the cable system to augment its revenues.

Because the Shrewsbury system has the capability to both send and receive signals to and from customers, and because the system has reached into a high percentage of the community's homes, the students decided to see whether the cable system could be used to replace at least some of the electric plant's meter reading manpower.

Electronic meter reading, they learned, is a relatively new idea that has, so far, been tried only in a few small-scale pilot programs. It involves installing equipment in the field that automatically reads each electric meter when requested, translates the readings into electric signals and then transmits them to the electric company via the cable TV lines. Such a system would not only save labor costs, the students noted, but allow a utility to better monitor and manage the electric usage of its customers.

Despite the appeal of electronic meter reading, the students discovered that the cost of implementing such a system currently outweighs any benefits Shrewsbury might derive from it. In particular, the cost of purchasing enough transponders, the devices which send the signal from the electric meter to the electric company, was judged to be too high.

The students noted that as electronic meter reading becomes more popular, the cost of equipment should decline. They developed special charts and computer software the Electric Light Plant can use to keep track of

(continued on page 10)

## Carnegie Panel

A recent report of the Carnegie Foundation sets high standards for undergraduate education. We believe WPI would be well served by a critical evaluation from the perspective of that report of its past performance and its future plans. To permit broad involvement in that exercise, we have organized the panel discussion described below.

We urge you to study the recommendations of the report and to join the discussion between the audience and the panel members on Thursday, January 22, at 4:30. We seldom have an opportunity to judge our own work as teachers of undergraduates in the light of such a prestigious external study.

## The Carnegie Report and Undergraduate Education at WPI

### Panelists

David Cyganski, Associate Professor of Electrical Engineering  
Chrysanthe Demetry, '88  
James W. Pavlik, Professor of Chemistry  
John F. Zeugner, Paris Fletcher Professor of History

### Moderator

James P. Hanlan, Associate Professor of History  
Thursday, January 22, 1987, 4:30 p.m. — Kinnicutt Hall

Members of the audience will be invited to join the discussion. To obtain an extended summary of the Carnegie report to guide your thoughts, stop by the Project Center (lobby area) and pick one up.



# ... Tougher TA Testing

(continued from page 1)

Rolla, the campuses with the most numerous foreign TAs.

"The faculty said the law was discriminatory because not all TAs were tested," says Dr. Judy Vickrey of the state Coordinating Board for Higher Education. "But the legislature ruled it was too late for the schools to handle the problem on their own."

Democratic Rep. Barbara Pringle introduced the Ohio measure after her daughter complained she couldn't understand some foreign-born teachers at Ohio State and Kent State.

"I'm very proud of the bill," Pringle says. "Several other states have such legislation or are working on it."

The problem is a relatively recent one, tracing back to the influx of foreign students into American graduate programs in recent years.

As a result, more foreign-born TAs were assigned to lead undergraduate courses, especially in scientific disciplines where the vast majority of native students skip grad school and go directly into the job market.

In the process, however, undergrads began to complain they had trouble understanding the TAs, who sometimes had little expertise in English.

"It's safe to say more schools are beginning to require English language proficiency tests for both teachers and teaching assistants," says Paul Jones of the Council of Graduate Schools in America. "There's pressure from students and from legislatures both."

## WPI Honors Milton P. Higgins With Professorship in Manufacturing

**WORCESTER** — At an inaugural event of The Presidential Founders of Worcester Polytechnic Institute, Milton P. Higgins, former chairman of Norton Company and an emeritus member of WPI's board of trustees, was honored by the establishment of the Milton Prince Higgins II Distinguished Professorship in Manufacturing.

"In establishing this new professorship," WPI President Strauss said, "WPI recognizes a man whose outstanding contributions to improved manufacturing methods, to the art of business management, to the betterment of his community and to the leadership of this Institute insure that this endowed chair will always represent to its recipients a truly significant honor."

The new professorship will be awarded to a distinguished scholar working within the field of manufacturing sciences and technologies. The appointment will be made by WPI's vice president and dean of the faculty, Strauss said.

Since its founding more than 120 years ago, primarily through the efforts of three successful entrepreneurs — John Boynton, Ichabod Washburn and Stephen Salisbury II — WPI's educational philosophy, which balances classroom instruction with practical application, has proved particularly well suited to preparing students for careers as leaders in the manufacturing industries. In fact, hundreds of WPI alumni have gone on to found and to manage manufacturing businesses.

Today, spurred by competition from overseas, American manufacturers are turning increasingly to advanced technology, such as computers and robots, to stay competitive. These manufacturers are also relying more heavily than ever before on universities for students well trained in manufacturing science and for the research needed to keep American industry ahead. Through programs such as its Manufacturing Engineering Applications and Management of Advanced Automation Technology Centers, WPI continues to fill the needs of industry, Strauss said.

"It was 'Yankee Ingenuity' that built New England's industrial economy and made it strong," Strauss said. "And, 'Yankee Ingenuity' remains an enduring trait of each succeeding generation of WPI-educated engineers and applied scientists. The Milton Prince Higgins Professor will be expected to continue this long tradition and instill a new spirit of 'Yankee Ingenuity' in the future industrial leaders educated at WPI," Strauss said.

Born in Worcester in 1903, Milton P. Higgins II is the grandson and namesake of Milton Higgins, who was a member of WPI's original faculty. The elder Higgins served as superintendent of the college's Washburn

The Illinois law "had the support of students, of student governments statewide and substantial support in both houses of the legislature," says Kirk Hard of the University of Illinois' governmental relations office.

"But universities and faculty generally opposed the bill. The University of Illinois felt the situation would be better handled on a case by case basis."

Gov. Thompson opposed the bill, Hard says, because "it cuts out experts in many high tech areas. It's cultural elitism, isolationism."

Hard adds that "James Madison couldn't have lectured in Illinois because he had a speech impediment. It would have eliminated such people as Albert Einstein" from teaching in the state.

Such legislative insistence seems to be prodding more schools to confront their TAs' language problems, if only to avoid state-mandated testing programs.

"Lots of universities are upset about the kinds of laws state legislatures may pass and are trying to solve the problem themselves," says Susanne Sarwark of Ohio State's English as a Second Language program.

"I don't see a lot more state laws being passed because, in the next few years, lots more colleges probably will set up proficiency programs independently to avoid state intervention," Sarwark says.

"The Ohio law directed attention to the problem," she adds. "There's not been a real concerted effort at most colleges until now."

Shops for 28 years. While at WPI he became one of the founders of the Norton Company and served as its first president. He also served on the WPI board of Trustees until his death in 1912.

Milton's father, Aldus C. Higgins, was a graduate of WPI and, like his father, served both as president of the Norton Company and as a member of the WPI board of trustees. Milton Higgins II attended Harvard and then joined the Norton Company in 1928. He was named president in 1946 and was elected chairman 1961. While he was at the helm, Norton experienced its greatest period of growth and became a publicly traded, Fortune 500 company. Higgins retired in 1975.

Over the years, Higgins has been active in many Worcester-area institutions. Among the posts he has held are president and director of the Worcester Art Museum, a director of the Worcester Boys Club and the Worcester Business Development Corporation, a trustee of the Bancroft School, treasurer of the Worcester Redevelopment Authority and director of Community Services of Greater Worcester. He has also served on the boards of several corporations.

In recognition of his achievement, he has received honorary degrees from WPI, Assumption College, Clark University and the College of the Holy Cross. In 1961, he received both the Isaiah Thomas Award from the Advertising Club of Worcester in recognition of his service to the community and the Star of Solidarity from the president of the Republic of Italy, where Norton has manufacturing facilities.

Higgins' service to WPI has been manifold. He was an active member of the board of trustees for 31 years. As its chairman from 1971 to 1978, he led the Institute during the implementation of the WPI Plan, WPI's widely recognized, innovative undergraduate education program. He also chaired WPI's Centennial Fund which, between 1965 and 1968, achieved its \$15.4 million goal. The fund made possible WPI's Goddard Hall, Gordon Library and Harrington Auditorium.

While he was a trustee at WPI, Milton's wife Alice chaired the board of trustees at Clark University. They were believed to be the only couple in the country fulfilling this dual role.

"The Higgins name has long been associated with WPI," Strauss said. "Today, you'll find it on the Higgins House, a gift to the school from Milton's father, Aldus; on the Higgins Laboratories, the construction of which was made possible largely with gifts from the Higgins family; and on the Milton

(continued on page 10)

## Social Life and the Art of Thermodynamics

by Scott Bury

How do you react when you see someone on their knees carefully caressing the cold porcelain bowl in front of them? Depending on how well you know this person, you may laugh or offer sympathy in response to the pleasant sound (and smell) of Daka making it's encore.

Before daka accuses me of ruining their business, this article is not about overconsumption of food. It concerns the preferred social activity of WPI and colleges across the nation. And what is this strange and wonderful social ritual that often has its participants waking up and inquiring, "How did I get here?" Surprise, it's Thermodynamics and you thought I was going to discuss drinking. I am.

Without a doubt alcohol is the substance of choice among WPI students. This is not unusual since it is also the drug of choice across America.

Social drinking, per se, doesn't really bother me. A cold draft is sometimes all it takes to put the rhythm of the music into your feet. However, watching beer and more beer turn rhythm into omnidirectional stumbling into walls does concern me.

This brings us to the question of problem drinking. Alcohol becomes a problem when

the user can no longer control his or her usage. This is accompanied by repeated destructive behavior. People are not meant to completely forget the previous night nor is normal to walk around with dynamite going off inside your head.

Regardless of how it is defined or why it occurs, alcohol and other substance abuse is a problem here at WPI.

At present, there is no program aimed at addressing this issue, the counseling center notwithstanding. But one is being formed and it needs you. This program will be a peer education one, with students helping other students through education. It will not be a rabid group of zealots preaching "Stop drinking."

The focus of this group will to provide information for students about alcohol, provide assistance for those seeking help, and to foster responsible drinking at WPI.

Participants will receive free training in alcohol education from Mary Kirby of Doctor's Hospital. If you are concerned, interested, or even bored next Tuesday, January 27th, please attend an informational meeting in Higgins 109 from 6:30 to 7:30 pm. There will be FOOD!! We want you. We need you. Be there.

## Dukakis Urges All Citizens of the Commonwealth to Donate Blood

Emphasizing the need for blood everyday, but especially after the holiday season, Governor Dukakis has proclaimed the month of January as Volunteer Blood Donor Month in the state of Massachusetts.

Dukakis is recognizing volunteer blood donors for their support and also urging all healthy, eligible members of the Commonwealth to help maintain a safe and adequate blood supply.

In his proclamation the Governor declared, "The support of each and every eligible, healthy citizen is instrumental. Blood is a resource that must continually be replenished and the Commonwealth of Massachusetts must face this challenge again this year, as they have done so generously in the past." He also went on to add, "those who support the Volunteer Blood Donor program have given the gift of life to their neighbors. These unselfish citizens are the heroes of today."

The ARCBS-NER, through the generous support of volunteer blood donors, provides over 90% of the blood transfused to patients in hospitals within the state of Massachusetts. The need for blood exists daily. Blood must be available before the need for all trauma victims, burn victims, transplant patients, and hospitalized patients throughout the state of Massachusetts. Blood must be collected today to ensure that it is available tomorrow.

Donating blood takes a few minutes of your time and one blood donation can help save the lives of up to three patients. Healthy, eligible individuals at least 18 years of age (17 with a signed parental/guardian American Red Cross consent form) who wish to donate blood, the gift of life, can call 1-800-258-0025 for more information.

## The Puzzle

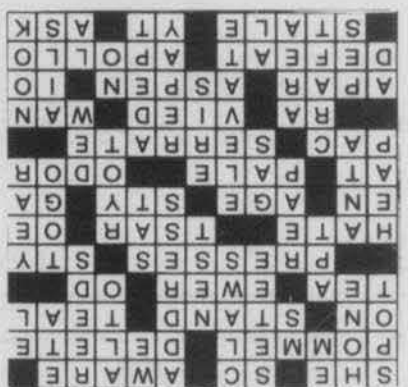
### ACROSS

- 1 That woman
- 4 A state: abbr.
- 6 Cognizant of
- 11 Part of saddle
- 13 Strike out
- 15 Running
- 16 Remain erect
- 18 Freshwater duck
- 19 Beverage
- 21 Pitcher
- 22 Hypothetical force
- 23 Irons
- 26 Pigpen
- 29 Detest
- 31 Former Russian ruler
- 33 Faeroe Islands whirlwind
- 34 Half an em
- 35 Mature
- 38 Pigpen
- 39 A state: abbr.

- 40 For instance
- 41 Wan
- 43 Aroma
- 45 Moccasin
- 47 Having notched edge
- 50 Sun god
- 52 Contended
- 53 Pale
- 56 Armadillo
- 58 Tremulous
- 60 Maiden loved by Zeus
- 61 Loss
- 63 God of manly youth
- 65 Vapid
- 66 Symbol for yttrium
- 67 Inquire

### DOWN

- 1 Blemish
- 2 Sharpen
- 3 Printer's measure



- 4 Mediterranean vessel
- 5 Talons
- 6 Lecture
- 7 Pronoun
- 8 Choir voice
- 9 Musical instruments
- 10 Greek letter
- 12 Manuscript: abbr.
- 14 Spanish article
- 17 Bird's home
- 20 Likely
- 24 Harvest
- 25 Follows Fri.
- 27 Country of Africa
- 28 Period of time
- 29 Pile
- 30 Pilaster
- 32 Hindu peasant
- 36 Aeriform fluid
- 37 Raise
- 42 Goddess of discord
- 44 Condensed moisture
- 46 Vessel
- 48 Remunerate
- 49 Clever
- 51 Region
- 54 Is ill
- 55 Cozy corner
- 56 Paid notice
- 57 Footlike part
- 59 Japanese drama
- 62 Indian mulberry
- 64 Note of scale



## Club Corner

### AJI

It's about time guys but we actually *won* a basketball game!! After a few close losses and a few not so close losses we're over the hump and marching towards mediocrity. It was an exciting game dominated by strong rebounding, good dribbling and average shooting. **BUT WE WON 40 - 34!!** It's a win. Game high scoring honors go to our newest member Jeff "I'm good" Portnoy and a gook defensive game was put in by Chris Talbot, Don Kane and Matt Ronn.

### DOUBLE DRAMA AUDITIONS

Masque has a double bill coming up in late February. The WPI drama club, will produce and direct **WHEN I WAS YOUR AGE** by Prof. Susan Vick, and **PRIVARTE WARS** by James McLure. Talented students will fill roles for seven women and three men, and auditions will be held today at 4:30, and tomorrow at 12 noon, and 4:30 in the green room of Alden Hall. Material will be supplied for readings so just come as you are. Everyone is invited to audition for these roles and anyone interested in working with the stage crew should also drop in to get acquainted with the club.

### PATHWAYS

Our winter issue is ready! Tomorrow, copies of the issue will be placed in the *Newspeak* slots, and will also be available at the Activities Fair. Don't forget to take your copy!

Many thanks go to those who submitted material or helped with the editing of this winter issue. True... a few typos escaped our attention, but we will be more careful next time, right?

Tonight the Pathways staff has an important meeting at 7:00 p.m. in the *Newspeak* Layout Room (Riley Hall basement.) If you are not currently a Pathways staff member but might be interested in becoming one, it is to your advantage to come to the meeting tonight...

### SIMA PI SIGMA CHAPTERS HONORED

The Worcester Polytechnic Institute Chapter of Sigma Pi Sigma, the physics honors society, has achieved a membership of over 100 since its installation in 1970. Only 140 chapters have achieved this level.

Sigma Pi Sigma, which was founded in 1921, has 363 chapters at university and col-

lege campuses in 45 states. The Society, which is part of the Society of Physics Students of the American Institute of Physics, was founded to recognize outstanding scholarship achievement by students in physics. It currently has more than 54,000 members, including alumni.

The ten Sigma Pi Sigma chapters that were presented with certificates this year for the strong programs they have maintained are: **AUBORN UNIVERSITY**, 600 Member Chapter, Dr. G. Donald Thaxton, SPS Advisor; **UNITED STATES NAVLA ACADEMY**, 600 Member Chapter, Dr. John Ertel, SPS Advisor; **MIAMI UNIVERSITY**, 500 Member Chapter, Dr. Douglas S. Marcum, SPS Advisor; **WILLIAM JEWELL COLLEGE**, 300 Member Chapter, Dr. Charles Don Geilker, SPS Advisor; **UNIVERSITY OF TEXAS, ARLINGTON**, 200 Member Chapter, Dr. Nolen G. Massey, SPS advisor; **COLORADO SCHOOL OF MINES**, 100 Member Chapter, Dr. J. G. Sheperd, Sps Advisor; **SUNY STATE UNIVERSITY**, 100 Member Chapter, Dr. Edward D. Lambe, SPS Advisor; **UTAH STATE UNIVERSITY**, 100 Member Chapter, Dr. Jan Josef

Sojka, SPS Advisor; and **WORCESTER POLYTECHNIC INSTITUTE**, 100 Member Chapter, Dr. Van F. W. Bluemel, SPS Advisor.

### SPORT PARACHUTE CLUB

After a very successful fall semester the WPI Sport Parachute Club is looking forward to an active spring semester. The club made several trips to Stardusters Para-Center in Woodstock, CT on weekends throughout A and B terms.

To start the term the SPC will participate in the SAB Winter Activities Fair this Wednesday. From 11:00 a.m. to 3:00 p.m. we will be showing videos of skydives in various aspects of the sport. Club members will be available to give you information and answer questions.

Another point of interest we are looking forward to will be on Junior Prom weekend. Plans are in the works for skydivers to land on the Quad as part of the JP Quad Fair. This would consist of two to four jumpers exiting an airplane over WPI, deploying their parachutes and flying them to a soft landing right on the Quad.

## Greek Corner

### ALPHA GAMMA DELTA

Hi everybody and welcome back! Hope you all had an awesome break. As for you DC girls, we've heard some wild and crazy things. Chris and Simone, you like older

men? Too bad Simone's card got lost in the mail. Is Skip short for Skippy? Lynn, you've definitely got a touch of Senioritis, huh? The next time you go skiing, Lori, why don't you try using the skis?

Roses to Barbara McLaughlin for her pinning to Bob at the end of B term. (So Sue, what's the scoop with you?)

### DELTA PHI EPSILON

Welcome back everyone!! Congratulations to Patty on her engagement!! Pledges, watch out!

### PHI SIGMA SIGMA

Hi guys and welcome back to the wonderful world of C-term! Hey, all you crazy San Fran people - is this a major shock or what? Where's the sun hiding away?

Pledges, did you manage to purchase all you "supplies" on Thursday? Or did Pam F. have to explain to you what they were? Good job with the raid and thanks to all the sisters who helped out.

Congrats to our three brilliantly Competent seniors, Lisa Anderson, Cheryl Delay, and Mary Housekeeper, who can now relax and make as all sick with envy. Way to go chicks, we're psyched for ya! (Cheryl, did you find out what they really put in those celebration shots?)

Cabinet elections are next week so make sure you all show up and support your favorite losers! And most importantly, don't forget about the upcoming C-term ski trip! The mountains up north will never be the same

after we're through with them. Yes, Sue G., even if you can't ski we'll take you anyway! See Ya!

### SIGMA PI

Welcome back everyone. Hope everyone had an enjoyable break especially little KOKMUT who thought he had already graduated (it was real close.) First to all those semi-retarded plebians of ours who keep talking about help week like its going to be any day now - get a clue! You'll be lucky if the ever-present God-Like force which emanates constantly throughout the brotherhood has the mercy to even give you help week this year! Now that that has been cleared up... congratulations to our competent seniors J.R. and B.D. Due to the fact that very little has happened this week I'll leave with a few thoughts for the new year: a cat for everyone, a gummy and pokey set for everyone, a room to P.R. and the A.P.G., wrestling brought back to the living room only if it complies with rules set by the World Wrestling Federation including a mandatory eight count, a house without Gweeper Machines (computers, that is), and a mandatory second language - Albanian.

## STUDENT SPECIAL

**SANREMO'S**  
MENS HAIRSTYLING SALON  
**\$10.00** with Student I.D.  
WASH - CUT - BLOWDRY  
Our Reg. \$13.50

**755-5852**  
Appt. or Walk In

**237 Park Ave**  
**Worcester, MA**  
(Corner of Elm & Park  
Next to Parkview Towers)



**DELIVERS**  
Noon til closing

**753-3777**

- SUBS
- SYRIANS
- SALADS
- ITALIAN  
STYLE THIN  
CRUST PIZZA

**\$1.00 off**  
**ANY LARGE PIZZA**  
with cheese and one  
or more toppings

One Coupon Per Visit  
Or Delivery

EXPIRES:  
January 26, 1987

corner of Park & Pleasant

## WHAT MAKES INDIVIDUALS DIFFERENT?

FEMALE/MALE  
RACE  
RELIGION  
CULTURE & ETHNIC BACKGROUND  
SEXUAL ORIENTATION  
HANDICAP  
EDUCATIONAL BACKGROUND  
ECONOMIC STATUS  
ETC.  
ETC.  
ETC.

WHAT MAKES US DIFFERENT -  
MAKES US SPECIAL.

WHAT MAKES US DIFFERENT -  
MAKES US BETTER.

PROGRAM COMING TO WPI FEBRUARY 2ND!



**Back to the Future**

**“Back to the Future”**

**WPI ORIENTATION 1987**

**Summer Orientation Leader Positions for Orientation 1987**

**Informational Meetings**

Wednesday, January 21 7:00 p.m.

Thursday, January 22 4:00 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 1988, 1989, 1990.

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 8 through Tuesday, March 10.

Orientation leaders must attend and successfully complete an intensive course in leadership and communication skills to be held during D term.

Applicants must be able to participate in the Summer Orientation Program to be held June 13-14, June 16-17, and June 20-21, 1987 and the Fall Arrival Program on August 30-31, 1987.

**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 16 and 17 orientation program. Room and board will also be provided during the training program.

APPLICATIONS NOW AVAILABLE IN DEAN OF STUDENTS OFFICE  
APPLICATION DEADLINE FEBRUARY 6, 1987



## WPI Professor Travels to India To Lecture on Biotechnology

David DiBiasio of Holden, Massachusetts, an associate professor of chemical engineering, recently returned from Calcutta, India, where he spent a week lecturing on biochemical engineering as part of a program sponsored by the Indian Ministry of Science and Technology. DiBiasio was the only foreign speaker on the program.

According to DiBiasio, the program, held at the Chemical Engineering Department at Jadavpur University in Calcutta, was designed to reeducate Indian scientists and

technicians trained in chemical engineering in the techniques of biochemical engineering.

Biochemical engineers specialize in using microorganisms and controlled biological reactions to produce useful quantities of such products as medications, food and energy sources.

During the conference, DiBiasio lectured on the analysis of the operation of biological reactors, chambers in which controlled biological reactions are sustained, the kinetics of biological reactions and ways to

optimize the output of reactions. He also gave a lecture on mathematical models of biological reactors at the University of Calcutta.

Before traveling to India, DiBiasio attended the World Congress of Chemical Engineering in Tokyo, where he delivered a paper on his work with the controlled growth of a genetically engineered yeast known as *Saccharomyces cerevisiae*.

DiBiasio joined the faculty of WPI in 1980 after earning his undergraduate and graduate

degrees in chemical engineering from Purdue University. His research has focused on the analysis, stability and optimization of biological reactors.

Currently, he is studying the dynamics and stability of a biological reactor in which a waste material is converted by microorganisms into a usable protein. The research, begun in 1981, has been funded with grants totaling \$273,000 from the National Science Foundation.

*Shown during mid-construction, the sand castle is having its crenelations carefully added by the apprentice builders under the watchful eye of Dr. Dan Gibson of the Biology/Biotechnology Department. Crenelations are the notches on top of the walls.*

*In medieval times, the king had to grant you a license to crenelate before you could build a castle, now all you need is some sand, water and imagination.*



## NEWSPEAK Writer Position AVAILABLE!

*(No experience necessary)*

Contact: Mark Osborne  
793-5464  
or  
Box 2700

## APARTMENT

Tenancy in common  
apartment-sharing  
arrangement available  
immediately.

- 4 bedroom apartment
- Furnished
- Utilities Shared
- 2 or 3 roommates

19 June Street, 2nd Floor  
(1 block from Newton Square)

**797-5878**



# SPORTS



PHOTO BY JON WAPLES

A WPI player looks for a method of escape from two of Worcester State's defenders.

## Engineers Get Back on Track - Beat Worcester State

by Jim Barry

WPI's Men's Basketball Team snapped its five game losing streak last Thursday night by defeating crosstown rival Worcester State. The Engineers got off to a slow start, scoring only eight points in the first eight minutes of the contest. However, despite the early problems on offense, the team remained close thanks to some shooting by Ken Willis and John Loonie (10 and 7 first half points respectively). The two teams battled to a 35-35 tie with just under three minutes left in the half, but State outscored WPI 6-0 the rest of the way and the team found themselves trailing 41-35 at the intermission.

Coach Kaufman's halftime speech apparently did the job as the Engineers got off

to a quick start in the second half, outscoring State 13-4 in the opening four minutes. WPI's front court took over on offense, scoring 34 of 45 of the team's second half points. The two teams remained close until Jeff Ayotte came up with a big steal and break-away layup to put WPI up for good at 71-67. Paul Lubas would score WPI's last seven points as the team cruised to an 80-71 victory. The win was a real team effort as the box score would indicate. Of the eight WPI players to score, four scored double figures, led by Loonie with 17 and Lubas with 14. WPI's next contest will be on Thursday at Brandeis and the next home game will be against King's Point on Saturday the 24th at 8:00 p.m.

## Women's Outdoor Track

There will be an organizational meeting on Wednesday, January 28 at 4:30 in the lobby of Harrington Auditorium for all new athletes interested in competing in Women's Outdoor Track and Field. Physicals are being given on Tuesday, February 3 at 6:30 in lower Harrington (ROTC level) for those

who have not had a WPI sports physical. Practice will begin on February 2 at 4:30 in Harrington.

Anyone interested in further information or anyone committed to a winter sport but planning to compete in track should contact Coach Savilonis, Higgins Labs 123, ext. 5686.

## WPI WOMEN'S TEAM TAKES 5-2 RECORD INTO HOLIDAY BREAK

The WPI woman's basketball team raised its record to 5-2 before entering a five-week hiatus with a 71-51 victory over Framingham State Thursday, December 11, on the road.

WPI point guard and senior Tri-Captain Cathy Murray led the Engineers in scoring, making 8 of 11 shots from the floor to total 20 points. Tri-Captains Kathy O'Neill and

Cindy Perkins also turned in good performances. Perkins continues to lead the Engineers in scoring with a 17.3 point average and 111 points to date. Forward Kathy O'Neill turned in her best performance of the season with 18 points going 7 for 10 from the floor and making all four of her foul shots.

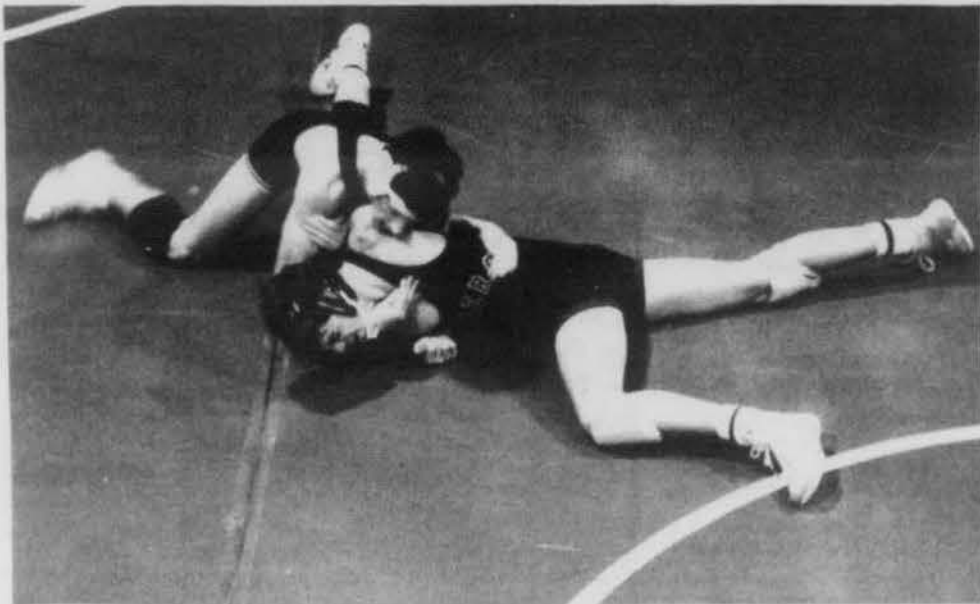


PHOTO BY K. CHRISTODOULIDES

WPI wrestler grapples with his opponent from Amherst on Wednesday night.

## WPI WRESTLING ROMPS

The WPI wrestling team proved it deserves its rank of number one among New England Division III teams in a 35-10 trouncing of second-ranked Rhode Island College in a home meet Saturday. The victory competition to 7-0. RIC is now 1-1.

The meet began positively for RIC as WPI Sophomore Todd Wyman was outscored by RIC's Scott Martin in the 118 lb category, giving the visiting team a lead of 4-0. However, WPI quickly regained the lead as undefeated Engineers Don Pagel, Jason Benoit and Bob Carrol won matches in the 126, 134 and 142 lb categories in the three different ways - Pagel by scoring 16 points

to his opponent's one, Benoit by pinning RIC's Kevin Higgins, and Carrol by holding onto an early lead of 4-0 to outscore RIC's Sean Sullivan 6-5 at the end of three rounds. WPI 150 lb wrestler Mike Crispo and 158 pounder John Doe dominated their opponents, raising the meet score to 23-4. The streak of WPI's was snapped by defeats in the 167 and 177 pound categories. However, a forfeit by RIC in the 190 lb category and a first round pin by undefeated WPI heavy weight Steve Hall gave WPI the meet victory.

The Engineer's next home meet will be against MIT on Wednesday, January 28 at 7:00 p.m. in Alumni Gym.

### 2nd Annual Mini 2-on-2 Hoop Tournament

Date: January 24, 25

Sign-up: Wedge Jan. 16 - 22, 10 am - 1 pm

Entry Fee \$10 per team 1st Prize \$100

Other prizes - Celtics tickets, ski passes & more

Free T-shirts to First 50 teams

Sponsored by Class of 1988

### CLASS OF 1988

Seeks Chairperson(s) For:

1 - Senior Dinner Dance

2 - Senior Week Activities

For more info contact: Box 1399



# What's Happening

**Tuesday, January 20**  
 7:00 pm - Wrestling vs. WNEC - Women's Basketball vs. Coast Guard

**Wednesday, January 21**  
 11:00 am - 3:30 pm - Spring Activities Fair, Alden Hall  
 2:00 - 3:30 pm - Chemistry Colloquium, **Microscale Organic Chemistry Techniques**, by Dr. Kenneth Williamson of Mt. Holyoke College. Salisbury Labs, Rm. 115, Refreshments  
 2:30 pm - Air Force Open House, Air Force ROTC Bldg, Holy Cross

**Thursday, January 22**  
 7:40 pm - Hockey vs. CCRI  
 5:30 & 7:30 pm - Men's Basketball at Brandeis

**Friday, January 23**  
 11:00 am - CS Department Seminar - "Automated Deduction with Unnormalized Formulas," by Dr. Erik Rosenthal of Wellesley College, AK 233  
 8:30 pm - Dance Daze, Alumni Gymnasium, \$2.50

**Saturday, January 24**  
 2:00 pm - Swimming vs. Coast Guard  
 8:00 pm - Mens Basketball vs. Kings Point  
 9:00 pm - Band in Gompei's place

**Sunday, January 25**  
 10:00 am - Wrestling - New England Invitational Tournament at MIT  
 6:30 & 9:30 pm - The Reel Thing, **Aliens**, Alden Hall, \$1.50

**Monday, January 26**  
 6:30 - 8:30 pm - Student Counseling Center Seminar - "Exploring your Personality," Part I, Student Counseling Center, free

## ... Higgins (continued from page 5)

P. Higgins lecture hall in the historic and fully restored Washburn Shops — the building where Milton's grandfather had taught."

"Now, through this professorship, we are able to honor the leadership and generosity of Milton Higgins in a most appropriate and enduring way," Strauss added.

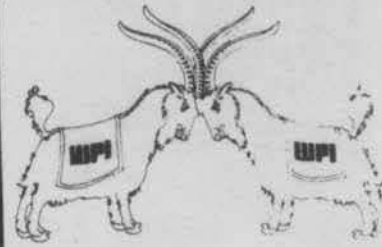
The WPI Presidential Founders recognizes benefactors who have, though life-time support to WPI, at least equaled the initial benefaction of John Boynton, who founded WPI in 1865 and provided the Institute a grant of \$100,000, representing the bulk of his life savings.

## ... Municipal (continued from page 4)

the cost and benefits of this technique. The also suggested that because both its electric and cable systems are municipally-owned, Shrewsbury might prove an ideal site for a full-scale test of cable-TV-based meter reading by the electric utility industry.

The projects conducted by the two student teams are known as Interactive Qualifying Projects or IQPs. The IQP is one of two major projects all undergraduates at WPI must complete. In their IQPs, students must explore the interaction of science, technology and society. The other undergraduate project, the Major Qualifying Project or MQP, focuses on a student's major field of study.

**Newspeak Needs An AD Representative**  
**\$5.00/hr. Working with all aspects of newspaper production.**  
 Work study eligible preferred.  
 Write Box 2700 or call 793-5464



*The goat is back!*

## Off the Record

by Holland Mills

The Clash broke up. Mick Jones and Joe Strummer had a parting-of-the-ways, as so many great song writing duos do. The big question die-hard Clash fans pondered was if Jones and/or Strummer would continue to do anything substantial in the music world. They had written some of the best songs of the late '70's and early '80's. "The Clash", "London Calling", and "Combat Rock" defined punk, and in the process, defined some of the cross-cultural musical mixing that has recently become so popular.

Jones was the first to break the silence. He wrote some songs with Don Letts, got together a new band of talented musicians, adopted a contemporary black funk sound and dubbed it Big Audio Dynamite; aka B.A.D. Their first album, "This is Big Audio Dynamite" was released last year to the applauding of critics. The album sounded like a continuation of what the Clash had been doing on "Sandinista" and "Combat Rock." Except the beat was better. The lyrics were filled with references to corporate and



**5 MINUTE WALK!**  
**QUICK LUNCH**  
**Acapulco**  
**107 HIGHLAND STREET**

1. TACO SALAD .....	3.95
Open faced large Taco - on a bed of lettuce, topped with Chili, cheddar cheese	
2. TACO TREAT .....	3.15
Beef, Chicken, Bean Taco served with rice, hot sauce and chips	
3. CHEESE OR CHICKEN ENCHILADA .....	3.25
Rice or Refried beans	
4. HOMEMADE CHILI .....	Cup 1.55 Bowl 2.25
It's a treat	
5. MINI CHEESE CRISP AND SALAD .....	2.95
6. NACHO CHEESE FRIES .....	2.25
French fries topped with nacho cheese sauce.	
.....	2.75
ggets served with honey or barbecue sauce	
.....	3.25
ew Delicious Burrito Sauce...Super Value	
BEQUEED CHICKEN & SOUP .....	2.95
KEN SOUP (House Special) .....	Cup 1.00 Bowl 2.15
<b>HOT STUFFED BAKED POTATO</b>	
.....	2.25
.....	2.25
.....	1.95
.....	2.25
.....	2.95
ed beef, chili pepper, tomato, topped with cheddar cheese	
<b>SUPER SPECIAL</b>	
1.50 value) .....	2.99
with lettuce, tomato, cheddar cheese, salsa, onion. Served on a ce of beef, chicken, bean)	

**BABY BACK RIBS**  
**CADILLAC OF RIBS**  
 BARBEQUED - TENDER - LEAN  
 1/4 Rack served with french fries & cole slaw  
**3.95**

**1/4 BBQ CHICKEN DINNER**  
 Includes French Fries & Creamy Cole Slaw  
**4.50**



# CLASSIFIEDS

Apartments, 5 min walk to WPI off Highland, appliances, gas heat, Shea Realty. 755-2996

Is it true you can buy Jeeps through the U.S. Government for \$44? Get the Facts today! Call 1-312-742-1142 ext. 5883

CS GRADS: CARPOOL to off-campus classes in Marlboro now forming. Sign-up sheets are located on the bulletin board across from AK 129 (just outside of the CS Dept office.)

Have you ever been made fun of because of your accent or for your use of your native language? - Feb. 2nd

Does being a female (a minority) in engineering bother you? -Feb. 2nd

Does anyone think that you're not "cool" because of your religious beliefs? -Feb. 2nd

In our society, many people have been denied the right to live in certain areas just because of their skin color. -Feb. 2nd

What is Feb. 2nd? - Check out next week's *Newspeak* to find out!

*Newspeak* will run classifieds free for all WPI students, faculty and staff. Free classifieds are limited to six (6) lines. In addition, advertisements which are related to commercial business or off-campus concerns will not be free. Ads longer than six lines, as well as commercial and off-campus ads, must be paid for at the (off-campus) rate of \$3.00 for up to six lines and \$.50 (50 cents) per additional line. Classified advertising must be paid for in advance.

No information which, in the opinion of the *Newspeak* editors, would identify an individual to the community at large will be printed in a personal ad. The editors reserve the right to refuse an ad if it is deemed to be in bad taste, or if there are many ads from one group or individual or on one subject.

The deadline for classified ads is noon on the Friday preceding publication. All advertisements must be on individual sheets of paper and must be accompanied by the writer's name, address and phone number for verification.

Name \_\_\_\_\_ PHONE \_\_\_\_\_

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

AD TO READ AS FOLLOWS:

Allow only 30 characters per line.

\_\_\_\_\_ 1  
 \_\_\_\_\_ 2  
 \_\_\_\_\_ 3  
 \_\_\_\_\_ 4  
 \_\_\_\_\_ 5  
 \_\_\_\_\_ 6  
 \_\_\_\_\_ 7  
 \_\_\_\_\_ 8

## Financial Aid News

Next year's Financial Aid Applications (1987-1988) are available in the Financial Aid Office located on the lower level of Boynton Hall. If you have not yet received the application and related forms in your WPI mailbox, please stop by the Financial Aid Office between the hours of 8:30 a.m. - 12 Noon and 1 p.m. - 5:00 p.m. to pick one up.

Please note that the students who intend to apply for a Guaranteed Student Loan must now complete Financial Aid Forms, regardless of whether the Guaranteed Student Loan is the only form of aid the student wishes to apply for. Therefore, in addition to obtaining a loan application from your lending bank, students must obtain financial aid forms from the Financial Aid Office. Guaranteed Student Loan ONLY applications should not be submitted to this office until May 1, 1987.

## WPI Plant Engineering Program Graduates 10

The Plant Engineering Program recently graduated the nine members of the Class of 1986 in a ceremony at the Higgins House on the WPI campus.

The class was presented by Robert J. Hall, director of the Plant Engineering Program. The certificates were awarded by Richard H. Gallagher, vice president and Dean of Faculty at WPI. Thomas J. Seiferman gave the response from the class.

Instituted in 1976, the Plant Engineering Program is designed for plant engineering practitioners at all levels. Participants are sponsored by their employers. The curriculum includes courses in communications skills, business law, energy conservation, codes and code enforcement, fire safety analysis and management accounting.

The graduates are:

**Peter J. Cullen** of Winchester, Mass., Procter & Gamble Manufacturing Company; **Richard P. Mercandante** of Shrewsbury, Mass.; **David Molvar** of East Douglas, Mass., GTE Strategic Systems Division; **Jon S. Neal** of Putnam, Conn., Rogers Corporation; **Stephen P. Pawelski** of Westminster, Mass., James River Company; **Anthony J. Pimentel** of Medford, Mass., Sasso Construction Company, Inc.; **Craig Rushton** of Dudley, Mass., Norton Company; **Thomas J. Seiferman** of Dayville, Conn.; and **David A. Tosi** of Sterling, Mass., Norton Company.

# TERADYNE

**From TERADYNE**  
**A Very Large Scale Invitation**  
*from a Technology Leader*

*In electronics, the era of very large scale integration (VLSI) has arrived, leaving many companies with products suddenly obsolete and engineering staffs struggling to catch up.*

*But not Teradyne. Thanks to \$165 million spent on R & D from 1981-1985, Teradyne was ready and waiting for VLSI.*

*Ready with VLSI memory testers, logic testers, analog testers, board testers.*

*Ready in Boston, Massachusetts, and Woodland Hills, California, where Teradyne develops ATE for the electronics industry.*

*Ready in Deerfield, Illinois, center for Teradyne's telephone system testing operations.*

*Ready in Nashua, New Hampshire, where Teradyne produces backplane connection systems and state-of-the-art circuit board technology designed to meet VLSI requirements.*

*This kind of technology leadership spells growth. Excitement. Challenge. Career opportunities you just can't find anywhere else.*

*Teradyne. A company ahead of its time, looking for some good people to keep it ahead.*

*For more information, see your Placement Counselor.*

# SHARE IN OUR SUCCESS



Maybe there is a substitute for experience.



Subscribe to The Wall Street Journal, and enjoy student savings of up to \$48. That's quite a bargain, especially when you consider what it really represents: tuition for the real world.

To subscribe, call 800-257-1200\* Ext. 1066 toll-free.  
 Or mail to: The Wall Street Journal, 500 So. W. Seattle, WA 98119

Send me 6 copies for \$25. Payment enclosed?  Bill me later.

Name \_\_\_\_\_  
 Mail to: F.I.C. \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_  
 State \_\_\_\_\_  
 Zip \_\_\_\_\_

School \_\_\_\_\_  
 Major \_\_\_\_\_  
 \*The Wall Street Journal is published daily except on Sundays and public holidays. It is published by Newsday, Inc., 125 W. 28th St., New York, NY 10001. © 1987 Newsday, Inc.

YASNY The Wall Street Journal 2340  
 Newsday, Inc. The Wall Street Journal, 125 W. 28th St., New York, NY 10001



## Police Log

Compiled by Sergeant H. Jurgen Ring

### Monday December 15

10:30 PM - Student calls regarding students throwing things from Ellsworth apartments and threatening to break windows at 25 Trowbridge St. Officers arrive, speaks with complainant and resident of adjoining Ellsworth apartment, with a warning given by the officer.

### Wednesday December 17

1:37 AM - Occupant of Morgan 3rd calls to complain of noise coming from adjoining room. Officer dispatched. Both officer and Snap report no noises or disturbance to be found.

### Thursday December 18

12:56 AM - Officer on patrol reports a broken window on Morgan 2nd.  
1:50 AM - Student on Morgan 2nd reports a suspicious person asking fellow students if he could buy beer for them. Subject has been seen in the area several times by these students. Officers patrol campus but unable to locate subject.

### Friday December 19

7:00 PM - Sergeant on patrol observes several townies entering Riley Hall in possession of alcoholic beverages. Subjects advised of trespassing; alcohol confiscated as subjects were found to be minors.

### Saturday December 20

2:40 AM - Citizen reports possible student setting off fireworks at corner of Dean and Salisbury St. Officers to check. Also report of breaking glass in Founders parking area. Officers investigating report Zeta Psi's window broken. Possibly three males involved in doing so.

3:20 AM - Four subjects apprehended by officer on patrol at the Skull Building. Subjects were students attempting to gain entry and were advised of wrongdoing. Student Affairs handled disciplinary action.

### Sunday December 21

11:26 PM - Officer reports broken window at Ellsworth 12. Officer unable to determine if anything taken. Carpenters called to location to secure premises.

### Thursday January 1

Officer on patrol discovers flooding problem in Stoddard A. A pipe was broken and several rooms flooded. Broken window also discovered in Room 115. Follow-up investigation to take place when students return to determine if anything was stolen.

### Friday January 2

6:52 PM - Call from Phi Gamma Delta regarding possible break-in in that area. Officer dispatched, advises nothing was out of order and there were no problems in the house.

### Monday January 5

4:00 PM - Complaint of noise from Alden Hall. Report that a drummer has the windows open. Student in Fuller cannot study. Officer dispatched to location, problem taken care of.

### Tuesday January 6

1:35 PM - Student at Lambda Chi calls regarding a break-in into Lambda Chi. Officer to investigate. This is a past break. Report made.

9:30 PM - Complaint of students throwing snowballs from Daniels onto Institute Rd. Officer dispatched and advises upon arrival no activity regarding snowball throwing taking place.

### Wednesday, January 7

8:59 PM - Officer advised of a theft that took place at Theta Chi involving skis, ski rack and ski poles. Officer advises victims to contact WPD.

### Friday January 9

9:30 PM - Pastor of Armenian church on

Dean St. reports two suspicious teenagers trying to get into the church. They also tried doors at a fraternity in that area. Officers respond. Area thoroughly checked and no one suspicious found in the area. Patrols to keep extra watch in the area.

### Sunday January 10

4:15 PM - Several high-school aged non-WPI students removed from Alumni gym.

### Tuesday January 12

9:20 PM - Officer advises removing several non-WPI youths from the gyms.

### Wednesday January 13

1:00 PM - Professor advises unusual odor

in Alden Hall. Sergeant responds. Discovers second-floor ballast for lights is leaking and is the cause of smoke. No fire found. Situation under control. Plant services to correct problem.

10:50 PM - Student in to station to report an injury of a student who was sliding down Boynton Hill. Officer responds and requests ambulance. Possible broken collarbone and facial cuts. Student to be transported to Hahnemann Hospital.

### Thursday January 14

3:59 PM - Theta Chi calls complaining of a trespasser going through their dumpster area and making a mess. Officers respond, subject questioned and advised of trespassing and sent on his way.

AIM HIGH

### PUT YOUR COLLEGE DEGREE TO WORK.

Air Force Officer Training School is an excellent start to a challenging career as an Air Force Officer. We offer great starting pay, medical care, 30 days of vacation with pay each year and management opportunities. Contact an Air Force recruiter. Find out what Officer Training School can mean for you. Call

T Sgt Don Dawson  
(413) 785-0352

AIR FORCE

# The Morning After at WPI

ACK!



Peer Educator Program — Higgins Rm. 109  
Tuesday, January 27 at 6:30 P.M.  
FREE FOOD